

City of Morro Bay

Stormwater Annual Report

February 2010 – February 2011

YEAR 2



Submitted: June 1, 2011



PAGE LEFT BLANK

ANNUAL REPORT

**General Permit for the Discharger of Storm Water from Small
Municipal Separate Storm Sewer Systems (General Permit)**

A. Permittee Information

Check box if this is a new name, address, etc.

- 1. Permittee (Agency Name): City of Morro Bay
- 2. Contact Person: Damaris Hanson
- 3. Mailing Address: 955 Shasta Ave
- 4. City, State and Zip Code: Morro Bay, California 93465
- 5. Contact Phone Number: 805-772-6261
- 6. WDID # 3 40MS04032
- 7. Have any areas been added to the MS4 due to annexation or other legal means? YES NO

- 8. Are you subject to the Design Standards contained in Attachment 4 of the General Permit? YES NO

If yes, report on the implementation of the Design Standards in section D.5 of this Annual Report Form.

Section B. Reporting Period: Permit Coverage was achieved on February 17, 2009

- February 1, 2009 to February 28, 2010
 - February 1, 2010 to February 28, 2011
 - February 1, 2011 to February 28, 2012
 - February 1, 2012 to February 28, 2013
 - February 1, 2013 to February 28, 2014
- (Annual Report is due by June 1st each year)*

Executive Summary

The City of Morro Bay's Stormwater Management Program (SWMP) was developed in compliance with enrollment procedures under the National Pollutant Discharge Elimination System (NPDES) General Permit for the discharge of stormwater from small Municipal Separate Storm Sewer Systems (MS4) General Permit. The SWMP is a comprehensive program to establish and implement Best Management Practices (BMPs) that reduce the discharge of stormwater pollutants into water bodies and to protect and improve water quality within the City of Morro Bay. The City's SWMP was approved by the Central Coast Regional Water Quality Control Board (CCRWQCB) on February 17, 2009 (WDID # 3 40MS04032) at which time the City was granted permit coverage under the NPDES Small MS4 General Permit Water Quality Order No. 2003-0005 DWQ. On May 25th 2010 the Central Coast Water Board staff approved the May 20, 2010 version of the SWMP pursuant to General Permit Section D.

The Annual report is organized by each of the six Minimum Control Measures (MCM). Each Best Management Practice (BMP) provides:

- A description of the BMP
- The measurable goal
- How the measurable goal was achieved, including a statement whether or not the Measurable goal was achieved
- The effectiveness assessment
- Any proposed changes and a short summary of the activities for next permit cycle.

In an attempt to simplify the Annual Report review by the Water Board the City has not included examples of checklists, Inspections etc. If Water Board staff would like a copy of any of these items they will be made available.

In addition to the General Permit requirements, the RWQCB issued specific requirements for the Post-Construction MCM to protect beneficial uses and promote healthy watersheds to meet the Maximum Extent Practicable (MEP) standard. These requirements were outlined in a letter dated February 15, 2008 and required that MS4s adopt BMPs for the development of hydromodification criteria, including:

- I. Maximize infiltration of clean storm water and minimize runoff volume and rate
- II. Protect riparian areas, wetlands, and other buffer zones
- III. Minimize pollutant loading
- IV. Provide long-term watershed protection

On October 20, 2009, the RWQCB notified MS4s in the Central Coast region of the opportunity to participate in a Joint Effort to cooperatively develop hydromodification control criteria with other MS4s. The Joint Effort provides an alternative to the requirements for developing interim and long-term hydromodification criteria independently as outlined in the February 15, 2008 letter from the RWQCB. The Joint Effort is a two phase approach that is expected to span a period of two years.

The City chose to participate in the Joint Effort to Develop Hydromodification Control Criteria on December 1, 2009, and amended the Post-Construction MCM to include the BMPs and Measurable Goals required for all Joint Effort participants for the first phase of the Joint Effort. The Revised SWMP, updated in May 2010, includes these required BMPs. Progress made on these BMPs is reported separately to the RWQCB, but the City has provided a brief report on these BMP's in this annual report.

Achievements in year 2:

In permit year two the City has continued to made great progress in developing a robust stormwater program. Some of the many highlights to the City's program include: the City has put a lot of energy into keeping up with the regional Joint Effort to develop a Hydromodification Management Plan and Low Impact Development. In doing so the City has participated in the Tier 3 subcommittee which developed Interim hydromodification control criteria to be applied to new or redevelopment. The City has been very proactive in "getting the word out" about LID. The City Co-hosted with SLO Green Build the Kickoff Meeting for the Rainwater Management Guide for Low Impact Development. The meeting was held at the Vet's Hall in Morro Bay and was a huge success approximately 200 people were in attendance. The City provided an update to our SWMP focusing on the LID and hydromodification requirements and the upcoming Illicit Discharge Ordinance.

Last permit year the City completed several projects to demonstrate LID/HM practices. The City conducted a Permeable Concrete demonstration project in the Library parking lot. Two parking spaces were replaced with permeable concrete to allow for parking lot drainage to infiltrate into the ground. The City also created a car wash area for the Police and Fire Departments to wash their vehicles. The Police department has a permeable concrete area and the fire department has a permeable paver area for washing vehicles. The Fire Department will now be able to see if Permeable pavers are durable enough to handle a Fire truck. This permit year starting in quarter 2 of the Joint effort the City began requiring LID practices with discretionary projects. The planning application process has been modified to have applicants include how much impervious area is proposed. The Environmental Information Form of the application was also changes to include how the applicant was addressing LID. The City has put forth great effort in helping the applicants with this requirement.

Lessons learned:

In just one year of the SWMP implementation the City has learned a few lessons. The major lesson learned is that some of the BMP proposed required a lot more time and effort than first thought at the writing of the SWMP. The City has experienced some staff reductions and shifting of workloads and this has caused some delays in achieving some of the BMP goals this permit year. The SWMP is being proposed to make some changes to certain BMP's so that the City can attain our goals set out in the SWMP. Ordinance revisions are another area where the City was over ambitious in the writing of the SWMP. The Illicit Discharge ordinance took much longer to draft and obtain approved by City Council than had proposed.

Another difficult area is in Effectiveness Measures. This area of the reporting is difficult to assess. The City has made the best attempt possible to strive for the highest level of effectiveness in BMP where it is possible. The City has reached level 4: Reducing Loads, in several BMP this permit year. The area where reaching a higher level than Level 1: Documenting Activities is in the Public Education section. The City will continue to explore options to reach a higher level. The Partners for Water Quality group is also attempting to "tackle" this challenge since this is a challenge for all Phase II permit holders.

Action Required: Information required in the 2010-2011 Annual Report

This section details the City of Morro Bay's responses to the Central Coast Water Board's letter dated, February 8, 2011 review of the City of Morro Bay's 2009-2010 Annual Report. Only the Actions required to be addressed in the Annual Report are shown below. The location where the revisions were made in the FY2010-2011 Annual Report has been included.

Action 1:

The City has completed our FY2010-2011 Annual Report and submitted it by the June 1st due date.

Action 2:

The City has worked diligently to meet this action in the FY2010-2011 annual report. The City has not included effectiveness assessment conclusions that actual data has been provided. The City would like to express the difficulty in meeting an effectiveness measure higher than level one for many BMP's. The City also revised the Section 5 in the June 2011 revised SWMP to reflect this Action. Section 5 has been modified to include: ***Only Effectiveness Assessment conclusions for which the City has actual data to support the conclusion will be included in the Annual Report.*** See Section 5 page 1 in the June 2011 Revised SWMP.

Action 5:

The City has revised the SWMP to include a different effectiveness measure; the new effectiveness measure will give a much better conclusion on the number of uses. See IL5A in the annual report and IL5A in the revised SWMP.

Action 6:

The City has included the number of times violations of 15.24.010 have occurred. See IL5B in the Annual Report.

Action 7:

The City has proposed a change to the effectiveness measure for this BMP. The City believes the new effectiveness measure provides better effectiveness assessment measure. See IL6B in the revised SWMP.

Action 8:

The City has reported the number of pamphlets distributed in the current annual report and will continue to do so in the following annual reports. See IL6 in the annual report for the number of pamphlets distributed.

Action 9:

The City has reported the counts for the number of sites inspected and how many of these sites were in compliance with the City's erosion and sediment control checklist on the initial inspection and how many of the sites were given correction notices. See CON3B in the annual report for the reported counts of inspections and compliant inspections.

MINIMUM CONTROL MEASURES

PUBLIC EDUCATION AND OUTREACH

PE1: Participate in San Luis Obispo Partners for Water Quality

BMP Description:

Use collaborative regional partnerships (“SLO County Partners for Water Quality”) to leverage shared resources to distribute stormwater pollution prevention public education and outreach information, materials, and activities throughout the City. Target audiences include, but are not limited to: General Public, Residential, Commercial Business, Industrial, Construction, Development, Municipal and Quasi-governmental agencies, as well as Tourists, and School Age Children. Topics to be covered are described in the BMPs below.

Measurable goal:

PE1A: Participate in SLO County Partners for Water Quality Meetings held each year for planning and evaluating the status and performance of the stormwater pollution prevention public education and outreach programs within the County and for sharing information about what is working or not working. If a staff member can not make the meeting staff will stay informed via emails.

PE1B: Review new materials gathered from other agencies and programs for inclusion in the City’s outreach and education program.

Measurable goal achievements:

PE1A: This measurable goal (MG) was achieved. The City has participated in partners meeting either present at the meeting or via emails for the permit cycle year. The partners meeting are no longer being held once a month. The meetings are held as necessary but at least quarterly. The partners group is a great way for the City to stay informed with what other Cities are doing to implement their SWMP. The Partners meetings contain MS4’s and NGO’s; therefore the MS4 can let the NGOs know how the MS4s are doing in implementing their SWMP’s. The Partners group is currently working on a collaborative approach to the Public Education and Outreach minimum control measure, also the group is discussing a cost share agreement to share some advertizing marketing costs. Other meeting topics included public education event planning, public education and outreach work plans and budgets, shared public education materials, regulatory requirement updates, training and education opportunities, low impact development and hydromodification control, sources of stormwater funding, among other topics.

PE1B: This measurable goal was achieved. The partner’s group has set up a Yahoo Group to share files to more easily between Cities. This has been a useful tool for Cities to share material. Various brochures are shared and CASQA manuals are also available. The Partners group also is still working towards collaborating together on all the Public Education and Outreach BMP’s to be more effective than working alone. The collaborative effort has been “put on hold” due to staff time being cut in all Cities. The Partners group is working on a cost share agreement and developing a television marketing program.

Effectiveness Assessment:

Level 1: Documenting activities: City staff attends Partners meetings.

Changes to BMP for next permit year / Summary of activities for next permit cycle:

No changes are proposed. City staff will plan to attend meeting next permit year.

PE5: Stormwater information/reporting line**BMP Description:**

Provide a Stormwater Pollution Prevention Telephone Information Line /Reporting Line for the public to get more information and report stormwater pollution problems.

Measurable goal:

PE6A: Maintain the 788-FISH SLO County Partners for Water Quality Stormwater Information Line to direct users to their local stormwater pollution prevention program.

PE6B: Promote the Public Services Main Line Citywide for Pollution Reporting Hotline in printed materials and on the City Stormwater Pollution Prevention Website beginning in Year 1.

PE6C: Record the number of stormwater concerns and/or complaints and document follow up actions and problem resolution. 100% of the stormwater reports will be responded to.

PE6D: Measure and record hotline follow-up response times.

Measurable goal achievements:

PE6A: MG was achieved. The city has maintained the 788-FISH County Partners for Water Quality Stormwater Information Line.

PE6B: MG was achieved. The Public Services Main Line was included in the residential, construction and the restaurant brochures as the pollution reporting hotline and on the City's Stormwater Pollution Prevention Website also has the hotline number posted.

PE6C: MG was achieved. The Stormwater illicit discharge generated from the hotline are summarized in the table below.

PE6D: MG was achieved. Also see table below for follow-up response times.

Effectiveness Assessment:

Level 1 - Documenting Activities: The reporting/hotline was advertised on city provided brochures (Residential, Construction etc) and on the stormwater website (www.morro-bay.ca.us/stormwater).

Level 2 – Raising Awareness: The education conducted with illicit discharge enforcement actions helps to gain awareness and knowledge regarding illicit discharges and if the occurrence is not repeated then it is believed to have raised the awareness. None of these offenders were repeat offenders this permit cycle. The next permit years will help determine if this awareness results in a changed behavior.

Changes to BMP for next permit year / Summary of activities for next permit cycle:

No changes are proposed for the next permit year, and the city plans to keep promoting the hotline/reporting phone number in the same manner.

**Stormwater Reporting Hotline follow-up actions for permit
Year 2 Feb. 2010 - Feb. 2011**

DATE	STORMWATER ISSUES/CONCERN	RESPONSE AND FOLLOW UP ACTIONS	SWMP SECTION
3/4/2010	washing paint buckets in street (388 Orton)	Upon visiting the site, it was discovered that the resident was washing out buckets of car wash soap in his driveway. The sewer division vacuumed up the material for proper disposal.	IDDE
9/28/2010	washing water softer in street (454 Fresno)	Upon visiting the site, there was no residue in the vicinity. The citizen was called back to verify the location and it was reported this event happened the day before. The Citizen saw a employee of Pure Safe Water washing out the salt container of the softener	IDDE
10/1/2010	Fuel Dock, 2 gals spilt	Approximately 2 gallons of diesel fuel was spilt while fueling; approximately only 1-2 cups reached the water, absorbent pads were used to as much as possible from the water.	IDDE

PE6: Pet Waste Management

BMP Description:

PE6C: Distribute pet waste management brochures at Pet Stores and Veterinarian Offices within the City.

Measurable goal:

PE6C: Number of Pet waste management brochures distributed.

PE6D: Post pet waste management public education and outreach information on the City website.

Measurable goal achievements:

PE6C: MG was achieved. Pet waste management posters were distributed for public viewing at all Veterinarian Offices and Pet Stores in Morro Bay: Lemos Ranch, Morro Bay Vets, Bowsen Boutique, and Coast Vet. Posters were distributed instead of brochures because the City believes the poster is more eye catching than a brochure would be sitting in a display. Also in trying to do our part to producing less waste, the posters can be seen by many visitors and therefore reduces the amount of paper brochures would require.

The City also went above and beyond this requirement by speaking to the realtor association about the “Don’t flush the mush” program, along with other water quality topics (i.e. LID, operation medicine cabinet, FOG program). A water bill insert post card was also sent (approximately 5,500) to all residents in Morro Bay (see below) regarding the “Don’t Flush the Mush” program. Also the residential brochure, given to at all the resident in Morro Bay last permit year, addressed the topic of pet waste management.

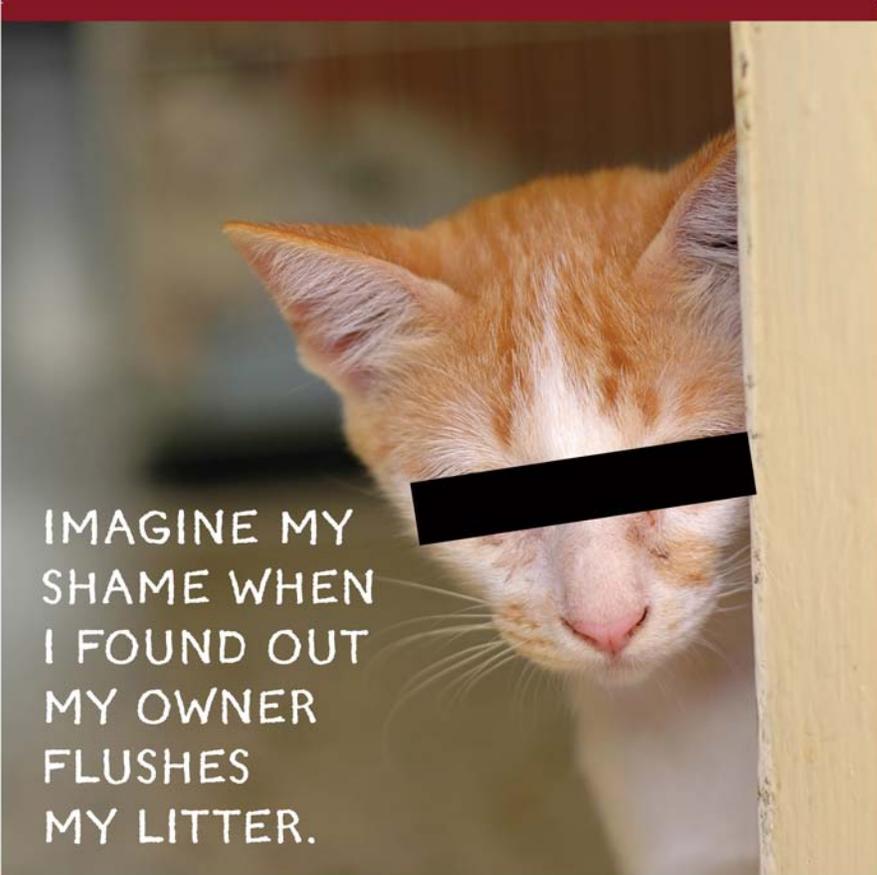
PE6D: The Residential brochure has been posted on the City website and covers pet wastes; the “don’t flush the mush” poster was added at end of permit year two.

Effectiveness Assessment:

Level 1 - Documenting Activities: Posters were distributed at all Veterinarian Offices and Pet Stores in town. Website hits were also tabulated.

Changes to BMP for next permit year / Summary of activities for next permit cycle:

No changes are proposed. The City proposes to continue distributing Posters to the Veterinarian offices and pet stores next permit year along with providing mutt mitts at stations throughout the City.



IMAGINE MY
SHAME WHEN
I FOUND OUT
MY OWNER
FLUSHES
MY LITTER.

Even flushable kitty litter is a strain on drains and local sea life.
The City of Morro Bay and the Cayucos Sanitary District ask you:
Please dispose of all cat litter in trash receptacles only.

Don't flush the mush.

A message from   **City of
Morro Bay**

PE7: PSA on Channel 20**BMP Description:**

PE7: Provide PSAs on public access channel 20 educating residents about stormwater pollution prevention.

Measurable goal:

PE7: Provide at least one PSA per year on public access channel 20 educating residents about stormwater pollution prevention.

Measurable goal achievements:

PE7: MG was achieved. The DVD "Slow the Flow" was the feature stormwater show this permit year. Slow the Flow is a DVD distributed by the Water Boards and educates residents on how to incorporate LID into their landscape. The DVD was shown between Public Hearing meetings throughout the permit year. A video of the "Make a Difference Day" where approximately 50 trees were planted was also on channel 20, along with different event the City participated in i.e. coastal cleanup day, and the rainwater harvesting guide kickoff meeting.

Effectiveness Assessment:

Level 1 - Documenting Activities: Several PSA's were provided on Channel 20 including one video educating Low Impact Development Techniques for residential homes.

Changes to BMP for next permit year / Summary of activities for next permit cycle:

No changes are proposed. The City will continue to provide education PSAs on Channel 20.

PE8: City's Stormwater Webpage**BMP Description:**

Distribute stormwater pollution prevention educational materials using the City's Stormwater Pollution Prevention Website. Audiences and topics may include, but would not be limited to: General Public; Residential BMPs; Commercial Business BMPs; Industrial BMPs; Tourists, School Age Children and Educators.

Measurable goal:

PE8A: Maintain and update the City Stormwater Pollution Prevention website (www.morro-bay.ca.us/stormwater) at least once per quarter.

PE8B: Record the number of website hits to measure utilization.

Measurable goal achievements:

PE8A: MG was achieved. The City's Stormwater Pollution Prevention website has been updated at least once per quarter.

PE8B: MG was achieved. See table below for the total number of hits the City's Stormwater web page received. Also see the number of hits for specific items i.e. number of hits for the erosion and sediment control manual.

Effectiveness Assessment:

Level 1 - Documenting Activities: The City created a stormwater webpage and has updated and maintained the website at least quarterly throughout the permit cycle.

Changes to BMP for next permit year / Summary of activities for next permit cycle:

This BMP, PE8 needs to be included in order to have one BMP to report the website hits, and therefore the Community Based Social Marketing BMP will become PE9.

City of Morro Bay Stormwater Webpage Date Range: 2/01/2010 - 01/31/2011	
Files	Hits
appendix h clean marina program	550
section 4 minimum control measures	548
erosion and sediment control manual	428
annual report year 1	386
section 1 intro	385
residential brochure	382
section 2_ water quality assessment	322
restaurant BMP's brochure	296
auto service BMP's brochure	293
auto service BMP's Spanish brochure	251
appendix c city maps	246
construction site BMP brochure	231
restaurant BMP's Spanish brochure	222
appendix e storm drain atlas	221
appendix f MS4 general permit	221
section 3 requirements	219
appendix d watershed maps	217
section 5 reporting	207
appendix g hydromodification requirements	183
appendix a RWQCB letter Feb. 15	150
appendix b city org chart	115
coastal cleanup day	86
Total Valid Hits	6,159

City of Morro Bay Stormwater Webpage Date Range: 2/01/2010 - 01/31/2011	
Downloads	Hits
erosion and sediment control manual	335
auto service BMP's brochure	288
restaurant BMP's brochure	282
section 1 introduction	274
residential brochure	258
auto service BMP's Spanish brochure	251
section 2 water quality assessment	235
restaurant BMPs Spanish brochure	218
section 3 requirements	192
section 5 reporting	191
appendix e storm drain atlas	182
appendix g hydromodification requirements	179
appendix d watershed maps	169
construction site BMP brochure	163
appendix a RWQCB letter Feb. 15	142
appendix c city maps	130
appendix b city org chart	109
section 4 minimum control measures	108
appendix f MS4 general permit	103
appendix h clean marina program	99
coastal cleanup day poster	90
annual report year 1	69
Total Valid Hits	4,067

PUBLIC PARTICIPATION AND INVOLVEMENT

PP1: Public notice requirements

BMP Description:

Comply with public notice requirements for stormwater public participation and involvement activities.

Measurable goal:

PP1A: Determine public notice requirements for each public participation and involvement activity and ensure compliance.

PP1B: Maintain records for public participation and involvement events.

Measurable goal achievements:

PP1A This MG was achieved. Public notice requirements typically do not apply to these activities. Public meetings are noticed according to their requirements.

PP1B: This MG was achieved. Records are maintained according to the MS4 General Permit.

Effectiveness Assessment:

Level 1 - Documenting Activities: Public meetings are noticed according to their requirements.

Records are maintained according to the MS4 General Permit.

Changes to BMP for next year/ Summary of activities for next year:

No changes are proposed for the next permit cycle and the City proposes to continue following the public notice requirements.

PP2: Stakeholder Meeting

BMP Description:

Hold Public Involvement Stakeholders Meeting

Measurable goal:

PP2A: Maintain a master stormwater stakeholder and interested parties list.

PP2B: Organize and conduct at least one stormwater stakeholder meeting per year to review the status and performance of the SWMP.

PP2C: Post the SWMP and stormwater annual report on the City's website for public review.

Measurable goal achievements:

PP2A: This MG was achieved. A master stakeholders/interested parties list has been developed and is available upon request. 31 Stakeholders are currently on our list.

PP2B: This MG was achieved. A stormwater stakeholders meeting was held with the Rainwater Management Guide Kick Off meeting on January 14, 2011. An update to the SWMP and the upcoming Illicit Discharge and Stormwater Management Control Ordinance was presented at the meeting and the meeting was televised on local access channel 20. Also at all Public Works Advisory Board (PWAB) meetings, which are held once a month, the SWMP was discussed in the Directors Report.

PP2C: This MG will be achieved. The SWMP annual report for year is posted on the website and year two will be posted as soon as it is completed, it can be viewed at the City website:

www.morro-bay.ca.us/stormwater

Effectiveness Assessment:

Level 1 - Documenting Activities: Stakeholders list was created, SWMP was posted on the website and a meeting regarding the SWMP status was conducted.

Changes to BMP for next year/ Summary of activities for next year:

No changes are proposed for the next permit cycle and the City proposes to continue to hold at least one stakeholder meeting a year.

PP3: Promote and Participate in Coastal Cleanup / Creek Day

BMP Description:

Promote public participation in Coastal Cleanup Day and Creek Cleanups by collaborating with the SLO County Partners for water quality to advertise the events and assist with provision of incentives to participants.

Measurable goal:

PP3A: Promote and support at least one annual coast and/or creek cleanup opportunities within the SWMP coverage area. Record the amount and types of trash and debris removed and the number of participants.

Measurable goal achievements:

PP3A: This MG was achieved. The City participated in Coastal Cleanup and provided funding this permit year. An announcement about the event and a flyer were available on the City's stormwater website and channel 20 see below. It is difficult for the City to have a site for creek clean up, because the lands surrounding our creeks are privately owned. The City has to get permission from all the property owners along the creek. Therefore the City participated in Coastal Cleanup and promoted Creek Day for the county. The city helped promote creek day by handing out flyers and posting posters at our city offices.

Coastal cleanup was a success. For the San Luis Obispo County area there were 1,338 volunteers and collected a total of 3,129 pounds of trash and 220 pounds of recyclables. Morro Bay staff participated at the North Morro Strand Beach site. We had 45 volunteers and collected 63 pounds of trash and 37 pounds of recyclables. At this site we not only cleaned the beach but we expanded our cleaning efforts to a drainage channel behind the high school. This property belongs to Morro Bay high school and runs between the high school and the Cloisters neighborhood.

This year's theme was BYOB; bring your own bag, over 50% of the volunteers brought their own bag.

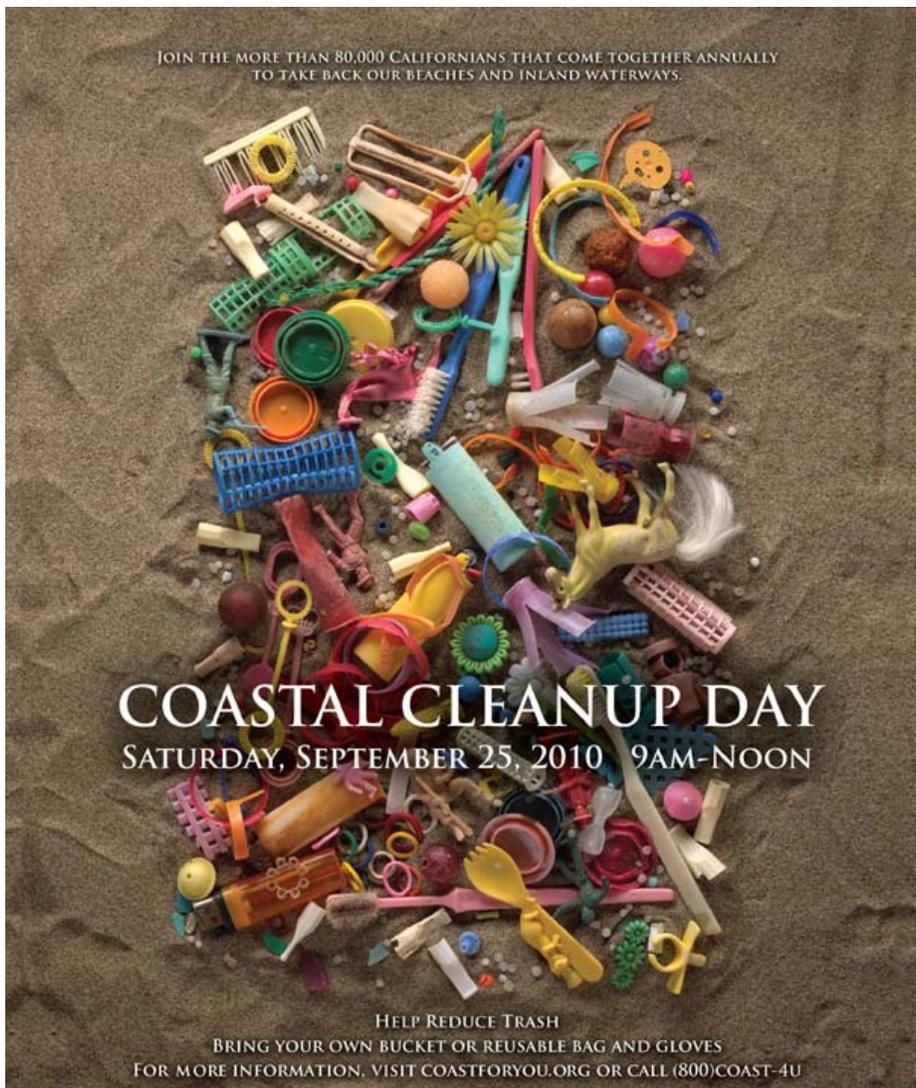
Effectiveness Assessment:

Level 1: Documenting activities: Coastal Cleanup brochures were distributed through out the city, at business, teen center, parks, and city offices. Coastal cleanup also promoted the event on several radio stations and television stations.

Level 4: Reducing Loads from Sources: In San Luis Obispo County 3,129 pounds of marine debris, and 220 pounds of recyclables were removed from reaching our waterways. These numbers are lower than last year results, which is a good, there seems to be a trend of less trash on our beaches!

Changes to BMP for next year/ Summary of activities for next year:

No changes are proposed for the next permit cycle; the City will continue to promote and participate in Coastal Clean up and promote Creek Day which is going to be on the same day this next year.



PP4: Storm Drain Marking

BMP Description:

Mark the City's Storm drains with markers to educate citizens that the storm drains drain to the ocean and not a treatment plant.

Measurable goal:

PP4A: Storm drain marking will be required on all new development projects with storm drains inlets.

PP4B: Maintain storm drain markings on an ongoing basis. Twenty percent of storm drain inlets will be checked annually to ensure they are still marked with a no dump message, and staff will respond to public comments regarding missing storm drain markers.

Measurable goal achievements:

PP4A: This MG was achieved. No new development has occurred to require storm drain markers. If new development occurs and is required to install a storm drain system the developer will be required to install a storm drain marker.

PP4B: This MG was achieved. Twenty percent of the storm drains were checked this year and three storm drain markers were added.

Effectiveness Assessment:

Level 1: Documenting activities: Storm drains were check with the cleaning of the storm drains and markers were replaces when needed.

Changes to BMP for next year/ Summary of activities for next year:

No Changes are proposed; this BMP is not scheduled for the future therefore there is no summary for next year’s activities.



These storm drain markers were added at all storm drain inlet within the City limits.

PP5: Watershed Stewardship Programs

BMP Description:

Promote and support Watershed Stewardship Programs including, but not limited to: volunteer water quality monitoring, watershed planning, community reforestation, storm drain marking, community cleanups, and other environmental restoration activities.

Measurable goal:

PP5A: Promote and support the National Estuary Program’s (NEP) Urban Watch and First Flush Monitoring Programs in the Chorro Watershed.

PP5B: Partner with Morro Bay Beautiful to host at least one tree-planting day per year.

Measurable goal achievements:

PP5A: This MG was achieved. The City receives the NEP’s Volunteer Bacteria Monitoring Program newsletters. The City is currently working with the NEP to coordinate monitoring for Pathogens in Morro Bay. The NEP’s First Flush is no longer being conducted due to budget cuts.

PP5B: This MG was achieved. The City partnered with Morro bay Beautiful, Morro Bay Tree Committee, Local Boy Scout troop, Davey, and Gardens by Gabriel and various other groups planted approximately 50 trees this permit year around Morro Bay. A 30 minute video was made of the event and was played on local Channel 20. View the video at <http://vimeo.com/18923504>

Effectiveness Assessment:

Level 1: Documenting activities: Staff participated in the “Make a Difference Day” where approximately 50 trees were planted.

Changes to BMP for next year/ Summary of activities for next year

The City proposes to change PP5A, MBNEP is no longer conducting the first flush monitoring due to budget cuts, also the Urban Watch program is possibly only being conducted for one more season. The City proposes to change all of PP5 into one BMP and that the City will promote and

help support watershed programs. These programs may include volunteer water quality monitoring, watershed planning, community reforestation, storm drain marking, community cleanups, and other environmental activities. Morro Bay community has various volunteer groups which aim to help the environment in many different ways.

ILLICIT DISCHARGE DETECTION AND ELIMINATION

IL1: Illicit discharge detection and elimination ordinance

BMP Description:

Adopt an ordinance prohibiting illicit discharges and including enforcement provisions. The ordinance will include a system of enforcement and penalties. Model ordinances will be used to help draft this ordinance.

The 17 categories of non-stormwater discharges or flows (i.e., authorized non-stormwater discharges) will be addressed only where they are identified as significant contributors of pollutants to the Small MS4. If any of the 17 non-stormwater discharges are deemed significantly contributors to stormwater pollution, BMPs will be added to remediate these individual negative impacts.

Measurable goal:

ILA: Ordinance to be drafted and adopted by Year 2. The ordinance will include progressive penalties and enforcement provisions. The ordinance will go through the City's public review process including posting of a legal ad 10 days prior to the City Council meeting and available for viewing at the Library.

IL1B: Completed in year 1 and included in ordinance.

IL1C: Establish a system of enforcement and penalties and train inspectors prior to ordinance adoption.

Measurable goal achievements:

ILA: This MG is ongoing. The City began drafting an Illicit Discharge and Stormwater Control Ordinance during permit year one and continued in permit year two. Due to many issues the Illicit Discharge ordinance was not completed in year two. The Ordinance did go through the City's process for public review. The Draft ordinance went to Planning Commission as a public hearing item and no members of the public spoke on the item. Then the ordinance went to City Council for first reading and one member spoke on the item. This member was not in favor of adopting the ordinance and urged the Council to not approve this ordinance. The Ordinance was approved by Council with a 3-2 vote. The Ordinance went back for second reading and adoption on May 24, 2011 and City Council approved the Ordinance. Therefore the Ordinance goes into effect 30 days after adoption. The Ordinance will be available on the City website once it is in effect.

IL1C: This MG was achieved. The ordinance has a system of enforcement and penalties. The enforcement procedures the city follows is set forth in chapter 1.03: Administrative Citation Program. The municipal code is available online at the City's website, www.morro-bay.ca.us. Specific staff has been trained by the City police department on how to properly use the Administrative Citation Program procedures. The inspectors shall be trained prior to adoption on the ordinance. Inspectors training has been addressed in the annual Municipal training MO1.

Effectiveness Assessment:

IL1A,C: Level 1: Documenting activities: The ordinance was drafted and brought to Council. The ordinance will be available on the City website along with the entire Morro Bay Municipal Code

Changes to BMP for next year/ Summary of activities for next year:

No changes are proposed; the City proposes to begin enforcing the ordinance in the next permit year.

IL2: GIS map the storm drain system**BMP Description:**

Use GIS to map the storm drain conveyance system showing the location of storm drain features all outfalls and the names and locations of all waters of the US that receive discharges from those outfalls. Also the storm drain filters will be mapped along with other BMPs implemented.

Measurable goal:

IL2A: Start storm drain map and finish by year 2.

Measurable goal achievements:

IL2A: This MG was achieved. Storm Drain map completed. The City storm drains have been GIS mapped this permit year. The entire city was completed ahead of schedule, before the end of permit year 2.

Effectiveness Assessment:

IL2A: Level 1: Documenting activities: Storm drain map completed, ahead of schedule.

Changes to BMP for next year/ Summary of activities for next year:

The RWQB's required modification to the BMP has been included as BMP IL2C; this BMP will be completed in year 3. Updates include differentiating between the storm drain system inlet and outfalls, identifying the names and locations of all waters of the U.S., differentiate between blue and green lines, and identify where all portions of the storm sewer system discharge and identify the catchment for each storm sewer inlet. See revised SWMP for revised IL2C.

IL3: Illicit connections/discharge inspections**BMP Description:**

Implement procedures for illicit connections/discharge inspections and dry weather screening for the storm drain system including restaurant business, auto service facilities, mobile cleaners and industrial facilities. These procedures will apply to anyone discharging into the City storm drain system. The procedures will ensure that any illicit connection or discharge detected will be detected and eliminated.

Measurable goal:**Restaurants**

IL3A: Completed year 1

IL3B: Conduct illicit discharge and detection inspections for restaurants with the fats oils and grease (FOG) program. 80% of restaurants will be inspected annually through the FOG inspection program. FOG inspectors will report all stormwater violations to the Public Services Department for follow up. For all violations the City must follow up on all reports, and include response actions and response times in the Annual Report.

IL3C: Perform illicit discharge and detection inspections for industrial facilities. 50% of industrial facilities will be inspected every other year through an inspection program. Inspectors will report all stormwater violations to the Public Services, Engineering Department for follow up. For all violations the City must follow up on all reports, and include response actions and response times in the Annual Report.

IL3D: Track and trend violations to determine additional preventive and corrective actions that may be needed. Report these results every other year.

Measurable goal achievements:

IL3B,C,D: The Illicit Discharge ordinance was not completed in permit year 2 therefore the City did not focus our efforts on this BMP. It would be very difficult, if not impossible, for us to enforce without the ordinance and due to staff levels and workloads, this BMP was not achieved. Staff

has focused a lot of our efforts on the Joint Effort and on the getting the Illicit Discharge Ordinance adopted, among other areas of the SWMP. The City proposed to change this BMP since staff workloads are not predicted to get lighter.

Effectiveness Assessment:

N/A

Changes to BMP for next year/ Summary of activities for next year:

The City plans to modify this BMP, it is not possible with the current staff and workloads to accomplish this BMP. The City proposes to reduce the amount and frequency (from 80% of restaurants to 20% etc.) of the inspections. See the revised June 2011 SWMP section 4 IL3B and C for more details on the proposed revisions.

IL4: Pet Waste Ordinance

BMP Description:

Adopt and enforce a Pet Waste Management Ordinance to be incorporated within the illicit discharge ordinance. See IL1

Measurable goal:

IL4A: Adopt and enforce a pet waste ordinance according to schedule with the illicit discharge ordinance see IL1. The ordinance adoption process includes public review see IL1.

Measurable goal achievements:

IL4A: The pet waste is being implemented with the illicit discharge ordinance IL1, which was not adopted by the end of permit year two. The City will expand on this pet waste ordinance in the illicit discharge ordinance. The City does currently have an ordinance regarding dog wastes. Section 7.08.25 of the Morro Bay Municipal Code, deals with Dog defecation removal. The current code section does require the removal of dog defecation from any public or private property of another. Also the removal of dog feces shall be removed from private property no less than twice a week. The City also currently has 29 mutt mitt dispensers to encourage pet owners to pick up after their pets.

Effectiveness Assessment:

N/A.

Changes to BMP for next year/ Summary of activities for next year:

No changes are proposed; the City proposes to begin enforcing the ordinance next permit year.

IL5: Pump Station Maintenance

BMP Description:

Maintain the pump-out stations free of charge at various locations throughout the bay. Maintain the signage of pump out locations and pamphlet handouts of the pump-out locations. See the Clean Marina Program in Appendix H.

Measurable goal:

IL5A: Maintain the Harbor departments pump-out stations free of charge, along with signage and pamphlets delineating where the pump out station are located.

IL5B: Enforce existing provisions in Municipal Code chapter 15.24.010, which prohibits discharge of waste.

Measurable goal achievements:

IL5A: This MG was achieved. The Harbor department is maintaining two pump-out stations, at Tidelands Park and South T pier, along with signage delineating the pump out stations. There are two more pump-out stations at the State Park Marina and the Yacht Club, but these stations are not City owned and maintained. It was discovered that the pump-out station at Tidelands park does have a counter. The counter reads 574.2 hours from June of 1999 to current (as of writing of the annual report). Estimating 3-5 minutes per pump-out and over 10 years of use, this station

has been used approximately 689 - 1,148.4 times a year. The City does plan on tracking to counter hours from now on to get a better estimate of the amount of times the pump-out station is used. Unfortunately the pump-out at the South T-Pier does not have counter, but the Tidelands pump-out station is used 99% of the time by boaters. No maintenance was required for the South T Pier pump-out.

The Harbor department informs the boaters of the sanitation facility locations with the Harbor General Information Brochure (see below), this brochure is given to new boaters visiting the Harbor. The brochure is also available in the City website and received approximately 399 hits this permit year.

IL5B: This MG was achieved. The harbor department continues to enforce Municipal Code chapter 15.24.010, prohibiting the discharge of waste in the bay. There were 21 reports of pollution and 10 of the 21 were believed to be from the same boat. The Harbor Patrol and the Coast Guard did extensive investigation but the vessel could not be located. Below is a summary of the 21 potential violation reports.

Effectiveness Assessment:

Level 1: Documenting activities: The pump-out stations were maintained in working order this permit year also boaters were informed of the pump-out locations.

Level 4: Reducing Loads from source: Since the pump-out stations were used approximately 689 - 1,148.4 times a year the City can conclude that this waste was not dumped into the Bay and therefore the pump-outs have reduced loads into Morro Bay.

Changes to BMP for next year/ Summary of activities for next year:

The City proposes to modify this BMP to include that the counter hours will be included for tidelands park pump-out station. Since this pump-out is used 99% of the time, if there is any maintenance on the South T Pier pump-out it will be reported. See revised SWMP for more detail.

Harbor Department tracking of potential 15.24.010 violations

<u>DATE</u>	<u>NATURE</u>	<u>ACTION</u>
2/18/2010	oil sheen, North T pier area	Unable to detect source, suspect fishing vessel Tuscan, dissipated
3/5/2010	oil sheen, AP/MBYC area	Unable to detect source, warn and advise Associated Pacific LCM crew as possible source, dissipated
3/28/2010	oil sheen, Virg's area	cooking oil source from Harbor Hut grease trap, owner warn and advise
4/17/2010	littering into bay, Tidelands	plastic bag littering, violator warn and advise
5/26/2010	*oil sheen, North T pier area	Unable to detect source, dissipated
7/8/2010	*fuel sheen, North T pier area	Unable to detect source, dissipated
10/1/2010	fuel spill, fuel dock	fishing vessel Princess spilled appx. 1-2 cups fuel while fueling, most recovered by owner/operator
10/3/2010	fuel leak, AIS dredge	contained/cleaned by crew, warn and advise
10/14/2010	*oil sheen, Tidelands area	Unable to detect source, dissipated
10/17/2010	*oil sheen, A2 mooring area	Unable to detect source, dissipated
10/19/2010	hazmat stored on dock, Outrigger	warn and advise
10/22/2010	*oil sheen, L/R-A2	Unable to detect source, dissipated
11/5/2010	fuel sheen, L/R S slips	suspect fishing vessel Janus, warn and advise
11/6/2010	*fuel sheen, Coastal BW slips	Unable to detect source, samples taken by Coast Guard, most recovered by Harbor Patrol
11/9/2010	*fuel sheen, A2 area	Unable to detect source, dissipated
11/27/2010	*fuel sheen, Bay Front Marina area	Unable to detect source, samples taken by Coast Guard, some recovered by Harbor Patrol
12/1/2010	*fuel sheen, Shell fuel dock area	Unable to detect source, dissipated
12/7/2010	*fuel sheen, Bay Front Marina area	Unable to detect source, dissipated
12/31/2010	fuel can leak, L/R slips	mitigated, recovered by Harbor Patrol
1/11/2011	fuel sheen, Associated Pacific area	Unable to detect source, dissipated
1/29/2011	report of past human waste dumping	suspect fishing vessel Darlene, advise reporting party to report when occurring next time

* all of these are believed to be from the same vessel but the vessel could not be located by Harbor Patrol or Coast Guard

Harbor Department General Information Brochure:

MARINE SANITATION INFORMATION

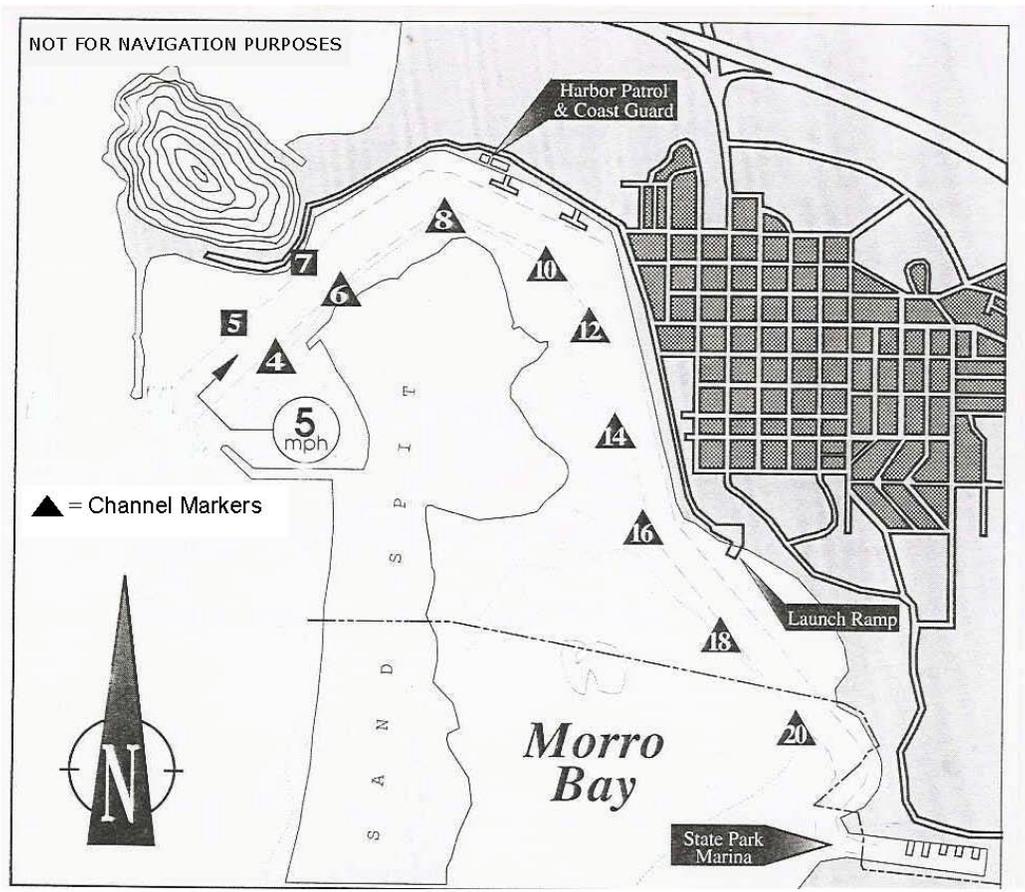
FREE PUBLIC PUMP-OUT STATIONS:

Tidelands Park (E of #16),
 South T-Pier (E of #10)
 Morro Bay Marina (E of #12)
 Morro Bay Yacht Club (E of #14)

NO DISCHARGE IS ALLOWED IN MORRO BAY.

PUBLIC SHOWER FACILITIES: Public showers are available at the North T-Pier restroom (E of #8) and at Tidelands Park restroom (E of #16). These showers are coin-operated and take quarters.

Free Waste Oil Disposal: The Harbor Department has facilities for disposal of used oil, oil filters, diapers and oily bilge water. Contact us via VHF radio Channel 12 or at 772-6254. For large amounts of contaminated fuel or bilge oil, contact Evergreen Environmental at (800) 972-5284. **WASTE OIL IS PROHIBITED FROM PUBLIC DUMPSTERS. DO NOT DUMP WASTE OIL OR BILGE OIL IN THE BAY; THE COAST GUARD WILL FINE ANY VESSEL DISCHARGING OIL IN THE BAY.**



IL6: Oil Disposal Waste Maintenance

BMP Description:

Maintain the waste oil disposal for used oil, oil filters, oily diapers, and oily bilge water.

Measurable goal:

IL6A: Maintain the Harbor departments waste oil disposal for used oil, oil filters, oily diapers (pads), and oily bilge water.

IL6B: Maintain the pamphlet with information and VHF radio or telephone number for waste oil disposal information.

Measurable goal achievements:

IL6A: This MG was achieved. The Harbor department maintains the oil disposal for used oil, oil filters, oily diapers, and oily bilge water.

This permit year 720 gallons of used engine oil, *2500 pounds of used oil absorbent pads, and 3 drums of crushed used oil filters (approximately 500 filter) were recycled. Also approximately 60 gallons of bilge pump water was processed through the oil/water separator at the South T-Pier.

*If you discount the tare weight of the pads it equals approximately 330 gallons of oil. This oil is from the bottom of the vessels bilges.

IL6B: This MG was achieved. The harbor department maintains a pamphlet with information and VHF radio and telephone number for waste oil disposal information (see pamphlet above). Also the Harbors spring newsletter

Effectiveness Assessment:

Level 1: Documenting activities: The oil waste disposal area has been available for boaters all permit year.

Level 4: Reducing Loads from Sources: The amount of engine oil, oil filters and absorbent pads etc have been eliminated from potentially polluting the Bay, therefore this BMP reduced loads to Morro Bay.

Changes to BMP for next year/ Summary of activities for next year:

The City proposes to eliminate the reporting of the list of names that use the waste disposal. This list is no longer kept and not necessary for determining the effectiveness assessment. The amount of material collected provided an effectiveness measure.

CONSTRUCTION SITE RUNOFF CONTROL

CON1: Revise Municipal Code to update erosion and sediment control requirements

BMP Description:

Revise City Municipal Code Chapter 14.48 to update erosion and sediment control requirements and enforcement provisions for construction activities that are required to comply with the General Permit for discharge of stormwater associated with Construction Activities (Construction General Permit, CGP). Also revise chapter 14.48 to include construction activities that are not required to comply with the Construction General Permit, construction activities which disturb less than one acre of land.

Measurable goal:

CON1A: Completed year 1

CON1B: Enforce new regulations on construction sites subject to the Construction General Permit.

CON1C: Enforce new municipal code regulations on construction sites less than one acre of land.

Measurable goal achievements:

CON1B: This MG was achieved. The State Water Boards website showed one active construction general permit (CGP) during this permit year, Table CON1B shows Estero Bay United Methodist Church has terminated their coverage and Seashell Workforce housing is active. This site is currently not active. There are two other permits listed under Morro Bay but neither project is located in Morro Bay. Chevron Environmental Management Co. is located in the county of San Luis Obispo and the permit for Dynegy is located in San Luis Obispo.

CON1C: This MG was achieved. For the permit year there were 20 building permits with ground disturbance active. See CON3B for inspection results.

Effectiveness Measure:

CON1B: Number of construction sites subject to the Construction General Permit, compared to the number inspected.

Level 1: Documenting activities: There is currently only one project subject to the CGP, this site has not current began; therefore no ground disturbance has occurred. Once ground disturbance occurs inspections will commence.

CON1B: Number of building permits for construction site less than one acre (with ground disturbance) and number inspected. Compare how many are compliant from year to year.

Level 1: Documenting activities: 20 of construction sites requiring erosion and sediment controls were active at the time of inspections and 20 inspections conducted, all 20 sites were compliant.

Changes to BMP for next permit year / Summary of activities for next permit cycle:

Proposed changes are only minor typo changes and clarifying those sites less than an acre with ground disturbance will be inspected (CON1B). Therefore a building permit less than an acre and only doing interior remodeling would not need to be inspected.

Table CON1B – Construction sites subject to the Construction General Permit

WDID	Application Type	Status	Status Date	Owner/Operator Name & Address	Site/Facility Name & Address
				Dynegy Morro Bay LLC	Morro Bay Power Plant Tank Farm Demolition Project
3 40C358172	Construction	Active	10/26/2010	1290 Embarcadero Morro Bay California 93442	1290 Embarcadero Rd Morro Bay California 93442
				Chevron Environmental Management Co	Estero Marine Terminal Source Removal Project
3 40C355918	Construction	Active	8/3/2009	4000 Hwy 1 Morro Bay California 93442	4000 Hwy 1 Morro Bay California 93442
				Seashell Communities Asset Corp	Seashell Workforce Housing
3 40C355404	Construction	Active	8/10/2010	4100 MacArthur Blvd Ste 305 Newport Beach California 92661	1405 Teresa Dr Morro Bay California 93442
				Estero Bay United Methodist Church	Estero Bay United Methodist Church
3 40C342003	Construction	Terminated	9/2/2010	PO Box 118 Morro Bay California 93443	3000 Hemlock Morro Bay California 93442

CON2: Plan Review for erosion and sediment controls

BMP Description:

Conduct construction site building and grading plan reviews.

Measurable goal:

CON2A: Review grading and building plans to verify that erosion and sedimentation control BMPs are included and are adequate before issuing a building permit.

CON2B: Ensure all projects required to be covered under the Construction General Permit displays the State Water resources Control Board Waste Discharge Identification (WDID) number of the plans.

Measurable goal achievements:

CON2A: This MG was achieved. All building and grading plans with soil disturbance are required to show erosion and sedimentation controls measures. The plans are checked to verify the BMPs are shown on the plans and are adequate for the site. If BMPs are not included on the plans, the plans are returned with corrections and the City's erosion and sediment control manual is given to provide guidance.

CON2B: This MG was achieved. All projects which are over an acre of land or part of a larger common plan of development are required to obtain a permit from the State Board and provide this evidence by supplying the WDID number on the plans. Plans are checked to verify that the number is present and staff checks the State Board website to ensure the permit is valid. A SWPPP is required to be submitted and verified with the plans in accordance to the CGP requirements.

Effectiveness Assessment:

CON2A: Erosion control requirements added to building and grading plan review checklist.

Track how many building plans have erosion and sediment controls

Level 1: Documenting activities: All building plans which require erosion and sediment control must show the control on the plans prior to issuance of the building permit, to ensure all building plans fulfill this requirement. The city has only received one building plan which is over an acre this year. This site Seashell workforce housing did obtain a WDID number from the state board and submitted a SWPPP with the WDID number referenced. The CGP is no longer valid on the State Water Board website, because the project is not moving forward. The project is still in the plan check process and if it does move forward the City will require the CGP to be reinstated.

Changes to BMP for next permit year / Summary of activities for next permit cycle:

The City proposes to change the way we track how many building plans have erosion and sediment controls (CON2A) because every permit that is required to have controls and will have control prior to permit issuance. The city doesn't have the staff to track in this manner, and since all permits will have control once issued this seems unnecessary. The City will continue to track how many have a CGP are issues and inspected. See revised June 2011 SWMP CON2A for new wording.

CON3: Construction Site Inspections

BMP Description:

Conduct construction site inspections and enforce construction site runoff control requirements.

Measurable goal:

CON3A: Inspect construction site stormwater BMPs to ensure that they are being implemented and are properly maintained. Highest priority will go to site over an acre, steep slopes (over 15%) and sites with detailed erosion control plans. Create an erosion and sediment checklist for on-site inspections.

CON3B: The City will track erosion control inspections in the same way all inspections are tracked in our permit tracking program HDL. One inspection will be conducted at the beginning of the rainy season for applicable construction sites. A follow up inspection will only occur if warranted.

CON3C: Inspectors shall attend the City provided training course on Erosion and Sediment Control for Construction Projects to ensure they are properly trained. Quizzes will be provided.

Measurable goal achievements:

CON3A: This MG was achieved. An erosion and sedimentation control checklist for onsite-inspection has been created see checklist below. The inspections are logged on the erosion and sediment control checklist. Site must have compliance or a stop work order is issued. All sites with exposed soil were inspected.

CON3B: This MG was achieved. All sites with soil disturbance were inspected therefore any sites which don't contain site disturbance were eliminated, i.e. small interior room remodels, bathroom remodels etc. All sites are inspected for erosion and sediment control requirements. For the permit year twenty building permits with soil disturbance were active. Twenty erosion and sediment control inspections were completed. All sites were compliant with the first inspection therefore no re-inspection were required on any sites. Since these sites are active building permits a inspector typically is inspecting the site for various other inspections and at this time the entire site is observed and if a erosion or sediment issue was observed a correction would be given. There were none of these instances this permit year.

CON3C: This MG was achieved. All erosion and sediment control inspections are conducted by Damaris Hanson, Engineering Technician. Damaris has received her certification as a Certified Professional in Erosion and Sediment Control CPESC, and meets the education requirements to fulfill this certification, 60 hours in a three-year period. Damaris also completed the QSD and QSP certification process. The building inspector, Brian Cowen, conducts most of the building permit inspections. Brian Cowen and Damaris Hanson participated in the City provided training. The City provided training consists of watching a video, "Ground Disturbance" and taking a quiz. Both Brian and Damaris passed the Quiz with 100%.

Effectiveness Assessment:

Level 1 - Documenting Activities: The inspection checklist was created and used on all appropriate sites. Appropriate staff has had the appropriate training in ensure staff has the proper knowledge to perform the site inspections. The training certificates can be provided upon request.

Level 2 – Raising Awareness: Twenty erosion and sediment control inspections were competed this permit cycle and 20 were compliant at the initial inspection and no given corrections. No stop work orders were given for continued noncompliance, therefore the contractor are becoming aware of the erosion and sediment control requirements.

Changes to BMP for next permit year / Summary of activities for next permit cycle:

The City proposes to change CON3B to include: One inspection will be conducted at the beginning of the rainy season for applicable construction sites. A follow up inspection will only occur if warranted. And the City will add: The number of active construction sites and a comparison between the number of sites inspected per year and how many of those sites are inspected multiple times a year to the effectiveness measure. Some various typos were also changed see revised plan for details.

CON4: Public Education for the construction industry

BMP Description:

Distribute stormwater pollution prevention brochures and other printed materials (provided in multilingual and/or pictorial) targeting the development community and construction industry including construction site owners and operators and contractors. Topics may include, but not limited to: Construction Stormwater General Permit requirements; City ordinances and permits; Stormwater Pollution Prevention Plan (SWPPP) requirements; Erosion and sediment control BMPs; Illicit discharge detection and elimination; and proper disposal and recycling of construction materials.

Measurable goal:

CON4A: Make available at the Public Services counter and on the City website construction site education and outreach information.

CON4B: Post education and outreach information on erosion and sediment control on the City website.

Measurable goal achievements:

CON4A: This MG was achieved. A construction brochure (with the IWMA program information) has been created. The brochure can be viewed on our website www.morro-bay.ca.us/stormwater under quick links Construction activities BMP brochure (see below). The best attempt is made by staff to give this brochure with every building permit. The brochure is sometimes not taken by the contractor because they say they have one already. The brochures are always available at the counter if a citizen is looking for more information. The Construction brochure has been posted on the City's website: www.morro-bay.ca.us/stormwater under quick links.

CON4B: This MG was achieved. As mentioned in CON4A the construction brochure is available on the City's website. The number of hits is reported with PE8. The City had 100% compliance this permit year. The knowledge that erosion and sediment controls are required is evident with all the contractors' compliance.

Effectiveness Assessment:

Level 1 - Documenting Activities: Brochures were made available at the Public Services counter and on the website.

Level 2 – Raising Awareness: The numbers of compliant sites decreased this permit year from 2 Stop Work Orders to no Stop Work orders were issued for erosion control issues this permit year. The fact that all sites had erosion and sediment controls and in working order shows that the awareness of the contractors has been raised.

Changes to BMP for next permit year / Summary of activities for next permit cycle:

The City proposes to change CON4A to include: Make available at the Public Services counter and on the City website construction site education and outreach information, since the City is trying to reduce the amount of paper distributed. Also the City proposes the following effectiveness measure: Report in the annual report the number of compliant sites compared to the number of non-compliant sites and compare year to year for an effectiveness measures. The City proposes to eliminate CON4B and CON4C and keep CON4D revised to CON4B.

Where can you dispose of hazardous materials?

The Household Hazardous Waste Facility is located at:

160 Atascadero Road
Phone number: 481-9213

Hours of operation: Saturday 11-3

Items accepted:

Paint, antifreeze, household cleaners, yard pesticides, automotive products.
Call for a complete list.

To report a discharge or spill call the City of Morro Bay at 772-6261 during normal business hours.



Sammy the Steelhead



City of Morro Bay

Best Management Practices for Construction Activities



The City of Morro Bay is committed to preventing pollutants from entering our local waterways. Everyday activities at construction sites have the potential to have a deleterious effect on our water ways. The Best Management Practices contained herein are designed to help the development community prevent contaminated runoff from polluting local waterways.

For more information call 772-6261
www.morro-bay.ca.us/stormwater



YOU ARE THE SOLUTION TO STORMWATER POLLUTION



The purpose of this brochure is to assist those involved in the construction industry in the implementation of routines into daily work activities to prevent the pollution of our local waterways.

These measures must be implemented at the latest by October 15th through April 15th of each year. Regardless, all measures must be in place prior to the occurrence of a predicted storm event.

How does development affect our local waterways?

When land is graded for new development projects our local environment feels the effects. The primary concern is the potential for sediment and contaminants in the runoff site. As the natural vegetation is cleared, soil is exposed and susceptible to the forces of erosion. Wind, water humans and machines carry sediment, contaminants, litter and debris off site and eventually into our waterways. This untreated waste affects the water quality, humans, animals, and environmental health, and can cause flooding when storm drains are clogged or blocked by sediment and debris.

How can Developers reduce the projects impact on water quality?

Ideally, the only thing to leave the site is clean rainwater. An effective stormwater management/erosion and sediment control plan should address all potential pollutants and a way to prevent them from migrating off site. The following BMPs provide various ways you can control and prevent contaminated runoff from leaving your construction site.

Erosion Control Measures

Practices that prevent soil particles and construction debris from entering stormwater. Some of the more common include:

- Scheduling: Sequence construction to reduce the amount and duration of soil exposed to erosion by wind, rain and vehicle tracking.
- Preserve vegetation: preserving existing vegetation as a natural erosion control.
- Mulching, Geotextile mats: install natural or synthetic material to cover exposed ground.
- Dust Control: Stabilize soil from wind erosion
- Stabilized construction entrance: stabilize the access ways and areas where vehicle transportation may track material off site.
- Good Housekeeping: Keep the site free of litter and keep materials away from the street, gutters and storm drains.

Sediment Control Measures

Methods used to trap eroded sediment and prevent the sediment from migrating off site.

- Silt Fence: Installation of a silt fence, entrenched, will detain sediment laden water.
- Sand bags/gravel bags: Stack sand/gravel bags around storm drain inlets.
- Fiber rolls: Place fiber rolls along the site contours, stacked at a minimum of every 4 ft and entrenched 2-3 inches. Straw Bales are no longer allowed.

See the City of Morro Bay's Erosion and Sediment control Manual for more information.

CON5: Construction Site BMP manual**BMP Description:**

Develop and disseminate a construction site BMP policy and procedures guidance manual. The CASQA Construction BMP Manual will be used as a model.

Measurable goal:

CON5A: Completed year 1

CON5B: Make available, at the Public Services counter and on the City website, the construction site BMP manual.

Measurable goal achievements:

CON5B: This MG was achieved. Construction site BMP policy and procedures guidance manual is available at the Public Services counter and on the City Website. See PE8 for website hits and downloads.

Effectiveness Assessment:

Level 1 – Documenting Activities: BMP policy and procedures guidance manual developed.

Changes to BMP for next year/ Summary of activities for next year:

Since the City is trying to eliminate the amount of paper distributed, again the City proposes to eliminate that the manual will be handed out with building permit. CON5B is proposed to be: Make available, at the Public Services counter and on the City website, the construction site BMP manual. See the SWMP for more details.

CON6: Training for building department**BMP Description:**

Train municipal operations staff involved in reviewing grading and building plans, inspecting construction sites, or managing or monitoring construction sites for runoff control.

Measurable goal:

CON6A: City staff shall attend workshops and training courses on construction site runoff control and potential water quality impacts on an ongoing basis. The training will include at a minimum the Construction Stormwater General Permit requirements and erosion and sediment control BMPs.

Measurable goal achievements:

This MG was achieved. Currently the City only has one staff member who conducts the erosion and Sediment control inspections and reviews the grading and building plans for site drainage. This staff member attended the 3 day QSD and QSP training class and obtained the QSD and QSP certifications. Caltrans no longer hold the erosion and sediment control classes, therefore it is difficult for City staff to attend a erosion and sediment control workshop, due to budget constraints and workshop locations.

The City does conduct our own training for building staff. The Building Inspector and Engineering staff (2 persons) watched a training video, "Ground Control: Stormwater Pollution Prevention for Construction Sites", and took a post-video quiz. Both staff members passed the quiz with a score of 100%.

Effectiveness Assessment:

Level 1 – Documenting Activities: All staff conducting check and erosion and sediment control inspections were trained.

Changes to BMP for next year/ Summary of activities for next year:

Changes were made according to the annual report letter required revision Action #12. CON6A effectiveness measure now reads: The number of City staff involved in reviewing grading and building plans, inspecting construction sites for runoff control and the number of employees attending training courses.

CON7: Stormwater Hotline**BMP Description:**

Use the Public Stormwater Pollution Prevention Hotline for citizen reporting on construction site runoff violations.

Measurable goal:

CON7A: Create a hotline for citizens to call and report on construction site runoff violations.

CON7B: Record the number of citizen reports and problem resolution and report annually. 100% of citizen reports will be responded to.

Measurable goal achievements:

CON7A: This MG was achieved. The main line for Public Services is used for the hotline. This number was included in all construction brochures given to the public.

CON7B: This MG was achieved. The citizen reports and problem resolutions are included on the **Stormwater Reporting Hotline follow-up actions for permit year 2 Feb. 2009 - Feb. 2010** Table there were no citizen reports regarding construction activity this permit year.

Effectiveness Assessment:

Level 1 – Documenting Activities: No citizen reports regarding construction activity were reported in permit year 2.

Changes to BMP for next year/ Summary of activities for next year:

No changes are proposed; the city will continue tracking the citizen reports regarding construction activity in the same manner.

POST-CONSTRUCTION STORMWATER MANAGEMENT IN NEW AND REDEVELOPMENT

PC1: Buffer zones for wetlands and riparian areas

BMP Description:

Continue enforcing Morro Bay's current Zoning Ordinance with existing riparian buffer zones of 50 feet and wetland buffer zones of 100 feet.

Measurable goal:

PC1A: Continue requiring projects to protect riparian and wetland areas by requiring a buffer zone, according to Morro Bay's Zoning Ordinance chapter 17.40.040, to the maximum extent practicable.

Measurable goal achievements:

PC1A: This MG was achieved. The Morro Bay Zoning Ordinance 17.40.040 was enforced on all building and planning permit, which were within 50 feet of a riparian area and 100 feet of a wetland. Two projects were subject to this ordinance, a 10 lot subdivision on Theresa Street has a 50 foot buffer from a riparian area and a single family house on North Main Street also has a 50 foot buffer from a riparian area. Both projects are in the planning phase.

Effectiveness Assessment:

Level 1 - Documenting Activities: All projects subject to Zoning Ordinance 17.40.040 were given the specific requirements.

Changes to BMP for next year/ Summary of activities for next year:

No changes are proposed for the next permit year, the City plans to keep enforcing the Zoning Ordinance buffer zones.

PC2: Revise CEQA initial study checklist

BMP Description:

Revise the CEQA initial study checklist to include urban runoff quantity and quality and post-construction stormwater management considerations.

Measurable goal:

PC2A: Revise the CEQA initial study checklist by the end of permit year 2.

Measurable goal achievements:

PC2A: The City is proposing to eliminate this BMP. The City believes that the urban runoff quantity and quality and post-construction stormwater management considerations can be addressed early in the planning process without changing the CEQA checklist. The CEQA checklist is a State wide document in which the City chooses not to modify also the checklist currently has a water quality section where these types of considerations are made. The City has revised the environment section of the planning application to include an area for applicants to describe what Low Impact Development practices are being proposed.

Effectiveness Assessment:

N/A

Changes to BMP for next year/ Summary of activities for next year:

The City proposes to eliminate this BMP for the above stated reasons.

PC3: Development review for post-construction management

BMP Description:

Continue to review post-construction stormwater management in the development review process.

Measurable goal:

PC3A: Continue to review current post-construction stormwater management in the development review process and incorporate the new requirements once developed.

Measurable goal achievements:

PC3A: This MG was achieved. The City is currently in the process of revising this section of the Municipal Code and relocating the Stormwater Control Requirements to the Engineering Standards. See PC8F for more explanation

Currently these requirements apply to projects resulting in 2,500 sq ft of new or redeveloped impervious area. This requirement has water quality and water quantity requirements. These requirements exempt roof area for water quality controls. This permit year the City has begun to conditioning projects with new interim stormwater control requirements. In May, 2008 the City developed interim storm water control requirements after receiving the February 15, 2008 letter from the Water Board. The interim requirements are:

Conditional development projects that exceed 500 square feet of new or redeveloped impervious area will be required to provide water quality treatment for the runoff resulting from a two year storm event either through retention (infiltration) or an alternative Water Quality BMP such as biofiltration, mechanical filtration or hydrodynamic separation.

Additionally, these same development or redevelopment projects that drain to a natural creek, swale or City storm drain either directly or indirectly will be required to provide peak runoff rate control for the runoff resulting from the two, ten and one- hundred year rainfall events. For the purposes of stormwater management the pre-construction condition shall be that of native soil and vegetation.

Drainage analysis, runoff calculations, design and justification of drainage facilities shall be preformed by a Registered Civil Engineer and submitted with the building permit application. The responsible Soils Engineer shall review all proposed infiltration or storage systems for site suitability.

These requirements only apply to conditional development project, since these interim requirements are not adopted in the municipal code.

Since the interim requirements have been implemented the City has had eleven projects built with stormwater control requirements this permit year and approximately 22 with Stormwater Control requirements given. Approximately 40% of development and redevelopment projects had the stormwater requirements.

The City has different stormwater control requirements for the Embarcadero area. These requirements are similar to the interim requirements mentioned above, these requirements apply to projects over 500 sq ft of new or re-development, but these projects are only required to deal with water quality on water quantity. The Embarcadero area is unique because it is built on revetment and infiltration results in a direct discharge. Also controlling peak flow is not an issue since the Ocean doesn't have a capacity issue. The City had no projects completed with these stormwater requirements this permit year.

See PC8F for the addition of the LID requirements in the Engineering Standards which will take effect in permit year 3.

Effectiveness Assessment:

Level 1 - Documenting Activities: The City has reviewed post-construction stormwater management in the development review process.

Changes to BMP for next year/ Summary of activities for next year:

The City is working with the Regional Water Board in the Joint Effort, therefore the City has begun implementing the Stormwater and LID Controls discussed in further detail in PC8F.

PC4: Post-Construction maintenance inspection program

BMP Description:

Implement a post-construction stormwater management maintenance inspection program. The program will include the following components; inspections during construction to ensure BMPs are built as planned, specific timeframe after construction termination for the first post construction site inspection, post construction inspections to ensure proper BMP maintenance and BMP effectiveness (in coordination with a self certification program) and tracking of approved treatment and flow/volumes based BMPs.

Measurable goal:

PC4A: Create a maintenance inspection program. Inspect project sites with post-construction runoff controls as defined in the revised City Municipal Code (14.48).

PC4B: Inspect projects with post construction controls during construction to ensure BMPs are built as planned.

Measurable goal achievements:

PC4A: This MG is currently being developed. The City is in the process of developing a maintenance inspection program through our Illicit Discharge and Stormwater Control Ordinance. The ordinance states:

“Post-construction Stormwater Devices: Property owners of development or redevelopment projects which require installation of post-construction stormwater devices shall submit a maintenance plan or manufacturer’s maintenance guide for those devices as part of the project submittal. The plan or guide provided shall be considered the minimum maintenance required, with additional maintenance performed as needed to comply with this chapter. All property owners with post-construction stormwater devices on their property shall submit to the director annual inspection/maintenance reports to confirm continued compliance with this chapter. Reports shall be signed and certified by the property owner or the authorized representative.”

The Engineering Standards will define in greater detail what is required for the annual inspection/maintenance report.

PC4B: This MG was achieved. The City currently inspects the post construction Stormwater Controls during the drainage inspection. Damaris Hanson and Brian Cowen conduct the inspections and both are qualified to make sure that what is designed on the plans is what gets installed in the field. The post-construction controls are inspected while they are being built and after they are built, during the Final Inspection before the building received final occupancy. Eleven systems were built and every system was inspected accordingly.

Effectiveness Assessment:

PC4A: Level 1 - Documenting Activities: Ordinance currently being updated to allow maintenance of Post construction controls and Inspections by City staff of Post Construction control being built and completed.

Changes to BMP for next year/ Summary of activities for next year:

No Changes proposed, the City will begin enforcing the Illicit Discharge and Stormwater Control Ordinance once the ordinance is in effect. The City will also continue to conduct inspections of Post-construction controls in the same manner.

PC6: Long-term watershed planning**BMP Description:**

Commit to long-term watershed planning.

Measurable goal:

PC6A: Participate in the San Luis Obispo County Hydromodification Technical Advisory Committee (SLOCHTAC) to assist in the development of hydromodification control criteria to provide long-term watershed planning by developing hydromodification control criteria.

Measurable goal achievements:

PC6A: This MG was achieved. Barry Rands Associate Engineer has actively participated in the SLOCHTAC. The mission of the SLOCHTAC is to provide technical review and recommendations for Hydromodification Control Criteria, Low Impact Development Strategies and Other related Storm Water Quality Issues to ensure that all the MS4 agencies within San Luis Obispo County develop technically feasible, cost effective hydromodification plans that protect Water Quality.

The SLOCHTAC has been working diligently on developing the Interim LID Guidelines along with thresholds. The City is currently making modifications to the Engineering Standards to incorporate these changes.

Effectiveness Assessment:

Level 1 - Documenting Activities: The City has been actively participating in the SLOCHTAC.

Changes to BMP for next year/ Summary of activities for next year:

No Changes are proposed. Next permit year the city plan to continue working with the SLOCHTAC and with the RWQCB and the Joint effort to begin to develop long-term watershed planning.

PC7: Enforceable Mechanisms for Post Construction**BMP Description:**

Develop and/or modify enforceable mechanisms that will effectively implement hydromodification controls and LID. Enforceable mechanisms may include municipal codes, regulations, standards, and specifications

Measurable goal:

PC7A: This MG was achieved. An analysis of all applicable codes, regulations, standards, and/or specifications to effectively implement hydromodification controls and LID were identified and presented to the Water Board.

Measurable goal achievements:

PC7A: This MG was achieved. The analysis was completed and the City found that the codes do not prohibit hydromodification and LID, the City will consider making changes to the Engineering standards, i.e. modifying street standards and curb details. Since we are a built out community there are no new streets being proposed so modifying the standards doesn't seem where we should be putting our efforts. The City is currently modifying the Engineering Standards to include hydromodification and LID control requirements.

Effectiveness Assessment:

Level 1 - Documenting Activities: The analysis was completed, modification to the Engineering standards are in process.

Changes to BMP for next year/ Summary of activities for next year:

No Changes are proposed. The City will continue to work with the Region Water Board and the Joint Effort.

PC8: Implementation Strategy for LID and Hydromodification Control

BMP Description:

Develop and enact a strategy for implementing LID and hydromodification control for new and redevelopment projects. The strategy will provide appropriate education and outreach for all applicable target audiences, and will include specific guidance for LID BMP design and for complying with hydromodification control criteria. The strategy will also apply LID principles and features to new and redevelopment projects during the two-year period preceding adoption of hydromodification control criteria.

Measurable goal:

PC8C: Documentation of goals, schedules, and target audiences for education and outreach. The City will conduct in support of the following strategic objectives: enforceable mechanisms, hydromodification control criteria, applicability thresholds, LID BMP design, and compliance with LID and hydromodification control criteria.

PC8F: Apply LID principles and features to all applicable new and redevelopment projects.

PC8G: Tracking Report, for the period Q2 to Q8, identifying LID design principles and features incorporated into each applicable new and redevelopment project.

Measurable goal achievements:

PC8C: This MG was achieved. The City has previously reported to the Water Board the documentation for goals, schedules, and target audiences for education and outreach of LID and hydromodification controls.

PC8F: This MG was achieved. LID principals are currently being incorporated into the Engineering Standards; the revised Engineering Standards which include the LID principals will be added to the City's website as soon as they are finalized. The Engineering Standards will be available to the Water Board upon request.

PC8G: This MG was achieved and is ongoing. The City began implementing LID principals with discretionary projects starting in quarter 2. The City has received

Effectiveness Assessment:

Level 1 - Documenting Activities: Documentation of LID/HM strategies for implementation has been developed.

Changes to BMP for next year/ Summary of activities for next year:

No Changes are proposed the City will continue to work with the Regional Water Board in the Joint Effort.

GOODHOUSEKEEPING AND POLLUTION PREVENTION FOR MUNICIPAL OPERATIONS

MO1: Employee Training Program

BMP Description:

Implement an employee training program for municipal operations employees including, but not limited to, road maintenance, park and open space maintenance, fleet and building maintenance, new construction and land disturbances, water and wastewater system operators, and stormwater system maintenance operations employees. The training program includes provisions for new employee training and annual refresher training.

Measurable goal:

MO1A: Implement an employee training program for Public Services, Recreation and Parks, Planning and Building, Streets, Harbor, Police and, Fire department and Wastewater staff covering how to incorporate pollution prevention and good housekeeping into municipal operations.

MO1B: Provide stormwater pollution prevention training to each municipal operations employee on an annual basis.

MO1C: Measure the effectiveness of the training using scored quizzes and evaluations. Repeat training for scores less than 70%.

Measurable goal achievements:

MO1A: This MG was achieved. Two video training programs were selected to cover the needs of the City's municipal operations employees. The "Ground Control: Stormwater Pollution Prevention for Construction Sites" video training program is used for employees who work in construction related jobs, building and planning department. The "Storm Watch: Municipal Stormwater Pollution Prevention" video is used for employees who work in other field operations such as Parks, Roads, Water, and Wastewater. Each program was customized for each department's specific work needs and emphasized illicit discharge detection and elimination. The video training products used are the same the County of San Luis Obispo which they purchased from EXCAL visual.

MO1B: Each department watched the video and took a quiz. Any questions were answered and the quiz was graded. Also any areas where the employees felt we were lacking stormwater pollution prevention measures was discussed. All City departments with the exception of the Fire Department participated this year. The Fire department participates in training courses in related fields, i.e. hazmat training. This department is prepared with the knowledge to handle any illicit discharge.

MO1C: All Departments which participated took a quiz and was required to achieve a passing score of 70% or more. All employees received a passing score.

Effectiveness Assessment:

Level 1: Documenting activities: The City created/conducted a Municipal employees training program.

Level 2: Raising Awareness: Municipal employee's awareness was raised through the training videos. Employees all passed the quizzes with a minimum score of 70% demonstrating staff understood the training concepts.

Changes to BMP for next year/ Summary of activities for next year:

No changes are proposed; the City will conduct another training next permit year.

MO2: Street Sweeping Program**BMP Description:**

Implement a City street sweeping program.

Measurable goal:

MO2A: Sweep City roads on a weekly basis in heavily soiled areas. Heavily soiled areas are the Embarcadero and Downtown areas. Remaining areas of the city will be swept on a bimonthly basis.

MO2B: Sweep City-owned parking lots semi-monthly

MO2C: Track miles swept and the amount of material collected annually.

Measurable goal achievements:

MO2A: This MG was achieved. The City currently sweeps the Embarcadero and Downtown areas on a weekly basis and the remaining City streets are swept on a bimonthly basis.

MO2B: This MG was achieved. The City owned parking lots are swept semi-monthly.

MO2C: This MG was achieved. See table below with the amount of debris removed and miles swept.

Effectiveness Assessment:

Level 1: Documenting activities: The City has implemented a street sweeping program.

Level 4: Reducing Loads: The street sweeping program has reduced loads by removing pollutants before they have a chance to enter the Storm drain system and the City's waterways. See the table below for load amounts.

Changes to BMP for next year/ Summary of activities for next year:

No changes proposed, the City will continue sweeping streets in the same manner.

To quantify the amount of stormwater pollution that didn't reach the storm drain system	
The amount of sediment in tons that has been removed from the streets	435.95 tons
The amount of sediment that would have reached the storm drain system if not removed by sweeping. Assuming 10 to 25% would have reached the storm drain system.	43.595 to 108.99 tons
The total amount of toxic pollutants kept from the storm drains	1,743.8 to 17,438 pounds
Month Debris was swept and taken to the landfill	Quantity of debris removed (tons)
Feb-10	41.44
Mar-10	13.51
Apr-10	37.59
May-10	22.63
Jun-10	40.42
Jul-10	39.48
Aug-10	36.09
Sep-10	18.94
Oct-10	30.52
Nov-10	40.9
Dec-10	11.31
Jan-11	87.18
Feb-11	15.94
Total	435.95

MO3: Storm Drain Inspection and Maintenance

BMP Description:

Implement Storm drain Inspection and Maintenance Procedures and Schedules.

Measurable goal:

MO3A: Implement routine inspection and cleaning procedures and schedules for storm drain catch basins and other components of the storm drain system that require cleaning at least twice per year (once before the wet-season) on an ongoing basis. Additional cleaning may be needed based on historical need in specific locations. The storm drain collection system inspection program will include inspecting all catch basins and other storm drain components twice per year. Catch basins and other storm drain components will be cleaned at least twice per year unless the inspections demonstrate that cleaning is not necessary.

Measurable goal achievements:

MO3A: This MG was achieved. Most of the City's storm drains have an inlet and an outlet onto a street, therefore cleaning the streets (with street sweeping) takes care of the sediment caught in

these storm drains. The storm drains along the Embarcadero area and above Tidelands Park which drain into the Bay have filters in the catch basins. These storm drains with filters are cleaned twice a year, once in October and again in May. The City cleaned the storm drains with a total of 3.5 yards of debris was removed from 33 storm drains.

Effectiveness Assessment:

Level 4: Reducing Loads from sources: 3.5 yards of debris was removed from the storm drains which drain directly to the Bay therefore this debris was eliminated from entering the Bay.

Changes to BMP for next year/ Summary of activities for next year:

No changes are proposed; the City will continue implementing this BMP in the next permit year.

MO4: SWPPP for the Corporation Yard

BMP Description:

Implement Stormwater Pollution Prevention Plans (SWPPPs) and Self-Inspection Checklists for Public Works Corporation Yard

Measurable goal:

MO4A: Develop and implement SWPPPs for Public Services corporation yard.

MO4B: Use a self-inspection checklist to conduct annual inspections.

MO4C: Track the number and type of noncompliance and response time for preventive and corrective actions. Respond to all instances of noncompliance and implement corrective actions on 100% of noncompliance issues.

Measurable goal achievements:

MO4A: This MG was achieved. A SWPPP has been developed for the Public Services corporation yard.

MO4B: This MG was achieved. The Corporation yard was inspected using the checklist.

MO4C: This MG was achieved. The City Corporation yard was inspected using the SWPPP Checklist and the site was found to be in compliance, no major issues found.

Effectiveness Assessment:

Level 1: Documenting activities: The SWPPP and self-inspection checklist was completed this permit year.

Changes to BMP for next year/ Summary of activities for next year:

Change biannual inspections to annual inspection since the Corp yard also gets inspected for the spill prevention each year, these two seem to overlap.

MO5: City Road Maintenance Procedures

BMP Description:

Implement City road maintenance procedures to prevent the discharge of pollutants during maintenance operations.

Measurable goal:

MO5A: Maintain the City road inventory.

MO5B: Develop and implement a road maintenance procedure manual in permit year two that includes water quality protections including, but not limited to, proper stockpiling, erosion and sediment control BMPs, spill prevention and cleanup, saw cutting, paving and striping, equipment maintenance, proper fueling, and storm drain system maintenance.

Measurable goal achievements:

MO5A: This MG was achieved. The City has created a City road inventory to help determine which roads and when these roads need to be maintained. This permit year the City did

develop/adopt a road maintenance procedure manual that includes water quality protections including, but not limited to, proper stockpiling, erosion and sediment control BMPs, spill prevention and cleanup, saw cutting, paving and striping, equipment maintenance, proper fueling, and storm drain system maintenance.

MO5B: This MG was achieved. The CASQA manual was used as a reference document to develop our manual. BMP SC-70 Road and Street Maintenance will be used by the City for the BMPs for street maintenance. In the next permit year the streets staff will be trained on using the manual.

Effectiveness Assessment:

Level 1: Documenting activities: The City road inventory has been created and maintained. The City Road maintenance procedures have been adopted.

Changes to BMP for next year/ Summary of activities for next year:

No changes are proposed. Next permit year the City will train the Street staff on maintenance procedures to protect water quality.

MO6: City Facility Inspections

BMP Description:

Conduct City Facility Stormwater Pollution Prevention inspections including, but not limited to, Parks, City Facilities and Buildings, Vehicle and Equipment service areas, fueling stations, city construction sites, water and wastewater facilities, corporation yard and Harbor facilities in the permit coverage area.

Measurable goal:

MO6A: Use a self-inspection checklist to inspect city facilities for stormwater pollution prevention practices and procedures.

MO6B: Inspect facilities annually at a minimum to ensure ongoing compliance. Respond to 100% of noncompliance conditions and track all noncompliance issues, corrective, or preventive action and response times associated with City facility inspections.

Measurable goal achievements:

MO6A: This MG was achieved. A self-inspection checklist was created to inspect City facilities for stormwater pollution prevention practices and procedures.

MO6B: This MG was achieved. The self-inspection checklist has been created in order to conduct the inspections. All City owned buildings were inspected using the checklist created. No noncompliance issues were found. The SWPPP self-inspection checklist will be used for the Vehicle and Equipment service areas, fueling stations, corporation yard. The Harbor building is inspected with this checklist but the Harbor activities are inspected with the Clean Marina Program. The parks will be inspected next permit year, since the City landscape and lawn care stormwater pollution prevention procedures were being developed this permit year. The Erosion and Sediment inspections form (CON3) will be used for city construction sites. No inspection of city construction sites were inspected because the construction activity was contracted and it was the responsibility of the contract to conduct erosion control inspections. The City owned Parks will be inspected starting year 3. The City landscape and lawn care procedures were updated this permit year (MO11) and therefore the City inspections will verify these procedures are being implemented.

Effectiveness Assessment:

Level 1: Documenting activities: The self-inspection checklist was created to inspect City facilities. All City owned buildings were inspected.

Changes to BMP for next year/ Summary of activities for next year:

The City proposes to make changes to this BMP the water and wastewater facilities have separate NPDES permits and these facilities follow the direction of their permit. The City proposes to eliminate these facilities from this BMP.

MO7: Hazardous Materials Storage Spill Prevention and Control Procedures

BMP Description:

Create hazardous materials storage and spill prevention and control procedures for stormwater pollution prevention in City facilities.

Measurable goal:

MO7A: Create new hazardous materials storage and spill prevention and control procedures and practices for stormwater pollution prevention requirements.

MO7B: Include checks for proper hazardous materials storage and spill prevention on the self-inspection checklist used for the city facility inspections described in MO6.

MO7C: Report the number of noncompliance and corrective actions implemented. Respond to all instances of noncompliance and implement corrective actions on 100% of noncompliance issues.

Measurable goal achievements:

MO7A: This MG was achieved. The city created a hazardous materials storage and spill prevention and control procedures and practices for stormwater pollution prevention in year 1.

MO7B: This MG was achieved. The self-inspection checklist includes checks for proper hazardous material storage and spill prevention. A separate checklist was created for the spill response plan inspection

MO7C: This MG was achieved. The self-inspection checklist was used in order to conduct the inspections. No issues were found during the inspection.

Effectiveness Assessment:

Level 1 - Documenting Activities: A spill response plan was created and inspections are being conducted.

Changes to BMP for next year/ Summary of activities for next year:

No changes are proposed; the City will continue with implementing this BMP next permit year and inspections will be completed.

MO8: City Vehicle Fuel Dispensing and Maintenance Facilities

BMP Description:

Implement procedures to prevent stormwater runoff pollution from City vehicle fuel dispensing and maintenance facilities.

Measurable goal:

MO8A: Audit city vehicle maintenance and fueling procedures and practices for stormwater pollution prevention BMPs including, but not limited to, proper material storage and spill prevention and control, proper cleaning procedures, proper material disposal, and oil recycling.

MO8B: Revise procedures and retrain employees based on audit findings by Year 2.

MO8C: Inspect for compliance on an ongoing basis according to BMP MO6.

Measurable goal achievements:

MO8A: This MG was achieved and completed in year 1. An audit was conducted and the City's current vehicle maintenance and fueling procedures for adequately address stormwater pollution prevention BMP's. The City's vehicle maintenance and fueling procedures adequately address stormwater pollution and no revisions are proposed. Training was given to the Fleet Maintenance and City Engineer which covered the procedures to prevent the release of gasoline or diesel and what to do if a leak does occur. A training guide was also provided to these employees which covers various areas including but not limited to; how to stop the release, containing the spill or overfill, proper clean up, emergency contact personnel and gasoline storage and dispensing facility daily inspection form.

MO8B: This BMP has been eliminated because no revisions were necessary.

MO8C: This inspection was completed with the SWPPP inspection and no issues were found. See MO4 and MO6

Effectiveness Assessment:

Level 1 - Documenting Activities: An audit was conducted on the vehicle maintenance and fueling procedures and practices for stormwater pollution prevention. No deficiencies found.

Changes to BMP for next year/ Summary of activities for next year:

No changes are proposed. The City will continue to conduct inspections for the Fuel dispensing and vehicle maintenance with MO4 and MO6.

MO9: City Vehicle and Equipment Washing

BMP Description:

Implement procedures to prevent stormwater runoff pollution from City vehicle and equipment washing.

Measurable goal:

MO9A: Maintain oil water separator systems at least semi-annually (two times per year).

MO9B: Use vehicle washing systems that does not discharge into the storm drain system. Systems that treat and recycle wash water should be used.

Measurable goal achievements:

MO9A: The Oil Water Separator no longer exists in the Corp yard, the drain where vehicles and equipment are washed drains to the sanitary sewer. Therefore the City proposes to eliminate this BMP.

MO9B: The City has worked diligently in modifying new areas to wash vehicles and equipment. The Police Department has a pervious concrete area to wash their vehicles and equipment. The Fire Department has Pervious Pavers their equipment is washed. These areas were also done as demonstration areas, so now the Fire Department can see how well the permeable paver will "hold up" to a fire truck driving on them. All the other City vehicles and equipment are washed at the Corporation Yard, in the designated area which drains to the sanitary sewer.

Effectiveness Assessment:

Level 1: Documenting activities: The City has adequate locations for vehicle and equipment washing areas.

Changes to BMP for next year/ Summary of activities for next year:

The City proposes to eliminate MO9A since the City no longer has an oil water separator.

MO10: Clean Marina Program

BMP Description:

Maintain the Clean Marina Program (Appendix H). Harbor department participates in the Clean Marina California Program which includes an array of BMPs including but not limited to: good boat-cleaning practices, education, signage, notices, Marina rules and regulations, waste receptacles, spill prevention.

Measurable goal:

MO10B: Internally the City will inspect for compliance annually during the city facility inspections described in BMP MO6.

Measurable goal achievements:

MO10B: This MG was achieved. An inspection did occur using the same check sheets used by the Clean Marina program. The inspections were completed and the City passed with a score of 95.5%, therefore meeting our goal of at least 90%.

Effectiveness Assessment:

Level 1: Documenting activities: The inspections were completed.

Changes to BMP for next year/ Summary of activities for next year:

No changes are proposed, the city plans to conduct the inspection in the same manner not permit year.

MO11: City Landscape and Lawn Care Program

BMP Description:

Implement City landscaping and lawn care stormwater pollution prevention procedures for City facilities in the permit coverage area including, but not limited to: parks, recreational facilities, City owned buildings, and parking lots.

Measurable goal:

MO11A: Audit City landscape and lawn care procedures and practices for stormwater pollution prevention including, but not limited to: the proper use of less toxic alternative products for pesticide and herbicide use, proper use of fertilizers, proper green waste disposal, proper irrigation practices, proper trash management and recycling practices, proper storage and maintenance of equipment, riparian corridor protection, and sustainable landscape design.

MO11B: Revise procedures and retrain employees based on audit findings.

Measurable goal achievements:

MO11A: This MG was achieved in permit year 1. An audit was conducted of the current Parks Maintenance Manual. The manual was found to be lacking good procedures and practices for stormwater pollution prevention. The manual is outdated and the City update the manual to include the proper use of less toxic alternative products for pesticide and herbicide use, proper use of fertilizers, proper green waste disposal, proper irrigation practices, proper trash management and recycling practices, proper storage and maintenance of equipment, riparian corridor protection and various other procedures to protect water quality.

MO11B: The manual has been updated to include the proper use of less toxic alternative products for pesticide and herbicide use, proper use of fertilizers, proper green waste disposal, proper irrigation practices, proper trash management and recycling practices, proper storage and maintenance of equipment, riparian corridor protection and various other procedures to protect water quality. The Parks inspections (MO6) will verify these procedures and practices are adequate.

Effectiveness Assessment:

Level 1 - Documenting Activities: An audit was conducted, and updates were made.

Changes to BMP for next year/ Summary of activities for next year:

No changes are proposed at this time; the City plans to implement the changes next permit year.