

City of Morro Bay

Stormwater Annual Report

February 2012 – February 2013

Year 4



Katie Finley, Dunes Street Photography

Submitted: June 1, 2013



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ANNUAL REPORT

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

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

A. Permittee Information

- 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: 805-772-6265
- 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

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

(Annual Report is due by June 1st each year)

- 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

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. Many of these were submitted in the year one annual report and if the Water Board staff would like a copy of any of these items they will be made available.

In addition to the requirements in the General Permit, 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.

Highlights for Permit Year 4

In permit year three the City has continued to make great progress in developing its 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, staff has continued to participate in the development of the hydromodification control criteria to be applied to new or redevelopment. With the IDDE ordinance update the City also incorporated the hydromodification and LID requirements and the Attachment 4 requirements into the Engineering Standards. These new requirements have been applied to all applicable projects. The City is preparing for the adoption of the Post Construction Requirements to be adopted and enforceable by September 6, 2013. The Waste Load Allocation and Attainment plan has been implemented for a year now and is going smoothly. The City does have a plan to update the WAAP to meet the requirements of the new MS4 permit adopted on February 5, 2013.

Major Challenges for permit year 4:

New MS4 permit:

On February 5, 2013 the State Water Board adopted a new MS4 permit for Phase II permittees. This permit year the City put great effort towards the new MS4 permit revisions. The City is happy with the changes made in the draft permit for each revision and looks forward to

implementing the new MS4 permit. Changes for the next permit year will include incorporating the new requirements into the existing permit. Currently the City is drafting the Guidance Document which will be the new “road map” for the City to follow to implementing the new MS4 permit. Since the City is in the process of developing this document the proposed changes section of this annual report will refer to the Guidance Document which will be submitted by July 1, 2013. Also this is the final annual report for this permit cycle; the next annual report will be reported on the SMARTS program and meet the requirements of the new MS4 permit.

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 has developed 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 Partners group is still working towards collaborating together on all the Public Education and Outreach BMP’s to be more effective than working alone. The Partners group is in the beginning of developing a collaborative effort to meet the new permit requirements. This is in the very early stages still at this point. The Partners group also developed TV commercials with Verdin and the City participate funds to support the development of the commercials. See PE7 for more details.

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:

The City is currently reevaluating the existing SWMP and the new draft permit in developing the Guidance Document. Refer to the guidance document for any changes to BMPs.

PE2, 3, & 4 have no reporting requirements this reporting cycle (PE2C is reported with PE8).

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:

PE5A: Maintain the 788-FISH SLO County Partners for Water Quality Stormwater Information Line to direct users to their local stormwater pollution prevention program.

PE5B: 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.

PE5C: 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. Measure and record hotline follow-up response times.

Measurable goal achievements:

PE5A: MG will have to be eliminated. The county has discontinued the 788-FISH County Partners for Water Quality Stormwater Information Line. The City will continue advertising the Public Services main line as the hotline.

PE5B: 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. The City has also implemented a new website modular "Let us Know" where stormwater issues e.g illicit discharges, can be reported.

PE5C: MG was achieved. The Stormwater illicit discharge generated from the hotline are available upon request. Due to the nature and information in some of the complaint the City has chosen not to publish this information in the annual report. There was only one concern reported with the "Let us Know" this reporting cycle. This concern was investigated and was determined not to be a stormwater concern it was a leaking water meter on the customers side. See IL1 for more detail of any potential IDDE ordinance violations. All complaints were handled immediately (within 24 hours).

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). Also the City has implemented the "Let Us Know" modular.

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. Future permit years will help determine if this awareness results in a changed behavior. The fact that we get citizens calling in to report these stormwater pollution issues shows that there are aware that these types of activities are not allowed, therefore proving their awareness level has been raised.

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

The City will no longer be using the 788-FISH; the county no longer provides this service. The City is currently reevaluating the existing SWMP and the new draft permit in developing the Guidance Document. Refer to the guidance document for any changes to BMPs.

PE6: Pet Waste Management

BMP Description:

PE6A: Provide mutt mitt stations in all City Parks. Partner with Morro Bay Mutt Mitt Program to maintain supplies on an ongoing basis.

PE6B: Adopt a pet waste ordinance, enforce and track enforcement.

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

Measurable goal:

PE6A: Number of Mutt Mitts distributed annually.

PE6B: Pet waste ordinance adopted and enforcement actions taken.

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:

PE6A: The City has twelve parks and all have mutt mitt dispensers except Anchor and Mariner Memorial park. These are both very small parks and there are mutt mitts within close proximity. Six of the parks have two stations. The Dog Park located in Del Mar Park has an additional two stations for a total of six in Del Mar Park. The mutt mitt program is supported by community volunteers, the Beebes, initiated the Morro Bay mutt mitt program over eleven years ago. The Beebes unfortunately moved out of the area, but fortunately new community volunteers stepped up. Diane and Fred Moore continued the program with various other volunteers. The City coordinates with the Moores and donates \$5,000 towards the purchase of mutt mitts. The total number of mutt mitts dispensed for this permit year was **251,500!** The total number of volunteer hours for one year period was approximately **1,040** hours! There are a total of six volunteers who fill the dispensers and two volunteers, Diane and Fred Moore, who maintain the dispensers and the program.

PE6B: The pet waste ordinance was updated along with the illicit discharge ordinance. The ordinance was adopted by council on May 24th 2011 and therefore went into effect 30 days after. The City currently has an ordinance regarding dog feces which is regulated by the County animal control.

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 Veterinary clinic, Bowsen Boutique, and Coast Veterinary. 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 the posters can be seen by many visitors and doesn't have to be restocked year after year. 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 utility news letter was also sent (approximately 5,500) to all residents in Morro Bay which contains information about not flushing cat litter and explains the difference between a storm drain and collection facility.

PE6D: The Residential brochure has been posted on the City website and covers pet wastes; the "don't flush the mush" poster is also on the City website. The number of hits is reported with PE8.

Effectiveness Assessment:

Level 1 - Documenting Activities: Posters were distributed at all Veterinarian Offices and Pet Stores in town. The residential and "Don't flush the mush" poster are posted on our website. Website hits were also tabulated (PE8).

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

The City is currently reevaluating the existing SWMP and the new draft permit in developing the Guidance Document. Refer to the guidance document for any changes to BMPs.



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" has been aired on Channel 20 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 is shown between Public Hearing meetings throughout the permit year along with different events the City participated in i.e. coastal cleanup day. The City also participated with the County of SLO and the Partners for Water Quality in the creation of three new 25 second and one new 30 second PSA's and a landing page, www.stopdirtywater.com. The landing page gives some brief information and a link to Morro Bay's stormwater website for more information. Also the PSA's can be viewed on the landing page.

Effectiveness Assessment:

Level 1 - Documenting Activities: 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:

The City is currently reevaluating the existing SWMP and the new draft permit in developing the Guidance Document. Refer to the guidance document for any changes to BMPs.

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.morrobay.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:

The City is currently reevaluating the existing SWMP and the new draft permit in developing the Guidance Document. Refer to the guidance document for any changes to BMPs.

City of Morro Bay Stormwater Website Hits	
Date Range: 02/01/2012 - 01/31/2013	
Files	Hits
SWMP Appendix H Clean Marina Program	2162
Engineering Standards for LID Hydromodification	1125
Annual Report Year 1	346
Annual Report Year 2	275
SWMP Appendix I Wasteload Allocation Attainment Plan	256
SWMP Appendix C City Maps	207
Erosion and Sediment Control Manual	169
Low Impact Development Guidance Manual	141
SWMP Appendix D Watershed Maps	136
Construction Site BMP Brochure	131
SWMP Section 1 Introduction	109
SWMP Section 4 Minimum Control Measures	88
Stormwater Control Ordinance	87
Stormwater Webpage	85
SWMP Appendix E Storm Drain Atlas	64
SWMP Section 2 Water Quality	60
SWMP Section 3 Requirements	57
Residential Brochure	56
SWMP Appendix F MS4 General Permit	52
Coastal Clean-up Day Poster	47
SWMP Appendix B City Organization Chart	45
SWMP Appendix G Hydromodification Requirements	44
SWMP Appendix A RWQCB Feb 15th Letter	43
LID Brochure	29
Restaurant BMP Spanish Brochure	29
Auto Service BMP Brochure	27
Conservation Celebration Day Poster	23
SWMP Section 5 Reporting	22
Restaurant BMP Brochure	17
Kitty Litter Poster	15
Auto Service BMP Spanish Brochure	9
Total	5956

PE9: Community Based Social Marketing Strategies**BMP Description:**

The City will evaluate community-based social marketing (CBSM) strategies through the EPA's "A guide for conducting Watershed Outreach Campaigns" manual. CBSM strategies will be incorporated into the City's program where appropriate.

Measurable goal:

PE9A: Begin implementing CBSM strategies into appropriate BMPs.

Measurable goal achievements:

PE9A: MG was ongoing. City staff has begun implementing CBSM through participating with the County of San Luis Obispo and various other Cities in a new media campaign, www.stopdirtywater.org, which helps to illustrate some everyday behaviors citizens do, which are not good behaviors for water quality. One CBSM technique is to make the wrong behavior less appealing to the public. The city hopes to change this behavior by making it a social norm to pick up your pets waste, for example. Various other techniques are being explored and integrated into different aspects of the stormwater program. The Partner group is also investigating a collaborative approach for Public Education and outreach which includes CBSM strategies. City staff has participated in another webinar about social marketing projects. Staff is working with the partners group in ensure that we develop a plan to incorporate CBSM correctly. The correct data needs to be developed in order to obtain the correct responses and results from the public.

Effectiveness Assessment:

Level 1 - Documenting Activities: The City has begun exploring and implementing CBSM.

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

The City is currently reevaluating the existing SWMP and the new draft permit in developing the Guidance Document. Refer to the guidance document for any changes to BMPs.

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:

The City is currently reevaluating the existing SWMP and the new draft permit in developing the Guidance Document. Refer to the guidance document for any changes to BMPs.

PP2: Stakeholder Meeting/Workshop

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.

PP2D: Provide a copy of the annual report in the City Library, City Hall and the Public Services Department 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.

PP2B: This MG is ongoing. Stormwater updates are discussed at Public Works Advisory Board (PWAB) in the Director's report. Also any stormwater event are published on the "Notify me" section of the City's website and these notifications get emailed to every citizen gets an email for this notification get an email.

PP2C: This MG will be achieved. Every annual report is posted on the website as soon as it is completed, it can be viewed at the City website:

www.morro-bay.ca.us/stormwater

PP2D: This MG was achieved. There is a copy of the annual report available for public review at the City Library, City Hall and the Public Services Department.

Effectiveness Assessment:

Level 1 - Documenting Activities: Stakeholders list was created. SWMP was posted on the website and information regarding several area wide activities promoting stormwater and water quality was also posted on the City website.

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

The City is currently reevaluating the existing SWMP and the new draft permit in developing the Guidance Document. Refer to the guidance document for any changes to BMPs.

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.

PP3B: Promote and support at least one public event per year with the partners group.

Measurable goal achievements:

PP3A: This MG was achieved. The City participated in Coastal Cleanup and provided funding for the program this permit year. An announcement about the event and a flyer was available on the City's stormwater website and channel 20 see poster 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 posting posters at our city offices. This year the event was held on the same day.

Coastal cleanup was a success. For the San Luis Obispo County area there were 1,006 volunteers and collected a total of 2,500 pounds of trash. Morro Bay staff participated at the North Morro Strand Beach site. We had 45 volunteers and collected approximately 35 pounds of trash and 20 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 70% of the volunteers brought their own bag, a 20% increase from last year.

PP3B: The City promotes and supports the Conservation Day, coastal and creek clean-up day and several other events the County puts on in our area. The City will put these events on our website and hang posters in Public Services and City Hall offices for the public to view.

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. The City also advertised the event on our City website and on our local Channel 20.

Level 4: Reducing Loads from Sources: The number of volunteers did decrease this year which could be due to the fact that creek and coastal cleanup were held on the same day. The debris removal in the County was 2,500 lbs and 207 lbs of recyclables, the state removed 534,115 lbs of trash and 105,816 lbs of recyclable materials!

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

The City is currently reevaluating the existing SWMP and the new draft permit in developing the Guidance Document. Refer to the guidance document for any changes to BMPs.

EVERY PIECE OF TRASH YOU REMOVE REVEALS SOMETHING BEAUTIFUL



Coastal Clean-up day poster 2012

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 no storm drain markers were added.

Effectiveness Assessment:

Level 1: Documenting activities: Storm drains were checked with the cleaning of the storm drains and markers were replaced when needed. Also street, parks, collections and water crews are always on the lookout for storm drains which don't have markers.

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

The City is currently reevaluating the existing SWMP and the new draft permit in developing the Guidance Document. Refer to the guidance document for any changes to BMPs.

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 watershed programs, these programs may include but not limited to: water quality monitoring, watershed planning, community reforestation, storm drain marking, community clean ups and other environmental activities.

Measurable goal achievements:

PP5A: This MG was achieved. The City has a volunteer tree committee who is very dedicated about planting trees around the community. The volunteer tree committee also has members from Morro Bay beautiful, local landscape and arborist. Staff is currently working on an Urban Forest Management Plans and has met with the volunteer tree committee to include them in the process. Also the City participated with Coast cleanup day, and promoted creek cleanup day.

Effectiveness Assessment:

Level 1: Documenting activities: The City has participated and supports several watershed stewardship programs.

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

The City is currently reevaluating the existing SWMP and the new draft permit in developing the Guidance Document. Refer to the guidance document for any changes to BMPs.

ILLCIT 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:

IL1E: Enforce ordinance where applicable.

Measurable goal achievements:

IL1E: This MG is ongoing. 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. Due to the budget cuts the City doesn't have a code enforcement officer, and many code violations are complaint driven. Therefore when someone contacts the City about a particular code violation the issue is dealt with at that time.

This permit year there were four calls about possible illicit discharges that were investigated. All of these calls were handled within 24 hours. No administrative sites were issued.

Effectiveness Assessment:

IL1 E: Level 1: Documenting activities: Ordinance adopted and enforced.

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

The City is currently reevaluating the existing SWMP and the new draft permit in developing the Guidance Document. Refer to the guidance document for any changes to BMPs.

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:

IL2B: Update maps on an annual basis to include new and modified storm drain facilities.

IL2C: Updates include differentiating between the storm drain system inlet and outfalls, identifying the names and locations of all water of the U.S., differentiating between blue and green lines, and identifying where all storm drains discharges and identifying the catchment area for each storm drain inlet. The storm drain map are currently being update to make the storm drain cleaning easier to track. Soon the storm drain map will include all the maintenance performed at a storm drain and how often.

Measurable goal achievements:

IL2B&C: This MG is achieved and ongoing. The storm drain map has been updated to include differentiating between inlets and outfalls and all the waters of the U.S have been identified. Differentiating between the different color of lines has also been completed.

Effectiveness Assessment:

IL2A: Level 1: Documenting activities: Ongoing updating of the storm drain map.

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

The City is currently reevaluating the existing SWMP and the new draft permit in developing the Guidance Document. Refer to the guidance document for any changes to BMPs.

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: Following the “Green Business” incentive program for restaurants developed in year 1, use enforcement actions and record the number of violations.

IL3B: Conduct illicit discharge and detection inspections for restaurants. Twenty percent of restaurants will be inspected annually all stormwater violations will be reported 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 automobile stations and mobile cleaners. 20% of these 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:

IL3A,B,C&D: The FOG inspections this permit year were put on hold due to staffing issues this permit cycle. Staff did visit a few restaurants this permit cycle to follow up but due to staffing levels and prioritizing responsibilities until new staff could be hired and trained this BMP was delayed. Only minor issues were observed and the Restaurants corrected the issues ASAP. There was one restaurant that was inspected last permit year that was visited again this year due to City crews observing mat washing and the wash water entering a storm drain. The City does have a plan in place to conduct FOG inspections in the next permit cycle. Also the automobile facilities and mobile cleaners will be visited according to the SWMP next permit year.

Effectiveness Assessment:

IL3A,B&D: Level 1: Documenting activities: The required number of inspections was conducted this permit year and the restaurants employees were educated on proper BMP's .

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

The City is currently reevaluating the existing SWMP and the new draft permit in developing the Guidance Document. Refer to the guidance document for any changes to BMPs.



City of Morro Bay Stormwater Quality Survey Form for Restaurant/Food Facility

Business Name: _____ Address: _____

Owner/Operator: _____ Phone Number: _____

Form Completed by: _____ Title: _____

Waste Management	YES	NO	N/A	Corrective Action	Comment #
1. Is the dumpster/trash compactor leaking and likely to discharge offsite in a rain event?				Take appropriate action to remedy the leak and prevent leakage from reaching the storm drain system. Dumpsters should have a containment area around them to prevent any fluids from migrating offsite.	
2. Is there accumulated trash evident on or around the dumpsters?				The premises of a food facility shall be kept clean and free of trash and litter at all times.	
3. Are the tallow/grease bins open when not in use?				Tallow/grease bins shall remained closed while not in use.	
4. Is there an accumulation of grease build-up on or around the bins?				Clean up any grease that falls onto the ground. Recommend dry cleaning methods, any water used in cleaning must be discharged into the grease trap then sanitary sewer.	
5. Is there evidence of grease build-up near down spouts which suggest rooftop equipment is not being maintained?				Rooftop equipment must always be properly maintained to prevent overflow and kept in proper working leak free condition.	
Cleaning	YES	NO	N/A	Corrective Action	Comment #
6. Are floor mats being cleaned outside where the wash water drains to the storm drain system?				Floor mat washing water shall drain to the sanitary sewer, not into the storm drain system.	
7. Is equipment being cleaned (degreasing) outside?				Clean equipment in a area which drains to the sanitary sewer or berm/contain an area and dispose of the wash water in the sanitary sewer.	
8. Is the floor wash water from indoors being directed outdoors?				Direct all floor wash water to the floor drains which drain to the sanitary sewer.	
9. Is the outside of the building or hard surfaces (parking lots) cleaned with a hose or pressure washing?				Use dry cleaning methods, or hire a certified mobile surface cleaner.	

Comments:

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 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. This permit year the illicit discharge (stormwater control) ordinance was adopted and it does cover a section on animal wastes. The ordinance is available on our City website.

Effectiveness Assessment:

IL4A: Level 1: Documenting activities: The ordinance has been adopted.

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

The City is currently reevaluating the existing SWMP and the new draft permit in developing the Guidance Document. Refer to the guidance document for any changes to BMPs..

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. The Tidelands park counter recorded 67 hours of use this permit year. 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.

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 9 reports of pollution this permit year. Information on the 9 incidences can be provided upon request, due to the City policy that complaints are anonyms they are no longer included in the annual report.

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 67 hours this permit year, an increase of 10.7 hours from last 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 is currently reevaluating the existing SWMP and the new draft permit in developing the Guidance Document. Refer to the guidance document for any changes to BMPs.

Harbor Department General Information Brochure:

MARINE SANITATION INFORMATION

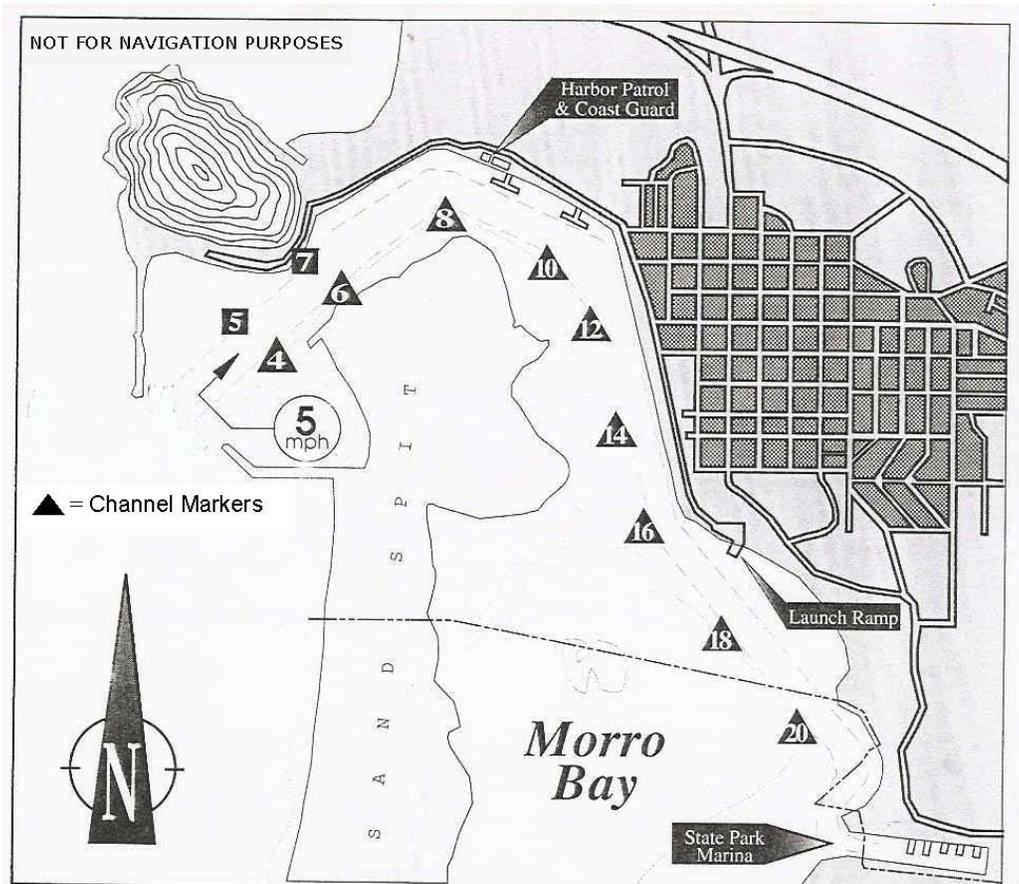
FREE PUBLIC PUMP-OUT STATIONS:

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 1410 gallons of used engine oil, 2655 pounds of used oil absorbent pads. If you discount the tare weight of the pads it equals approximately 350 gallons of oil. This oil is from the bottom of the vessels bilges. Three drums of crushed used oil filters (approximately 600 filters) were recycled. Also approximately 40 gallons of bilge pump water was processed through the oil/water separator at the South T-Pier.

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 is currently reevaluating the existing SWMP and the new draft permit in developing the Guidance Document. Refer to the guidance document for any changes to BMPs..

IL7: Wasteload Allocation and Attainment Plan

BMP Description:

Develop a wasteload allocation and attainment plan (WAAP) for the Morro Bay, Chorro and Los Osos creeks Pathogen TMDL.

Measurable goal:

IL7A: Develop a WAAP with the specific components required by the CCRWQCB

IL7B: Implement the plan within 60 days of the submittal to the CCRWQCB.

Measurable goal achievements:

IL7A: This MG was achieved. The WAAP was developed and submitted with year 2 annual report.

IL7B: This MG was achieved. The City has been implementing the WAAP since August 2011, 60 days after submitting it to the CCRWQCB. The WAAP includes monitoring which was conducted bi-monthly starting August 2011 through February 2013 of permit year 4. The results of the monitoring are included below.

Several other BMP were included in the WAAP; a dye tablet program, outreach and education to the RV parks and trailer parks and a beach walk program.

Morro Bay harbor department started giving dye tablets to the live-aboard boats during the live-aboard boat inspections. The boaters are educated on the importance of making sure the holding

tanks are in working order and they are asked to voluntarily comply with adding a tab each time they empty the tank at the pump-out station.

The City has begun the process of educating the RV and trailer parks on proper sewage disposal. It has been determined that all the RV parks in Morro Bay have a sewer lateral which all the RVs hook up too, so there is no area where the RVs have to go on site to dump the sewage. This minimizes the chance of spill; therefore the City feels that education efforts toward pathogens for the RV parks is not a high priority. The City is researching other areas to educate for Pathogens that would provide a better result in water quality.

A "Beach Walk" program has been begun. The City has created a beach walk form to report any observations and will conduct the first beach walk in the dry season. No observations of dry weather flow was observed this permit year.

Effectiveness Assessment:

Level 1: Documenting activities: The WAAP implementation has begun. It is too early in implementation to determine any further effectiveness measures.

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

The City will be updating the WAAP to meet the requirements in the new permit. Also the City is looking into alternative BMPs to attempt to achieve the TMDL requirements. The City is currently reevaluating the existing SWMP and the new draft permit in developing the Guidance Document. Refer to the guidance document for any changes to BMPs.

Bacteria Data Analysis

WAAP 1					WAAP 2					WAAP 3				
Month	Enterococcus	Fecal	E.Coli	Total	Month	Enterococcus	Fecal	E.Coli	Total	Month	Enterococcus	Fecal	E.Coli	Total
Aug-11	10	4	10	4	Aug-11	10	130	62	130	Aug-11	10	30	31	30
Oct-11	20	220	63	500	Oct-11	20	11	10	30	Oct-11	10	11	20	22
Dec-11	1	13	20	13	Dec-11	1	50	85	170	Dec-11	1	30	10	50
Feb-12	1	2	10	2	Feb-12	2	110	31	500	Feb-12	1	30	20	110
Apr-12	50	50	41	700	Apr-12	50	220	135	3000	Apr-12	70	110	10	1100
Jun-12	10	30	10	50	Jun-12	10	500	605	500	Jun-12	10	300	262	28000
Aug-12	10	50	52	50	Aug-12	50	1100	683	7000	Aug-12	10	13	20	23
Oct-12	120	1300	644	1300	Oct-12	720	2300	784	5000	Oct-12	11200	1700	4611	13000
Dec-12	50	50	20	170	Dec-12	40	50	52	50	Dec-12	510	750	759	1700
Feb-13	10	11	31	70	Feb-13	10	13	10	30	Feb-13	10	8	20	30
	Geometric Mean	Geometric Mean	Geometric Mean	Geometric Mean		Geometric Mean	Geometric Mean	Geometric Mean	Geometric Mean		Geometric Mean	Geometric Mean	Geometric Mean	Geometric Mean
	11.96	32.28	31.85	65.29		17.62	130.41	90.57	348.08		22.92	64.77	58.32	264.95
	Maximum	Maximum	Maximum	Maximum		Maximum	Maximum	Maximum	Maximum		Maximum	Maximum	Maximum	Maximum
	120	1300	644	1300		720	2300	784	7000		11200	1700	4611	28000
	Minimum	Minimum	Minimum	Minimum		Minimum	Minimum	Minimum	Minimum		Minimum	Minimum	Minimum	Minimum
	1	2	10	2		1	11	10	30		1	8	10	22

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:

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 two active construction general permit (CGP) during this permit year. The City of Morro Bay's lift station project and Morro del Mar, 1885 Ironwood, were the only two projects listed. The lift station project was not over one acre in disturbance but the Water Board wanted this project regulated under this permit due to the dewatering that had to take place. This project was completed and all requirements were met and the permit terminated. The Morro del Mar project is currently under construction and has been inspected by City staff and for erosion controls. There has been no issues on this site.

CON1C: This MG was achieved. For the permit year there were approximately 19 building permits with ground disturbance active during the "rainy season". The numbers of building permits with ground disturbance changes constantly as building permit are finalized.

Effectiveness Measure:

CON1B,C: Level 1: Documenting activities: The City tracks the number of construction sites over an acre. There were 2 sites with construction permits. There were approximately 19 construction sites with some sort of ground disturbance. The ground disturbance ranges from very minimal to the entire site exposed for grading.

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

The City is currently reevaluating the existing SWMP and the new draft permit in developing the Guidance Document. Refer to the guidance document for any changes to BMPs.

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 (WIDID) 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. There were 2 projects under construction this permit year that are subject to the GCP.

Effectiveness Assessment:

CON2A&3B: 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 received two building plans which are over an acre this permit year.

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

The City is currently reevaluating the existing SWMP and the new draft permit in developing the Guidance Document. Refer to the guidance document for any changes to BMPs.

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 addresses sites 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 approximately 19 building permits with soil disturbance were active. Nineteen erosion and sediment control inspections were completed. All sites were compliant with the first inspection. 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. No corrective actions were given 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 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: Nineteen erosion and sediment control inspections were completed this permit cycle and 19 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 is currently reevaluating the existing SWMP and the new draft permit in developing the Guidance Document. Refer to the guidance document for any changes to BMPs.

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: There were no sites that were out of compliance this permit year indicating that the public is aware of the City requirements to comply with erosion and sediment controls.

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

The City is currently reevaluating the existing SWMP and the new draft permit in developing the Guidance Document. Refer to the guidance document for any changes to BMPs.

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:

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. Se 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:

The City is currently reevaluating the existing SWMP and the new draft permit in developing the Guidance Document. Refer to the guidance document for any changes to BMPs.

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:

CON6A: 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. This staff member participates in education opportunities to meet the CPESC and QSD, QSP education requirements.

The City conducts our own training for building staff. The Building Inspector watched a training video and took a post-video quiz. This staff member passed the quiz with a score of 100%.

Effectiveness Assessment:

Level 1 – Documenting Activities: All staff conducting plan checks and erosion and sediment control inspections was trained.

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

The City is currently reevaluating the existing SWMP and the new draft permit in developing the Guidance Document. Refer to the guidance document for any changes to BMPs.

CON7: Stormwater Hotline**BMP Description:**

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

Measurable goal:

CON7A: Use the current 788-FISH or 772-6261 as the 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. Also the City has a new phone system in which a citizen can listen to the "phone tree" and if they have a stormwater concern the phone call gets directed accordingly.

CON7B: This MG was achieved. No complaints regarding construction sites erosion and sediment controls issues were reported this permit year.

Effectiveness Assessment:

Level 1 – Documenting Activities: No citizen reports regarding construction activity were reported in permit year 4.

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

The City is currently reevaluating the existing SWMP and the new draft permit in developing the Guidance Document. Refer to the guidance document for any changes to BMPs.

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 and both projects development is out the 50 ft buffer. These projects have been in the planning phase for several years now.

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:

The City plans to modify this section to corresponded with the PCR being adopted by September 6, 2013. The City is currently reevaluating the existing SWMP and the new draft permit in developing the Guidance Document. Refer to the guidance document for any changes to BMPs.

PC2: Development review for post-construction management

BMP Description:

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

Measurable goal:

PC2A: Continue to review current post-construction stormwater management in the development review process and incorporate the new requirements once developed.

Measurable goal achievements:

PC2A: This MG was achieved. The City revised this section of the Municipal Code and relocated the Stormwater Control Requirements to the Engineering Standards.

These requirements apply to projects resulting in 2,500 sq ft of new or redeveloped impervious area. The Cities post construction requirements include three parts, part one is water quality, part two is runoff volume controls (LID) which includes 3 tiers, and part three peak runoff flow controls. This permit year there were three projects subject to the Tier 1 and Part three requirements. Four projects were subject to the Tier 2 and part three requirements and three projects were subject to tier 3 and all three parts.

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 will be adopting the Water Boards post construction requirements September 6, 2013 and will modify the stormwater program and tracking to a line with these requirements. The City is currently reevaluating the existing SWMP and the new draft permit in developing the Guidance Document. Refer to the guidance document for any changes to BMPs.

PC3: 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:

PC3A: Create a maintenance inspection program. Inspect project sites with post-construction runoff controls as defined in the revised City Municipal Code (14.48).

PC3B: Inspect projects with post construction controls during construction to ensure BMPs are built as planned.

Measurable goal achievements:

PC3A: This MG is currently being developed. The City is in the process of developing a maintenance inspection program. The City started a maintenance inspection program but put it on hold until the Post Construction Requirements (PCR) are finalized. The PRC will be adopted by the City before September 6, 2013. After this time the City will implement the PRC and maintenance inspections according to the adopted PCRs.

PC3B: This MG was achieved. The City currently inspects the post construction Stormwater Controls during the drainage inspection. Engineering and Building department staff conducts the inspections and 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.

Effectiveness Assessment:

PC3A: Level 1 - Documenting Activities: Inspections being completed and preparing for PCR adoption before September 6, 2013.

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

The City plans to modify this section to correspond with the PCR being adopted by September 6, 2013. The City is currently reevaluating the existing SWMP and the new draft permit in developing the Guidance Document. Refer to the guidance document for any changes to BMPs.

PC5: Long-term watershed planning

BMP Description:

Commit to long-term watershed planning.

Measurable goal:

PC5A: 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:

PC5A: 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.

Barry participated in a sub-committee task force to develop interim LID standards for agencies to adopt. The City made modifications to the Engineering Standards to incorporate these standards, adopting them on September 6, 2011

PC5B, PC5C: This BMP has been changed once the Water Board developed the Joint Effort Review Team (JERT) may of these BMP that the City was responsible for completed are not being completed as part of the JERT.

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:

The City plans to modify this section to correspond with the PCR being adopted by September 6, 2013. The City is currently reevaluating the existing SWMP and the new draft permit in developing the Guidance Document. Refer to the guidance document for any changes to BMPs.

PC6: 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:

PC6B: Approved new and/or modified enforceable mechanism that effectively resolve regulatory conflicts and implement hydromodification controls and LID in new and redevelopment projects.

PC7C: Apply new and/or modified enforceable to all new and redevelopment projects.

Measurable goal achievements:

PC6B: The City adopted new hydromodification controls and LID techniques for new and redevelopment projects in Morro Bay. The City included these requirements in the Engineering Standards, which can be viewed at the City's website in the stormwater section under LID. These requirements are in place until the new PCRs are adopted September 6, 2013.

PC6C: The new hydromodification and LID controls have been applied to all new qualifying projects. This permit year there were three projects subject to the Tier 1 and Part three requirements. Four projects were subject to the Tier 2 and part three requirements and three projects were subject to tier 3 and all three parts.

Effectiveness Assessment:

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

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

The City plans to modify this section to correspond with the PCR being adopted by September 6, 2013. The City is currently reevaluating the existing SWMP and the new draft permit in developing the Guidance Document. Refer to the guidance document for any changes to BMPs.

PC7: 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:

PC7B: Provide specific guidance on how to achieve and demonstrate compliance with the hydromodification control criteria and LID requirements. Make available to new and redevelopment projects applicants.

PC7D

PC7G: 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:

PC7B: The MG was achieved. Included in the engineering standards is enough information providing guidance on how to achieve compliance with the hydromodification and LID requirements. Also City staff spends many hours talking with applicants and engineers during the development review process to assure the requirements are applied correctly.

PC7C: 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.

PC7D: This MG was achieved. The new hydromodification and LID controls have been applied to all new qualifying projects. This permit year there were three projects subject to the Tier 1 and Part three requirements. Four projects were subject to the Tier 2 and part three requirements and three projects were subject to tier 3 and all three parts.

PC7E: This MG was achieved. City staff has attended the workshops for LID and hydromodification controls put on by the LIDI and the Water Board. Staff has encouraged Engineers that we deal with a lot to attend these workshops as well and noticed that several attend the last workshop held.

PC7G: This MG was achieved and is ongoing. The City began implementing LID principals with discretionary projects starting in quarter 2. This permit year as previously mentioned there were 10 projects subject to the requirements. Some of these projects are still in the design phase, but most are implementing swales, disconnected imperviousness (draining to landscaped areas) and cisterns.

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:

The City plans to modify this section to correspond with the PCR being adopted by September 6, 2013. The City is currently reevaluating the existing SWMP and the new draft permit in developing the Guidance Document. Refer to the guidance document for any changes to BMPs.

PC8: Hydromodification Control Criteria**BMP Description:**

Derive municipality specific criteria for controlling hydromodification in new and redevelopment projects using Water Board approved methodology through the Joint Effort.

Measurable goal:

PC8A: Hydromodification Control Criteria Developed

Measurable goal achievements:

PC8A: The City has worked with the Joint Effort and the SLOCHTAC to develop Hydromodification Control criteria and the city has began implementing the criteria. The City will be adopting the new requirements developed by the Water Board by September 6, 2013.

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:

The City plans to modify this section to correspond with the PCR being adopted by September 6, 2013. The City is currently reevaluating the existing SWMP and the new draft permit in developing the Guidance Document. Refer to the guidance document for any changes to BMPs.

PC9: Applicability Thresholds**BMP Description:**

Derive municipality specific criteria for controlling hydromodification in new and redevelopment projects using Water Board approved methodology through the Joint Effort.

Measurable goal:

PC8A: Develop applicability threshold

Measurable goal achievements:

PC8A: The City has worked with the Joint Effort and the SLOCHTAC to develop Hydromodification Control criteria and the city has begun implementing the criteria. The City will be adopting the new requirements developed by the Water Board by September 6, 2013.

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:

The City plans to modify this section to correspond with the PCR being adopted by September 6, 2013. The City is currently reevaluating the existing SWMP and the new draft permit in developing the Guidance Document. Refer to the guidance document for any changes to BMPs.

PC10: Attachment 4 Requirements**BMP Description:**

Incorporate the specific General Permit Attachment 4 measures related to source control into the development review process.

Measurable goal:

PC10A: Incorporate all but the following requirements from attachment 4: B.2.a, B.2.b, B.2.i, B.4, B.5 and B.6 into the development review process.

Measurable goal achievements:

PC10A: This MG was achieved. The requirements are now included as part of the development review process and any projects subject to these requirements will be given the requirements. The attachment 4 requirements were incorporated into the hydromodification and LID control requirements contained in the Engineering Standards. There were two projects subject to these requirements this permit year.

Effectiveness Assessment:

Level 1 - Documenting Activities: The attachment 4 requirements have been included in the development review process.

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

The City plans to modify this section to correspond with the PCR being adopted by September 6, 2013. The City is currently reevaluating the existing SWMP and the new draft permit in developing the Guidance Document. Refer to the guidance document for any changes to BMPs.

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 "Storm Watch: Municipal Stormwater Pollution Prevention" video is used for employees who work in other field operations such as Parks, Roads, Water, Wastewater and Police.

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. The City is currently reevaluating the existing SWMP and the new draft permit in developing the Guidance Document. Refer to the guidance document for any changes to BMPs.

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:

The City is currently reevaluating the existing SWMP and the new draft permit in developing the Guidance Document. Refer to the guidance document for any changes to BMPs.

Month Debris was swept and taken to the landfill	Quantity of debris removed (tons)	To quantify the amount of stormwater pollution that didn't reach the storm drain system			
February-12	22.58	The amount of sediment in tons that has been removed from the streets		278.68 tons	
March-12	44.64	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.		27.868 to 69.67 tons	
April-12	44.05	The total amount of toxic pollutants kept from the storm drains		1114.7 to 11,147 pounds	
May-12	21.79	Month Debris was swept and taken to the landfill	Quantity of debris removed (tons)*		
June-12	39.42	Feb-11	22.58		* These amounts don't necessarily represent what was collected each month, because the street sweeper can stock pile material from previous months until there is enough material to take to the dump.
July-12	37.95	Mar-11	44.64		
August-12	12.88	Apr-11	44.05		
September-12	19.17	May-11	21.79		
October-12		Jun-11	39.42		
November-12	15.72	Jul-11	37.95		
December-12	20.48	Aug-11	12.88		
Janurary 2012		Sep-11	19.17		
Total	278.68	Oct-11			
		Nov-11	15.72		
		Dec-11	20.48		
		Jan-12			
		Total	278.68		

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 ongoing. 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. The City is in the process of developing a new tracking system through GIS to track the storm drain maintenance. The storm drains were cleaned during rain event to allow water to flow in and not to cause flooding; unfortunately the amount of materials removed from cleaning the storm drains was not recorded this permit year.

Effectiveness Assessment:

Level 4: Reducing Loads from sources: Removing the clogged material from the storm drains eliminates this material from entering the bay.

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

The City is currently reevaluating the existing SWMP and the new draft permit in developing the Guidance Document. Refer to the guidance document for any changes to BMPs.

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 in permit year 4.

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

The City is currently reevaluating the existing SWMP and the new draft permit in developing the Guidance Document. Refer to the guidance document for any changes to BMPs.

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.

MO5C: Train road maintenance employees to use the manual.

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.

MO5C: The City has three employees on the streets crew all three employees have read and understand the road maintenance BMP manual.

Effectiveness Assessment:

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

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

The City is currently reevaluating the existing SWMP and the new draft permit in developing the Guidance Document. Refer to the guidance document for any changes to BMPs.

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 was 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 this permit year. The City landscape and lawn care procedures were last permit year (MO11) and therefore the City inspections 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 is currently reevaluating the existing SWMP and the new draft permit in developing the Guidance Document. Refer to the guidance document for any changes to BMPs.

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:

The City is currently reevaluating the existing SWMP and the new draft permit in developing the Guidance Document. Refer to the guidance document for any changes to BMPs.

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:

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

Measurable goal achievements:

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:

The City is currently reevaluating the existing SWMP and the new draft permit in developing the Guidance Document. Refer to the guidance document for any changes to BMPs.

MO9: City Vehicle and Equipment Washing

BMP Description:

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

Measurable goal:

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:

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 where 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 is currently reevaluating the existing SWMP and the new draft permit in developing the Guidance Document. Refer to the guidance document for any changes to BMPs.

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:

MO10A: Maintain the Clean Marina Program and inspection scores of at least 90%.

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

Measurable goal achievements:

MO10,B: This MG was achieved. City staff conducted the Clean Marina inspection this year and we received the same score as last year, 94.6%. The City is pleased with this score.

Effectiveness Assessment:

Level 1: Documenting activities: The inspection was completed.

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

The City is currently reevaluating the existing SWMP and the new draft permit in developing the Guidance Document. Refer to the guidance document for any changes to BMPs.

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:

MO11C: Inspect for compliance during City facility inspections described in BMP MO6.

Measurable goal achievements:

MO11C: Inspections were completed with MO6 City facility inspections. No major issues were found.

Effectiveness Assessment:

Level 1 - Documenting Activities: An inspection was completed.

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

The City is currently reevaluating the existing SWMP and the new draft permit in developing the Guidance Document. Refer to the guidance document for any changes to BMPs.