

2010-11 City of Eureka SWMP Report

This report covers activities that occurred between the following dates:

1/1/2005 to 9/15/2011

Date Report Prepared: 9/15/2011

For questions regarding this report contact:

Miles Slattery
531 K Street
Eureka, CA 95501

Stormwater Program Permit Information

1. Permitting Authority: North Coast Regional Water Quality Control Board	
2. Permit Number: CA	3. Permit Type: NPDES
4. Permit Name: City of Eureka Stormwater Management Plan	
5. Date Issue: 7/1/2006	6. Date Expire: 6/30/2011

General Information for MS4 Operator

1. Operator Name:	Bruce Young		
2. Operator Title:	Public Works Director		
3. Represented Entity:	City of Eureka		
4. Mailing Address:	531 K Street		
5. Mail City, State, Zip:	Eureka, CA 95501		
6. Phone Number:	(707) 441-4207		
7. E-Mail Address:	byoung@ci.eureka.ca.gov		
8. Co-Permitting With:	WDID # 1B03185SHUM		
9. Population: 26,128	Households: 7,901	Area (sq mi): 10	
10. Official Website:	www.eurekastormwater.com		

General Information for Primary Contact Person

1. Name:	Miles Slattery
2. Title:	Project Manager
3. Phone Number	(707) 441-4184
4. E-Mail Address:	mslattery@ci.eureka.ca.gov

General Information for Secondary Contact Person

1. Name:	Bruce Young
2. Title:	Public Works Director
3. Phone Number	(707) 441-4255
4. E-Mail Address:	byoung@ci.eureka.ca.gov

General Information for Receiving Waters

Receiving Water Lists: Listed below are all the identified receiving waterbodies to which identified outfalls discharge.

Receiving Streams (creek, stream, river, etc.)	Receiving Waterbodies (lake, wetland, ocean, etc.)	Receiving Watersheds
Elk River is listed on the 2002 Clean Water Act Section 303(d) list for sediment.	Eureka Slough, Freshwater Slough, Ryan Slough, Fay Slough, Martin Slough and Humboldt Bay [303 (d) list for PCBs and Dioxin].	Eureka Plain Hydrologic Unit

Public Education and Outreach

Details of BMPs and Work Performed for Them

Advertise the Stormwater Hotline

Responsible Party: Miles Slattery, Project Manager

Advertise the Stormwater number on all educational pamphlets, posters, and stormwater web site.

Measurable Goal: 25% compliance each fiscal year for 100% compliance by end of permit term.

Start Date: 7/1/2007

End Date: 6/30/2011

Percentage of work that has been accomplished for this BMP: 100 %

Work performed for the BMP listed above

Date: 6/1/2006 Responsible Party: Miles Slattery, Project Manager

Stormwater Webpage

Advertised hotline on Eureka's Stormwater Division webpage

Date: 6/30/2006 Responsible Party: NCSWC Members, Active Members

NCSWC Webpage

Advertised hotline on NCSWC webpage (www.humboldtstormwater.com)

Date: 8/1/2006 Responsible Party: Miles Slattery, Project Manager

Business BMP Manuals

Advertised hotline on the four industry BMP manuals that are handed out to local businesses.

Date: 9/1/2006 Responsible Party: Miles Slattery, Project Manager

Construction BMP Pamphlets

Advertised the hotline on the twenty-one construction BMP pamphlets handed out to local contractors.

Date: 10/31/2006 Responsible Party: Miles Slattery, Project Manager

2007 Yellow Pages Recycling Guide

In the 'Recycling Guide' section of the yellow pages, advertised the stormwater hotline and webpage to report stormwater issues.

Date: 12/1/2006 Responsible Party: Miles Slattery, Project Manager

Coastal Currents

Humboldt Baykeepers Fall 2006 Coastal Currents magazine published an article about the City of Eureka's Stormwater Division. The article included information about the stormwater ordinance, hotline, webpage and contact information.

Date: 1/1/2007 Responsible Party: Miles Slattery, Project Manager

Stormwater Posters

Advertised the stormwater hotline on seven posters created by the City of Eureka (Pet Waste, Cigarettes, Toxics, Oil, Fertilizer, Car Wash and a 'Report It' poster) that will be distributed to local businesses, city facilities and other offices throughout the City.

Date: 2/7/2007 Responsible Party: Miles Slattery, Project Manager

KHUM 104.3 Coastal Currents

Miles was a guest on Humboldt Baykeepers Coastal Currents spot at noon on KHUM, 104.3 FM. He discussed the North Coast Stormwater Coalition, the City of Eureka's stormwater program and the different ways the public can report stormwater issues (Eureka's hotline and webpage).

Date: 3/14/2007 Responsible Party: Miles Slattery, Project Manager

Paving the Way for Rain Workshop

Handed out pamphlets with local stormwater hotlines printed on them at the 'Paving the Way for

Rain' workshop. It was a full day workshop on permeable pavement. Morning session was an overview of permeable pavement and the four different pavement types (pervious concrete, pervious asphalt, interlocking concrete pavers and reinforced grass pavement). Afternoon session was a series of technical sessions explaining installation, cost and performance.

Date: 7/1/2007 Responsible Party: NCSWC Members, Active Members

Humboldt Transit Authority Bus Ads

Paid for two ads ("Scoop the Poop" and "Hang on to Your Butts") to be displayed on Humboldt Transit Authority buses. The ads will run from July 1, 2007 through Oct. 30, 2007. The ad includes the coalition webpage address which has the City of Eureka's stormwater hotline number on it.

Date: 10/1/2007 Responsible Party: Miles Slattery, Project Manager

2008 Yellow Pages Recycling Guide

In the 'Recycling Guide' section of the yellow pages, advertised the stormwater hotline and webpage to report stormwater issues.

Date: 4/15/2008 Responsible Party: NCSWC Members, Active Members

KSLG 94.1 Radio Spot

Morguine Sefcik and Natalie Arroyo went on KSLG for a 15 minute interview about the Prop 50 grant they received on behalf of the NCSWC. They discussed the workshops we've sponsored, plugged the stormwater hotlines and the Mayday Community Clean Up event.

Date: 5/7/2008 Responsible Party: Miles Slattery, Project Manager

KHUM 104.3 Coastal Currents

Miles was a guest on KHUM 104.3's Coastal Currents. Miles discussed the upcoming Mayday Community Clean Up, the North Coast Stormwater Coalition, the upcoming region wide hotline number and the City's recently approved Construction Site Erosion Control Ordinance. Audio is attached.

Date: 9/17/2008 Responsible Party: Miles Slattery, Project Manager

NCSC Magnets

The Stormwater Division purchased 3,000 refrigerator magnets (attached) for distribution at local events and workshops sponsored by the NCSC and Stormwater Division as a part of a SEP for the City.

Date: 9/23/2008 Responsible Party: Miles Slattery, Project Manager

Region Wide Hotline Bus Ads

As a part of a SEP, the Stormwater Division had two ads printed (attached) and posted on two County wide buses from 9/23/08 to 3/31/09.

Date: 10/1/2008 Responsible Party: Miles Slattery, Project Manager

2009 Yellow Pages Recycling Guide

In the 'Recycling Guide' section of the yellow pages, advertised the stormwater hotline and webpage to report stormwater issues.

Date: 4/1/2009 Responsible Party: Miles Slattery, Project Manager

Sustainable Humboldt Ad

Times Standard had a Sustainable Humboldt insert in their newspaper in April 2009. The City of Eureka and Fortuna paid for ad space advertising the region wide hotline number. The ad is attached.

Date: 7/1/2009 Responsible Party: Miles Slattery, Project Manager

'Report It' Bus Ad

As a part of a SEP for the City of Eureka, Miles created a banner (attached) for the side of a County wide bus advertising the region wide hotline number and the North Coast Stormwater Coalition. The ad will be run on the side of the bus from 7/01/09 through 6/30/10.

Date: 9/27/2009 Responsible Party: Christina Ernst, Education Coordinator

TACO Day (9-27-09)

Stormwater Detectives - 150 Participants

The Take a Child Outside Day event was the first of its kind held on the North Coast as part of the

national program, Take a Child Outside Week which encourages parents, teachers, and caregivers to get children out into the natural world to participate in outdoor activities, engaging children's minds and bodies while fostering an appreciation for the environment. Many presenters were involved in this informational event, each tabling with five to fifteen minute interactive nature based activities. The event itself was open to the public from 10:00 am until 3:00 pm.

The City of Eureka, Stormwater Division activity called Stormwater Detectives was developed and presented by Christina Ernst with volunteer support from two Humboldt State University students and two California Conservation Corps members. Two tables with activities ran simultaneously, working with the Northcoast Environmental Center's watershed model and the California Coastal Commission's marine debris game.

The Northcoast Environmental Center's watershed model is an interactive, three dimensional model, with a flowing creek highlighting the causes and effects of stormwater pollution. The creek runs clear before simulated rain from spray bottles wielded by participating children washes cocoa powder as sediment from a clear cut, chocolate syrup and green food coloring off roads as motor oil and antifreeze, and chocolate sprinkles off pastures with grazing cattle as agricultural waste into the creek. The creek is left flowing cloudy and brown as it drains into the ocean.

This activity focused on teaching children and their parents about watershed and stormwater dynamics; the nature, scope, and effects of stormwater pollution as it moves through watersheds; and the actions we can all take to reduce and prevent stormwater pollution. North Coast Stormwater Coalition magnets and "Humboldt Bay Starts on Your Street" pamphlets were available for children and their families.

The following City of Eureka Stormwater Division posters were also presented, discussed, and made available:

Be Wiser About Fertilizer
Don't Spoil Our Waterways with Oil
Keep Toxics Away from Our Waterways
Scoop the Poop
Soap is for Dishes not for Fishes
Report Stormwater Pollution

Date: 10/1/2009 Responsible Party: Miles Slattery, Project Manager
2010 Yellow Pages Recycling Guide

In the 'Recycling Guide' section of the yellow pages, advertised the stormwater hotline and webpage to report stormwater issues.

Date: 10/2/2009 Responsible Party: Christina Ernst, Education Coordinator
Grant Elementary Presentation (10-2-09)
Stormwater Mapping Activity - 30 Students

This activity linked into a prior class presentation through Humboldt Baykeeper's Watershed Education and Training (WET) program, where students were given an introduction to stormwater pollution. In an effort to further students' understanding of how stormwater moves through their school's neighborhood, into sloughs, and ultimately the bay, a mapping activity was developed for the City of Eureka, Stormwater Division.

The activity involved five maps and a mapping activity worksheet which students completed in small groups and discussed together as a class after they completed the activity. Four of the maps were provided by the City of Eureka. Refer to the following mapping activity worksheet for details.

As well as tracing the movement of stormwater, the presentation also included a review of watershed and stormwater dynamics; the nature, scope, and effects of stormwater pollution as it moves through watersheds; and the actions we can all take to reduce and prevent stormwater pollution. The presentation ran approximately one hour and thirty minutes.

The following City of Eureka Stormwater Division posters were presented to and discussed with the class:

Be Wiser About Fertilizer
Don't Spoil Our Waterways with Oil
Keep Toxics Away from Our Waterways
Scoop the Poop
Soap is for Dishes not for Fishes
Report Stormwater Pollution

The classroom teacher was also provided with North Coast Stormwater Coalition magnets, Humboldt Bay Starts on your Street pamphlets, and the State Water Resources Control Board Citizen's Monitoring Program video--We All Live in a Watershed.

Date: 11/1/2010 Responsible Party: NCSWC Members, Active Members
Restaurant Poster

The North cOast Stormwater Coalition developed a 'Stormwater Friendly Restaurant Practices' poster for distribution to local restaurants. The poster (attached) includes the region-wide hotline number on it.

Date: 1/1/2011 Responsible Party: Miles Slattery, Project Manager
2011 Yellow Pages Recycling Guide

In the 'Recycling Guide' section of the yellow pages, advertised the stormwater hotline and webpage to report stormwater issues.

Date: 6/30/2011 Responsible Party: Miles Slattery, Project Manager
2010-11 Educational Materials

During this permit year, the City's stormwater flyer (w/hotline number) has been at the front desk of the water billing office and the the Public Works office. The Water Conservation Pamphlet has been displayed at the water billing office. All of the stormwater posters, BMP manuals, ordinances and annual reports have been available on-line and at the Public Works office. The region wide hotline magnets are available at all the County's MS4's stormwater offices.

Also, all source control restaurant inspections have had the Stormwater Friendly Cleaning Practices(w/hotline number) poster distributed to be posted in local restaurant kitchens.

Date: 6/30/2011 Responsible Party: Miles Slattery, Project Manager
2010-11 Construction Site BMP Pamphlets

The 19 Construction Site BMP Pamphlets (w/hotline information) have been mounted for distribution at the Building Department counter where all the pre-construction meetings are held.

Date: 8/1/2011 Responsible Party: Miles Slattery, Project Manager
Kid's Digest

The four local MS4 permittees pitched in to advertise the region wide hotline number in the Kid's Digest. The Kid's Digest is circulated to all K-6th grade children in Humboldt County. File is attached.

Date: 9/1/2011 Responsible Party: Miles Slattery, Project Manager
City of Eureka Recreation Activity Guide

The Stormwater Division advertised the region wide hotline number in Eureka's Recreation Activity Guide. 6,000 copies of the Guide are distributed to Eureka families through the mail, on-line on the Adorni's webpage and at the Adorni and other Eureka recreation centers. File is attached.

Community Spring Cleanup Day

Responsible Party: Miles Slattery, Project Manager

Advertise the Community Spring Cleanup Day and hold event to clean up City Parks, neighborhoods, waterfront and streams.

Measurable Goal: Cleanup Day held each year and advertised in at least three local media outlets annually.

Start Date: 7/1/2006

End Date: 6/30/2011

Percentage of work that has been accomplished for this BMP: 100 %

Work performed for the BMP listed above

Date: 5/19/2007 Responsible Party: Miles Slattery, Project Manager
Inaugural City of Eureka Mayday Community Clean Up

In an effort to promote community enhancement and encourage awareness of stormwater issues, the City of Eureka sponsored a community clean up event along Eureka's waterfront. On Saturday, May 19th, volunteers met at Halverson Park, Eureka Boardwalk, Palco Marsh and Elk River Wildlife Sanctuary. Volunteers were provided trash bags and pickers, as well as refreshments. The event was advertised in the Eureka Reporter, Times Standard, KHUM, KSLG and channel 3 news.

All participants received a City of Eureka Mayday Community Clean Up sports bottle and t-shirt. After the clean up, a volunteer appreciation event was held on the Boardwalk with live music and a BBQ. During the volunteer appreciation event, an opportunity drawing was held for gift certificates provided by City of Eureka merchants.

The inaugural Mayday Community Clean Up enjoyed great success. Five local organizations and over 160 volunteers participated in the event to remove over 5,200 pounds of trash from Eureka's waterfront.

Date: 5/17/2008 Responsible Party: Miles Slattery, Project Manager
2nd Annual Mayday Community Clean Up

In an effort to promote community enhancement and encourage awareness of stormwater issues, the City of Eureka sponsored a community clean up event along Eureka's waterfront. On Saturday, May 17th, volunteers met at Halverson Park, Eureka Boardwalk, Palco Marsh and Elk River Wildlife Sanctuary. Volunteers were provided trash bags and pickers, as well as refreshments. The event was advertised in the Eureka Reporter, Times Standard, Northcoast Journal, KHUM, KSLG and the Point.

All participants received a City of Eureka Mayday Community Clean Up sports bottle and t-shirt. After the clean up, a volunteer appreciation event was held on the Boardwalk with live music and a BBQ. During the volunteer appreciation event, an opportunity drawing was held for gift certificates provided by City of Eureka merchants.

The 2nd Annual Mayday Community Clean Up enjoyed great success. Eight local organizations and 114 volunteers participated in the event to remove over 4,600 pounds of trash from Eureka's waterfront.

Date: 6/7/2008 Responsible Party: Miles Slattery, Project Manager
Elk River Clean Up

After the Mayday Clean Up event, Elk River Wildlife Sanctuary still had a significant amount of debris and homeless encampments. Miles coordinated with the California Conservation Corps and had two - 20 yard trash bins dropped off at Elk River for a follow up clean up event. The volunteers removed an additional 7,020 pounds of trash.

Date: 5/16/2009 Responsible Party: Miles Slattery, Project Manager
3rd Annual Mayday Community Clean Up

In an effort to promote community enhancement and encourage awareness of stormwater issues, the City of Eureka sponsored a community clean up event along Eureka's waterfront. On Saturday, May 16th, volunteers met at Halverson Park, Eureka Boardwalk, Palco Marsh and Elk River Wildlife Sanctuary. Volunteers were provided trash bags and pickers, as well as refreshments. The event was advertised in the Eureka Reporter, Times Standard, Northcoast Journal, all local radio

stations and local network television.

All participants received a City of Eureka Mayday Community Clean Up sports bottle and t-shirt. After the clean up, a volunteer appreciation event was held on the Boardwalk with live music and a BBQ. During the volunteer appreciation event, an opportunity drawing was held for gift certificates provided by City of Eureka merchants.

The event enjoyed its greatest success to date. Twenty local merchants donated food and/or gifts for the volunteers. Seventeen local organizations and over 230 volunteers participated in the event to remove over 7,700 pounds of trash from Eureka's waterfront.

Date: 8/7/2009 Responsible Party: Miles Slattery, Project Manager
New Directions Library Clean Up

On August 7th, New Directions (John Shelter, Director and three other members) came to the site behind the County Library where homeless encampments have been a pervasive problem, spoke with some of the homeless, discussed the environmental impact their causing, provided them with alternatives and cleaned up all the debris (pictures attached). They encountered one camper that had some mental issues and was defecating at his site. Mr. Shelter gave him a shovel and two five gallon buckets to clean up his feces. At their follow up visit, the camper complied and Sewer Collection staff properly disposed of the contents. New Directions made return visits and performed the same services as the initial visit. The amount of debris and environmental issues have significantly decreased to the point of the last visit on August 18th there was only 3 gallons of trash and 3 gallons of recyclables. Their final visit will be this Friday. All trash was disposed of by the City. We provided a dumpster the first visit and removed the trash from the follow up visits.

Date: 5/8/2010 Responsible Party: Miles Slattery, Project Manager
4th Annual Mayday Community Clean Up

In an effort to promote community enhancement and encourage awareness of stormwater issues, the City of Eureka sponsored a community clean up event along Eureka's waterfront. On Saturday, May 8th, volunteers met at Halvorson Park, Eureka Boardwalk, Palco Marsh and Elk River Wildlife Sanctuary. Volunteers were provided trash bags and pickers, as well as refreshments. The event was advertised in the Times Standard, Northcoast Journal, all local radio stations and local network television.

All participants received a City of Eureka Mayday Community Clean Up sports bottle and t-shirt. After the clean up, a volunteer appreciation event was held on the Boardwalk with live music and a BBQ. During the volunteer appreciation event, an opportunity drawing was held for gift certificates provided by City of Eureka merchants.

The event enjoyed its greatest success to date. Eighteen local merchants donated food and/or gifts for the volunteers. Fourteen local organizations and 250 volunteers participated in the event to remove over 10,000 pounds of trash from Eureka's waterfront.

Date: 6/30/2010 Responsible Party: Miles Slattery, Project Manager
2009-10 Humboldt Fish Action Council Clean Ups

Miles coordinated with Fish Action Council's Doug Kelly to have his volunteer crews remove invasives and clean up litter on an annual basis at Cooper Gulch and Sequoia Park. This year they had their initial clean ups on February 13th, 2010, at Cooper Gulch and March 20th, 2010, at Sequoia Park. The Stormwater Division provided help with the clean up, pickers, bags, food and trash disposal.

Date: 6/30/2010 Responsible Party: Miles Slattery, Project Manager
2009-10 New Directions Clean Up

Beginning September 1, 2009, New Directions (John Shelter, Director) and the City developed an agreement to have New Directions concentrate on cleaning up the the trash and educating the campers in Palco Marsh. New Directions posts sign at camps letting the campers know that they will be back to clean the area. They come back, clean the area and council the campers about those programs that are available to help those that are houseless. New Directions makes return visits and performs the same services as the initial visit. The amount of debris and environmental

issues have significantly decreased. All trash is disposed of by the City.

Date: 5/7/2011 Responsible Party: Miles Slattery, Project Manager
5th Annual Mayday Community Clean Up

In an effort to promote community enhancement and encourage awareness of stormwater issues, the City of Eureka sponsored a community clean up event along Eureka's waterfront. This year's event also served as a kick-off for the Eureka Chamber of Commerce's Adopt-A-Block program. On Saturday, May 7th, volunteers met at Halvorson Park, Eureka Boardwalk, Palco Marsh, Elk River Wildlife Sanctuary and various locations throughout the City. Volunteers were provided trash bags and pickers, as well as refreshments. The event was advertised in the Times Standard, Northcoast Journal, all local radio stations and local network television.

All participants received a City of Eureka Mayday Community Clean Up sports bottle and t-shirt. After the clean up, a volunteer appreciation event was held on the new C Street Plaza with live music and a BBQ. During the volunteer appreciation event, an opportunity drawing was held for gift certificates provided by City of Eureka merchants.

The event enjoyed its greatest success to date. Fourteen local merchants donated food and/or gifts for the volunteers. Fourteen local organizations and over 350 volunteers participated in the event to remove over 11,000 pounds of trash from Eureka's waterfront.

Date: 6/30/2011 Responsible Party: Miles Slattery, Project Manager
2010-11 New Directions Clean Up

New Directions (John Shelter, Director) under a \$17,000 w/the City, cleaned up trash and educated the houseless in Eureka's marsh areas. New Directions posts sign at camps letting the campers know that they will be back to clean the area. They come back, clean the area and council the campers about those programs that are available to help those that are houseless. New Directions makes return visits and performs the same services as the initial visit. The amount of debris and environmental issues have significantly decreased. All trash is disposed of by the City.

The City also secured \$15,000 in funding from the Coastal Conservancy to have New Directions perform the same tasks on Parcel 4 and along the Hiksari Trail / Elk River Access Area.

Develop & Submit Stormwater Related PSA

Responsible Party: Miles Slattery, Project Manager

Develop and submit stormwater program related public service announcements to local radio station or newspaper.

Measurable Goal: At least 1 public service announcement submitted per year.

Start Date: 7/1/2006

End Date: 6/30/2011

Percentage of work that has been accomplished for this BMP: 100 %

Work performed for the BMP listed above

Date: 7/27/2006 Responsible Party: NCSWC Members, Active Members
Humboldt Beacon

Press release sent out to all local area newspapers. Release was printed in the July 27th Humboldt Beacon newspaper.

Notified the public about the local stormwater ordinances and programs in the area and the establishment of stormwater hotlines. The City of Eureka's, the City of Arcata's, the City of Fortuna's and Humboldt County's hotline numbers were listed.

Date: 12/1/2006 Responsible Party: Miles Slattery, Project Manager
Coastal Currents

Humboldt Baykeepers Fall 2006 Coastal Currents magazine published an article about the City of

Eureka's Stormwater Division. The article included information about the stormwater ordinance, hotline, webpage and contact information.

Date: 5/12/2007 Responsible Party: Miles Slattery, Project Manager
Mayday Clean Up Radio Spots

Advertised the inaugural Mayday Clean Up event on KSLG and KHUM six times per day on each radio station from 5-12-07 to 5-18-07. The ads referenced stormwater pollution and its effects on water quality.

Date: 6/27/2007 Responsible Party: Miles Slattery, Project Manager
Times Standard

Miles had an article published in the Contractor's Guide of the Wednesday edition of the Times Standard. Discussed erosion and sediment control. Promoted erosion control as 90% effective, but must be used in conjunction with sediment control (article attached).

Date: 11/26/2007 Responsible Party: NCSWC Members, Active Members
Landscape Design with Stormwater in Mind

The NCSWC had a PSA announcing the free Landscape Design with Stormwater in Mind conference 4 times a day for 1 week leading up to the event on 12/04/07.

Date: 5/2/2008 Responsible Party: Miles Slattery, Project Manager
Mayday Clean Up Radio Spot

Advertised the 2nd Annual Mayday Clean Up event on the Point, KSLG and KHUM from 5-05-08 to 5-16-08. The ads referenced stormwater pollution and its effects on water quality.

Date: 5/7/2008 Responsible Party: Miles Slattery, Project Manager
KHUM 104.3 Coastal Currents

Miles was a guest on KHUM 104.3's Coastal Currents. Miles discussed the upcoming Mayday Community Clean Up, the North Coast Stormwater Coalition, the upcoming region wide hotline number and the City's stormwater ordinance and recently approved Construction Site Erosion Control Ordinance. Audio is attached.

Date: 9/9/2008 Responsible Party: Miles Slattery, Project Manager
Erosion Control PSA

The Stormwater Division worked with Lost Coast Communications to develop a PSA (attached) announcing the implementation of the erosion control ordinance that will air on KHUM, KSLG & KWPT. By purchasing 34 :60 spots (6a-7p) on each station you will receive 17 Public Service Announcement buy-back spots, making your total 51 spots per station, 153 total. It will play for two weeks (weekdays only) and run from 9/9-9/15 and another from 9/23-9/29, with an average of 5 spots per day.

Date: 9/15/2008 Responsible Party: Miles Slattery, Project Manager
Smoke Testing on KIEM News Channel 3

Miles Slattery was interviewed about why smoke testing was being done on the storm drain system. Miles was on the 5 and 6pm news discussing the purpose of smoke testing, the City's SWMP and the City's efforts to reduce stormwater pollution.

Date: 9/24/2008 Responsible Party: Miles Slattery, Project Manager
Erosion Control Ordinance Press Release

On 09/24/08, Miles submitted a press release (attached) announcing the adoption and implementation of the erosion control ordinance. He also e-mailed KIEM News Channel 3 the press release.

Date: 11/12/2008 Responsible Party: NCSWC Members, Active Members
Stormwater Safe Vehicle Maintenance and Repair

The North Coast Stormwater Coalition sponsored a workshop for Stormwater Safe Vehicle Maintenance and Repair from 4-7pm on 11/12/08. The agenda was as follows:

4:15 - 5:15: Vehicle Service and Repair Practices

Presenter: Natalie Marcanio with Dept. of Toxic Substance Control

Topics include: Aqueous Parts Cleaning and Brake Washing, Oil Life Extension, Oil Water Separators, Fleet Management, Spill Prevention and Cleanup

5:20 - 6:15: Automotive Paint and Body Work

Presenter: Eugene Mathis with Dept. of Toxic Substance Control

Topics include: Paint Spray Gun Cleaning and Waste Minimization, HazMat Management, Sanding Waste Management, Wastewater Management, Solvent Recycling, Waterborne Coatings

6:20 - 7:00: Discussion Panel/ Q & A forum

Twenty-eight people were in attendance. Miles Slattery of the Stormwater Division was a member of the Q&A Panel and also received the training information so he could distribute it to the automobile shops within the City of Eureka. The PSA that ran for this event is attached.

Date: 4/15/2009 Responsible Party: Angie Wood, Storm Water Project Manager
Times Standard Ad - Sustainable Humboldt

Regionwide hotline (877-NCSC-001) ad (attached) was posted in the April 15th 'Sustainable Humboldt' insert of the Times Standard.

Date: 4/21/2009 Responsible Party: Miles Slattery, Project Manager
3rd Annual Mayday Clean Up Media

For the 3rd Annual Mayday Community Clean Up, the Stormwater Division generated three press releases, a radio spot and a commercial. The event was advertised in the Eureka Reporter, Times Standard, Northcoast Journal, all local radio stations and local network television.

The event enjoyed its greatest success to date. Twenty local merchants donated food and/or gifts for the volunteers. Seventeen local organizations and over 230 volunteers participated in the event to remove over 7,700 pounds of trash from Eureka's waterfront.

Date: 6/15/2009 Responsible Party: Miles Slattery, Project Manager
Construction BMP Manual Media

Radio spot (attached) announcing the availability of three City of Eureka BMP manuals for stormwater (Regulations, Construction Site BMPs and LID). The manuals include descriptions of local and state stormwater regulations pertaining to construction, instillation and maintenance of construction site BMPs and instillation and maintenance of Low Impact Development for as built.

The Stormwater Division paid \$500 for spots on KGOE, KKHB, KRED, KATA, KFMI, KXGO and KJNY. The radio spot was also forwarded to all local stations and aired for free. The Stormwater Division received over 100 spots from the paid stations, as well as free airtime from those and other stations the radio spot was sent to. These radio stations have an audience of over 100,000 listeners.

Date: 5/14/2010 Responsible Party: Miles Slattery, Project Manager
4th Annual Mayday Clean Up Media

For the 4th Annual Mayday Community Clean Up, the Stormwater Division generated three press releases and worked with KIEM Channel 3 on the Spirit of the North Coast. The Spirit commercial spot included a KIEM anchor and Councilmember Glass as spokespersons for the event. The event was advertised in the Times Standard, Northcoast Journal, all local radio stations and local network television.

Date: 6/28/2010 Responsible Party: Miles Slattery, Project Manager
2009-10 Water Conservation PSA

The Stormwater Division submitted a water conservation PSA (written and audio attached) to all local media outlets via fax and e-mail. The radio spot was played on local radio.

Date: 9/12/2011 Responsible Party: Miles Slattery, Project Manager
On-Going PSA

Miles is meeting with Sirius Studios on 9/16/11 to develop a radio PSA that will notify all residents of the ordinances and regulatory mechanisms developed by the City to protect water quality. The PSA will include advertising of the region-wide stormwater hotline, stormwater webpage and contact information.

Develop Construction Pamphlets

Responsible Party: Miles Slattery, Project Manager

Develop a series of pamphlets describing City's new Storm Water Ordinance and BMP Manual and permitting requirements.

Measurable Goal: Pamphlets developed.

Start Date: 7/1/2007

End Date: 6/30/2008

Percentage of work that has been accomplished for this BMP: 100 %

Work performed for the BMP listed above

Date: 9/1/2006 Responsible Party: Miles Slattery, Project Manager
Construction Pamphlets

Developed 19 construction BMP pamphlets to be distributed at contractor workshops, pre-construction meetings and construction site inspections. They include information about the stormwater ordinance and the stormwater program. Each pamphlet describes a BMPs installation, maintenance, effectiveness and limitations.

Develop Stormwater Web Site

Responsible Party: Miles Slattery, Project Manager

Measurable Goal: Increase content on web site by a minimum of 10% each year.

Start Date: 7/1/2006

End Date: 6/30/2011

Percentage of work that has been accomplished for this BMP: 100 %

Work performed for the BMP listed above

Date: 3/15/2006 Responsible Party: Bruce Young, Deputy Public Works Director
Webpage

Created Storm Water Division webpage (http://www.ci.eureka.ca.gov/depts/pw/storm_water.asp).

Date: 4/1/2006 Responsible Party: Miles Slattery, Project Manager
Stormwater Logo

Created Stormwater Division logo and moto, 'Finding Solutions to Stormwater Pollution'. Inserted new logo on front page of webpage.

Date: 5/1/2006 Responsible Party: Miles Slattery, Project Manager
SWMP Link

Created link to the SWMP.

Date: 5/15/2006 Responsible Party: Miles Slattery, Project Manager
FAQs Link

Created link to FAQs.

Date: 6/1/2006 Responsible Party: Bruce Young, Deputy Public Works Director
Household BMP Links

Created 8 links to household BMPs (storm water information, storm drain pollution and you, home maintenance tips, car care, landscaping and gardening, paints and solvents, home repair and remodeling, and pest contropl tips)

Date: 6/15/2006 Responsible Party: Miles Slattery, Project Manager
Stormwater Hotline Link

Created link to report storm water issues. Complaints are received directly by Miles Slattery via Public Works Trakit Software.

Date: 7/1/2006 Responsible Party: Miles Slattery, Project Manager
Local Recycling Page Link

Created link to local county recycling program.

Date: 7/17/2006 Responsible Party: Miles Slattery, Project Manager

Stormwater Basin and Outfall Links

Created link to a map of the City of Eureka's drainage basins and storm water outfalls.

Date: 8/1/2006 Responsible Party: Miles Slattery, Project Manager

Business BMP Links

Created four links to business BMPs (restaurant and food industry, auto industry, timber product industry and gas stations).

Date: 9/15/2006 Responsible Party: Miles Slattery, Project Manager

Construction BMP Links

Created three construction BMP links (erosion control, sediment control and pollution prevention).

Date: 1/2/2007 Responsible Party: Miles Slattery, Project Manager

Stormwater Ordinance Link

Created link to Stormwater Management and Discharge Control Ordinance.

Date: 6/4/2007 Responsible Party: Miles Slattery, Project Manager

Bought www.eurekastormwater.com Domain

Bought the www.eurekastormwater.com domain address for easier use in advertising.

Date: 6/25/2007 Responsible Party: Riley Topolewski, GIS Coordinator

Interactive GIS Link

Added link to our interactive GIS webpage.

Date: 10/31/2007 Responsible Party: Miles Slattery, Project Manager

Upcoming Events Link

When NCSC or City of Eureka stormwater related events are scheduled, Miles updated page to include a section for upcoming events which includes a link to agendas/posters and on-line registration forms.

Date: 6/25/2008 Responsible Party: Miles Slattery, Project Manager

Erosion Control Ordinance Link

Created link to Construction Site Erosion Control Ordinance.

Date: 8/26/2008 Responsible Party: Miles Slattery, Project Manager

Water Conservation Pamphlets

The Stormwater Division created a water conservation pamphlet (attached) as a part of the Urban Water Management Plan's Demand Management Measure 7. 100 pamphlets were printed and made available at the water billing kiosk and on the 3rd floor of City Hall. The pamphlet was made available on the City's Water Conservation webpage as well as www.eurekastormwater.com.

Date: 9/11/2008 Responsible Party: Miles Slattery, Project Manager

Erosion Control Permit Application

Created a link under 'Stormwater Ordinances' associated with the 'Construction Site Erosion Control Ordinance' for the Erosion Control Permit Application. Contractors now have access to it without having to come to the Building Department.

Date: 9/23/2008 Responsible Party: Miles Slattery, Project Manager

Stormwater Posters Link

The updated stormwater posters (attached) were added to the webpage for community members to download and post.

Date: 9/30/2008 Responsible Party: Miles Slattery, Project Manager

Annual Reports Link

Links to the City of Eureka SWMP Reports were added to the webpage, www.eurekastormwater.com.

Date: 6/1/2009 Responsible Party: Miles Slattery, Project Manager

BMP Manuals

With the assistance from Winzler and Kelly, the Stormwater Division created three construction BMP manuals, the Construction Stormwater Regulations Manual, the Construction BMP Manual and the Construction LID Manual. All three of the manuals were approved and adopted by City

Council on July 7, 2009.

Miles created a section on the Stormwater Division's webpage for BMP Manuals to be posted. He posted the three construction site BMP manuals on the page. When the Integrated Pesticide, Herbicide and Fertilizer Management Plan and Pollution Prevention and Good Housekeeping manuals are finalized, they will be posted as well.

Date: 10/12/2009 Responsible Party: Miles Slattery, Project Manager
Stormwater Logo

Created a new Stormwater Division logo and moto (attached), 'Finding Solutions to Stormwater Pollution'. Inserted new logo on front page of webpage.

Date: 11/19/2009 Responsible Party: Miles Slattery, Project Manager
Interactive GIS Link

Updated link to the City's new interactive GIS webpage.

Date: 11/19/2009 Responsible Party: Miles Slattery, Project Manager
Eureka Recycling/Waste Diversion Link

Added a link the City's Recycling/Waste Diversion webpage.

Date: 6/30/2010 Responsible Party: Miles Slattery, Project Manager
2009-10 Web Site Content

Links to the Stormwater Divisions three construction BMP manuals (Regulations, Construction and LID) were updated on the site. The Integrated Herbicide, Pesticide and Fertilizer Management Plan will be added once it receives Council approval (~ October 2010). The Pollution Prevention Good Housekeeping Manual will be added once the State approves the Low Threat Discharge permit and Council approves the Manual.

Date: 6/30/2011 Responsible Party: Miles Slattery, Project Manager
2010-11 Web Site Content

Links to the Stormwater Division's Integrated Herbicide, Pesticide and Fertilizer Management Plan was added to the web site in May after Council adopted it on 5/3/11. The 2009-10 Annual Stormwater NPDES report was also added to the web site. The Pollution Prevention Good Housekeeping Manual is complete and currently under review by the North Coast Regional Water Quality Control Board. After public noticing and adoption by Council, it will be posted on the web site.

Distribute Construction Pamphlets

Responsible Party: Miles Slattery, Project Manager

Distribute pamphlets during pre-construction meetings and construction site inspections.

Measurable Goal: Pamphlets handed out to 100% of contractors at pre-development meetings and 100% of construction site inspections.

Start Date: 7/1/2008 End Date: 6/30/2011

Percentage of work that has been accomplished for this BMP: 100 %

Work performed for the BMP listed above

Date: 11/2/2007 Responsible Party: NCSWC Members, Active Members
Construction Site Stormwater Management Workshop

The North Coast Stormwater Coalition sponsored a workshop for construction site stormwater management. The morning session included presentations on construction site BMPs (Craig Benson, RCAA), constructing roadways and driveways (Tyler Ledwith, RCAA) and local ordinance compliance (Miles Slattery, City of Eureka). The afternoon session provided two options. There was hands on erosion and sediment control BMP instillation training or EPA certified construction site stormwater management training. During the workshop, the City of Eureka Construction Site BMP pamphlets (19 BMP pamphlets) were made available to attendees. 91 people attended the conference. 26 attended the BMP instillation training, and 54 attended the stormwater manager training.

Date: 6/10/2008 Responsible Party: Miles Slattery, Project Manager
City Hall

The 19 Construction Site BMP Pamphlets were mounted at the Building Department counter where all the pre-construction meetings are held.

Date: 6/30/2009 Responsible Party: Miles Slattery, Project Manager
2008-09 Construction Site BMP Pamphlets

The 19 Construction Site BMP Pamphlets have been mounted for distribution at the Building Department counter where all the pre-construction meetings are held.

Date: 6/30/2010 Responsible Party: Miles Slattery, Project Manager
2009-10 Construction Site BMP Pamphlets

The 19 Construction Site BMP Pamphlets have been mounted for distribution at the Building Department counter where all the pre-construction meetings are held.

Date: 6/30/2011 Responsible Party: Miles Slattery, Project Manager
2010-11 Construction Site BMP Pamphlets

The 19 Construction Site BMP Pamphlets (w/hotline information) have been mounted for distribution at the Building Department counter where all the pre-construction meetings are held.

Distribute Stormwater Educational Materials

Responsible Party: Miles Slattery, Project Manager

Distribute stormwater educational materials at appropriate activities held at the Adorni Center and other local venues.

Measurable Goal: Educational materials handed out at a minimum of one event per year over the permit term.

Start Date: 7/1/2006 End Date: 6/30/2011

Percentage of work that has been accomplished for this BMP: 100 %

Work performed for the BMP listed above

Date: 8/12/2006 Responsible Party: Miles Slattery, Project Manager
Humboldt County Fair

Booth set up at Humboldt County Fair focusing on stormwater issues, waste reduction and recycling. Handed out informational pamphlets, posters, and children's coloring books. Provided information about local area stormwater programs as well as hotline numbers.

Date: 1/1/2007 Responsible Party: Miles Slattery, Project Manager
Posters at City Facilities

Provided City of Eureka Stormwater Division stormwater flyers and 'Report It' posters for the Adorni Center, first and third floor of City Hall and the Wharfinger building. Had administrative assistants at each location take Miles' phone number to notify when flyers run out.

Date: 3/14/2007 Responsible Party: Miles Slattery, Project Manager
Paving the Way for Rain Workshop

Handed out stormwater brochures and construction related education material at the 'Paving the Way for Rain' workshop. It was a full day workshop on permeable pavement. Morning session was an overview of permeable pavement and the four different pavement types (pervious concrete, pervious asphalt, interlocking concrete pavers and reinforced grass pavement). Afternoon session was a series of technical sessions explaining installation, cost and performance.

Date: 6/30/2007 Responsible Party: Miles Slattery, Project Manager
2006-07 NCSC Meetings

Miles is the Chairperson for the North Coast Stormwater Coalition. He coordinates and hosts all of

the meetings. The Coalition meets once a month and discusses ways to reduce stormwater pollution in local streams, rivers, Humboldt Bay and the ocean through public education and outreach, coordinating pollution prevention efforts and implementing pollution control measures. The Coalition consists of all four Phase II municipalities in the area, local businesses, non-profits and residents. There are now 20 members representing 8 different organizations throughout the area.

Date: 9/29/2007 Responsible Party: NCSWC Members, Active Members

2007 Maritime Expo

The Coalition had a booth at the Maritime Expo on Woodley Island. Attendees were asked to take part in a stormwater pollution quiz to win stormwater pollution magnets and posters provided by the Coastal Commission. The coalition's stormwater posters and other information were also available at the booth. The event was held from 10am to 4pm and approximately 300 people attended the Expo.

Date: 11/2/2007 Responsible Party: NCSWC Members, Active Members

Construction Site Stormwater Management Workshop

The North Coast Stormwater Coalition sponsored a workshop for construction site stormwater management. The morning session included presentations on construction site BMPs (Craig Benson, RCAA), constructing roadways and driveways (Tyler Ledwith, RCAA) and local ordinance compliance (Miles Slattery, City of Eureka). The afternoon session provided two options. There was hands on erosion and sediment control BMP installation training or EPA certified construction site stormwater management training. During the workshop, the City of Eureka Construction Site BMP pamphlets (19 BMP pamphlets) were made available to attendees. 91 people attended the conference. 26 attended the BMP installation training, and 54 attended the stormwater manager training.

Date: 12/4/2007 Responsible Party: NCSWC Members, Active Members

Landscape Design with Stormwater in Mind Conference

The North Coast Stormwater Coalition sponsored a workshop for landscape professionals and residents. The conference included presentations on local ordinance compliance (Miles Slattery, City of Eureka), the landscape/stormwater connection (Loren Oki, UC Cooperative Extension), creating a balance with IPM (Annie Joseph, OWOW), landscape features that minimize runoff (Loren Oki, UC Cooperative Extension), less toxic lawns and alternatives (Deborah Giraud, UC Cooperative Extension) and sustainable landscape (Donna Wildearth, Wildearth Designs). During the workshop, local nurseries, landscape supply companies and the NCSWC handed out stormwater friendly BMP material and educational material. 72 people attended the conference.

Date: 6/30/2008 Responsible Party: Miles Slattery, Project Manager

2007-08 NCSC Meetings

Miles is the Chairperson for the North Coast Stormwater Coalition. He coordinates and hosts all of the meetings. The Coalition meets once a month and discusses ways to reduce stormwater pollution in local streams, rivers, Humboldt Bay and the ocean through public education and outreach, coordinating pollution prevention efforts and implementing pollution control measures. The Coalition consists of all four Phase II municipalities in the area, local businesses, non-profits and residents. There are now 40 members representing 17 different organizations throughout the area.

Date: 9/23/2008 Responsible Party: Miles Slattery, Project Manager

Stormwater Posters Link

The updated stormwater posters (attached) were added to the webpage for community members to download and post.

Date: 9/23/2008 Responsible Party: Miles Slattery, Project Manager

Region Wide Hotline Bus Ads

As a part of a SEP, the Stormwater Division had two ads printed (attached) and posted on two County wide buses from 9/23/08 to 3/31/09.

Date: 9/27/2008 Responsible Party: NCSWC Members, Active Members

2008 Maritime Expo

The Coalition had a booth at the Maritime Expo on Woodley Island. Attendees were asked to take part in a stormwater pollution quiz to win Region Wide Stormwater Hotline magnets and posters provided by the Coalition. The Coalition's stormwater posters and other information were also available at the booth, including a 'Stormwater Runoff: I can make a difference' pamphlet provided by the Stormwater Division. The event was held from 10am to 4pm.

Date: 10/1/2008 Responsible Party: Miles Slattery, Project Manager
Region Wide Hotline Magnets

Region Wide Hotline number refrigerator magnets were made available at the water billing kiosk at City Hall and at the Wharfinger Building.

Date: 11/12/2008 Responsible Party: NCSWC Members, Active Members
Stormwater Safe Vehicle Maintenance and Repair

The North Coast Stormwater Coalition sponsored a workshop for Stormwater Safe Vehicle Maintenance and Repair from 4-7pm on 11/12/08. The agenda was as follows:

4:15 - 5:15: Vehicle Service and Repair Practices

Presenter: Natalie Marcanio with Dept. of Toxic Substance Control

Topics include: Aqueous Parts Cleaning and Brake Washing, Oil Life Extension, Oil Water Separators, Fleet Management, Spill Prevention and Cleanup

5:20 - 6:15: Automotive Paint and Body Work

Presenter: Eugene Mathis with Dept. of Toxic Substance Control

Topics include: Paint Spray Gun Cleaning and Waste Minimization, HazMat Management, Sanding Waste Management, Wastewater Management, Solvent Recycling, Waterborne Coatings

6:20 - 7:00: Discussion Panel/ Q & A forum

Twenty-eight people were in attendance. Miles Slattery of the Stormwater Division was a member of the Q&A Panel and also received the training information so he could distribute it to the automobile shops within the City of Eureka. A DVD and information package of all the information presented was distributed at the end of the workshop.

Date: 6/30/2009 Responsible Party: Miles Slattery, Project Manager
2008-09 Educational Materials

During this permit year, the City's stormwater flyer has been at the front desk of the water billing office, the Public Works office and the Wharfinger Building. The Water Conservation Pamphlet has been displayed at the water billing office. All of the stormwater posters have been available on-line and at the Public Works office. The region wide hotline magnets are available at all the County's MS4's stormwater offices.

Date: 6/30/2009 Responsible Party: Miles Slattery, Project Manager
2008-09 NCSC Meetings

Miles is the Chairperson for the North Coast Stormwater Coalition. He coordinates and hosts all of the meetings. The Coalition meets once a month and discusses ways to reduce stormwater pollution in local streams, rivers, Humboldt Bay and the ocean through public education and outreach, coordinating pollution prevention efforts and implementing pollution control measures. The Coalition consists of all four Phase II municipalities in the area, local businesses, non-profits and residents. This year Mendocino County Water Authority and the City of Fort Bragg became members and participate via teleconference in the meetings. There are now 57 members representing 28 different organizations throughout the area.

Date: 6/30/2009 Responsible Party: Miles Slattery, Project Manager
2008-09 Construction Site BMP Pamphlets

The 19 Construction Site BMP Pamphlets have been mounted for distribution at the Building Department counter where all the pre-construction meetings are held.

Date: 9/27/2009 Responsible Party: Christina Ernst, Education Coordinator
TACO Day (9-27-09)

Stormwater Detectives - 150 Participants

The Take a Child Outside Day event was the first of its kind held on the North Coast as part of the national program, Take a Child Outside Week which encourages parents, teachers, and caregivers to get children out into the natural world to participate in outdoor activities, engaging children's minds and bodies while fostering an appreciation for the environment. Many presenters were involved in this informational event, each tabling with five to fifteen minute interactive nature based activities. The event itself was open to the public from 10:00 am until 3:00 pm.

The City of Eureka, Stormwater Division activity called Stormwater Detectives was developed and presented by Christina Ernst with volunteer support from two Humboldt State University students and two California Conservation Corps members. Two tables with activities ran simultaneously, working with the Northcoast Environmental Center's watershed model and the California Coastal Commission's marine debris game.

The Northcoast Environmental Center's watershed model is an interactive, three dimensional model, with a flowing creek highlighting the causes and effects of stormwater pollution. The creek runs clear before simulated rain from spray bottles wielded by participating children washes cocoa powder as sediment from a clear cut, chocolate syrup and green food coloring off roads as motor oil and antifreeze, and chocolate sprinkles off pastures with grazing cattle as agricultural waste into the creek. The creek is left flowing cloudy and brown as it drains into the ocean.

This activity focused on teaching children and their parents about watershed and stormwater dynamics; the nature, scope, and effects of stormwater pollution as it moves through watersheds; and the actions we can all take to reduce and prevent stormwater pollution. North Coast Stormwater Coalition magnets and "Humboldt Bay Starts on Your Street" pamphlets were available for children and their families.

The following City of Eureka Stormwater Division posters were also presented, discussed, and made available:

Be Wiser About Fertilizer
Don't Spoil Our Waterways with Oil
Keep Toxics Away from Our Waterways
Scoop the Poop
Soap is for Dishes not for Fishes
Report Stormwater Pollution

Date: 10/2/2009 Responsible Party: Christina Ernst, Education Coordinator
Grant Elementary Presentation (10-2-09)
Stormwater Mapping Activity - 30 Students

This activity linked into a prior class presentation through Humboldt Baykeeper's Watershed Education and Training (WET) program, where students were given an introduction to stormwater pollution. In an effort to further students' understanding of how stormwater moves through their school's neighborhood, into sloughs, and ultimately the bay, a mapping activity was developed for the City of Eureka, Stormwater Division.

The activity involved five maps and a mapping activity worksheet which students completed in small groups and discussed together as a class after they completed the activity. Four of the maps were provided by the City of Eureka. Refer to the following mapping activity worksheet for details.

As well as tracing the movement of stormwater, the presentation also included a review of watershed and stormwater dynamics; the nature, scope, and effects of stormwater pollution as it moves through watersheds; and the actions we can all take to reduce and prevent stormwater pollution. The presentation ran approximately one hour and thirty minutes.

The following City of Eureka Stormwater Division posters were presented to and discussed with the class:

Be Wiser About Fertilizer

Don't Spoil Our Waterways with Oil
Keep Toxics Away from Our Waterways
Scoop the Poop
Soap is for Dishes not for Fishes
Report Stormwater Pollution

The classroom teacher was also provided with North Coast Stormwater Coalition magnets, Humboldt Bay Starts on your Street pamphlets, and the State Water Resources Control Board Citizen's Monitoring Program video--We All Live in a Watershed.

Date: 4/23/2010 Responsible Party: NCSWC Members, Active Members
2010 Humboldt Bay Symposium

The North Coast Stormwater Coalition had a booth at the Humboldt Bay Symposium at the Eureka Wharfinger. The Coalitions stormwater posters and other information were also available at the booth, including a 'Stormwater Runoff: I can make a difference' pamphlet provided by the Stormwater Division and region wide hotline number magnets. The event was held from 6pm to 8pm.

Date: 6/7/2010 Responsible Party: Amber Neilson, Education Coordinator
Sequoia Park World Oceans Week

In honor of World Oceans Day (June 8, 2010) the Sequoia Park Zoo's Education Coordinator provided storm-water pollution prevention demonstrations to visiting school groups during the week of June 7-11, 2010. The activity included a demonstration of how pollutants such as trash, oil, pesticides and fertilizers wash down storm drains into urban waterways and into the bay and ocean using the Enviro-Scape model purchased for stormwater education at the Zoo. Students were asked to identify how to prevent these pollutants from entering our waterways and were reminded that street drains are directly connected to bay and ocean environments.

The Association of Zoos and Aquariums provided free prizes for student participation. Prizes were based after Dr. Seuss' One Fish, Two Fish, Red Fish, Blue Fish story in celebration of the books 50th anniversary. Prizes included temporary tattoos, colorable crowns, book marks, buttons and an activity book.

Results see attached file for specifics and pictures):

Total #s served: 303 students + 42 adults =345

Specific School, grade level and numbers served:

- Grant Elementary, 1st, 60 students + 8 adults
- Zane Middle School, 7th & 8th, 20 students + 3 adults
- South Fortuna Elementary, K & 1st, 85 students + 11 adults
- Scotia Elementary, K, 26 students + 4 adults
- Greenpoint Elementary School (Blue Lake Charter), 1st-7th, 10 students + 2 adults
- Blue Lake Elementary, 2nd, 22 students + 4 adults
- Ridgewood Elementary, 2nd, 80 students + 10 adults

Date: 6/30/2010 Responsible Party: Miles Slattery, Project Manager
2009-10 Educational Materials

During this permit year, the City's stormwater flyer has been at the front desk of the water billing office, the Public Works office and the Wharfinger Building. The Water Conservation Pamphlet has been displayed at the water billing office. All of the stormwater posters have been available on-line and at the Public Works office. The region wide hotline magnets are available at all the County's MS4's stormwater offices.

Date: 6/30/2010 Responsible Party: Miles Slattery, Project Manager
2009-10 NCSC Meetings

Miles is the Chairperson for the North Coast Stormwater Coalition. He coordinates and hosts all of the meetings. The Coalition meets once a month and discusses ways to reduce stormwater pollution in local streams, rivers, Humboldt Bay and the ocean through public education and outreach, coordinating pollution prevention efforts and implementing pollution control measures. The Coalition consists of all four Phase II municipalities in the area, two Phase II municipalities from Mendocino, local businesses, non-profits and residents. This year Mendocino County Water Authority and the City of Fort Bragg became members and participate via teleconference in the

meetings. There are now 56 members representing 29 different organizations throughout the area.

Date: 7/28/2010 Responsible Party: Miles Slattery, Project Manager
Halvorson Park Interpretive Sign

Through the Prop 50 NP3 Grant with RCAA, the Stormwater Division developed a stormwater interpretive sign to be displayed along the trail through Halvorson Park, a portion of the California Coastal Trail (pictures attached).

Date: 9/23/2010 Responsible Party: Miles Slattery, Project Manager
Restaurant Poster Distribution

On 9/23/10, Miles went with Brandon Bishop, Source Control Inspector, to distribute 'Stormwater Friendly Cleaning Practices' for restaurants. The posters were developed by the North Coast Stormwater Coalition as a part of the Prop 50 NP3 grant.

Inspections and presentations were given at the Golden Harvest Cafe and Village Pantry. Miles gave a brief 10 minute presentation about BMPs for restaurants and told the Managers to hang the posters in their kitchens. Inspection reports and poster are attached.

Date: 11/30/2010 Responsible Party: Miles Slattery, Project Manager
Restaurant Poster Distribution

From 11/30/10 - 12/8/10, Brandon Bishop, Source Control Inspector, distributed 'Stormwater Friendly Cleaning Practices' for restaurants. The posters were developed by the North Coast Stormwater Coalition as a part of the Prop 50 NP3 grant.

Inspections and presentations were given at the Chalet House of Omelettes, Mazzotti's, Target Diner, Obento's Sushi, Big Pete's Pizza, McDonalds, Restaurant Hana and Roy's Club. Brandon gave a brief 10 minute presentation about BMPs for restaurants and told the Managers to hang the posters in their kitchens. Inspection reports and poster are attached.

Date: 3/5/2011 Responsible Party: Amber Neilson, Education Coordinator
Project WET Training
Location of workshop: Sequoia Park Zoo

Workshop Theme: From Backyards to the Bay to the Faucet—the Incredible Journey of Water

Workshop goal: Provide local educators with activities and resources to teach students about preventing pollution from stormwater run-off and non-point source inputs within our urban watersheds.

No. of participants: 31

Length: 7 hours

Narrative (attached):

Based on evaluations (attached), participants were thrilled by their learning, networking and resources derived from this teacher training. Participants ranged from formal public education teachers to charter school teachers and informal educators. The class was filled to over capacity (31 attended, 30 was the set max). One participant registered for CEUs. Participants were not charged for the training, but were required to submit a \$15 deposit of which was returned upon completion. All registrants completed the training and were reimbursed their deposit. Some interested teachers were turned away due to workshop capacity and others could not make it due to conflicting schedules. It was suggested that another training opportunity be offered in the fall. Based on their answer to a question in the evaluations, these teachers will reach a total number of 5717 students per year through their teaching. Following are some pictures from the event:

Date: 3/17/2011 Responsible Party: Miles Slattery, <Unknown>
Phase II Presentation for QSD-QSP Training

Enplan held a QSD/QSP training at Greenway Partners offices in Arcata. Miles came in and gave a 30 minute presentation about the Phase II program and the pending permit renewal.

Date: 3/18/2011 Responsible Party: Miles Slattery, Project Manager
College of the Redwoods Water Efficiency Classroom Presentation

Sharon Kahara, College of the Redwoods professor, contacted Miles Slattery about giving her class a presentation about the region's stormwater programs. Miles gave a one hour presentation about Eureka's program and the state of the Phase II program.

Date: 6/30/2011 Responsible Party: Miles Slattery, Project Manager
2010-11 Educational Materials

During this permit year, the City's stormwater flyer (w/hotline number) has been at the front desk of the water billing office and the the Public Works office. The Water Conservation Pamphlet has been displayed at the water billing office. All of the stormwater posters, BMP manuals, ordinances and annual reports have been available on-line and at the Public Works office. The region wide hotline magnets are available at all the County's MS4's stormwater offices.

Also, all source control restaurant inspections have had the Stormwater Friendly Cleaning Practices(w/hotline number) poster distributed to be posted in local restaurant kitchens.

Date: 6/30/2011 Responsible Party: Miles Slattery, Project Manager
2010-11 NCSC Meetings

Miles is the Chairperson for the North Coast Stormwater Coalition. He coordinates and hosts all of the meetings. The Coalition meets once a month and discusses ways to reduce stormwater pollution in local streams, rivers, Humboldt Bay and the ocean through public education and outreach, coordinating pollution prevention efforts and implementing pollution control measures. The Coalition consists of all four Phase II municipalities in the area, two Phase II municipalities from Mendocino, local businesses, non-profits and residents. There are now 59 members representing 29 different organizations throughout the area.

Educational Materials to Industrial & Commercial Businesses

Responsible Party: Miles Slattery, Project Manager

Coordinate with the City's Pre-Treatment Coordinator, County CUPA Program, and County Used Oil Program Coordinator to ensure that all industrial and applicable commercial businesses within the City receive stormwater educational materials at least once du

Start Date: 7/1/2006 End Date: 6/30/2011

Percentage of work that has been accomplished for this BMP: 100 %

Work performed for the BMP listed above

Date: 8/14/2006 Responsible Party: Miles Slattery, Project Manager
Pretreatment Program

Miles gave Justin Boyes, City of Eureka Pretreatment Coordinator, BMP manuals for Automobile, Restaurant, Gas Station and Timber industries. Justin said he would distribute them to the commercial and industrial businesses he inspects.

Date: 5/1/2008 Responsible Party: NCSWC Members, Active Members
Cigarette Butt Receptacles

Throught the Prop 50 Grant RCAA obtained on behalf of the City of Eureka Stormwater Division, 4 cigarette butt receptacles to be mounted within City limits. ONe was mounted at the Eureka Municipal Auditorium, City of Eureka Corporation Yard, College of the Redwoods Extension and Frederick and Charles Beauty College (pictures attached).

Date: 6/30/2008 Responsible Party: Miles Slattery, Project Manager
Source Control Program

Justin Boyes, City of Source Control Supervisor, maintains an inventory of BMP manuals for

Automobile, Restaurant, Gas Station and Timber industries. He distributes them to the commercial and industrial businesses he inspects.

Date: 7/22/2008 Responsible Party: Miles Slattery, Project Manager
Humboldt County Environmental Health

Miles gave Vicki Lore, Environmental Health Specialist, BMP manuals for Automobile, Restaurant, Gas Station and Timber industries. Vicki said she would distribute them to the restaurant and automobile businesses she inspects that have stormwater issues. She said she would give the Gas Station and Timber manuals to the HAZMAT inspectors to hand out for their inspections.

Date: 11/12/2008 Responsible Party: NCSWC Members, Active Members
Stormwater Safe Vehicle Maintenance and Repair

The North Coast Stormwater Coalition sponsored a workshop for Stormwater Safe Vehicle Maintenance and Repair from 4-7pm on 11/12/08. The agenda was as follows:

4:15 - 5:15: Vehicle Service and Repair Practices

Presenter: Natalie Marcanio with Dept. of Toxic Substance Control

Topics include: Aqueous Parts Cleaning and Brake Washing, Oil Life Extension, Oil Water Separators, Fleet Management, Spill Prevention and Cleanup

5:20 - 6:15: Automotive Paint and Body Work

Presenter: Eugene Mathis with Dept. of Toxic Substance Control

Topics include: Paint Spray Gun Cleaning and Waste Minimization, HazMat Management, Sanding Waste Management, Wastewater Management, Solvent Recycling, Waterborne Coatings

6:20 - 7:00: Discussion Panel/ Q & A forum

Twenty-eight people were in attendance. Miles Slattery of the Stormwater Division was a member of the Q&A Panel and also received the training information so he could distribute it to the automobile shops within the City of Eureka. A DVD and information package of all the information presented was distributed at the end of the workshop.

Date: 6/30/2009 Responsible Party: Miles Slattery, Project Manager
2008-09 NCSC Meetings

Miles is the Chairperson for the North Coast Stormwater Coalition. He coordinates and hosts all of the meetings. The Coalition meets once a month and discusses ways to reduce stormwater pollution in local streams, rivers, Humboldt Bay and the ocean through public education and outreach, coordinating pollution prevention efforts and implementing pollution control measures. The Coalition consists of all four Phase II municipalities in the area, local businesses, non-profits and residents. This year Mendocino County Water Authority and the City of Fort Bragg became members and participate via teleconference in the meetings. There are now 57 members representing 28 different organizations throughout the area.

Date: 6/30/2009 Responsible Party: Miles Slattery, Project Manager
2008-09 Construction Site BMP Pamphlets

The 19 Construction Site BMP Pamphlets have been mounted for distribution at the Building Department counter where all the pre-construction meetings are held.

Date: 6/30/2009 Responsible Party: Miles Slattery, Project Manager
2008-09 Source Control Inspections

Miles provides Justin Boyes, Source Control Supervisor, BMP manuals for Automobile, Restaurant, Gas Station and Timber industries. Justin said he would distribute them to the commercial and industrial businesses he inspects.

Date: 5/18/2010 Responsible Party: Miles Slattery, Project Manager
New General Construction Permit Training

The Stormwater Division and Winzler and Kelly sponsored a 2 hour long workshop to provide information pertaining to the newly adopted State General Construction Permit (presentation attached). Twelve different organizations and twenty-four people attended (sign in sheet attached). Six staff members attended.

Date: 6/30/2010 Responsible Party: Miles Slattery, Project Manager

2009-10 Construction Site BMP Pamphlets

The 19 Construction Site BMP Pamphlets have been mounted for distribution at the Building Department counter where all the pre-construction meetings are held.

Date: 6/30/2010 Responsible Party: Miles Slattery, Project Manager

2009-10 Source Control Inspections

Miles provides Justin Boyes, Source Control Supervisor, BMP manuals for Automobile, Restaurant, Gas Station and Timber industries. Justin and his staff distribute them to the commercial and industrial businesses they inspect.

Date: 6/30/2010 Responsible Party: Miles Slattery, Project Manager

2009-10 NCSC Meetings

Miles is the Chairperson for the North Coast Stormwater Coalition. He coordinates and hosts all of the meetings. The Coalition meets once a month and discusses ways to reduce stormwater pollution in local streams, rivers, Humboldt Bay and the ocean through public education and outreach, coordinating pollution prevention efforts and implementing pollution control measures. The Coalition consists of all four Phase II municipalities in the area, two Phase II municipalities from Mendocino, local businesses, non-profits and residents. This year Mendocino County Water Authority and the City of Fort Bragg became members and participate via teleconference in the meetings. There are now 56 members representing 29 different organizations throughout the area.

Date: 9/23/2010 Responsible Party: Miles Slattery, Project Manager

Restaurant Poster Distribution

On 9/23/10, Miles went with Brandon Bishop, Source Control Inspector, to distribute 'Stormwater Friendly Cleaning Practices' for restaurants. The posters were developed by the North Coast Stormwater Coalition as a part of the Prop 50 NP3 grant.

Inspections and presentations were given at the Golden Harvest Cafe and Village Pantry. Miles gave a brief 10 minute presentation about BMPs for restaurants and told the Managers to hang the posters in their kitchens. Inspection reports and poster are attached.

Date: 10/18/2010 Responsible Party: Miles Slattery, Project Manager

Plan It Green Luncheon Series

Miles gave a 20 minute presentation to citizens, contractors and consultants about current and future Post Construction Stormwater Management requirements. Miles explained what the City's current requirements are and what is expected to come with the permit renewal. The presentation focused on hydromodification and LID. It included photos of existing LID projects within the City limits that the Stormwater Division had constructed.

Date: 11/30/2010 Responsible Party: Miles Slattery, Project Manager

Restaurant Poster Distribution

From 11/30/10 - 12/8/10, Brandon Bishop, Source Control Inspector, distributed 'Stormwater Friendly Cleaning Practices' for restaurants. The posters were developed by the North Coast Stormwater Coalition as a part of the Prop 50 NP3 grant.

Inspections and presentations were given at the Chalet House of Omelettes, Mazzotti's, Target Diner, Obento's Sushi, Big Pete's Pizza, McDonalds, Restaurant Hana and Roy's Club. Brandon gave a brief 10 minute presentation about BMPs for restaurants and told the Managers to hang the posters in their kitchens. Inspection reports and poster are attached.

Date: 3/17/2011 Responsible Party: Miles Slattery, <Unknown>

Phase II Presentation for QSD-QSP Training

Enplan held a QSD/QSP training at Greenway Partners offices in Arcata. Miles came in and gave a 30 minute presentation about the Phase II program and the pending permit renewal.

Date: 6/30/2011 Responsible Party: Miles Slattery, Project Manager
2010-11 Source Control Inspections

Miles provides Justin Boyes, Source Control Supervisor, BMP manuals for Automobile, Restaurant, Gas Station and Timber industries. Miles also supplies Justin's staff with the Stormwater Friendly Restaurant Practices poster. Justin and his staff distribute them to the commercial and industrial businesses they inspect.

Date: 6/30/2011 Responsible Party: Miles Slattery, Project Manager
2010-11 NCSC Meetings

Miles is the Chairperson for the North Coast Stormwater Coalition. He coordinates and hosts all of the meetings. The Coalition meets once a month and discusses ways to reduce stormwater pollution in local streams, rivers, Humboldt Bay and the ocean through public education and outreach, coordinating pollution prevention efforts and implementing pollution control measures. The Coalition consists of all four Phase II municipalities in the area, two Phase II municipalities from Mendocino, local businesses, non-profits and residents. There are now 59 members representing 29 different organizations throughout the area.

Date: 6/30/2011 Responsible Party: Miles Slattery, Project Manager
2010-11 Construction Site BMP Pamphlets

The 19 Construction Site BMP Pamphlets (w/hotline information) have been mounted for distribution at the Building Department counter where all the pre-construction meetings are held.

Establish Stormwater Hotline

Responsible Party: Miles Slattery, Project Manager

Measurable Goal: Dedicated phone number established for use as storm water hotline

Start Date: 7/1/2006

End Date: 6/30/2007

Percentage of work that has been accomplished for this BMP: 100 %

Work performed for the BMP listed above

Date: 5/15/2006 Responsible Party: Miles Slattery, Project Manager
Stormwater Hotline

Established storm water hotline - 707.441.4192. Answered by Susan Hutchison and Pearl Mendoza, Public Works Administrative Assistants.

Date: 8/27/2008 Responsible Party: Miles Slattery, Project Manager
Region Wide Hotline Number

As a part of a SEP, the City of Eureka has established a region wide hotline number for all the MS4s in Humboldt County (1.877.NCSC.001). The number will have a call navigator system that prompts callers to direct the call to the appropriate MS4's hotline.

Date: 9/17/2008 Responsible Party: Miles Slattery, Project Manager
NCSC Magnets

The Stormwater Division purchased 3,000 refrigerator magnets (attached) for distribution at local events and workshops sponsored by the NCSC and Stormwater Division as a part of a SEP for the City.

Identify Staff to Implement Reaches to Beaches

Responsible Party: Miles Slattery, Project Manager

Measurable Goal: Training staff and schools identified for program participation.

Start Date: 7/1/2007

End Date: 6/30/2008

Percentage of work that has been accomplished for this BMP: 100 %

Work performed for the BMP listed above

Date: 12/15/2006 Responsible Party: Miles Slattery, Project Manager

Spring 2007 Reaches to Beaches

Contacted Denise Newman, author of Reaches to Beaches program. She agreed to teach the class to Robert Childs college-oriented Environmental Field Biology Class at Eureka High School starting in mid-January 2007.

Date: 6/22/2007 Responsible Party: Miles Slattery, Project Manager

Spring 2008 Reaches to Beaches

Denise Newman can no longer teach the Reaches to Beaches class. Miles contacted Christina Ernst, Humboldt Baykeeper Education Coordinator. She said she is willing to work with the City of Eureka in gaining approval of the curriculum as meeting the state standards for 8th grade and high school. The City and Baykeeper will try and coordinate more classes in local middle schools and high schools. She will also work with Robert Child's class, Eureka High School, in the 2007-2008 school year.

Date: 9/12/2008 Responsible Party: Miles Slattery, Project Manager

Fall 2008 Reaches to Beaches

Christina Ernst, Humboldt Baykeeper Education Coordinator, will be teaching Reaches to Beaches to all three of Marianne Lancaster's Eureka High School Marine Biology classes (juniors and seniors) during the Fall 2008 semester.

The curriculum was updated to meet California standards and be more appropriate for high school juniors and seniors by Christina Ernst. The class is a ten week class discussing watershed and stormwater related issues. Miles taught two classes discussing Eureka's stormwater program and water quality monitoring. The first class gave an overview of Eureka's program and an introduction to monitoring. The second class involved sampling in the stream adjacent to the high school. The City of Eureka a pH, conductivity and temperature meters for them to use in the field. The City also provided a spectrophotometer for the class to help the students analyze for nitrate and ammonia.

Date: 4/8/2009 Responsible Party: Christina Ernst, Education Coordinator

Spring 2009 Reaches to Beaches

In order to promote stormwater and water conservation education, the City of Eureka's Stormwater Division contracts with Christina Ernst to research, develop, coordinate, and present two classroom presentations at Washington Elementary School. These presentations will be included as a larger program to be offered to Eureka City School's fourth and fifth grade classes and teachers in the future. Initial research into the appropriate audience grade levels in relation to California State Content Standards and corresponding lesson options are also included.

Presentation of stormwater pollution lesson, April 8, 2009 to Heather Gaiera's fifth grade class at Washington Elementary School.

Date: 9/1/2009 Responsible Party: Miles Slattery, Project Manager

Fall 2009 Reaches to Beaches

Christina agreed to teach the class to two of Lucia Boyer's Marine Biology Classes (juniors and seniors) at Eureka High School starting on September 17, 2009. Marianne Lancaster (the previous teacher referred us).

The curriculum was updated to meet California standards and be more appropriate for high school juniors and seniors by Christina Ernst. The class is a ten week class discussing watershed and stormwater related issues. Miles will be teaching two classes to the classrooms discussing Eureka's stormwater program and water quality monitoring.

Date: 6/7/2010 Responsible Party: Amber Neilson, Education Coordinator

Sequoia Park World Oceans Week

In honor of World Oceans Day (June 8, 2010) the Sequoia Park Zoo's Education Coordinator provided storm-water pollution prevention demonstrations to visiting school groups during the week of June 7-11, 2010. The activity included a demonstration of how pollutants such as trash, oil, pesticides and fertilizers wash down storm drains into urban waterways and into the bay and ocean using the Enviro-Scape model purchased for stormwater education at the Zoo. Students were asked to identify how to prevent these pollutants from entering our waterways and were reminded that street drains are directly connected to bay and ocean environments.

The Association of Zoos and Aquariums provided free prizes for student participation. Prizes were based after Dr. Seuss' One Fish, Two Fish, Red Fish, Blue Fish story in celebration of the books 50th anniversary. Prizes included temporary tattoos, colorable crowns, book marks, buttons and an activity book.

Results see attached file for specifics and pictures):

Total #s served: 303 students + 42 adults =345

Specific School, grade level and numbers served:

- Grant Elementary, 1st, 60 students + 8 adults
- Zane Middle School, 7th & 8th, 20 students + 3 adults
- South Fortuna Elementary, K & 1st, 85 students + 11 adults
- Scotia Elementary, K, 26 students + 4 adults
- Greenpoint Elementary School (Blue Lake Charter), 1st-7th, 10 students + 2 adults
- Blue Lake Elementary, 2nd, 22 students + 4 adults
- Ridgewood Elementary, 2nd, 80 students + 10 adults

Implement Reaches to Beaches at Local Schools

Responsible Party: Miles Slattery, Project Manager

Measurable Goal: Program implemented in at least one school per year, with goal of providing program to each interested school within five years.

Start Date: 7/1/2007

End Date: 6/30/2011

Percentage of work that has been accomplished for this BMP: 100 %

Work performed for the BMP listed above

Date: 1/19/2007 Responsible Party: Miles Slattery, Project Manager

Spring 2007 Reaches to Beaches

Contacted Denise Newman, author of Reaches to Beaches program. She agreed to teach the class to Robert Childs college-oriented Environmental Field Biology Class at Eureka High School starting on January 19, 2007.

The class is a ten week class discussing watershed and stormwater related issues. Miles was involved with some monitoring efforts in the adjacent stream to the high school. Provided pH, conductivity and dissolved oxygen meter for them to use in the field. He also brought a spectrophotometer to class to help the students analyze for nitrite, nitrate and ammonia.

After the class, the students participated in a stewardship action plan consisting of storm drain marking.

Date: 2/7/2008 Responsible Party: Christina Ernst, Education Coordinator

Spring 2008 Reaches to Beaches

Christina agreed to teach the class to both of Marianne Lancaster's Marine Biology Classes (juniors and seniors) at Eureka High School starting on February 7, 2008.

The curriculum was updated to meet California standards and be more appropriate for high school juniors and seniors by Christina Ernst. The class is a ten week class discussing watershed and stormwater related issues. Miles taught two classes discussing Eureka's stormwater program and water quality monitoring. The first class gave an overview of Eureka's program and an introduction to monitoring. The second class involved sampling in the stream adjacent to the high school. The

City of Eureka and Humboldt Baykeeper provided pH, conductivity and temperature meters for them to use in the field. The City also provided a spectrophotometer for the class to help the students analyze for nitrate and ammonia.

At the end of the class, the students participated in a stewardship action plan consisting of characterizing the stream at Cooper Gulch after a creek enhancement project done by the City of Eureka and the Department of Fish and Game and storm drain marking in the Cooper Gulch neighborhood.

Date: 9/23/2008 Responsible Party: Miles Slattery, Project Manager
Fall 2008 Reaches to Beaches

Christina agreed to teach the class to all three of Marianne Lancaster's Marine Biology Classes (juniors and seniors) at Eureka High School starting on September 23rd, 2008.

The curriculum was updated to meet California standards and be more appropriate for high school juniors and seniors by Christina Ernst. The class is a ten week class discussing watershed and stormwater related issues. Miles taught two classes to all three classrooms discussing Eureka's stormwater program and water quality monitoring. The first class, November 4th, gave an overview of Eureka's program and an introduction to monitoring. The second class, November 18th, involved sampling in the stream adjacent to the high school. The City of Eureka provided a pH, conductivity and temperature meter for them to use in the field. The City also provided a spectrophotometer for the class to help the students analyze for nitrate and ammonia.

For the final class on 12/02/08, all three classrooms went on a field trip separately to Cooper Gulch Creek. Miles and Scott Bauer, Department of Fish and Game, discussed the creek enhancements the City of Eureka did for the adjacent skate park and went through a stream characteristic exercise to determine the health of the creek. The negative effects of development and stormwater runoff were discussed at length.

Christina did a follow up review of the material and administered a final test on the curriculum. Each of the students has a graduation requirement of performing volunteer work. Christina informed them about stream enhancement opportunities through Fish and Game as well as Eureka's Mayday Community Clean Up. Many of the students showed interest in both opportunities.

Date: 4/8/2009 Responsible Party: Christina Ernst, Education Coordinator
Spring 2009 Reaches to Beaches

In order to promote stormwater and water conservation education, the City of Eureka's Stormwater Division contracts with Christina Ernst to research, develop, coordinate, and present two classroom presentations at Washington Elementary School. These presentations will be included as a larger program to be offered to Eureka City School's fourth and fifth grade classes and teachers in the future. Initial research into the appropriate audience grade levels in relation to California State Content Standards and corresponding lesson options are also included.

Presentation of stormwater pollution lesson, April 8, 2009 to Heather Gaiera's fifth grade class at Washington Elementary School.

Date: 6/7/2010 Responsible Party: Amber Neilson, Education Coordinator
Sequoia Park World Oceans Week

In honor of World Oceans Day (June 8, 2010) the Sequoia Park Zoo's Education Coordinator provided storm-water pollution prevention demonstrations to visiting school groups during the week of June 7-11, 2010. The activity included a demonstration of how pollutants such as trash, oil, pesticides and fertilizers wash down storm drains into urban waterways and into the bay and ocean using the Enviro-Scape model purchased for stormwater education at the Zoo. Students were asked to identify how to prevent these pollutants from entering our waterways and were reminded that street drains are directly connected to bay and ocean environments.

The Association of Zoos and Aquariums provided free prizes for student participation. Prizes were based after Dr. Seuss' One Fish, Two Fish, Red Fish, Blue Fish story in celebration of the

books 50th anniversary. Prizes included temporary tattoos, colorable crowns, book marks, buttons and an activity book.

Results see attached file for specifics and pictures):

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- Greenpoint Elementary School (Blue Lake Charter), 1st-7th, 10 students + 2 adults
- Blue Lake Elementary, 2nd, 22 students + 4 adults
- Ridgewood Elementary, 2nd, 80 students + 10 adults

Date: 3/5/2011 Responsible Party: Amber Neilson, Education Coordinator

Project WET Training

Location of workshop: Sequoia Park Zoo

Workshop Theme: From Backyards to the Bay to the Faucet—the Incredible Journey of Water

Workshop goal: Provide local educators with activities and resources to teach students about preventing pollution from stormwater run-off and non-point source inputs within our urban watersheds.

No. of participants: 31(attached)

Length: 7 hours

Narrative (attached):

Based on evaluations (attached), participants were thrilled by their learning, networking and resources

derived from this teacher training. Participants ranged from formal public education teachers to charter school teachers and informal educators. The class was filled to over capacity (31 attended, 30 was the set max). One participant registered for CEUs. Participants were not charged for the training, but were required to submit a \$15 deposit of which was returned upon completion. All registrants completed the training and were reimbursed their deposit. Some interested teachers were turned away due to workshop capacity and others could not make it due to conflicting schedules. It was suggested that another training opportunity be offered in the fall. Based on their answer to a question in the evaluations, these teachers will reach a total number of 5717 students per year through their teaching. Following are some pictures from the event:

Date: 6/30/2011 Responsible Party: Allison Poklemba, Education and Marketing
ARCR Education Manager

Arcata Community Recycling Center has been contracted out by the City's Environmental Programs Division to provide waste reduction curriculum to our City schools. This year, they incorporated stormwater and marine debris curriculum to the program. For FY 2010-11, 55 classroom visits and tours of the recycling plant were performed, reaching 1,102 students. The curriculum is described on their web site www.arcatarecycling.org/AboutACRC/Educatioprogram.pdf. The final report is attached.

Date: 6/30/2011 Responsible Party: Amber Neilson, Education Coordinator
2010-11 Sequoia Park Zoo Curriculum

GRADES 4-5

California education standards met:

4th grade Life science 2b. pollutants enter the food chain, harming herbivores and carnivores (including humans).

5th grade Earth sciences 3b. when water evaporates, it turns into water vapor in the air

5th grade Earth sciences 3c. water vapor in the air moves from one place to another and can form fog or clouds and can fall to the earth as rain, hail, sleet, or snow.

MATERIALS

Water cycle poster
Enviroscape model and supplies
Storm drain sign
Pollution prevention flashcards
Marine biodegradation poster

ASSESSMENT

See assessment document. Note that the assessment adds at least 4 minutes to your presentation.

INTRO

Welcome everyone, today we are going to celebrate the ocean by talking about what an amazing place it is and how to keep it clean and healthy. We are also celebrating water, because what is the ocean full of? What else, can you guys tell me some animals that live in the ocean?

THE WATER CYCLE

What is the water cycle? Water is constantly moving. In nature water moves from the ocean into the clouds, a process called evaporation, from the clouds it falls as rain, a process called condensation, and then it is collected and transported; in groundwater, from mountain snow to creeks and rivers, and into the ocean. Plants and animals are a part of the water cycle too. The water you drink, that is in your cells and that you exhale is a part of the cycle.

What's another word for precipitation? Rain, snow, hail.

Watersheds. In Humboldt County, most of the water that falls on land ends up in streams and rivers and runs into the oceans. This is called a natural watershed.

Materials: water cycle poster

ENVIROSCAPE MODEL

You're a part of the watercycle and a part of the watershed.

We talked about how wildlife needs water, what do humans rely on water for? Drinking, bathing, transportation, gardens, seafood, recreation, jobs, wildlife, etc

Urban watersheds. Here in Eureka, we live in an urban watershed, which includes all the natural waterways as well as a system of pipes and drains.

Materials: Enviroscape model, water, five gallon bucket, seating, storm drain sign, towels.

Setup: Place all components on the model and pour a cup of water in the bay. Make sure pollutants are available, spray bottle is full, and collection tray is in place. Set out seats.

Storm Drains

The water in our sinks and toilets goes into the sewer system and is cleaned by the sewer treatment plant before being put in the bay. But Eureka's urban watershed is also made up of street gutters called storm drain, (show storm drain sign). Raise your hand if you have ever seen these signs on the curbside. Water from the storm drains, and anything floating in it, goes into our streams untreated and ends up in Humboldt Bay.

If there is garbage on the street where does it go? Into the storm drains and then the bay.

This is called pollution; do you know what pollution is? Anything in the wrong place can be a source of pollution. Fertilizer on your lawn is ok, fertilizer in the stream is pollution. Plastic bottle in the recycling bin is okay, but plastic in the ocean is pollution. Even soil can be pollution when a lot of it makes a stream muddy. With good habits we can prevent pollution.

What are possible sources of pollution in our community? Ask students to identify 5 sources of pollution, pollute the model accordingly (see prevention section for list of pollutants)

What is going to happen to all this pollution when it rains? Spray the model

Where is the pollution going? Pollution gets in the waterways and into the bay. This makes the water unhealthy for plants and animals, including me and you! Show kids the dirty water from tray.

What can we do to prevent pollution?

Use flashcards:

Make sure your garbage is secure and don't let it get too full. Make sure it gets picked up every week.

Dog (and other domestic animal) waste- Bag it and trash it! (And put fence around cows)

Garbage- Lid it and curb it!

Oil- Fix your leaks!

Soil- Feet and wheels stay on the trails!

Fertilizers and Pesticides- Minimal use! Responsible types and timing!

What happens when we don't prevent pollution? Does it just go away? Garbage, chemicals, and harmful amounts of organic material end up in the rivers and ocean. This can kill fish or make fish poisonous for other animals to eat, including humans! Birds and anything living in the water can get stuck in plastic or even eat it! Look how long it takes even for garbage to break down in the ocean.

Materials: Marine Debris Biodegradation poster

CLOSURE and REVIEW

Remind me, how is a storm drain different from the drain in your sink or shower?

How are you going to prevent storm water pollution?

Have the kids say in unison "don't pollute, keep our oceans clean" and thank them for being such an excellent audience and taking care of our environment.

Variations

GRADES 2-3

California education standards met:

2nd grade Earth sciences 3e. Students know that water is resource vital for human survival and everyday activities, including hydration, food, bathing, recreation and transportation.

3rd grade Physical sciences 1e. water goes through all three forms of matter during the water cycle; solid, liquid, gas.

3rd grade Physical sciences 1f. evaporation occurs from the watershed when water is heated and snow melt contributes to our local watershed.

3rd grade Life sciences 3c. by polluting, humans cause changes in the environment in which they live that are detrimental to humans and other organisms.

3rd grade Investigation and experimentation 5d. students predict the effect of rainfall on the enviroscape model when trash is present.

THE WATER CYCLE

Simplify; you cannot assume this age group is familiar with or understands the water cycle. Show them the poster and focus on precipitation and collection. Use the poster as a tool to explain a watershed.

What is precipitation?

ENVIROSCAPE MODEL

Are you a part of the watershed?

What do you use water for?

Where does that water go when we are done with it? That's right, the city is a part of the watershed too! We have a system of pipes and drains that carry most of the water we use to get cleaned at the sewer treatment plant.

If it rains on the street, where does the water go? Be sure they know what a gutter is. Explain storm drains and show the sign.

What happens if there is garbage on the street when it rains? Pollute the model, focus on garbage, dog feces and soil.

How do we prevent pollution? Use the flashcards for garbage, feces and soil.

CLOSURE

Remind me, how is a storm drain different from the drain in your sink or shower?

Why is this bad?

Have the kids say in unison "don't pollute, keep our oceans clean" and thank them for being such an excellent audience and taking care of our environment.

GRADES K-1

California education standards met:

Kindergarten Earth science 3a. students learn characteristics of our local watershed, including mountains, snowpack, rivers and streams, and Humboldt bay.

Kindergarten Earth science 3c. students identify water as a resource that is used in everyday life.

Kindergarten Investigation and Experimentation 4e. Students orally communicate observations about the enviroscape model.

1st grade Life sciences 2b. students know both plants and animals need water to survive and that animals eat other animals and plants.

Enviroscape model only. This age group does not understand storm water issues, the water cycle, or the definition of pollution (littering only). Keep it simple! And make it about them through guided questioning.

Intro Welcome everyone, today we are going to celebrate the ocean, like on your birthday we celebrate you and on mother's day we celebrate your mom. Today we are celebrating the ocean by talking about what an amazing place it is and how to keep it clean and healthy.

Presentation

1. We are also celebrating water, because what is the ocean full of?
2. What else is in the ocean, can you think of ocean animals?
3. Can you think of something that could get in the water that would make it unhealthy for animals?
4. Do you know what littering is? Pollute the model
5. What happens to the garbage now that it is raining? Spray model, show them the tray.
6. Is wildlife going to be healthy if the water looks like this? Do you want to swim in this water? Or drink it?
7. How can we keep the water clean? Use the garbage flashcard

Closure

- Remind me, what happens when it rains and there is garbage on the street?
- Why is that bad?
- What are you going to do with the wrappers out of your lunch box?
- Have the kids say in unison "don't pollute, keep our oceans clean" and thank them for being - - such an excellent audience and taking care of our environment.

Additional Kinesthetic Activities

GRADES 2/+

The Incredible Journey A great introduction the water cycle, where kids become a droplet of water whose fate in the water cycle is determined by the roll of a dice. For older kids, it is more education to identify as a molecule of water.

GRADES K-1

A-maze-ing Journey! Kids are a water droplet traveling downstream. They try to avoid getting polluted as they travel: The river is an area designated by chalk or ropes, and leads to an area designated 'ocean', the pollution is flour being thrown at the kids as they move down stream, and the animals are images attached to cones in the river and ocean.

NOTES

Due to the large number of kids in each presentation group and limited time available (10 minutes per), I found it best to engage the children through questioning, not by active participation in polluting the model. The children responded well to the demonstration and enjoyed being a part of

the discussion. It is too distracting for the kids if one stands up and gets special privileges.

I never successfully implemented the assessment aspect, in part due to time limitations and because I worked mostly with younger kids who did not have the faculties to perform the assessment in a meaningful way. It should be further investigated with older children (4th grade and up). For younger children, teacher involvement would be ideal; perhaps a questionnaire given to the children in the classroom before and after the presentation. The teacher will best be able to assess the impact that the presentation has had on their students.

Attached is a final report.

Pet Waste Kiosks

Responsible Party: Miles Slattery, Project Manager

Identify appropriate locations and install pet waste kiosks with signage and bag dispenser at appropriate parks and other public recreational areas within the City encouraging the public to pick up after their pet.

Measurable Goal: Install at least 5

Start Date: 7/1/2006

End Date: 6/30/2011

Percentage of work that has been accomplished for this BMP: 100 %

Work performed for the BMP listed above

Date: 6/22/2007 Responsible Party: Miles Slattery, Project Manager
Halverson Park

Installed a pet waste kiosk at Halverson Park. The dispenser has signage encouraging citizens to clean up after their pet.

Date: 8/1/2007 Responsible Party: Tom Coyle, Parks and Maintenance Manager
Lunbar Hills

Installed a pet waste kiosk at Lunbar Hills Park. A trash can was also installed and will be emptied periodically by City Parks Staff. The dispenser has signage encouraging citizens to clean up after their pet.

Date: 6/30/2010 Responsible Party: Miles Slattery, Project Manager
College of the Redwoods Satellite Facility

The Stormwater Division installed a cigarette butt receptacle at the CR satellite facility on 6th and K Streets (picture attached).

Date: 6/30/2010 Responsible Party: Miles Slattery, Project Manager
Boat Basin Cigarette Butt Receptacle

The Stormwater Division and the Harbor Division installed a cigarette butt receptacle at the boat basin (picture attached).

Date: 6/30/2010 Responsible Party: Miles Slattery, Project Manager
Waterfront Kiosks

The Stormwater Division and the Harbor Division installed 3 pet waste kiosks at the boat basin and along the waterfront (pictures attached).

Poster Distribution

Responsible Party: Miles Slattery, Project Manager

Distribute posters to school, city agencies, and general public.

Measurable Goal: 100% of school and government participation tracked

Start Date: 7/1/2007

End Date: 6/30/2011

Percentage of work that has been accomplished for this BMP: 100 %

Work performed for the BMP listed above

Date: 2/1/2006 Responsible Party: Louise Jeffrey, Environmental Health
Eureka Businesses Coordinator

Todd Harper from the County distributed posters to various automobile repair, hardware and paint businesses throughout Eureka.

Date: 8/12/2006 Responsible Party: Miles Slattery, Project Manager
Humboldt County Fair

Booth set up at Humboldt County Fair focusing on storm water issues, waste reduction and recycling. Handed out informational pamphlets, posters, and children's coloring books. Provided information about local area storm water programs as well as hotline numbers.

Date: 12/5/2006 Responsible Party: Miles Slattery, Project Manager
Local Business

Miles gave Barbera Schultz (707.441.1503), animal advocate and downtown business owner, 50 'Scoop the Poop' posters. She distributed them to local waterfront businesses and posted one in her deli.

Date: 1/1/2007 Responsible Party: Miles Slattery, Project Manager
City Facilities

Provided City of Eureka Stormwater Division 'Report It' posters for the Adorni Center, first and third floor of City Hall and the Wharfinger building.

Date: 3/19/2007 Responsible Party: Miles Slattery, Project Manager
Local Resident

Handed out six copies of the six stormwater posters and the report it poster to Michelle Hasiuk in the City's Finance Department to be posted around her neighborhood businesses.

Date: 8/6/2007 Responsible Party: Miles Slattery, Project Manager
Eureka High School

During a meeting concerning Reaches to Beaches, Miles Slattery gave Robert Childs laminated coalition posters (6) and a 'Report It' poster.

Date: 2/12/2008 Responsible Party: Miles Slattery, Project Manager
Sequoia Park Zoo

During a staff meeting, Miles Slattery gave Gretchen Ziegler, Zoo Manager, laminated stormwater education posters (6) and a 'Report It' poster to be posted on the message board at the zoo.

Date: 2/12/2008 Responsible Party: Miles Slattery, Project Manager
Eureka High School

At a meeting to discuss Reaches to Beaches, Miles gave Christina Ernst, Humboldt Baykeeper Education Coordinator, stormwater education posters (6) and a 'Report It' poster to be posted in Marianne Lancaster's biology class at Eureka High.

Date: 4/21/2008 Responsible Party: Miles Slattery, Project Manager
Washington Elementary

On 4/21/08, Miles responded to a stormwater complaint at Washington Elementary School about dog walkers not cleaning up after themselves. Miles spoke with Sue Costa, receptionist, and gave her some laminated 'Scoop the Poop' posters to post around the fields. She said she would need to get the OK from the district, and then she would post them.

Date: 8/14/2008 Responsible Party: Miles Slattery, Project Manager
Elk River Wastewater Treatment Plant

Miles Slattery gave Clay Yerby, Utilities Operations Manager, update (new web address) laminated stormwater education posters (6) and a 'Report It' poster to be posted around the plant and in the break room.

Date: 8/15/2008 Responsible Party: Miles Slattery, Project Manager
Humboldt Baykeeper

Provided updated (new web address) City of Eureka Stormwater Division 'Report It' poster to the Humboldt Baykeeper Office (217 E Street).

Date: 8/15/2008 Responsible Party: Miles Slattery, Project Manager

City Facilities

Provided updated (new web address) City of Eureka Stormwater Division 'Report It' posters for the Adorni Center, third floor of City Hall and the Wharfinger building.

Date: 9/23/2008 Responsible Party: Miles Slattery, Project Manager

Stormwater Posters Link

The updated stormwater posters (attached) were added to the webpage for community members to download and post.

Date: 4/8/2009 Responsible Party: Miles Slattery, Project Manager

Washington Elementary

At a meeting to discuss Reaches to Beaches, Miles gave Christina Ernst, Humboldt Baykeeper Education Coordinator, stormwater education posters (6) and a 'Report It' poster to be posted in Heather Gaiera's fifth grade class at Washington Elementary

Date: 9/9/2009 Responsible Party: Miles Slattery, Project Manager

Eureka High School

At a meeting to discuss Reaches to Beaches, Miles gave Christina Ernst, Humboldt Baykeeper Education Coordinator, stormwater education posters (6) and a 'Report It' poster to be posted in Lucia Boyer's biology class at Eureka High.

Date: 9/27/2009 Responsible Party: Christina Ernst, Education Coordinator

TACO Day (9-27-09)

Stormwater Detectives - 150 Participants

The Take a Child Outside Day event was the first of its kind held on the North Coast as part of the national program, Take a Child Outside Week which encourages parents, teachers, and caregivers to get children out into the natural world to participate in outdoor activities, engaging children's minds and bodies while fostering an appreciation for the environment. Many presenters were involved in this informational event, each tabling with five to fifteen minute interactive nature based activities. The event itself was open to the public from 10:00 am until 3:00 pm.

The City of Eureka, Stormwater Division activity called Stormwater Detectives was developed and presented by Christina Ernst with volunteer support from two Humboldt State University students and two California Conservation Corps members. Two tables with activities ran simultaneously, working with the Northcoast Environmental Center's watershed model and the California Coastal Commission's marine debris game.

The Northcoast Environmental Center's watershed model is an interactive, three dimensional model, with a flowing creek highlighting the causes and effects of stormwater pollution. The creek runs clear before simulated rain from spray bottles wielded by participating children washes cocoa powder as sediment from a clear cut, chocolate syrup and green food coloring off roads as motor oil and antifreeze, and chocolate sprinkles off pastures with grazing cattle as agricultural waste into the creek. The creek is left flowing cloudy and brown as it drains into the ocean.

This activity focused on teaching children and their parents about watershed and stormwater dynamics; the nature, scope, and effects of stormwater pollution as it moves through watersheds; and the actions we can all take to reduce and prevent stormwater pollution. North Coast Stormwater Coalition magnets and "Humboldt Bay Starts on Your Street" pamphlets were available for children and their families.

The following City of Eureka Stormwater Division posters were also presented, discussed, and made available:

Be Wiser About Fertilizer

Don't Spoil Our Waterways with Oil

Keep Toxics Away from Our Waterways

Scoop the Poop

Soap is for Dishes not for Fishes

Report Stormwater Pollution

Date: 10/2/2009 Responsible Party: Christina Ernst, Education Coordinator
Grant Elementary Presentation (10-2-09)
Stormwater Mapping Activity - 30 Students

This activity linked into a prior class presentation through Humboldt Baykeeper's Watershed Education and Training (WET) program, where students were given an introduction to stormwater pollution. In an effort to further students' understanding of how stormwater moves through their school's neighborhood, into sloughs, and ultimately the bay, a mapping activity was developed for the City of Eureka, Stormwater Division.

The activity involved five maps and a mapping activity worksheet which students completed in small groups and discussed together as a class after they completed the activity. Four of the maps were provided by the City of Eureka. Refer to the following mapping activity worksheet for details.

As well as tracing the movement of stormwater, the presentation also included a review of watershed and stormwater dynamics; the nature, scope, and effects of stormwater pollution as it moves through watersheds; and the actions we can all take to reduce and prevent stormwater pollution. The presentation ran approximately one hour and thirty minutes.

The following City of Eureka Stormwater Division posters were presented to and discussed with the class:

Be Wiser About Fertilizer
Don't Spoil Our Waterways with Oil
Keep Toxics Away from Our Waterways
Scoop the Poop
Soap is for Dishes not for Fishes
Report Stormwater Pollution

The classroom teacher was also provided with North Coast Stormwater Coalition magnets, Humboldt Bay Starts on your Street pamphlets, and the State Water Resources Control Board Citizen's Monitoring Program video--We All Live in a Watershed.

Date: 11/19/2009 Responsible Party: Miles Slattery, Project Manager
Humboldt Baykeeper
Provided City of Eureka Stormwater Division 'Report It' poster and six stormwater posters (cigarettes, fertilizer, car wash, oil, dog waste and toxics) to the Humboldt Baykeeper Office (217 E Street).

Date: 9/23/2010 Responsible Party: Miles Slattery, Project Manager
Restaurant Poster Distribution
On 9/23/10, Miles went with Brandon Bishop, Source Control Inspector, to distribute 'Stormwater Friendly Cleaning Practices' for restaurants. The posters were developed by the North Coast Stormwater Coalition as a part of the Prop 50 NP3 grant.

Inspections and presentations were given at the Golden Harvest Cafe and Village Pantry. Miles gave a brief 10 minute presentation about BMPs for restaurants and told the Managers to hang the posters in their kitchens. Inspection reports and poster are attached.

Date: 6/30/2011 Responsible Party: Miles Slattery, Project Manager
2010-11 Educational Materials
During this permit year, the City's stormwater flyer (w/hotline number) has been at the front desk of the water billing office and the the Public Works office. The Water Conservation Pamphlet has been displayed at the water billing office. All of the stormwater posters have been available on-line and at the Public Works office. The region wide hotline magnets are available at all the County's MS4's stormwater offices.

Also, all source control restaurant inspections have had the Stormwater Friendly Cleaning Practices(w/hotline number) poster distributed to be posted in local restaurant kitchens.

Date: 6/30/2011 Responsible Party: Miles Slattery, Project Manager
2010-11 Source Control Inspections

Miles provides Justin Boyes, Source Control Supervisor, BMP manuals for Automobile, Restaurant, Gas Station and Timber industries. Miles also supplies Justin's staff with the Stormwater Friendly Restaurant Practices poster. Justin and his staff distribute them to the commercial and industrial businesses they inspect.

Posters

Responsible Party: NCSWC Members, Active Members

Finalize six posters educating public on storm water impacts of pet wastes, leaking oil, hazardous waste disposal, car washing, cigarette butts, and fertilizers and pesticides.

Measurable Goal: Existing stormwater pollution prevention workplans identify

Start Date: 7/1/2006

End Date: 6/30/2007

Percentage of work that has been accomplished for this BMP: 100 %

Work performed for the BMP listed above

Date: 1/1/2006 Responsible Party: NCSWC Members, Active Members
Stormwater Posters

Six posters were finalized (attached) relating to pet waste, car washing, toxics, fertilizer, oil and cigarette butts.

Date: 1/1/2007 Responsible Party: Miles Slattery, Project Manager
Revised Posters

Miles revised the six stormwater posters to include City of Eureka information (hotline number, webpage and revised wording) and created a new 'Report It' poster (all attached).

Date: 9/23/2008 Responsible Party: Miles Slattery, Project Manager
Stormwater Posters Link

The updated stormwater posters (attached) were added to the webpage for community members to download and post.

Provide Free Educational Materials

Responsible Party: Miles Slattery, Project Manager

Provide free educational materials at City Hall.

Measurable Goal: Stormwater educational materials available at City Hall 100% of the time.

Start Date: 7/1/2007

End Date: 6/30/2011

Percentage of work that has been accomplished for this BMP: 100 %

Work performed for the BMP listed above

Date: 1/1/2007 Responsible Party: Miles Slattery, Project Manager
City Facilities

Provided City of Eureka Stormwater Division stormwater flyers and 'Report It' posters for the Adorni Center, first and third floor of City Hall and the Wharfinger building. Had administrative assistants at each location take Miles' phone number to notify when flyers run out.

Date: 3/14/2007 Responsible Party: Miles Slattery, Project Manager
Paving the Way for Rain Workshop

Handed out stormwater brochures and construction related education material at the 'Paving the

Way for Rain' workshop. It was a full day workshop on permeable pavement. Morning session was an overview of permeable pavement and the four different pavement types (pervious concrete, pervious asphalt, interlocking concrete pavers and reinforced grass pavement). Afternoon session was a series of technical sessions explaining installation, cost and performance.

Date: 9/29/2007 Responsible Party: NCSWC Members, Active Members

Maritime Expo

The Coalition had a booth at the Maritime Expo on Woodley Island. Attendees were asked to take part in a stormwater pollution quiz to win stormwater pollution magnets and posters provided by the Coastal Commission. The coalition's stormwater posters and other information were also available at the booth. The event was held from 10am to 4pm and approximately 300 people attended the Expo.

Date: 11/2/2007 Responsible Party: NCSWC Members, Active Members

Construction Site Stormwater Management Workshop

The North Coast Stormwater Coalition sponsored a workshop for construction site stormwater management. The morning session included presentations on construction site BMPs (Craig Benson, RCAA), constructing roadways and driveways (Tyler Ledwith, RCAA) and local ordinance compliance (Miles Slattery, City of Eureka). The afternoon session provided two options. There was hands on erosion and sediment control BMP installation training or EPA certified construction site stormwater management training. During the workshop, the City of Eureka Construction Site BMP pamphlets (19 BMP pamphlets) were made available to attendees. 91 people attended the conference. 26 attended the BMP installation training, and 54 attended the stormwater manager training.

Date: 12/4/2007 Responsible Party: NCSWC Members, Active Members

Landscape Design with Stormwater in Mind

The North Coast Stormwater Coalition sponsored a workshop for landscape professionals and residents. The conference included presentations on local ordinance compliance (Miles Slattery, City of Eureka), the landscape/stormwater connection (Loren Oki, UC Cooperative Extension), creating a balance with IPM (Annie Joseph, OWOW), landscape features that minimize runoff (Loren Oki, UC Cooperative Extension), less toxic lawns and alternatives (Deborah Giraud, UC Cooperative Extension) and sustainable landscape (Donna Wildearth, Wildearth Designs). During the workshop, local nurseries, landscape supply companies and the NCSWC handed out stormwater friendly BMP material and educational material. 72 people attended the conference.

Date: 6/10/2008 Responsible Party: Miles Slattery, Project Manager

City Hall

The 19 Construction Site BMP Pamphlets were mounted at the Building Department counter where all the pre-construction meetings are held.

Date: 11/12/2008 Responsible Party: NCSWC Members, Active Members

Stormwater Safe Vehicle Maintenance and Repair

The North Coast Stormwater Coalition sponsored a workshop for Stormwater Safe Vehicle Maintenance and Repair from 4-7pm on 11/12/08. The agenda was as follows:

4:15 - 5:15: Vehicle Service and Repair Practices

Presenter: Natalie Marcanio with Dept. of Toxic Substance Control

Topics include: Aqueous Parts Cleaning and Brake Washing, Oil Life Extension, Oil Water Separators, Fleet Management, Spill Prevention and Cleanup

5:20 - 6:15: Automotive Paint and Body Work

Presenter: Eugene Mathis with Dept. of Toxic Substance Control

Topics include: Paint Spray Gun Cleaning and Waste Minimization, HazMat Management, Sanding Waste Management, Wastewater Management, Solvent Recycling, Waterborne Coatings

6:20 - 7:00: Discussion Panel/ Q & A forum

Twenty-eight people were in attendance. Miles Slattery of the Stormwater Division was a member of the Q&A Panel and also received the training information so he could distribute it to the

automobile shops within the City of Eureka. A DVD and information package of all the information presented was distributed at the end of the workshop. Miles received copies of this information and has it available at his office in City Hall.

Date: 1/1/2009 Responsible Party: Gary Bird, Special Projects Manager
Mandatory Garbage-Recycling Program

On June 3, 2008, the Eureka City Council adopted a Universal Garbage and Recycling collection ordinance. The ordinance was adopted by the City to help us meet State waste reduction mandates, and to reduce illegal disposal and public health hazards currently plaguing our neighborhoods. The program went into effect on January 1, 2009.

Included in the mandatory service is a twice a year bulky item pick-up for all residents. This includes e-waste, furniture, appliances, etc. This will reduce illegal dumping in the City and decrease potential stormwater pollution sources.

Date: 6/30/2009 Responsible Party: Miles Slattery, Project Manager
2008-09 Educational Materials

During this permit year, the City's stormwater flyer has been at the front desk of the water billing office, the Public Works office and the Wharfinger Building. The Water Conservation Pamphlet has been displayed at the water billing office. All of the stormwater posters have been available on-line and at the Public Works office. The region wide hotline magnets are available at all the County's MS4's stormwater offices.

Date: 6/30/2009 Responsible Party: Miles Slattery, Project Manager
2008-09 NCSC Meetings

Miles is the Chairperson for the North Coast Stormwater Coalition. He coordinates and hosts all of the meetings. The Coalition meets once a month and discusses ways to reduce stormwater pollution in local streams, rivers, Humboldt Bay and the ocean through public education and outreach, coordinating pollution prevention efforts and implementing pollution control measures. The Coalition consists of all four Phase II municipalities in the area, local businesses, non-profits and residents. This year Mendocino County Water Authority and the City of Fort Bragg became members and participate via teleconference in the meetings. There are now 57 members representing 28 different organizations throughout the area.

Date: 6/30/2009 Responsible Party: Miles Slattery, Project Manager
2008-09 Construction Site BMP Pamphlets

The 19 Construction Site BMP Pamphlets have been mounted for distribution at the Building Department counter where all the pre-construction meetings are held.

Date: 9/27/2009 Responsible Party: Christina Ernst, Education Coordinator
TACO Day (9-27-09)

Stormwater Detectives - 150 Participants

The Take a Child Outside Day event was the first of its kind held on the North Coast as part of the national program, Take a Child Outside Week which encourages parents, teachers, and caregivers to get children out into the natural world to participate in outdoor activities, engaging children's minds and bodies while fostering an appreciation for the environment. Many presenters were involved in this informational event, each tabling with five to fifteen minute interactive nature based activities. The event itself was open to the public from 10:00 am until 3:00 pm.

The City of Eureka, Stormwater Division activity called Stormwater Detectives was developed and presented by Christina Ernst with volunteer support from two Humboldt State University students and two California Conservation Corps members. Two tables with activities ran simultaneously, working with the Northcoast Environmental Center's watershed model and the California Coastal Commission's marine debris game.

The Northcoast Environmental Center's watershed model is an interactive, three dimensional model, with a flowing creek highlighting the causes and effects of stormwater pollution. The creek runs clear before simulated rain from spray bottles wielded by participating children washes cocoa powder as sediment from a clear cut, chocolate syrup and green food coloring off roads as motor

oil and antifreeze, and chocolate sprinkles off pastures with grazing cattle as agricultural waste into the creek. The creek is left flowing cloudy and brown as it drains into the ocean.

This activity focused on teaching children and their parents about watershed and stormwater dynamics; the nature, scope, and effects of stormwater pollution as it moves through watersheds; and the actions we can all take to reduce and prevent stormwater pollution. North Coast Stormwater Coalition magnets and "Humboldt Bay Starts on Your Street" pamphlets were available for children and their families.

The following City of Eureka Stormwater Division posters were also presented, discussed, and made available:

Be Wiser About Fertilizer
Don't Spoil Our Waterways with Oil
Keep Toxics Away from Our Waterways
Scoop the Poop
Soap is for Dishes not for Fishes
Report Stormwater Pollution

Date: 10/2/2009 Responsible Party: Christina Ernst, Education Coordinator
Grant Elementary Presentation (10-2-09)
Stormwater Mapping Activity - 30 Students

This activity linked into a prior class presentation through Humboldt Baykeeper's Watershed Education and Training (WET) program, where students were given an introduction to stormwater pollution. In an effort to further students' understanding of how stormwater moves through their school's neighborhood, into sloughs, and ultimately the bay, a mapping activity was developed for the City of Eureka, Stormwater Division.

The activity involved five maps and a mapping activity worksheet which students completed in small groups and discussed together as a class after they completed the activity. Four of the maps were provided by the City of Eureka. Refer to the following mapping activity worksheet for details.

As well as tracing the movement of stormwater, the presentation also included a review of watershed and stormwater dynamics; the nature, scope, and effects of stormwater pollution as it moves through watersheds; and the actions we can all take to reduce and prevent stormwater pollution. The presentation ran approximately one hour and thirty minutes.

The following City of Eureka Stormwater Division posters were presented to and discussed with the class:

Be Wiser About Fertilizer
Don't Spoil Our Waterways with Oil
Keep Toxics Away from Our Waterways
Scoop the Poop
Soap is for Dishes not for Fishes
Report Stormwater Pollution

The classroom teacher was also provided with North Coast Stormwater Coalition magnets, Humboldt Bay Starts on your Street pamphlets, and the State Water Resources Control Board Citizen's Monitoring Program video--We All Live in a Watershed.

Date: 11/19/2009 Responsible Party: Miles Slattery, Project Manager
Humboldt Baykeeper
Provided City of Eureka Stormwater Division 'Report It' poster and six stormwater posters (cigarettes, fertilizer, car wash, oil, dog waste and toxics) to the Humboldt Baykeeper Office (217 E Street).

Date: 6/30/2010 Responsible Party: Miles Slattery, Project Manager
2009-10 Educational Materials

During this permit year, the City's stormwater flyer has been at the front desk of the water billing office, the Public Works office and the Wharfinger Building. The Water Conservation Pamphlet has been displayed at the water billing office. All of the stormwater posters have been available on-line and at the Public Works office. The region wide hotline magnets are available at all the County's MS4's stormwater offices.

Date: 6/30/2010 Responsible Party: Miles Slattery, Project Manager
2009-10 NCSC Meetings

Miles is the Chairperson for the North Coast Stormwater Coalition. He coordinates and hosts all of the meetings. The Coalition meets once a month and discusses ways to reduce stormwater pollution in local streams, rivers, Humboldt Bay and the ocean through public education and outreach, coordinating pollution prevention efforts and implementing pollution control measures. The Coalition consists of all four Phase II municipalities in the area, two Phase II municipalities from Mendocino, local businesses, non-profits and residents. This year Mendocino County Water Authority and the City of Fort Bragg became members and participate via teleconference in the meetings. There are now 56 members representing 29 different organizations throughout the area.

Date: 6/30/2010 Responsible Party: Miles Slattery, Project Manager
2009-10 Construction Site BMP Pamphlets

The 19 Construction Site BMP Pamphlets have been mounted for distribution at the Building Department counter where all the pre-construction meetings are held.

Date: 9/23/2010 Responsible Party: Miles Slattery, Project Manager
Restaurant Poster Distribution

On 9/23/10, Miles went with Brandon Bishop, Source Control Inspector, to distribute 'Stormwater Friendly Cleaning Practices' for restaurants. The posters were developed by the North Coast Stormwater Coalition as a part of the Prop 50 NP3 grant.

Inspections and presentations were given at the Golden Harvest Cafe and Village Pantry. Miles gave a brief 10 minute presentation about BMPs for restaurants and told the Managers to hang the posters in their kitchens. Inspection reports and poster are attached.

Date: 11/30/2010 Responsible Party: Miles Slattery, Project Manager
Restaurant Poster Distribution

From 11/30/10 - 12/8/10, Brandon Bishop, Source Control Inspector, distributed 'Stormwater Friendly Cleaning Practices' for restaurants. The posters were developed by the North Coast Stormwater Coalition as a part of the Prop 50 NP3 grant.

Inspections and presentations were given at the Chalet House of Omelettes, Mazzotti's, Target Diner, Obento's Sushi, Big Pete's Pizza, McDonalds, Restaurant Hana and Roy's Club. Brandon gave a brief 10 minute presentation about BMPs for restaurants and told the Managers to hang the posters in their kitchens. Inspection reports and poster are attached.

Date: 3/17/2011 Responsible Party: Miles Slattery, <Unknown>
Phase II Presentation for QSD-QSP Training

Enplan held a QSD/QSP training at Greenway Partners offices in Arcata. Miles came in and gave a 30 minute presentation about the Phase II program and the pending permit renewal.

Date: 6/30/2011 Responsible Party: Miles Slattery, Project Manager
2010-11 NCSC Meetings

Miles is the Chairperson for the North Coast Stormwater Coalition. He coordinates and hosts all of the meetings. The Coalition meets once a month and discusses ways to reduce stormwater

pollution in local streams, rivers, Humboldt Bay and the ocean through public education and outreach, coordinating pollution prevention efforts and implementing pollution control measures. The Coalition consists of all four Phase II municipalities in the area, two Phase II municipalities from Mendocino, local businesses, non-profits and residents. There are now 59 members representing 29 different organizations throughout the area.

Date: 6/30/2011 Responsible Party: Miles Slattery, Project Manager
2010-11 Construction Site BMP Pamphlets

The 19 Construction Site BMP Pamphlets (w/hotline information) have been mounted for distribution at the Building Department counter where all the pre-construction meetings are held.

Date: 6/30/2011 Responsible Party: Miles Slattery, Project Manager
2010-11 Educational Materials

During this permit year, the City's stormwater flyer (w/hotline number) has been at the front desk of the water billing office and the the Public Works office. The Water Conservation Pamphlet has been displayed at the water billing office. All of the stormwater posters, BMP manuals, ordinances and annual reports have been available on-line and at the Public Works office. The region wide hotline magnets are available at all the County's MS4's stormwater offices.

Also, all source control restaurant inspections have had the Stormwater Friendly Cleaning Practices(w/hotline number) poster distributed to be posted in local restaurant kitchens.

Storm Drain Design Standards

Responsible Party: Miles Slattery, Project Manager

Amend storm drain design standards to require developers to install cast iron embossed covers with a no dumping message on all new storm drains

Measurable Goal: 100% compliance

Start Date: 7/1/2007

End Date: 6/30/2011

Percentage of work that has been accomplished for this BMP: 100 %

Work performed for the BMP listed above

Date: 1/4/2008 Responsible Party: Miles Slattery, Project Manager
Amended Engineering Standards

Miles worked with Brian Stringer, Hilfiker Pipes (local precast manufacturer for DIs), to develop an embossed, stainless steel "No Dumping" sign (picture attached) that will be placed in all pre-casted DIs for the area. Miles also worked with Kurt Gierlich, City of Eureka Assistant City Engineer, to update Engineering's design standards to include the "No Dumping" design specifications.

Date: 8/11/2008 Responsible Party: Kurt Gierlich, City Engineer
Engineering Standards

The City Engineer position was just filled. Kurt Gierlich is the new City Engineer. The draft version of the updated engineering standards for 2008 have the embossed, stainless steel "No Dumping" placards (picture attached) as a standard for new DIs.

On 08/11/08, Miles met with Kurt. Kurt stated that the engineering standards have been a work in progress for the past 10 years. He is in the proces of finishing up the 'Drainage Inlet' standard and has incorporated the "No Dumping" placards, or approved equivalent, into the standards. Kurt said the standards will be enforced at the beginning of September '08.

Storm Drain Marking Events

Responsible Party: Miles Slattery, Project Manager

Coordinate with County Used Oil Program, Reaches to Beaches students, and City Pre-Treatment Coordinator on storm drain stenciling opportunities

Measurable Goal: 100% of storm drains stenciled by end of permit term

Start Date: 7/1/2006

End Date: 6/30/2011

Percentage of work that has been accomplished for this BMP: 100 %

Work performed for the BMP listed above

Date: 5/18/2007 Responsible Party: Denise Newman, Teacher

2007 Reaches to Beaches

For the stewardship action plan of the Reaches to Beaches program, the students chose to mark storm drains around the Eastwood neighborhood by the high school. The students marked 9 storm drains.

Date: 3/4/2008 Responsible Party: Miles Slattery, Project Manager

Keep California Beautiful

In conjunction with Caltrans, the local Boy's and Girl's Club and the City of Eureka, Miles took Boys and Girls Club members out to mark six storm drains in their neighborhood with 'No Dumping' placards. Over 40 volunteers were present to clean up litter and mark storm drains.

Date: 4/3/2008 Responsible Party: Miles Slattery, Project Manager

2008 Reaches to Beaches

At the end of Reaches to Beaches with two of Marianne Lancaster's Marine Biology classes, the students participated in a stewardship action plan consisting of characterizing the stream at Cooper Gulch after a creek enhancement project done by the City of Eureka, and followed with storm drain marking in the Cooper Gulch neighborhood (pictures attached). Scott Bauer, Department of Fish and Game, spoke to the two classes about developments effect on streams like Cooper Gulch and waht the enhancement project will do to counteract those effects.

Date: 6/7/2008 Responsible Party: Marianne Lancaster, Biology Teacher

Reaches to Beaches Stewardship Action Plan

At the end of Reaches to Beaches, a group of students participated in a stewardship action plan consisting of storm drain marking around town (pictures attached). Students marked the folowing locations:

Harris and P
Buhne and Q
Buhne and P
18th and Montecito Way
Myrtle and Park
Lafayette School on Park Street
Myrtle and McFarlan
6th and L
Hodgeson and O
Excelsior and Layman
Excelsior and Gage
Cedar Street
Liberty Bell
Buhne and O
Hall and Myrtle
Harrison and 23rd
2600 Hall Street
2742 Myrtle
2127 Harrison
Harrison and Munson

Date: 5/12/2010 Responsible Party: Miles Slattery, Project Manager

Quality Bodyworks

The owner of Quality Bodyworks in Eureka wanted to mark his DIs. Miles provided placards for him.

Date: 6/25/2010 Responsible Party: Miles Slattery, Project Manager
Department of Fish and Game

Scott Bauer called to get storm drain placards for the DI's on their property on 2nd Street. He sent an Americorp member to Miles' office to retrieve them. Scott said he would install them.

Date: 6/30/2010 Responsible Party: Miles Slattery, Project Manager
2009-10 Forever Friends

Forever Friends is a local group of volunteers. Dana Schatz, Director, met with Miles on May 11, 2009 to discuss storm drain marking throughout the City. Dana was interested in a long term project. Miles told her that the majority of the City has been marked, but there isn't an accurate inventory of all the DIs and those that have been marked. Dana agreed have her volunteers mark the unmarked DIs and keep an inventory of them on mapbooks, as well as notify Miles of DIs that aren't in the City's inventory by marking up map books.

Miles worked with Riley Topolewski to create map books with all the DI's mapped in the City. Miles forwarded 6 copies of the mapbooks, provided all the supplies for marking and trained the volunteers on how to mark the drains and keep the inventory. Forever Friends will be canvassing the City and marking all of the unmarked DIs and keeping track of all of the marked DIs in the mapbooks. The project began on July 1st, 2009 and will be ongoing until all the DIs have been marked and inventoried.

Date: 5/7/2011 Responsible Party: Miles Slattery, Project Manager
4H Club Drain Marking

The Forever Friends agreement dissolved and wasn't working out for them. So the Stormwater Division actively pursued another interested volunteer group.

4H is a local group of volunteers. Sandy Sathrum, Volunteer Coordinator, met with Miles to discuss storm drain marking throughout the City. Sandy was interested in a long term project. Miles told her that the majority of the City has been marked, but there isn't an accurate inventory of all the DIs and those that have been marked. Sandy agreed have her volunteers mark the unmarked DIs and keep an inventory of them on mapbooks, as well as notify Miles of DIs that aren't in the City's inventory by marking up map books. The 5th Annual Mayday Community Clean Up was the kick off of the program.

Miles worked with Riley Topolewski to create map books with all the DI's mapped in the City. Miles forwarded 6 copies of the mapbooks, provided all the supplies for marking and trained the volunteers on how to mark the drains and keep the inventory. the 4H Club will be canvassing the City and marking all of the unmarked DIs and keeping track of all of the marked DIs in the mapbooks. In September 2011, 4H volunteers reported that they have completed 95% of the marking and will be finished by the end of October.

Survey Schools for Reaches to Beaches

Responsible Party: City of Eureka

Survey all schools in City for interest in participation in program.

Measurable Goal: 100% of schools contacted and response on interest obtained

Start Date: 7/1/2006

End Date: 6/30/2007

Percentage of work that has been accomplished for this BMP: 100 %

Work performed for the BMP listed above

Date: 4/11/2006 Responsible Party: Miles Slattery, Project Manager
Spring 2007 Eureka High School Biology Class

E-mailed Robert Childs of Eureka City Schools about Reaches to Beaches Program. Forwarded

him the educational material I received from RCAA, Morguine Flynn-Sousa. He said he is interested and to get a hold of him during the fall semester.

Date: 12/12/2007 Responsible Party: Miles Slattery, Project Manager
Spring 2008 Eureka High School Marine Biology Class

Christina Ernst, Humboldt Baykeeper's Education Coordinator, and Miles Slattery met with Marianne Lancaster to discuss implementing Reaches to Beaches in both of her Marine Biology Classes at Eureka High School. Marianne expressed interest and the class began, 02/07/08.

Date: 9/12/2008 Responsible Party: Miles Slattery, Project Manager
Fall 2008 Eureka High School Marine Biology Class

Christina Ernst, Humboldt Baykeeper's Education Coordinator, met with Marianne Lancaster to discuss implementing Reaches to Beaches in three of her Marine Biology Classes at Eureka High School. Marianne expressed interest and the class begins, 09/23/08.

On 09/12/08, Miles met with Christina to update the Reaches to Beaches Journal. Miles had the journals printed and gave them to Christina on 09/22/08.

Date: 10/2/2008 Responsible Party: Miles Slattery, Project Manager
City of Eureka Elementary Schools

The Stormwater Division has been trying to implement stormwater and water conservation curriculum at the elementary school level. Miles Slattery has been working with Bob Munther, Eureka City Schools Assistant Superintendent, to set up a meeting with the principals of the schools.

On 10/02/08, Miles and Christina Ernst met with the principals and presented information about the Reaches to Beaches and water conservation curriculum the City would like to implement at the 4th and 5th grade levels. The principals were interested, but felt the teachers would need to be involved. Christina said that would not be a problem. Miles will follow up.

Date: 4/8/2009 Responsible Party: Christina Ernst, Education Coordinator
Spring 2009 Reaches to Beaches

In order to promote stormwater and water conservation education, the City of Eureka's Stormwater Division contracts with Christina Ernst to research, develop, coordinate, and present two classroom presentations at Washington Elementary School. These presentations will be included as a larger program to be offered to Eureka City School's fourth and fifth grade classes and teachers in the future. Initial research into the appropriate audience grade levels in relation to California State Content Standards and corresponding lesson options are also included in this invoice.

Presentation of stormwater pollution lesson, April 8, 2009 to Heather Gaiera's fifth grade class at Washington Elementary School.

Date: 9/1/2009 Responsible Party: Miles Slattery, Project Manager
Fall 2009 Reaches to Beaches

Christina agreed to teach the class to two of Lucia Boyer's Marine Biology Classes (juniors and seniors) at Eureka High School starting on September 17, 2009. Marianne Lancaster (the previous teacher referred us).

The curriculum was updated to meet California standards and be more appropriate for high school juniors and seniors by Christina Ernst. The class is a ten week class discussing watershed and stormwater related issues. Miles will be teaching two classes to the classrooms discussing Eureka's stormwater program and water quality monitoring.

Date: 9/15/2009 Responsible Party: Miles Slattery, Project Manager
City of Eureka Elementary Schools

The Stormwater Division has been trying to implement stormwater and water conservation curriculum at the elementary school level. Miles Slattery submitted a letter to Richard Lentz, Eureka City Schools new Assistant Superintendent of Educational Services, to inquire about implementing stormwater (Reaches to Beaches) and water conservation curriculum at the fifth grade level. Included in the letter was a brief description of the curricula and four invitation letters

addressed to the four principals of the local elementary schools.

Tracking Mechanism for Stormwater Hotline

Responsible Party: Miles Slattery, Project Manager

Establish tracking mechanism for use by Hotline Operator to track complaint and action taken.

Measurable Goal: Tracking mechanism in place.

Start Date: 7/1/2006

End Date: 6/30/2007

Percentage of work that has been accomplished for this BMP: 100 %

Work performed for the BMP listed above

Date: 5/15/2006

Responsible Party: Miles Slattery, Project Manager

ASIST Database

Hotline operator, Susan Hutchison and Pearl Mendoza, enters stormwater hotline complaint into the already existing Public Works' Trackit software as a stormwater issue. All stormwater issues in Trackit are forwarded to Miles Slattery, Project Manager Stormwater Division, via Trackit. Miles documents the complaint and action taken into the ASIST database. All hotline complaints are then reported using ASIST.

Public Involvement and Participation

Details of BMPs and Work Performed for Them

Community Spring Cleanup Day

Responsible Party: Miles Slattery, Project Manager

Advertise the Community Spring Cleanup Day and hold event to clean up City Parks, neighborhoods, waterfront and streams.

Measurable Goal: Cleanup Day held each year and advertised in at least three local media outlets annually.

Start Date: 7/1/2006

End Date: 6/30/2011

Percentage of work that has been accomplished for this BMP: 100 %

Work performed for the BMP listed above

Date: 5/19/2007 Responsible Party: Miles Slattery, Project Manager
City of Eureka Mayday Community Clean Up

In an effort to promote community enhancement and encourage awareness of stormwater issues, the City of Eureka sponsored a community clean up event along Eureka's waterfront. On Saturday, May 19th, volunteers met at Halverson Park, Eureka Boardwalk, Palco Marsh and Elk River Wildlife Sanctuary. Volunteers were provided trash bags and pickers, as well as refreshments. The event was advertised in the Eureka Reporter, Times Standard, KHUM, KSLG and channel 3 news.

All participants received a City of Eureka Mayday Community Clean Up sports bottle and t-shirt. After the clean up, a volunteer appreciation event was held on the Boardwalk with live music and a BBQ. During the volunteer appreciation event, an opportunity drawing was held for gift certificates provided by City of Eureka merchants.

The inaugural Mayday Community Clean Up enjoyed great success. Five local organizations and over 160 volunteers participated in the event to remove over 5,200 pounds of trash from Eureka's waterfront.

Date: 5/17/2008 Responsible Party: Miles Slattery, Project Manager
2nd Annual Mayday Community Clean Up

In an effort to promote community enhancement and encourage awareness of stormwater issues, the City of Eureka sponsored a community clean up event along Eureka's waterfront. On Saturday, May 17th, volunteers met at Halverson Park, Eureka Boardwalk, Palco Marsh and Elk River Wildlife Sanctuary. Volunteers were provided trash bags and pickers, as well as refreshments. The event was advertised in the Eureka Reporter, Times Standard, Northcoast Journal, KHUM, KSLG and the Point.

All participants received a City of Eureka Mayday Community Clean Up sports bottle and t-shirt. After the clean up, a volunteer appreciation event was held on the Boardwalk with live music and a BBQ. During the volunteer appreciation event, an opportunity drawing was held for gift certificates provided by City of Eureka merchants.

The 2nd Annual Mayday Community Clean Up enjoyed great success. Eight local organizations and 114 volunteers participated in the event to remove over 4,600 pounds of trash from Eureka's waterfront.

Date: 6/7/2008 Responsible Party: Miles Slattery, Project Manager
Elk River Clean Up

After the Mayday Clean Up event, Elk River Wildlife Sanctuary still had a significant amount of debris and homeless encampments. Miles coordinated with the California Conservation Corps and

had two - 20 yard trash bins dropped of at Elk River for a follow up clean up event. The volunteers removed an additional 7,020 pounds of trash.

Date: 5/16/2009 Responsible Party: Miles Slattery, Project Manager
3rd Annual Mayday Community Clean Up

In an effort to promote community enhancement and encourage awareness of stormwater issues, the City of Eureka sponsored a community clean up event along Eureka's waterfront. On Saturday, May 16th, volunteers met at Halvorson Park, Eureka Boardwalk, Palco Marsh and Elk River Wildlife Sanctuary. Volunteers were provided trash bags and pickers, as well as refreshments. The event was advertised in the Eureka Reporter, Times Standard, Northcoast Journal, all local radio stations and local network television.

All participants received a City of Eureka Mayday Community Clean Up sports bottle and t-shirt. After the clean up, a volunteer appreciation event was held on the Boardwalk with live music and a BBQ. During the volunteer appreciation event, an opportunity drawing was held for gift certificates provided by City of Eureka merchants.

The event enjoyed its greatest success to date. Twenty local merchants donated food and/or gifts for the volunteers. Seventeen local organizations and over 230 volunteers participated in the event to remove over 7,700 pounds of trash from Eureka's waterfront.

Date: 8/7/2009 Responsible Party: Miles Slattery, Project Manager
New Directions Library Clean Up

On August 7th, New Directions (John Shelter, Director and three other members) came to the site behind the County Library where homeless encampments have been a pervasive problem, spoke with some of the homeless, discussed the environmental impact their causing, provided them with alternatives and cleaned up all the debris (pictures attached). They encountered one camper that had some mental issues and was defecating at his site. Mr. Shelter gave him a shovel and two five gallon buckets to clean up his feces. At their follow up visit, the camper complied and Sewer Collection staff properly disposed of the contents. New Directions made return visits and performed the same services as the initial visit. The amount of debris and environmental issues have significantly decreased to the point of the last visit on August 18th there was only 3 gallons of trash and 3 gallons of recyclables. Their final visit will be this Friday. All trash was disposed of by the City. We provided a dumpster the first visit and removed the trash from the follow up visits.

Date: 9/1/2009 Responsible Party: Miles Slattery, Project Manager
2009-2010 New Directions Clean Up

Beginning September 1, 2009, New Directions (John Shelter, Director) and the City developed an agreement to have New Directions concentrate on cleaning up the the trash and educating the campers in Palco Marsh. New Directions posts sign at camps letting the campers know that they will be back to clean the area. They come back, clean the area and council the campers about those programs that are available to help those that are houseless. New Directions makes return visits and performs the same services as the initial visit. The amount of debris and environmental issues have significantly decreased. All trash is disposed of by the City.

Date: 5/8/2010 Responsible Party: Miles Slattery, Project Manager
4th Annual Mayday Community Clean Up

In an effort to promote community enhancement and encourage awareness of stormwater issues, the City of Eureka sponsored a community clean up event along Eureka's waterfront. On Saturday, May 8th, volunteers met at Halvorson Park, Eureka Boardwalk, Palco Marsh and Elk River Wildlife Sanctuary. Volunteers were provided trash bags and pickers, as well as refreshments. The event was advertised in the Eureka Reporter, Times Standard, Northcoast Journal, all local radio stations and local network television.

All participants received a City of Eureka Mayday Community Clean Up sports bottle and t-shirt. After the clean up, a volunteer appreciation event was held on the Boardwalk with live music and a BBQ. During the volunteer appreciation event, an opportunity drawing was held for gift certificates provided by City of Eureka merchants.

The event enjoyed its greatest success to date. Eighteen local merchants donated food and/or gifts for the volunteers. Fourteen local organizations and 250 volunteers participated in the event to remove over 10,000 pounds of trash from Eureka's waterfront.

Date: 6/30/2010 Responsible Party: Miles Slattery, Project Manager
2009-10 Humboldt Fish Action Council Clean Ups

Miles coordinated with Fish Action Council's Doug Kelly to have his volunteer crews remove invasives and clean up litter on an annual basis at Cooper Gulch and Sequoia Park. This year they had their initial clean ups on February 13th, 2010, at Cooper Gulch and March 20th, 2010, at Sequoia Park. The Stormwater Division provided help with the clean up, pickers, bags, food and trash disposal.

Date: 5/7/2011 Responsible Party: Miles Slattery, Project Manager
5th Annual Mayday Community Clean Up

In an effort to promote community enhancement and encourage awareness of stormwater issues, the City of Eureka sponsored a community clean up event along Eureka's waterfront. This year's event also served as a kick-off for the Eureka Chamber of Commerce's Adopt-A-Block program. On Saturday, May 7th, volunteers met at Halvorson Park, Eureka Boardwalk, Palco Marsh, Elk River Wildlife Sanctuary and various locations throughout the City. Volunteers were provided trash bags and pickers, as well as refreshments. The event was advertised in the Times Standard, Northcoast Journal, all local radio stations and local network television.

All participants received a City of Eureka Mayday Community Clean Up sports bottle and t-shirt. After the clean up, a volunteer appreciation event was held on the new C Street Plaza with live music and a BBQ. During the volunteer appreciation event, an opportunity drawing was held for gift certificates provided by City of Eureka merchants.

The event enjoyed its greatest success to date. Fourteen local merchants donated food and/or gifts for the volunteers. Fourteen local organizations and over 350 volunteers participated in the event to remove over 11,000 pounds of trash from Eureka's waterfront.

Coordinate Humboldt Bay First Flush Study

Responsible Party: Miles Slattery, Project Manager

Coordinate with Humboldt Baykeeper and RCAA to advertise First Flush Study and seek volunteers.

Measurable Goal: Run at least five advertisements in local media each summer seeking volunteers.

Start Date: 7/1/2006

End Date: 6/30/2011

Percentage of work that has been accomplished for this BMP: 100 %

Work performed for the BMP listed above

Date: 9/4/2006 Responsible Party: Miles Slattery, Project Manager
First Flush Coordination 2006

Coordinated with Jennifer Kalt, Humboldt Baykeeper, to perform first flush sampling. Miles developed a sampling manual and forwarded it to Jennifer. She distributed the information to the volunteers. Volunteers have been briefed and are awaiting the first significant rainfall.

Date: 9/17/2007 Responsible Party: Jennifer Kalt, Water Quality Coordinator
First Flush Coordination 2007

Coordinated with Jennifer Kalt, Humboldt Baykeeper, to perform first flush sampling. Miles is going

to analyze the samples for Nitrate as NO₃, Total Phosphorus as P and COD. Volunteers have been trained during the Dry Weather Event (09/15/07) and are awaiting the first significant rainfall.

Date: 9/19/2008 Responsible Party: Jennifer Kalt, Water Quality Coordinator

First Flush Coordination 2008

Coordinated with Jennifer Kalt, Humboldt Baykeeper, to perform first flush sampling. Miles is going to analyze the samples for Nitrate as NO₃, Total Phosphorus as P and COD. Volunteers have been trained during the Dry Weather Event (09/15/08) and are awaiting the first significant rainfall.

Date: 9/11/2009 Responsible Party: Jennifer Kalt, Water Quality Coordinator

First Flush Coordination 2009

Coordinated with Jennifer Kalt, Humboldt Baykeeper, to perform first flush sampling. Miles is going to analyze the samples for Nitrate as NO₃, Total Phosphorus as P and COD. Volunteers have been trained during the Dry Weather Event (09/26/09) and are awaiting the first significant rainfall.

Date: 10/14/2010 Responsible Party: Miles Slattery, Project Manager

First Flush Coordination 2010

Miles was contacted by Jeff Hayes, and HSU student working on his thesis. He was interested in doing some sampling for the City. Miles met with him and trained him on proper sampling protocols on 10-14-10.

Evaluate First Flush Results

Responsible Party: Miles Slattery, Project Manager

Evaluate the first flush sampling results to develop future SWMP policy, including outreach BMPs as appropriate.

Measurable Goals: As needed, educational outreach BMPs developed to specifically address pollutants identified in the first flush sampling.

Start Date: 7/1/2008

End Date: 6/30/2011

Percentage of work that has been accomplished for this BMP: 100 %

Work performed for the BMP listed above

Date: 5/26/2008 Responsible Party: Miles Slattery, Project Manager

2005-07 First Flush Data Review

Miles Slattery reviewed the First Flush, Coastwide Snapshot and Dry Weather data from 2005-07. Over the three years of data, 6 different locations (McFarlan Creek / Second Slough, Palco Marsh, Clark Slough, Campton Road and Fern Drive / Martin Slough, Target outfall and Elk River Slough) have been sampled within the City of Eureka limits. Clark Slough (balloon track) was sampled in '05 and '06, but not in '07. Target outfall was not sampled in '05. Elk River Slough was not sampled in '05 and '06.

The data showed that coliform and nutrient levels infrequently were above EPA benchmarks. The copper result from the '05 dry weather monitoring at Clark Slough was above the EPA benchmark.

To address the coliform levels, the Stormwater Division has installed pet waste kiosks at Halverson Park and Lunbar Hills and distributed pet waste posters to Washington Elementary, Barbera Schulz (pet advocate and local business owner), Eureka High School and City facilities. The Stormwater Division will also implement a smoke testing plan by the end of the June '08.

To address the nutrient levels, the NCSWC has contacted local area fundraising car washes at Victoria Place and made sure they limit the amount of soap they use and use biodegradable soap. We've also looked into having commercial car washes host fundraising events, to no avail. Miles is working with Jane Dice, Coastal Care Center (Victoria Place landlord), to install a filter in the parking lot DI to supplement their oil and water separator with funding from the Prop 50 grant RCAA obtained. The Stormwater Division has stopped fundraising washes at inappropriate locations like the Shell Gas Station on Myrtle (see 'Citizen Call' module) and responds to complaints of washes at inappropriate locations. The Stormwater Division has also distributed

'Soap is for Dishes not for Fishes!' stormwater posters to Eureka High School and City facilities.

Miles also spoke with Jennifer Kalt, Humboldt Baykeeper Water Quality Coordinator, to see if she saw any data that would suggest that additional outreach is needed. She agreed with Miles and felt that coliform and nutrients are the analytes of concern.

Date: 4/8/2009 Responsible Party: Miles Slattery, Project Manager
2nd Quarter 2009 TSS Sampling

The Stormwater Division reviewed the First Flush results from years prior. There were no unusual and persistent exceedances of benchmarks for almost all of the constituents. However, Eureka's receiving waters are listed as impaired for sediment. The Stormwater Division and Humboldt Baykeeper decided to take a proactive approach to sedimentation and began quarterly sampling for TSS in areas where development may have an impact on the waterway.

On April 8, 2009, TSS sampling was performed along Cooper Gulch and Martin Slough, two areas where development may be causing an impact on stream sedimentation. Sampling was performed along a stretch of each stream in an effort to identify areas where sediment discharges are occurring. None of the results exceeded the EPA's benchmark for TSS in ambient waters (100 mg/L). Results are attached. The Stormwater Division and Humboldt Baykeeper will continue to perform quarterly TSS sampling of local Eureka waterways and try to pinpoint areas of concern so effective BMPs can be implemented.

Date: 6/30/2009 Responsible Party: Miles Slattery, Project Manager
2008-09 First Flush Data Review

The Stormwater Division reviewed the First Flush results from 2008. There were no unusual and persistent exceedances of benchmarks for almost all of the constituents. However, Eureka's receiving waters are listed as impaired for sediment. The Stormwater Division and Humboldt Baykeeper decided to take a proactive approach to sedimentation and began quarterly sampling for TSS in areas where development may have an impact on the waterway.

Date: 6/30/2010 Responsible Party: Miles Slattery, Project Manager
2009-10 First Flush Data Review

The Stormwater Division reviewed the First Flush results from 2009. There were no unusual and persistent exceedances of benchmarks for almost all of the constituents. The Stormwater Division and Humboldt Baykeeper's TSS sampling efforts have not been resumed since the First Flush of 2009. Future TSS sampling is pending City and Baykeeper staff availability.

Date: 6/30/2011 Responsible Party: Miles Slattery, Project Manager
2010-11 First Flush Data Review

The Stormwater Division reviewed the First Flush results from 2010. There were no unusual and persistent exceedances of benchmarks for almost all of the constituents. This year's event was somewhat limited in the constituents analyzed due to Baykeeper not being able to participate. However, the ammonia, TSS and Bacti data will add to the historical data collected by Baykeeper in previous years.

Identify and Train First Flush Volunteers

Responsible Party: Miles Slattery, Project Manager

Identify and train at least 20 volunteers to perform first flush sampling.

Measurable Goal: Train at least 20 volunteers to perform First Flush sampling.

Start Date: 7/1/2006

End Date: 6/30/2011

Percentage of work that has been accomplished for this BMP: 100 %

Work performed for the BMP listed above

Date: 9/15/2006 Responsible Party: Jennifer Kalt, Water Quality Coordinator
First Flush 2006 Volunteers

Jennifer Kalt, Humboldt Baykeeper, coordinated with 23 volunteers through radio PSAs, sign-up sheets at the booth at Paddlefest and similar events, interview on the KHSU Homepage show,

KHUM's weekly Coastal Currents, and blurbs in the NEC's Econews and trained them for the First Flush 2006 sampling.

Date: 9/15/2007 Responsible Party: Jennifer Kalt, Water Quality Coordinator

First Flush 2007 Volunteers

Jennifer Kalt, Humboldt Baykeeper, coordinated with 24 volunteers total (8 for Eureka sites) through radio PSAs, sign-up sheets at the booth at Paddlefest and similar events, interview on the KHSU Homepage show, KHUM's weekly Coastal Currents, and blurbs in the NEC's Econews and trained them for the First Flush 2007 sampling.

Date: 9/1/2008 Responsible Party: Jennifer Kalt, Water Quality Coordinator

First Flush 2008 Volunteers

Jennifer Kalt, Humboldt Baykeeper, solicited approximately 24 volunteers and will train them during a dry weather monitoring event on 9/15/08.

Date: 9/11/2009 Responsible Party: Jennifer Kalt, Water Quality Coordinator

First Flush 2009 Volunteers

Jennifer Kalt, Humboldt Baykeeper, solicited approximately 24 volunteers and will train them during a dry weather monitoring event on 9/26/09.

Date: 10/14/2010 Responsible Party: Miles Slattery, Project Manager

First Flush 2010 Volunteers

Miles was contacted by Jeff Hayes, and HSU student working on his thesis. He was interested in doing some sampling for the City. Miles met with him and trained him on proper sampling protocols on 10-14-10.

Identify Staff to Implement Reaches to Beaches

Responsible Party: Miles Slattery, Project Manager

Measurable Goal: Training staff and schools identified for program participation.

Start Date: 7/1/2007

End Date: 6/30/2008

Percentage of work that has been accomplished for this BMP: 100 %

Work performed for the BMP listed above

Date: 12/15/2006 Responsible Party: Miles Slattery, Project Manager

Spring 2007 Reaches to Beaches

Contacted Denise Newman, author of Reaches to Beaches program. She agreed to teach the class to Robert Childs college-oriented Environmental Field Biology Class at Eureka High School starting in mid-January 2007.

Date: 6/22/2007 Responsible Party: Miles Slattery, Project Manager

Spring 2008 Reaches to Beaches

Denise Newman can no longer teach the Reaches to Beaches class. Miles contacted Christina Ernst, Humboldt Baykeeper Education Coordinator. She said she is willing to work with the City of Eureka in gaining approval of the curriculum as meeting the state standards for 8th grade and high school. The City and Baykeeper will try and coordinate more classes in local middle schools and high schools. She will also work with Robert Child's class, Eureka High School, in the 2007-2008 school year.

Date: 9/23/2008 Responsible Party: Miles Slattery, Project Manager

Fall 2008 Reaches to Beaches

Christina Ernst, Humboldt Baykeeper Education Coordinator, will be teaching Reaches to Beaches to all three of Marianne Lancaster's Eureka High School Marine Biology classes (juniors and seniors) during the Fall 2008 semester.

The curriculum was updated to meet California standards and be more appropriate for high school juniors and seniors by Christina Ernst. The class is a ten week class discussing watershed and stormwater related issues. Miles taught two classes discussing Eureka's stormwater program and

water quality monitoring. The first class gave an overview of Eureka's program and an introduction to monitoring. The second class involved sampling in the stream adjacent to the high school. The City of Eureka a pH, conductivity and temperature meters for them to use in the field. The City also provided a spectrophotometer for the class to help the students analyze for nitrate and ammonia.

Date: 4/8/2009 Responsible Party: Christina Ernst, Education Coordinator
Spring 2009 Reaches to Beaches

In order to promote stormwater and water conservation education, the City of Eureka's Stormwater Division contracts with Christina Ernst to research, develop, coordinate, and present two classroom presentations at Washington Elementary School. These presentations will be included as a larger program to be offered to Eureka City School's fourth and fifth grade classes and teachers in the future. Initial research into the appropriate audience grade levels in relation to California State Content Standards and corresponding lesson options are also included in this invoice.

Presentation of stormwater pollution lesson, April 8, 2009 to Heather Gaiera's fifth grade class at Washington Elementary School.

Date: 9/1/2009 Responsible Party: Miles Slattery, Project Manager
Fall 2009 Reaches to Beaches

Christina agreed to teach the class to two of Lucia Boyer's Marine Biology Classes (juniors and seniors) at Eureka High School starting on September 17, 2009. Marianne Lancaster (the previous teacher referred us).

The curriculum was updated to meet California standards and be more appropriate for high school juniors and seniors by Christina Ernst. The class is a ten week class discussing watershed and stormwater related issues. Miles will be teaching two classes to the classrooms discussing Eureka's stormwater program and water quality monitoring.

Date: 6/7/2010 Responsible Party: Amber Neilson, Education Coordinator
Sequoia Park World Oceans Week

In honor of World Oceans Day (June 8, 2010) the Sequoia Park Zoo's Education Coordinator provided storm-water pollution prevention demonstrations to visiting school groups during the week of June 7-11, 2010. The activity included a demonstration of how pollutants such as trash, oil, pesticides and fertilizers wash down storm drains into urban waterways and into the bay and ocean using the Enviro-Scape model purchased for stormwater education at the Zoo. Students were asked to identify how to prevent these pollutants from entering our waterways and were reminded that street drains are directly connected to bay and ocean environments.

The Association of Zoos and Aquariums provided free prizes for student participation. Prizes were based after Dr. Seuss' One Fish, Two Fish, Red Fish, Blue Fish story in celebration of the books 50th anniversary. Prizes included temporary tattoos, colorable crowns, book marks, buttons and an activity book.

Results see attached file for specifics and pictures):

Total #s served: 303 students + 42 adults =345

Specific School, grade level and numbers served:

- Grant Elementary, 1st, 60 students + 8 adults
- Zane Middle School, 7th & 8th, 20 students + 3 adults
- South Fortuna Elementary, K & 1st, 85 students + 11 adults
- Scotia Elementary, K, 26 students + 4 adults
- Greenpoint Elementary School (Blue Lake Charter), 1st-7th, 10 students + 2 adults
- Blue Lake Elementary, 2nd, 22 students + 4 adults
- Ridgewood Elementary, 2nd, 80 students + 10 adults

Implement Reaches to Beaches at Local Schools

Responsible Party: Miles Slattery, Project Manager

Measurable Goal: Program implemented in at least one school per year, with goal of providing program to each interested school within five years.

Start Date: 7/1/2007

End Date: 6/30/2011

Percentage of work that has been accomplished for this BMP: 100 %

Work performed for the BMP listed above

Date: 1/12/2007 Responsible Party: Denise Newman, Teacher

Spring 2007 Reaches to Beaches

Miles coordinated with Denise Newman, author of Reaches to Beaches program, and Robert Childs, Eureka High School teacher, to have the curriculum taught to his field biology class. The class will be taught for 10 weeks starting 01/12/07 and include the stewardship program which may involve storm drain stenciling.

Date: 2/7/2008 Responsible Party: Christina Ernst, Education Coordinator

Spring 2008 Reaches to Beaches

Christina Ernst, Humboldt Baykeeper Education Coordinator, agreed to teach the class to both of Marianne Lancaster's Marine Biology Classes (juniors and seniors) at Eureka High School starting on February 7, 2008.

The curriculum was updated to meet California standards and be more appropriate for high school juniors and seniors by Christina Ernst. The class is a ten week class discussing watershed and stormwater related issues. Miles taught two classes discussing Eureka's stormwater program and water quality monitoring. The first class gave an overview of Eureka's program and an introduction to monitoring. The second class involved sampling in the stream adjacent to the high school. The City of Eureka and Humboldt Baykeeper provided pH, conductivity and temperature meters for them to use in the field. The City also provided a spectrophotometer for the class to help the students analyze for nitrate and ammonia.

At the end of the class, the students participated in a stewardship action plan consisting of characterizing the stream at Cooper Gulch after a creek enhancement project done by the City of Eureka and the Department of Fish and Game and storm drain marking in the Cooper Gulch neighborhood.

Date: 9/23/2008 Responsible Party: Miles Slattery, Project Manager

Fall 2008 Reaches to Beaches

Christina agreed to teach the class to all three of Marianne Lancaster's Marine Biology Classes (juniors and seniors) at Eureka High School starting on September 23rd, 2008.

The curriculum was updated to meet California standards and be more appropriate for high school juniors and seniors by Christina Ernst. The class is a ten week class discussing watershed and stormwater related issues. Miles taught two classes to all three classrooms discussing Eureka's stormwater program and water quality monitoring. The first class, November 4th, gave an overview of Eureka's program and an introduction to monitoring. The second class, November 18th, involved sampling in the stream adjacent to the high school. The City of Eureka provided a pH, conductivity and temperature meter for them to use in the field. The City also provided a spectrophotometer for the class to help the students analyze for nitrate and ammonia.

For the final class on 12/02/08, all three classrooms went on a field trip separately to Cooper Gulch Creek. Miles and Scott Bauer, Department of Fish and Game, discussed the creek enhancements the City of Eureka did for the adjacent skate park and went through a stream characteristic exercise to determine the health of the creek. The negative effects of development and stormwater runoff were discussed at length.

Christina did a follow up review of the material and administered a final test on the curriculum. Each of the students has a graduation requirement of performing volunteer work. Christina informed them about stream enhancement opportunities through Fish and Game as well as Eureka's Mayday Community Clean Up. Many of the students showed interest in both opportunities.

Date: 4/8/2009 Responsible Party: Christina Ernst, Education Coordinator

Spring 2009 Reaches to Beaches

In order to promote stormwater and water conservation education, the City of Eureka's Stormwater Division contracts with Christina Ernst to research, develop, coordinate, and present two classroom presentations at Washington Elementary School. These presentations will be included as a larger program to be offered to Eureka City School's fourth and fifth grade classes and teachers in the future. Initial research into the appropriate audience grade levels in relation to California State Content Standards and corresponding lesson options are also included in this invoice.

Presentation of stormwater pollution lesson, April 8, 2009 to Heather Gaiera's fifth grade class at Washington Elementary School.

Date: 6/7/2010 Responsible Party: Amber Neilson, Education Coordinator
Sequoia Park World Oceans Week

In honor of World Oceans Day (June 8, 2010) the Sequoia Park Zoo's Education Coordinator provided storm-water pollution prevention demonstrations to visiting school groups during the week of June 7-11, 2010. The activity included a demonstration of how pollutants such as trash, oil, pesticides and fertilizers wash down storm drains into urban waterways and into the bay and ocean using the Enviro-Scape model purchased for stormwater education at the Zoo. Students were asked to identify how to prevent these pollutants from entering our waterways and were reminded that street drains are directly connected to bay and ocean environments.

The Association of Zoos and Aquariums provided free prizes for student participation. Prizes were based after Dr. Seuss' One Fish, Two Fish, Red Fish, Blue Fish story in celebration of the books 50th anniversary. Prizes included temporary tattoos, colorable crowns, book marks, buttons and an activity book.

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- Greenpoint Elementary School (Blue Lake Charter), 1st-7th, 10 students + 2 adults
- Blue Lake Elementary, 2nd, 22 students + 4 adults
- Ridgewood Elementary, 2nd, 80 students + 10 adults

Date: 3/5/2011 Responsible Party: Amber Neilson, Education Coordinator
Project WET Training

Location of workshop: Sequoia Park Zoo

Workshop Theme: From Backyards to the Bay to the Faucet—the Incredible Journey of Water

Workshop goal: Provide local educators with activities and resources to teach students about preventing pollution from stormwater run-off and non-point source inputs within our urban watersheds.

No. of participants: 31(attached)

Length: 7 hours

Narrative (attached):

Based on evaluations (attached), participants were thrilled by their learning, networking and resources

derived from this teacher training. Participants ranged from formal public education teachers to charter school teachers and informal educators. The class was filled to over capacity (31 attended, 30 was the set max). One participant registered for CEUs. Participants were not charged for the training, but were required to submit a \$15 deposit of which was returned upon completion. All registrants completed the training and were reimbursed their deposit. Some interested teachers were turned away due to workshop capacity and others could not make it due to conflicting schedules. It was suggested that another training opportunity be offered in the

fall. Based on their answer to a question in the evaluations, these teachers will reach a total number of 5717 students per year through their teaching. Following are some pictures from the event:

Date: 6/30/2011 Responsible Party: Allison Poklemba, Education and Marketing
ARCR Education Manager

Arcata Community Recycling Center has been contracted out by the City's Environmental Programs Division to provide waste reduction curriculum to our City schools. This year, they incorporated stormwater and marine debris curriculum to the program. For FY 2010-11, 55 classroom visits and tours of the recycling plant were performed, reaching 1,102 students. The curriculum is described on their web site www.arcatarecycling.org/AboutACRC/Educationalprogram.pdf. The final report is attached.

Date: 6/30/2011 Responsible Party: Amber Neilson, Education Coordinator
2010-11 Sequoia Park Zoo Curriculum

GRADES 4-5

California education standards met:

4th grade Life science 2b. pollutants enter the food chain, harming herbivores and carnivores (including humans).

5th grade Earth sciences 3b. when water evaporates, it turns into water vapor in the air

5th grade Earth sciences 3c. water vapor in the air moves from one place to another and can form fog or clouds and can fall to the earth as rain, hail, sleet, or snow.

MATERIALS

Water cycle poster

Enviroscape model and supplies

Storm drain sign

Pollution prevention flashcards

Marine biodegradation poster

ASSESSMENT

See assessment document. Note that the assessment adds at least 4 minutes to your presentation.

INTRO

Welcome everyone, today we are going to celebrate the ocean by talking about what an amazing place it is and how to keep it clean and healthy. We are also celebrating water, because what is the ocean full of? What else, can you guys tell me some animals that live in the ocean?

THE WATER CYCLE

What is the water cycle? Water is constantly moving. In nature water moves from the ocean into the clouds, a process called evaporation, from the clouds it falls as rain, a process called condensation, and then it is collected and transported; in groundwater, from mountain snow to creeks and rivers, and into the ocean. Plants and animals are a part of the water cycle too. The water you drink, that is in your cells and that you exhale is a part of the cycle.

What's another word for precipitation? Rain, snow, hail.

Watersheds. In Humboldt County, most of the water that falls on land ends up in streams and rivers and runs into the oceans. This is called a natural watershed.

Materials: water cycle poster

ENVIROSCAPE MODEL

You're a part of the water cycle and a part of the watershed.

We talked about how wildlife needs water, what do humans rely on water for? Drinking, bathing, transportation, gardens, seafood, recreation, jobs, wildlife, etc

Urban watersheds. Here in Eureka, we live in an urban watershed, which includes all the natural waterways as well as a system of pipes and drains.

Materials: Enviroscape model, water, five gallon bucket, seating, storm drain sign, towels.

Setup: Place all components on the model and pour a cup of water in the bay. Make sure pollutants are available, spray bottle is full, and collection tray is in place. Set out seats.

Storm Drains

The water in our sinks and toilets goes into the sewer system and is cleaned by the sewer treatment plant before being put in the bay. But Eureka's urban watershed is also made up of storm gutters called storm drain, (show storm drain sign). Raise your hand if you have ever seen these signs on the curbside. Water from the storm drains, and anything floating in it, goes into our streams untreated and ends up in Humboldt Bay.

If there is garbage on the street where does it go? Into the storm drains and then the bay.

This is called pollution; do you know what pollution is? Anything in the wrong place can be a source of pollution. Fertilizer on your lawn is ok, fertilizer in the stream is pollution. Plastic bottle in the recycling bin is okay, but plastic in the ocean is pollution. Even soil can be pollution when a lot of it makes a stream muddy. With good habits we can prevent pollution.

What are possible sources of pollution in our community? Ask students to identify 5 sources of pollution, pollute the model accordingly (see prevention section for list of pollutants)

What is going to happen to all this pollution when it rains? Spray the model

Where is the pollution going? Pollution gets in the waterways and into the bay. This makes the water unhealthy for plants and animals, including me and you! Show kids the dirty water from tray.

What can we do to prevent pollution?

Use flashcards:

Make sure your garbage is secure and don't let it get too full. Make sure it gets picked up every week.

Dog (and other domestic animal) waste- Bag it and trash it! (And put fence around cows)

Garbage- Lid it and curb it!

Oil- Fix your leaks!

Soil- Feet and wheels stay on the trails!

Fertilizers and Pesticides- Minimal use! Responsible types and timing!

What happens when we don't prevent pollution? Does it just go away? Garbage, chemicals, and harmful amounts of organic material end up in the rivers and ocean. This can kill fish or make fish poisonous for other animals to eat, including humans! Birds and anything living in the water can get stuck in plastic or even eat it! Look how long it takes even for garbage to break down in the ocean.

Materials: Marine Debris Biodegradation poster

CLOSURE and REVIEW

Remind me, how is a storm drain different from the drain in your sink or shower?

How are you going to prevent storm water pollution?

Have the kids say in unison "don't pollute, keep our oceans clean" and thank them for being such an excellent audience and taking care of our environment.

Variations

GRADES 2-3

California education standards met:

2nd grade Earth sciences 3e. Students know that water is resource vital for human survival and everyday activities, including hydration, food, bathing, recreation and transportation.

3rd grade Physical sciences 1e. water goes through all three forms of matter during the water cycle; solid, liquid, gas.

3rd grade Physical sciences 1f. evaporation occurs from the watershed when water is heated and snow melt contributes to our local watershed.

3rd grade Life sciences 3c. by polluting, humans cause changes in the environment in which they live that are detrimental to humans and other organisms.

3rd grade Investigation and experimentation 5d. students predict the effect of rainfall on the enviroscape model when trash is present.

THE WATER CYCLE

Simplify; you cannot assume this age group is familiar with or understands the water cycle. Show

them the poster and focus on precipitation and collection. Use the poster as a tool to explain a watershed.

What is precipitation?

ENVIROSCAPE MODEL

Are you a part of the watershed?

What do you use water for?

Where does that water go when we are done with it? That's right, the city is a part of the watershed too! We have a system of pipes and drains that carry most of the water we use to get cleaned at the sewer treatment plant.

If it rains on the street, where does the water go? Be sure they know what a gutter is. Explain storm drains and show the sign.

What happens if there is garbage on the street when it rains? Pollute the model, focus on garbage, dog feces and soil.

How do we prevent pollution? Use the flashcards for garbage, feces and soil.

CLOSURE

Remind me, how is a storm drain different from the drain in your sink or shower?

Why is this bad?

Have the kids say in unison "don't pollute, keep our oceans clean" and thank them for being such an excellent audience and taking care of our environment.

GRADES K-1

California education standards met:

Kindergarten Earth science 3a. students learn characteristics of our local watershed, including mountains, snowpack, rivers and streams, and Humboldt bay.

Kindergarten Earth science 3c. students identify water as a resource that is used in everyday life.

Kindergarten Investigation and Experimentation 4e. Students orally communicate observations about the enviroscape model.

1st grade Life sciences 2b. students know both plants and animals need water to survive and that animals eat other animals and plants.

Enviroscape model only. This age group does not understand storm water issues, the water cycle, or the definition of pollution (littering only). Keep it simple! And make it about them through guided questioning.

Intro Welcome everyone, today we are going to celebrate the ocean, like on your birthday we celebrate you and on mother's day we celebrate your mom. Today we are celebrating the ocean by talking about what an amazing place it is and how to keep it clean and healthy.

Presentation

1. We are also celebrating water, because what is the ocean full of?
2. What else is in the ocean, can you think of ocean animals?
3. Can you think of something that could get in the water that would make it unhealthy for animals?
4. Do you know what littering is? Pollute the model
5. What happens to the garbage now that it is raining? Spray model, show them the tray.
6. Is wildlife going to be healthy if the water looks like this? Do you want to swim in this water? Or drink it?
7. How can we keep the water clean? Use the garbage flashcard

Closure

- Remind me, what happens when it rains and there is garbage on the street?
- Why is that bad?
- What are you going to do with the wrappers out of your luch box?
- Have the kids say in unison "don't pollute, keep our oceans clean" and thank them for

being - - such an excellent audience and taking care of our environment.

Additional Kinesthetic Activities

GRADES 2/+

The Incredible Journey A great introduction the water cycle, where kids become a droplet of water whose fate in the water cycle is determined by the roll of a dice. For older kids, it is more education to identify as a molecule of water.

GRADES K-1

A-maze-ing Journey! Kids are a water droplet traveling downstream. They try to avoid getting polluted as they travel: The river is an are designated by chalk or ropes, and leads to an area designated 'ocean', the pollution is flour being thrown at the kids as they move down stream, and the animals are images attached to cones in the river and ocean.

NOTES

Due to the large number of kids in each presentation group and limited time available (10 minutes per), I found it best to engage the children through questioning, not by active participation in polluting the model. The children responded well to the demonstration and enjoyed being a part of the discussion. It is too distracting for the kids if one stands up and gets special privileges.

I never successfully implemented the assessment aspect, in part due to time limitations and because I worked mostly with younger kids who did not have the faculties to perform the assessment in a meaningful way. It should be further investigated with older children (4th grade and up). For younger children, teacher involvement would be ideal; perhaps a questionnaire given to the children in the classroom before and after the presentation. The teacher will best be able to assess the impact that the presentation has had on their students.

Attached is a final report.

Perform Humboldt Bay First Flush Sampling

Responsible Party: Miles Slattery, Project Manager

Perform First Flush Sampling Annually.

Measurable Goal: Perform First Flush sampling each year at a minimum of five sampling locations within the City.

Start Date: 7/1/2006

End Date: 6/30/2011

Percentage of work that has been accomplished for this BMP: 100 %

Work performed for the BMP listed above

Date: 11/3/2006 Responsible Party: Jennifer Kalt, Water Quality Coordinator

First Flush 2006 Event

Jennifer Kalt, Water Quality Coordinator for Humboldt Baykeeper, coordinates the training and performance of dry weather and first flush monitoring in Eureka and around Humboldt County.

A dry weather event was performed on 09/30/06 as a training run for the 23 volunteers. On 11/03/06, sampling occurred for First Flush 2006. Within the City of Eureka limits, McFarlan Creek, Palco Marsh, Clark Slough, Martin Slough (Campton and Fern), Target stormwater outfall and Swain Slough were sampled for, fecal coliform, nitrate (as N), orthophosphate, copper, zinc, lead, hardness, temperature, pH and conductivity. Results are under 'Linked Documents'.

Date: 10/10/2007 Responsible Party: Miles Slattery, Project Manager

First Flush 2007 Event

Jennifer Kalt, Water Quality Coordinator for Humboldt Baykeeper, coordinates the training and performance of dry weather and first flush monitoring in Eureka and around Humboldt County.

A dry weather event was performed on 09/15/07 as a training run for the 24 volunteers (8 for Eureka sites). On 10/10/07, sampling occurred for First Flush 2007. Within the City of Eureka limits, McFarlan Creek, Palco Marsh, Martin Slough (Campton and Fern), Target stormwater outfall, Elk River and Elk River near 101 were sampled for, fecal coliform, nitrate (as N), orthophosphate, copper, zinc, lead, hardness, temperature, pH and conductivity. Results are under 'Linked Documents'.

Date: 6/1/2008 Responsible Party: Miles Slattery, Project Manager
Coastal Currents Spring '08

Miles was featured in the Humboldt Baykeeper Currents magazine article (attached) about Humboldt Baykeeper's 2007 First Flush sampling for assisting with analyses for the event.

The article described the purpose of first flush sampling and discussed the results.

Date: 10/4/2008 Responsible Party: Miles Slattery, Project Manager
First Flush 2008 Event

Jennifer Kalt, Water Quality Coordinator for Humboldt Baykeeper, coordinates the training and performance of dry weather and first flush monitoring in Eureka and around Humboldt County.

A dry weather event was performed on 09/13/08 as a training run for the 24 volunteers (8 for Eureka sites). On 10/04/08, sampling occurred for First Flush 2008. Within the City of Eureka limits, McFarlan Creek, Palco Marsh, Martin Slough (Campton and Fern), Target stormwater outfall, Elk River and Elk River near 101 were sampled for, fecal coliform, nitrate (as N), orthophosphate, copper, zinc, lead, hardness, temperature, pH and conductivity. During the dry weather monitoring, Miles analyzed for samples for ammonia, nitrate and COD. Results are under 'Linked Documents'.

Date: 4/8/2009 Responsible Party: Miles Slattery, Project Manager
2nd Quarter 2009 TSS Sampling

The Stormwater Division reviewed the First Flush results from years prior. There were no unusual and persistent exceedances of benchmarks for almost all of the constituents. However, Eureka's receiving waters are listed as impaired for sediment. The Stormwater Division and Humboldt Baykeeper decided to take a proactive approach to sedimentation and began quarterly sampling for TSS in areas where development may have an impact on the waterway.

On April 8, 2009, TSS sampling was performed along Cooper Gulch and Martin Slough, two areas where development may be causing an impact on stream sedimentation. Sampling was performed along a stretch of each stream in an effort to identify areas where sediment discharges are occurring. None of the results exceeded the EPA's benchmark for TSS in ambient waters (100 mg/L). Results are attached. The Stormwater Division and Humboldt Baykeeper will continue to perform quarterly TSS sampling of local Eureka waterways and try to pinpoint areas of concern so effective BMPs can be implemented.

Date: 10/14/2009 Responsible Party: Miles Slattery, Project Manager
First Flush 2009 Event

Jennifer Kalt, Water Quality Coordinator for Humboldt Baykeeper, coordinates the training and performance of dry weather and first flush monitoring in Eureka and around Humboldt County.

A dry weather event was performed on 09/26/09 as a training run for the 24 volunteers (8 for Eureka sites). On 10/14/09, sampling occurred for First Flush 2009. Within the City of Eureka limits, McFarlan Creek, Martin Slough (Fairway) and Martin Slough (Campton and Fern) were sampled for total coliform, nitrate (as N), total phosphorous, copper, iron, zinc, and lead. During the dry weather monitoring, Miles analyzed for samples for ammonia, nitrate and COD. During both 2009 events, the WWTP analyzed sites for TSS. Results are under 'Linked Documents'.

Date: 10/24/2010 Responsible Party: Miles Slattery, Project Manager
First Flush 2010 Event

On 10/24/10, sampling occurred for First Flush 2010. Within the City of Eureka limits, McFarland

Creek, Martin Slough (Fairway) and Martin Slough (Campton and Fern) were sampled for fecal coliform, ammonia and TSS. During the dry weather monitoring, WWTP analyzed the samples. Results are under 'Linked Documents'.

Storm Drain Marking Event

Responsible Party: Miles Slattery, Project Manager

Hold at least one storm drain marking event with the public each year

Measurable Goal: 100% compliance

Start Date: 7/1/2007

End Date: 6/30/2011

Percentage of work that has been accomplished for this BMP: 100 %

Work performed for the BMP listed above

Date: 5/18/2007 Responsible Party: Denise Newman, Teacher
2007 Reaches to Beaches

For the stewardship action plan of the Reaches to Beaches program, the students chose to mark storm drains around the Eastwood neighborhood by the high school. The students marked 9 storm drains.

Date: 3/4/2008 Responsible Party: Miles Slattery, Project Manager
Keep California Beautiful

In conjunction with Caltrans, the local Boy's and Girl's Club and the City of Eureka, Miles took Boys and Girls Club members out to mark six storm drains in their neighborhood with 'No Dumping' placards. Over 40 volunteers were present to clean up litter and mark storm drains.

Date: 4/3/2008 Responsible Party: Miles Slattery, Project Manager
2008 Reaches to Beaches

At the end of Reaches to Beaches with two of Marianne Lancaster's Marine Biology classes, the students participated in a stewardship action plan consisting of characterizing the stream at Cooper Gulch after a creek enhancement project done by the City of Eureka, and followed with storm drain marking in the Cooper Gulch neighborhood (pictures attached). Scott Bauer, Department of Fish and Game, spoke to the two classes about developments effect on streams like Cooper Gulch and what the enhancement project will do to counteract those effects.

Date: 6/7/2008 Responsible Party: Marianne Lancaster, Biology Teacher
Reaches to Beaches Stewardship Action Plan

At the end of Reaches to Beaches, a group of students participated in a stewardship action plan consisting of storm drain marking around town (pictures attached). Students marked the following locations:

Harris and P
Buhne and Q
Buhne and P
18th and Montecito Way
Myrtle and Park
Lafayette School on Park Street
Myrtle and McFarlan
6th and L
Hodgeson and O
Excelsior and Layman
Excelsior and Gage
Cedar Street
Liberty Bell
Buhne and O
Hall and Myrtle
Harrison and 23rd
2600 Hall Street

2742 Myrtle
2127 Harrison
Harrison and Munson

Date: 5/12/2010 Responsible Party: Miles Slattery, Project Manager
Quality Bodyworks

The owner of Quality Bodyworks in Eureka wanted to mark his DIs. Miles provided placards for him.

Date: 6/25/2010 Responsible Party: Miles Slattery, Project Manager
Department of Fish and Game

Scott Bauer called to get storm drain placards for the DI's on their property on 2nd Street. He sent an Americorp member to Miles' office to retrieve them. Scott said he would install them.

Date: 6/30/2010 Responsible Party: Miles Slattery, Project Manager
2009-10 Forever Friends

Forever Friends is a local group of volunteers. Dana Schatz, Director, met with Miles on May 11, 2009 to discuss storm drain marking throughout the City. Dana was interested in a long term project. Miles told her that the majority of the City has been marked, but there isn't an accurate inventory of all the DIs and those that have been marked. Dana agreed have her volunteers mark the unmarked DIs and keep an inventory of them on mapbooks, as well as notify Miles of DIs that aren't in the City's inventory by marking up map books.

Miles worked with Riley Topolewski to create map books with all the DI's mapped in the City. Miles forwarded 6 copies of the mapbooks, provided all the supplies for marking and trained the volunteers on how to mark the drains and keep the inventory. Forever Friends will be canvassing the City and marking all of the unmarked DIs and keeping track of all of the marked DIs in the mapbooks. The project began on July 1st, 2009 and will be ongoing until all the DIs have been marked and inventoried.

Date: 5/7/2011 Responsible Party: Miles Slattery, Project Manager
4H Club Drain Marking

The Forever Friends agreement dissolved and wasn't working out for them. So the Stormwater Division actively pursued another interested volunteer group.

4H is a local group of volunteers. Sandy Sathrum, Volunteer Coordinator, met with Miles to discuss storm drain marking throughout the City. Sandy was interested in a long term project. Miles told her that the majority of the City has been marked, but there isn't an accurate inventory of all the DIs and those that have been marked. Sandy agreed have her volunteers mark the unmarked DIs and keep an inventory of them on mapbooks, as well as notify Miles of DIs that aren't in the City's inventory by marking up map books. The 5th Annual Mayday Community Clean Up was the kick off of the program.

Miles worked with Riley Topolewski to create map books with all the DI's mapped in the City. Miles forwarded 6 copies of the mapbooks, provided all the supplies for marking and trained the volunteers on how to mark the drains and keep the inventory. the 4H Club will be canvassing the City and marking all of the unmarked DIs and keeping track of all of the marked DIs in the mapbooks. In September 2011, 4H volunteers reported that they have completed 95% of the marking and will be finished by the end of October.

Storm Drain Stenciling

Responsible Party: Miles Slattery, Project Manager

Coordinate with County Used Oil Program, Reaches to Beaches students, and City Pre-Treatment Coordinator on storm drain stenciling opportunities

Measurable Goal: 100% of storm drains stenciled by end of permit term

Start Date: 7/1/2006

End Date: 6/30/2011

Percentage of work that has been accomplished for this BMP: 100 %

Work performed for the BMP listed above

Date: 5/18/2007 Responsible Party: Denise Newman, Teacher
2007 Reaches to Beaches

For the stewardship action plan of the Reaches to Beaches program, the students chose to mark storm drains around the Eastwood neighborhood by the high school. The students marked 9 storm drains.

Date: 3/4/2008 Responsible Party: Miles Slattery, Project Manager
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Lafayette School on Park Street
Myrtle and McFarlan
6th and L
Hodgeson and O
Excelsior and Layman
Excelsior and Gage
Cedar Street
Liberty Bell
Buhne and O
Hall and Myrtle
Harrison and 23rd
2600 Hall Street
2742 Myrtle
2127 Harrison
Harrison and Munson

Date: 5/12/2010 Responsible Party: Miles Slattery, Project Manager
Quality Bodyworks

The owner of Quality Bodyworks in Eureka wanted to mark his DIs. Miles provided placards for him.

Date: 6/25/2010 Responsible Party: Miles Slattery, Project Manager
Department of Fish and Game

Scott Bauer called to get storm drain placards for the DI's on their property on 2nd Street. He sent an Americorp member to Miles' office to retrieve them. Scott said he would install them.

Date: 6/30/2010 Responsible Party: Miles Slattery, Project Manager
2009-10 Forever Friends

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Miles worked with Riley Topolewski to create map books with all the DI's mapped in the City. Miles forwarded 6 copies of the mapbooks, provided all the supplies for marking and trained the volunteers on how to mark the drains and keep the inventory. Forever Friends will be canvassing the City and marking all of the unmarked DIs and keeping track of all of the marked DIs in the mapbooks. The project began on July 1st, 2009 and will be ongoing until all the DIs have been marked and inventoried.

Date: 5/7/2011 Responsible Party: Miles Slattery, Project Manager
4H Club Drain Marking

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4H is a local group of volunteers. Sandy Sathrum, Volunteer Coordinator, met with Miles to discuss storm drain marking throughout the City. Sandy was interested in a long term project. Miles told her that the majority of the City has been marked, but there isn't an accurate inventory of all the DIs and those that have been marked. Sandy agreed have her volunteers mark the unmarked DIs and keep an inventory of them on mapbooks, as well as notify Miles of DIs that aren't in the City's inventory by marking up map books. The 5th Annual Mayday Community Clean Up was the kick off of the program.

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Survey Schools for Reaches to Beaches

Responsible Party: Miles Slattery, Project Manager

Survey all schools in City for interest in participation in program.

Measurable Goal: 100% of schools contacted and response on interest obtained

Start Date: 7/1/2006

End Date: 6/30/2008

Percentage of work that has been accomplished for this BMP: 100 %

Work performed for the BMP listed above

Date: 4/11/2006 Responsible Party: Miles Slattery, Project Manager
Spring 2007 Eureka High School Biology Class

E-mailed Robert Childs of Eureka City Schools about Reaches to Beaches Program. Forwarded him the educational material I received from RCAA, Morguine Flynn-Sousa. He said he is interested and to get a hold of him during the fall semester.

Date: 12/12/2007 Responsible Party: Miles Slattery, Project Manager
Spring 2008 Eureka High School Marine Biology Class

Christina Ernst, Humboldt Baykeeper's Education Coordinator, and Miles Slattery met with Marianne Lancaster to discuss implementing Reaches to Beaches in both of her Marine Biology

Classes at Eureka High School. Marianne expressed interest and the class began, 02/07/08.

Date: 9/12/2008 Responsible Party: Miles Slattery, Project Manager

Fall 2008 Eureka High School Marine Biology Class

Christina Ernst, Humboldt Baykeeper's Education Coordinator, met with Marianne Lancaster to discuss implementing Reaches to Beaches in three of her Marine Biology Classes at Eureka High School. Marianne expressed interest and the class begins, 09/23/08.

On 09/12/08, Miles met with Christina to update the Reaches to Beaches Journal. Miles had the journals printed and gave them to Christina on 09/22/08.

Date: 10/2/2008 Responsible Party: Miles Slattery, Project Manager

City of Eureka Elementary Schools

The Stormwater Division has been trying to implement stormwater and water conservation curriculum at the elementary school level. Miles Slattery has been working with Bob Munther, Eureka City Schools Assistant Superintendent, to set up a meeting with the principals of the schools.

On 10/02/08, Miles and Christina Ernst met with the principals and presented information about the Reaches to Beaches and water conservation curriculum the City would like to implement at the 4th and 5th grade levels. The principals were interested, but felt the teachers would need to be involved. Christina said that would not be a problem. Miles will follow up.

Date: 4/8/2009 Responsible Party: Christina Ernst, Education Coordinator

Spring 2009 Reaches to Beaches

In order to promote stormwater and water conservation education, the City of Eureka's Stormwater Division contracts with Christina Ernst to research, develop, coordinate, and present two classroom presentations at Washington Elementary School. These presentations will be included as a larger program to be offered to Eureka City School's fourth and fifth grade classes and teachers in the future. Initial research into the appropriate audience grade levels in relation to California State Content Standards and corresponding lesson options are also included in this invoice.

Presentation of stormwater pollution lesson, April 8, 2009 to Heather Gaiera's fifth grade class at Washington Elementary School.

Date: 9/1/2009 Responsible Party: Miles Slattery, Project Manager

Fall 2009 Reaches to Beaches

Christina agreed to teach the class to two of Lucia Boyer's Marine Biology Classes (juniors and seniors) at Eureka High School starting on September 17, 2009. Marianne Lancaster (the previous teacher referred us).

The curriculum was updated to meet California standards and be more appropriate for high school juniors and seniors by Christina Ernst. The class is a ten week class discussing watershed and stormwater related issues. Miles will be teaching two classes to the classrooms discussing Eureka's stormwater program and water quality monitoring.

Date: 9/15/2009 Responsible Party: Miles Slattery, Project Manager

City of Eureka Elementary Schools

The Stormwater Division has been trying to implement stormwater and water conservation curriculum at the elementary school level. Miles Slattery submitted a letter to Richard Lentz, Eureka City Schools new Assistant Superintendent of Educational Services, to inquire about implementing stormwater (Reaches to Beaches) and water conservation curriculum at the fifth grade level. Included in the letter was a brief description of the curricula and four invitation letters addressed to the four principals of the local elementary schools.

Illicit Discharge Detection and Elimination

Details of BMPs and Work Performed for Them

Advertise GIS Web Site

Responsible Party: Riley Topolewski, GIS Coordinator

Advertise the existence of the GIS web site to the public and other agencies through GIS user's group meetings and providing link on Stormwater web site.

Measurable Goal: Monitor hits and comments on the web site. Use hit rate to determine if addition

Start Date: 7/1/2007

End Date: 6/30/2008

Percentage of work that has been accomplished for this BMP: 100 %

Work performed for the BMP listed above

Date: 6/30/2008

Responsible Party: Riley Topolewski, GIS Coordinator

Website Advertising

Riley Topolewski, City of Eureka GIS Coordinator, advertised the interactive GIS webpage that is posted on www.eurekastormwater.com at the monthly GIS user meetings attended by representatives from Humboldt County, the Humboldt Bay Harbor, Recreation and Conservation District, the City of Eureka, the City of Arcata, Humboldt State University and other GIS practitioners in the area.

Miles Slattery also advertised the interactive GIS webpage at North Coast Stormwater Coalition meetings and workshops. Humboldt Baykeeper utilizes the page to determine what basin boundaries are and what contributes to certain outfalls.

Below is a list of the number of page views, by month, for www.eurekastormwater.com:

July 07	84
August 07	108
September 07	98
October 07	180
November 07	270
December 07	216
January 08	334
February 08	291
March 08	304
April 08	333
May 08	436

The link was posted on the page on 6/25/07. It is apparent that the number of views has increased significantly since the interactive GIS link was posted. The Stormwater Division will continue to advertise the interactive GIS link as was done previously. Based on the increase in page views, increasing the advertising is not necessary.

Capitol Improvement Plan for Storm Drainage System

Responsible Party: Miles Slattery, Project Manager

Develop Capital Improvement Plan for repairing/replacing areas of storm drainage system with large amounts of groundwater infiltration.

Measurable Goal: Development of Capital Improvement Plan with budget and schedule for storm drain piping replacement

Start Date: 7/1/2008

End Date: 6/30/2011

Percentage of work that has been accomplished for this BMP: 100 %

Work performed for the BMP listed above

Date: 6/30/2009 Responsible Party: Miles Slattery, Project Manager
2009-10 Capitol Improvement Plan

The City of Eureka's Capitol Improvement Plan for FY 2009-10 was submitted to the Planning Commission and adopted by Council. In January 2009, Engineering requested that project be submitted. The Stormwater Division submitted storm drainage improvement requests. The two major ones involved culvert replacements at Campton and Fern and Cooper Gulch creek crossing at Myrtle Avenue. The Cooper Gulch culvert replacement was included in an application for stimulus funding through the Humboldt Fish Action Council (pending).

Date: 6/30/2011 Responsible Party: Miles Slattery, Project Manager
2010-11 Capitol Improvement Plan

The City of Eureka's Capitol Improvement Plan for FY 2010-11 is being drafted by Engineering and will be submitted to the Planning Commission and adopted by Council. In January 2010, Engineering requested that project be submitted. The Stormwater Division submitted storm drainage improvement requests. The two major ones involved culvert replacements at Campton and Fern and Cooper Gulch creek crossing at Myrtle Avenue. Council adopted the CIP at their September 6, 2011 meeting.

Complete Draft Stormwater Ordinance

Responsible Party: Bruce Young, Deputy Public Works Director

Complete Draft Storm Water Quality Management and Discharge Control ordinance.

Measurable Goal: Draft ordinance finalized .

Start Date: 7/1/2006

End Date: 6/30/2007

Percentage of work that has been accomplished for this BMP: 100 %

Work performed for the BMP listed above

Date: 12/1/2005 Responsible Party: Bruce Young, Deputy Public Works Director
Stormwater Ordinance

Draft Stormwater Ordinance completed and finalized.

Develop Operations Plan for Smoke Testing

Responsible Party: Miles Slattery, Project Manager

Develop operations plan with schedule and tracking system for performing smoke testing of the storm drain system.

Measurable Goal: Operations Plan, Schedule & Tracking Systems developed.

Start Date: 7/1/2007

End Date: 6/30/2008

Percentage of work that has been accomplished for this BMP: 100 %

Work performed for the BMP listed above

Date: 6/26/2008 Responsible Party: Miles Slattery, Project Manager
Smoke Testing Plan

Miles Slattery reviewed the First Flush data from 2005-07. Since most of the sampling locations were not connected to our storm drainage facilities, the feasibility for smoke testing was not available. However, the Target (big box retailer) outfall on the East side of town had consistently high coliform values.

Miles met with Bruce Young, Deputy Public Works Director, to discuss a smoke testing plan. Miles

informed Bruce about the coliform data from First Flush. Since the Target outfall was connected to our storm drainage facilities and was the furthest East in relation to the Old Town / commercial area of Eureka, they decided to start at the storm drainage facilities on 3rd and Y Streets that connect to the Target outfall. Smoke testing will be tracked and documented in ASIST.

The overall smoke testing plan is to start on the North-East area of Eureka and work towards the West, covering the Old Town / commercial area of Eureka. It was decided that the Old Town / commercial area is an area of concern because of its proximity to Humboldt Bay and potential for illicit connections.

Smoke testing supplies were ordered on 6/06/08 and are expected to arrive by late June / early July. As soon as they arrive, the Streets Division will implement the smoke testing plan.

Develop Storm System Maintenance Log

Responsible Party: Miles Slattery, Project Manager

Develop a storm system maintenance log to document the location and observations made during storm drain maintenance, including excessive debris, suspicious discharges, odors, dry-weather flow, structural problems, and others.

Measurable Goal: Maintena

Start Date: 7/1/2007

End Date: 6/30/2008

Percentage of work that has been accomplished for this BMP: 100 %

Work performed for the BMP listed above

Date: 3/5/2008 Responsible Party: Miles Slattery, Project Manager
New Maintenance Form

Miles worked with Dan Smith, Maintenance Supervisor for Streets, to develop a one page Street/Alley Maintenance Field Worksheet (attached) to be used by the field crew to track all maintenance done on the storm drain facilities. There is a 'Notes' section for observations made during storm drain maintenance, including excessive debris, odors, dry-weather flow, structural problems, and others. If suspicious discharges are witnessed, staff were trained to radio Public Works dispatch or call the hotline.

Date: 6/30/2008 Responsible Party: Miles Slattery, Project Manager
Maintenance Form Tracking

Right now the information from the maintenance forms are written up in a supervisor's report and then entered into an Access database at the corp yard. The Stormwater Division is currently working on streamlining the process. Miles is working with the ASIST programmers and Danny Smith, Streets Supervisor, to develop a way to enter the forms into the ASIST database and keep track of those records.

Establish Stormwater Hotline

Responsible Party: Miles Slattery, Project Manager

Measurable Goal: Dedicated phone number established for use as stormwater hotline

Start Date: 7/1/2006

End Date: 6/30/2007

Percentage of work that has been accomplished for this BMP: 100 %

Work performed for the BMP listed above

Date: 5/15/2006 Responsible Party: Miles Slattery, Project Manager
Stormwater Hotline

Established stormwater hotline - 707.441.4192. Answered by Susan Hutchison and Pearl Mendoza, Public Works Administrative Assistants.

Date: 7/31/2008 Responsible Party: Miles Slattery, Project Manager
Region Wide Hotline Number

As a part of a SEP, the City of Eureka has established a region wide hotline number for all the MS4s in Humboldt County (1.877.NCSC001). The number will have a call navigator system that will prompt the caller to direct the call to the appropriate MS4's hotline.

Evaluate Results of Commercial / Industrial Inspections

Responsible Party: Miles Slattery, Project Manager

Obtain and evaluate results of commercial / industrial inspections performed by the City Pre-Treatment Coordinator, County DEH, and County CUPA.

Measurable Goal: Evaluate inspection results to determine areas of concern to be targeted for outreach and

Start Date: 7/1/2007 End Date: 6/30/2011
Percentage of work that has been accomplished for this BMP: 100 %

Work performed for the BMP listed above

Date: 6/30/2008 Responsible Party: Miles Slattery, Project Manager
2007-08 Commercial and Industrial Inspections

Miles Slattery reviewed the forwarded complaints in the 'Citizen Call' module of ASIST from City Source Control Supervisor, County DEH, and County CUPA during the 2007-08 permit year. The most frequent complaints were about restaurants and car washing.

To address the restaurant industry, the Stormwater Division created a BMP manual that has been and will be passed out to restaurants that have had a complaint filed against them. Also, the NCSC is working on creating a BMP placard to be distributed to local area restaurants as a form of public education and outreach that can be displayed in the kitchen areas.

To address the nutrient levels, the NCSWC has contacted local area fundraising car washes at Victoria Place and made sure they limit the amount of soap they use and use biodegradable soap. We've also looked into having commercial car washes host fundraising events, to no avail. Miles is working with Jane Dice, Coastal Care Center (Victoria Place landlord), to install a filter in the parking lot DI to supplement their oil and water separator with funding from the Prop 50 grant RCAA obtained. The Stormwater Division has stopped fundraising washes at inappropriate locations like the Shell Gas Station on Myrtle (see 'Citizen Call' module) and responds to complaints of washes at inappropriate locations.

Miles also has been working with Roy's Auto Center on West 5th Street to install BMPs to prevent soapy discharges from leaving their property (see 'Citizen Call' module). They have also changed to using biodegradable soap once per week and wash with just water the rest of the time. During car washing they are using a DI grate BMP to prevent sediment discharges.

The Stormwater Division has also distributed 'Soap is for Dishes not for Fishes!' stormwater posters to Eureka High School and City facilities.

Date: 1/1/2009 Responsible Party: Gary Bird, Special Projects Manager
Mandatory Garbage-Recycling Program

On June 3, 2008, the Eureka City Council adopted a Universal Garbage and Recycling collection ordinance. The ordinance was adopted by the City to help us meet State waste reduction mandates, and to reduce illegal disposal and public health hazards currently plaguing our neighborhoods. The program went into effect on January 1, 2009.

Included in the mandatory service is a twice a year bulky item pick-up for all residents. This includes e-waste, furniture, appliances, etc. This will reduce illegal dumping in the City and decrease potential stormwater pollution sources.

Date: 6/30/2009 Responsible Party: Miles Slattery, Project Manager

2008-09 Commercial and Industrial Inspections

Miles Slattery reviewed the forwarded complaints in the 'Citizen Call' module of ASIST from City Source Control Supervisor, County DEH, and County CUPA during the 2008-09 permit year. The most frequent complaints were about restaurants.

To address the restaurant industry, the Stormwater Division created a BMP manual that has been, and will be, passed out to restaurants that have had a complaint filed against them. Also, Miles gave the Source Control Division Restaurant BMP Manuals to be passed out during their inspections.

Date: 6/30/2010 Responsible Party: Miles Slattery, Project Manager

2009-10 Commercial and Industrial Inspections

Miles Slattery reviewed the forwarded complaints in the 'Citizen Call' module of ASIST from City Source Control Supervisor, County DEH, and County CUPA during the 2009-10 permit year. The most frequent complaints were about restaurants.

To address the restaurant industry, the Stormwater Division created a BMP manual that has been, and will be, passed out to restaurants that have had a complaint filed against them. Also, Miles gave the Source Control Division Restaurant BMP Manuals to be passed out during their inspections.

Date: 6/30/2011 Responsible Party: Miles Slattery, Project Manager

2010-11 Commercial and Industrial Inspections

Miles Slattery reviewed the forwarded complaints in the 'Citizen Call' module of ASIST from City Source Control Supervisor, County DEH, and County CUPA during the 2010-11 permit year. Once again, the most frequent complaints were about restaurants.

To address the restaurant industry, the Stormwater Division created a BMP manual that has been, and will be, passed out to restaurants that have had a complaint filed against them. Also, Miles gave the Source Control Division Restaurant BMP Manuals to be passed out during their inspections. This year, the Stormwater Division developed a Stormwater Friendly Cleaning Practices for restaurant poster that is also distributed during inspections.

Forward Stormwater Complaints to Appropriate Personnel

Responsible Party: Miles Slattery, Project Manager

Forward complaints of illicit discharges to City Pre-Treatment Coordinator, County Environmental Health or other appropriate personnel.

Measurable Goal: 100% follow-up on all illicit discharge complaints.

Start Date: 7/1/2007

End Date: 6/30/2011

Percentage of work that has been accomplished for this BMP: 100 %

Work performed for the BMP listed above

Date: 6/30/2007 Responsible Party: Miles Slattery, Project Manager

2006-07 Stormwater Complaints

All stormwater complaints received in permit year 2006-2007 were forwarded to the appropriate personnel (see Citizen Call table in the MS4 Database). Complaints were forwarded to the City's Pre-Treatment Department, County Environmental Health and the Department of Fish and Game when necessary.

Date: 6/30/2008 Responsible Party: Miles Slattery, Project Manager

2007-08 Stormwater Complaints

All stormwater complaints received in permit year 2007-2008 were forwarded to the appropriate personnel (see 'Citizen Call' table under 'Operations' in the ASIST database). Complaints were forwarded to the City's Pre-Treatment Department, County Environmental Health and the

Department of Fish and Game when necessary.

Date: 1/1/2009 Responsible Party: Gary Bird, Special Projects Manager

Mandatory Garbage-Recycling Program

On June 3, 2008, the Eureka City Council adopted a Universal Garbage and Recycling collection ordinance. The ordinance was adopted by the City to help us meet State waste reduction mandates, and to reduce illegal disposal and public health hazards currently plaguing our neighborhoods. The program went into effect on January 1, 2009.

Included in the mandatory service is a twice a year bulky item pick-up for all residents. This includes e-waste, furniture, appliances, etc. This will reduce illegal dumping in the City and decrease potential stormwater pollution sources.

Date: 6/30/2009 Responsible Party: Miles Slattery, Project Manager

2008-09 Stormwater Complaints

All stormwater complaints received in permit year 2008-09 were forwarded to the appropriate personnel (see 'Citizen Call' table under 'Operations' in the ASIST database). Complaints were forwarded to the City's Pre-Treatment Department, County Environmental Health and the Department of Fish and Game when necessary.

Date: 6/30/2010 Responsible Party: Miles Slattery, Project Manager

2009-10 Stormwater Complaints

All stormwater complaints received in permit year 2009-10 were forwarded to the appropriate personnel (see 'Citizen Call' table under 'Operations' in the ASIST database). Complaints were forwarded to the City's Pre-Treatment Department, County Environmental Health, USCG and the Department of Fish and Game when necessary.

Date: 6/30/2011 Responsible Party: Miles Slattery, Project Manager

2010-11 Stormwater Complaints

All stormwater complaints received in permit year 2010-11 were forwarded to the appropriate personnel (see 'Citizen Call' table under 'Operations' in the ASIST database). Complaints were forwarded to the City's Source Control Division, County Environmental Health, USCG and the Department of Fish and Game when necessary.

GIS Web Site

Responsible Party: Riley Topolewski, GIS Coordinator

Complete the City's Stormwater GIS web site.

Measurable Goal: Document and enforce 100% of illicit connections identified.

Start Date: 7/1/2006

End Date: 6/30/2007

Percentage of work that has been accomplished for this BMP: 100 %

Work performed for the BMP listed above

Date: 6/25/2007 Responsible Party: Riley Topolewski, GIS Coordinator

Interactive GIS Webpage

The interactive GIS webpage was completed by Riley Topolewski. Miles inserted a link to the site on www.eurekastormwater.com.

Information on Stormwater Ordinance in PSAs

Responsible Party: Miles Slattery, Project Manager

Include information on the stormwater ordinance in public service announcements.

Measurable Goal: Information on the stormwater ordinance included in at least 1 public service announcement.

Start Date: 7/1/2007

End Date: 6/30/2009

Percentage of work that has been accomplished for this BMP: 100 %

Work performed for the BMP listed above

Date: 12/1/2006 Responsible Party: Miles Slattery, Project Manager
Coastal Currents

Humboldt Baykeepers Fall 2006 Coastal Currents magazine published an article about the City of Eureka's Stormwater Division. The article included information about the stormwater ordinance, hotline, webpage and contact information.

Date: 2/7/2007 Responsible Party: Miles Slattery, Project Manager
KHUM 104.3 Coastal Currents

Miles was a guest on Humboldt Baykeepers Coastal Currents spot at noon on KHUM, 104.3 FM. He discussed the North Coast Stormwater Coalition, the City of Eureka's stormwater program and the different ways the public can report stormwater issues (Eureka's hotline and webpage).

Date: 11/2/2007 Responsible Party: NCSWC Members, Active Members
Construction Site Stormwater Management Workshop

The North Coast Stormwater Coalition sponsored a workshop for construction site stormwater management. The morning session included presentations on construction site BMPs (Craig Benson, RCAA), constructing roadways and driveways (Tyler Ledwith, RCAA) and local ordinance compliance (Miles Slattery, City of Eureka). The afternoon session provided two options. There was hands on erosion and sediment control BMP instillation training or EPA certified construction site stormwater management training. During the workshop, the City of Eureka Construction Site BMP pamphlets (19 BMP pamphlets) were made available to attendees. 91 people attended the conference. 26 attended the BMP instillation training, and 54 attended the stormwater manager training.

Date: 12/4/2007 Responsible Party: NCSWC Members, Active Members
Landscape Design with Stormwater in Mind

The North Coast Stormwater Coalition sponsored a workshop for landscape professionals and residents. The conference included presentations on local ordinance compliance (Miles Slattery, City of Eureka), the landscape/stormwater connection (Loren Oki, UC Cooperative Extension), creating a balance with IPM (Annie Joseph, OWOW), landscape features that minimize runoff (Loren Oki, UC Cooperative Extension), less toxic lawns and alternatives (Deborah Giraud, UC Cooperative Extension) and sustainable landscape (Donna Wildearth, Wildearth Designs). During the workshop, local nurseries, landscape supply companies and the NCSWC handed out stormwater friendly BMP material and educational material. 72 people attended the conference.

Date: 5/7/2008 Responsible Party: Miles Slattery, Project Manager
KHUM 104.3 Coastal Currents

Miles was a guest on KHUM 104.3's Coastal Currents. Miles discussed the upcoming Mayday Community Clean Up, the North Coast Stormwater Coalition, the upcoming region wide hotline number and the City's recently approved Construction Site Erosion Control Ordinance. Audio is attached.

Date: 9/9/2008 Responsible Party: Miles Slattery, Project Manager
Erosion Control PSA

The Stormwater Division worked with Lost Coast Communications to develop a PSA (attached) announcing the implementation of the erosion control ordinance that will air on KHUM, KSLG & KWPT. By purchasing 34 :60 spots (6a-7p) on each station you will receive 17 Public Service Announcement buy-back spots, making your total 51 spots per station, 153 total. It will play for two weeks (weekdays only) and run from 9/9-9/15 and another from 9/23-9/29, with an average of 5 spots per day.

Date: 9/24/2008 Responsible Party: Miles Slattery, Project Manager
Erosion Control Ordinance Press Release

On 09/24/08, Miles submitted a press release (attached) announcing the adoption and implementation of the erosion control ordinance.

Date: 4/15/2009 Responsible Party: Angie Wood, Storm Water Project Manager

Times Standard Ad - Sustainable Humboldt

Regionwide hotline (877-NCSC-001) ad (attached) was posted in the April 15th 'Sustainable Humboldt' insert of the Times Standard.

Date: 6/15/2009 Responsible Party: Miles Slattery, Project Manager
Construction BMP Manual Media

Radio spot (attached) announcing the availability of three City of Eureka BMP manuals for stormwater (Regulations, Construction Site BMPs and LID). The manuals include descriptions of local and state stormwater regulations pertaining to construction, instillation and maintenance of construction site BMPs and instillation and maintenance of Low Impact Development for as built.

The Stormwater Division paid \$500 for spots on KGOE, KKHB, KRED, KATA, KFMI, KXGO and KJNY. The radio spot was also forwarded to all local stations and aired for free. The Stormwater Division received over 100 spots from the paid stations, as well as free airtime from those and other stations the radio spot was sent to. These radio stations have an audience of over 100,000 listeners.

In-House Training for Ordinance Enforcement

Responsible Party: Miles Slattery, Project Manager

Public Works to conduct in-house training related to ordinance enforcement.

Measurable Goal: 100% of applicable Public Works staff receive training.

Start Date: 7/1/2007

End Date: 6/30/2008

Percentage of work that has been accomplished for this BMP: 100 %

Work performed for the BMP listed above

Date: 1/11/2008 Responsible Party: Miles Slattery, Project Manager
Parks, Facilities, Harbor Ordinance Training

Miles presented a power point presentation and training video for the Parks and Recreation Department. The power point gave an overview of the Stormwater Division and information about the stormwater and erosion control ordinances. The presentation explained what is considered a violation of the ordinances and how to report them to the appropriate personnel. The video provided examples of BMPs for municipal operations and information on how to detect illicit discharges. 16 staff members were in attendance.

Date: 4/11/2008 Responsible Party: Miles Slattery, Project Manager
Streets-Alleys, WW Collection and Water Distribution Ordinance Training

Miles presented a power point presentation and training video for the Streets/Alleys, Wastewater Collection and Water Distribution Divisions Department. The power point gave an overview of the Stormwater Division and information about the stormwater and erosion control ordinances. The presentation explained what is considered a violation of the ordinances and how to report them to the appropriate personnel. The video provided examples of BMPs for municipal operations and information on how to detect illicit discharges. 17 staff members were in attendance.

Date: 5/8/2008 Responsible Party: NCSWC Members, Active Members
IDDE Training

Winzler and Kelly, local engineering consultants, presented training on the IDDE component of Phase II permits. The training discussed program development, illicit connections, finding illicit connections (dye, smoke and video testing) and fixing illicit connections. Justin Boyes, Source Control Supervisor, and Miles Slattery attended.

Inspections of Permitted Industrial Dischargers and Complaint Response

Responsible Party: Miles Slattery, Project Manager

Coordinate with City's Pre-Treatment Coordinator, County Division of Environmental Health, and County CUPA on inspections of permitted industrial dischargers and complaint response. Track the locations of illicit discharges to determine areas of concern t

Start Date: 7/1/2007

End Date: 6/30/2011

Percentage of work that has been accomplished for this BMP: 100 %

Work performed for the BMP listed above

Date: 6/30/2007 Responsible Party: Miles Slattery, Project Manager
2006-07 Pre-Treatment Coordination

Coordinated with City's Pre-Treatment Coordinator and the County Division of Environmental Health during 2006-2007 permit year on all issues related to stormwater. Anytime Justin Boyes, Eureka Pre-Treatment Coordinator, and John Verbeck and Vicki Lore, County Environmental Health, came across stormwater issues in their inspections in the City limits they contacted me. We responded with a second inspection and informed the businesses about the ordinance and BMPs to prevent stormwater pollution (see Citizen Call table in MS4 Database).

Date: 6/30/2008 Responsible Party: Miles Slattery, Project Manager
2007-08 Pre-Treatment Coordination

Coordinated with City's Pre-Treatment Coordinator and the County Division of Environmental Health during 2007-08 permit year on all issues related to stormwater. Anytime Justin Boyes, Eureka Source Control Supervisor, and John Verbeck, Jeff Poel and Vicki Lore, County Environmental Health, came across stormwater issues in their inspections in the City limits they contacted me. We responded with a second inspection and informed the businesses about the ordinance and BMPs to prevent stormwater pollution (see 'Citizen Call' table under 'Operations' in ASIST Database). The inspectors for Humboldt County Environmental Health are members of the NCSWC. Stormwater issues within the City of Eureka are brought up at the meetings and assigned to the appropriate agencies.

Date: 6/30/2009 Responsible Party: Miles Slattery, Project Manager
2008-09 Source Control Coordination

Coordinated with City's Source Control Supervisor and the County Division of Environmental Health during 2008-09 permit year on all issues related to stormwater. Anytime Justin Boyes, Eureka Source Control Supervisor, and John Verbeck, Jeff Poel and Vicki Lore, County Environmental Health, came across stormwater issues in their inspections in the City limits they contacted Miles Slattery. The Stormwater Division responded with a second inspection and informed the businesses about the ordinance and BMPs to prevent stormwater pollution (see 'Citizen Call' table under 'Operations' in ASIST Database). The inspectors for Humboldt County Environmental Health are members of the NCSC. Stormwater issues within the City of Eureka are brought up at the meetings and assigned to the appropriate agencies.

Date: 6/30/2010 Responsible Party: Miles Slattery, Project Manager
2009-10 Commercial and Industrial Inspections

Miles Slattery reviewed the forwarded complaints in the 'Citizen Call' module of ASIST from City Source Control Supervisor, County DEH, and County CUPA during the 2009-10 permit year. The most frequent complaints were about restaurants.

To address the restaurant industry, the Stormwater Division created a BMP manual that has been, and will be, passed out to restaurants that have had a complaint filed against them. Also, Miles gave the Source Control Division Restaurant BMP Manuals to be passed out during their inspections.

Date: 9/23/2010 Responsible Party: Miles Slattery, Project Manager
Restaurant Poster Distribution

On 9/23/10, Miles went with Brandon Bishop, Source Control Inspector, to distribute 'Stormwater Friendly Cleaning Practices' for restaurants. The posters were developed by the North Coast Stormwater Coalition as a part of the Prop 50 NP3 grant.

Inspections and presentations were given at the Golden Harvest Cafe and Village Pantry. Miles gave a brief 10 minute presentation about BMPs for restaurants and told the Managers to hang the posters in their kitchens. Inspection reports and poster are attached.

Date: 6/30/2011 Responsible Party: Miles Slattery, Project Manager
2010-11 Commercial and Industrial Inspections

Miles Slattery reviewed the forwarded complaints in the 'Citizen Call' module of ASIST from City Source Control Supervisor, County DEH, and County CUPA during the 2010-11 permit year. Once again, the most frequent complaints were about restaurants.

To address the restaurant industry, the Stormwater Division created a BMP manual that has been, and will be, passed out to restaurants that have had a complaint filed against them. Also, Miles gave the Source Control Division Restaurant BMP Manuals to be passed out during their inspections. This year, the Stormwater Division developed a Stormwater Friendly Cleaning Practices for restaurant poster that is also distributed during inspections.

Maintenance Log Training for Public Works

Responsible Party: Miles Slattery, Project Manager

Train Public Works employees in the use of the maintenance log form & oversee use.

Measurable Goal: 100% of applicable Public Works employees trained and using form.

Start Date: 7/1/2007

End Date: 6/30/2011

Percentage of work that has been accomplished for this BMP: 100 %

Work performed for the BMP listed above

Date: 4/11/2008 Responsible Party: Miles Slattery, Project Manager
Ordinance / Maintenance Log Training

Miles presented a power point presentation and training video for the Streets/Alleys, Wastewater Collection and Water Distribution Divisions Department. The power point gave an overview of the Stormwater Division and information about the stormwater and erosion control ordinances. The presentation explained what is considered a violation of the ordinances and how to report them to the appropriate personnel. The new storm drain maintenance forms were reviewed and explained. The video provided examples of BMPs for municipal operations and information on how to detect illicit discharges. 17 staff members were in attendance.

Date: 6/30/2009 Responsible Party: Dan Smith, Streets Supervisor
2008-09 Training

During this permit year, all employees with the Streets/Alleys Division have been trained on the storm drain system maintenance log.

Date: 6/30/2010 Responsible Party: Dan Smith, Streets Supervisor
2009-10 Training

During this permit year, all employees with the Streets/Alleys Division have been trained on the storm drain system maintenance log.

Date: 6/30/2011 Responsible Party: Dan Smith, Streets Supervisor
2010-11 Training

During this permit year, all employees with the Streets/Alleys Division have been trained on the storm drain system maintenance log when hired and at staff and safety meetings.

Oversee Enforcement of Stormwater Ordinance

Responsible Party: Miles Slattery, Project Manager

Oversee implementation and enforcement of ordinance.

Measurable Goal: Enforce 100% of observed illicit discharges.

Start Date: 7/1/2007

End Date: 6/30/2011

Percentage of work that has been accomplished for this BMP: 100 %

Work performed for the BMP listed above

Date: 6/30/2007 Responsible Party: Miles Slattery, Project Manager

2006-07 Enforcement

All stormwater complaints were responded to during the 2006-2007 permit year. Each complaint was documented in the Citizen Call table of the MS4 Database.

Date: 6/30/2008 Responsible Party: Miles Slattery, Project Manager

2007-08 Enforcement

All stormwater complaints were responded to during the 2007-08 permit year. Each complaint was documented in the 'Citizen Call' table under 'Operations' in the ASIST Database.

Date: 6/30/2009 Responsible Party: Miles Slattery, Project Manager

2008-09 Enforcement

All stormwater complaints were responded to during the 2008-09 permit year. Each complaint was documented in the 'Citizen Call' table under 'Operations' in the ASIST Database.

Date: 6/30/2010 Responsible Party: Miles Slattery, Project Manager

2009-10 Enforcement

All stormwater complaints were responded to during the 2009-10 permit year. Each complaint was documented in the 'Citizen Call' table under 'Operations' in the ASIST Database.

Date: 6/30/2011 Responsible Party: Miles Slattery, Project Manager

2010-11 Enforcement

All stormwater complaints were responded to during the 2010-11 permit year. Each complaint was documented in the 'Citizen Call' table under 'Operations' in the ASIST Database.

Perform Smoke Testing

Responsible Party: Bruce Young, Deputy Public Works Director

Perform smoke testing of the system. Enforce removal of illicit connections detected.

Measurable Goal: A minimum of 10% of the system smoke tested each year. 100% of illicit connections removed.

Start Date: 7/1/2007

End Date: 6/30/2011

Percentage of work that has been accomplished for this BMP: 50 %

Work performed for the BMP listed above

Date: 9/15/2008 Responsible Party: Dan Smith, Streets Supervisor

September 15, 2008 Smoke Testing

Street crews performed smoke testing on the storm drain system on Y Street between 3rd and 2nd, and along 2nd Street to the outfall next to Target. No irregularities in the system were detected. However, an outside drain at American Auto Detail, 2332 2nd Street, is suppose to be plumbed to the storm drain system, and no smoke was detected coming from the drain. A work ordder was submitted to the Wastewater Collection crew to dye test the drain and see if it's plumbed to the sewer. If it is, Source Control will be following up with an inspection and permitting the business (making sure there is pre-treatment and covering the arae so no rain enters the collection system).

Date: 9/15/2008 Responsible Party: Dan Smith, Streets Supervisor

2007-08 Smoke Testing

Smoke testing supplies were ordered on 6/06/08 and are expected to arrive by late June / early July. As soon as they arrive, the Streets Division will implement the smoke testing plan.

Supplies arrived on 7/14/08. The Streets Division is not available for training until September. The first round of smoke testing will occur during that training session on September 15th at the storm drainage facilities on 3rd and Y Streets that connect to the Target outfall. Smoke testing will be tracked and documented in ASIST.

Date: 6/24/2009 Responsible Party: Dan Smith, Streets Supervisor

June 24, 2009 Smoke Testing

Street crews performed smoke testing on the storm drain system on S Street between 3rd and 2nd,

and on to the Waterfront Drive outfall. Any deficiencies or irregularities will be followed up with work order requests for the streets/alleys crew or wastewater collections crew.

Date: 6/30/2010 Responsible Party: Miles Slattery, Project Manager
2009-10 Smoke Testing

Due to some re-organization of the Street Department in this year's budget, smoke testing was not performed. Smoke testing will be done twice during permit year 2010-11. It will be done before 10-15-2010 and once again in the dry season of 2011, before June 30, 2011.

Date: 6/30/2011 Responsible Party: Miles Slattery, Project Manager
2010-11 Smoke Testing

Due to continuing budget and staffing reductions, the Streets / Alley Division could not perform smoke testing of the stormwater drainage facilities this year, as well as last. The smoke testing program in the Wastewater Collections system continued to be funded and has been performed over the last two, and preceding years.

Present Stormwater Ordinance

Responsible Party: Bruce Young, Deputy Public Works Director
Present ordinance to City Council.

Measurable Goal: Stormwater ordinance adopted.

Start Date: 7/1/2007 End Date: 6/30/2008
Percentage of work that has been accomplished for this BMP: 100 %

Work performed for the BMP listed above

Date: 1/17/2006 Responsible Party: Bruce Young, Deputy Public Works Director
Stormwater Ordinance
City Council adopted Stormwater Ordinance.

Review Stormwater Complaint Logs

Responsible Party: Miles Slattery, Project Manager

Review complaint logs to identify areas or target audience where additional inspections or education is required.

Measurable Goal: 100% review of complaint logs

Start Date: 7/1/2007 End Date: 6/30/2011
Percentage of work that has been accomplished for this BMP: 100 %

Work performed for the BMP listed above

Date: 6/30/2008 Responsible Party: Miles Slattery, Project Manager
2007-08 Complaint Logs

Miles Slattery reviewed the complaints logs in the 'Citizen Call' module of ASIST during the 2007-08 permit year. The most frequent complaints were about construction activities, restaurants and car washing.

To address construction activities, the Stormwater Division developed 19 construction BMP pamphlets, held two workshops ('Paving the Way for Rain' and 'Construction Site Stormwater Management'), adopted an erosion control ordinance (Oct. '08 implementation) and completed the draft Construction Site BMP Manual (under review).

To address the restaurant industry, the Stormwater Division created a BMP manual that has been and will be passed out to restaurants that have had a complaint filed against them. Also, the NCSC is working on creating a BMP placard to be distributed to local area restaurants as a form of public education and outreach that can be displayed in the kitchen areas.

To address the nutrient levels, the NCSWC has contacted local area fundraising car washes and changed their locations, the type of soap used and are looking into installing filters at locations known to host car washing events. The Stormwater Division has stopped fundraising washes at inappropriate locations like the Shell Gas Station on Myrtle (see 'Citizen Call' module) and responds to complaints of washes at inappropriate locations.

Miles also has been working car dealerships to install BMPs to prevent soapy discharges from leaving their property (see 'Citizen Call' module).

Date: 6/30/2009 Responsible Party: Miles Slattery, Project Manager
2008-09 Complaint Logs

Miles Slattery reviewed the complaints logs in the 'Citizen Call' module of ASIST during the 2008-09 permit year. The most frequent complaints were about construction activities, restaurants and car washing.

To address construction activities, the Stormwater Division developed 19 construction BMP pamphlets, adopted an erosion control ordinance and adopted the three Construction Site BMP Manuals (regulations, construction sites and LID).

To address the restaurant industry, the Stormwater Division created a BMP manual that has been and will be passed out to restaurants that have had a complaint filed against them. Also, the Source Control Division of the City of Eureka has these manuals and passes them out during their inspections.

To address the nutrient levels, the NCSC has contacted local area fundraising car washes and changed their locations, the type of soap used and are looking into installing filters at locations known to host car washing events. The Stormwater Division has recently acquired a portable inlet filter to loan out to local fundraising car washes. Fundraising washes at inappropriate locations like the Shell Gas Station on Myrtle (see 'Citizen Call' module) have been relocated and responds to complaints of washes at inappropriate locations.

Miles also has been working car dealerships to install BMPs to prevent soapy discharges from leaving their property (see 'Citizen Call' module).

Date: 6/30/2010 Responsible Party: Miles Slattery, Project Manager
2009-10 Complaint Logs

Miles Slattery reviewed the complaints logs in the 'Citizen Call' module of ASIST during the 2009-10 permit year. The most frequent complaints were about construction activities, restaurants and car washing.

The same proactive response and resolutions to the above mentioned complaints has been performed during this permit year, with more of an emphasis on LID. The Stormwater Division developed maintenance agreements for LID BMPs similar to the maintenance agreements for DI filters.

Date: 6/30/2011 Responsible Party: Miles Slattery, Project Manager
2010-11 Complaint Logs

Miles Slattery reviewed the complaints logs in the 'Citizen Call' module of ASIST during the 2009-10 permit year. The most frequent complaints were about construction activities and restaurants.

The same proactive response and resolutions to the above mentioned complaints has been performed during this permit year, with more of an emphasis on LID. The Stormwater Division developed maintenance agreements for LID BMPs similar to the maintenance agreements for DI filters.

Miles Slattery, Project Manager Stormwater Division. Complaints get documented into the ASIST database under the 'Citizen Calls' module. All stormwater complaints are then reported using ASIST.

Date: 6/30/2010 Responsible Party: Miles Slattery, Project Manager
2009-10 Complaint Tracking

Hotline operator, Susan Hutchison and Pearl Mendoza, forward stormwater hotline complaints to Miles Slattery, Project Manager Stormwater Division. Complaints get documented into the ASIST database under the 'Citizen Calls' module. All stormwater complaints are then reported using ASIST.

Date: 6/30/2011 Responsible Party: Miles Slattery, Project Manager
2010-11 Complaint Tracking

Hotline operator, Susan Hutchison and Pearl Mendoza, forward stormwater hotline complaints to Miles Slattery, Project Manager Stormwater Division. Complaints get documented into the ASIST database under the 'Citizen Calls' module. All stormwater complaints are then reported using ASIST.

Track Illicit Discharges Entered in Maintenance Log

Responsible Party: Miles Slattery, Project Manager

Track the locations of illicit discharges to determine areas of concern to be targeted for outreach and additional monitoring / maintenance. Perform additional outreach, monitoring, and maintenance as necessary.

Measurable Goal: Areas of concern identi

Start Date: 7/1/2007 End Date: 6/30/2011
Percentage of work that has been accomplished for this BMP: 100 %

Work performed for the BMP listed above

Date: 6/30/2008 Responsible Party: Miles Slattery, Project Manager
2007-08 Illicit Discharge Tracking

Hotline operator, Susan Hutchison and Pearl Mendoza, entered illicit discharge reports from field crew into the already existing Public Works' Trackit software as a stormwater issue. All stormwater issues in Trackit are forwarded to Miles Slattery, Project Manager Stormwater Division, via Trackit. Complaints issued directly to Miles by phone by field crews get documented into the ASIST database. All stormwater complaints are then reported using ASIST.

During this permit year, the majority of illicit discharges reported by staff have been related to construction. The Stormwater Division has addressed the issues related to the construction industry by developing 19 construction BMP pamphlets, holding two workshops ('Paving the Way for Rain' and 'Construction Site Stormwater Management'), adopting an erosion control ordinance (Oct. '08 implementation) and completing the draft Construction Site BMP Manual (under review).

Date: 6/30/2009 Responsible Party: Miles Slattery, Project Manager
2008-09 Illicit Discharge Tracking

During this permit year, the majority of illicit discharges reported by staff have been related to construction. The Stormwater Division has addressed the issues related to the construction industry by developing 19 construction BMP pamphlets, adopting an erosion control ordinance and adopting the three Construction BMP Manuals. All stormwater issues are forwarded to Miles Slattery, Project Manager Stormwater Division. Complaints issued directly to Miles get documented into the ASIST database in the 'Citizen Call' module. All stormwater complaints are then reported using ASIST.

Date: 6/30/2010 Responsible Party: Miles Slattery, Project Manager
2009-10 Illicit Discharge Tracking

During this permit year, the majority of illicit discharges reported by staff have been related to construction and the restaurant industry. The Stormwater Division has addressed the issues

related to the construction industry by developing 19 construction BMP pamphlets, adopting an erosion control ordinance and adopting the three Construction BMP Manuals. The restaurant industry complaints have been proactively addressed through the City's Source Control inspections.

All stormwater issues are forwarded to Miles Slattery, Project Manager Stormwater Division. Complaints issued directly to Miles get documented into the ASIST database in the 'Citizen Call' module. All stormwater complaints are then reported using ASIST.

Date: 6/30/2011 Responsible Party: Miles Slattery, Project Manager
2010-11 Illicit Discharge Tracking

During this permit year, the majority of illicit discharges reported by staff have been related to construction and the restaurant industry. The Stormwater Division has addressed the issues related to the construction industry by continuing to train all field staff and Building Inspections staff about the proper installation of BMPs and protocols for reporting violations of the erosion control ordinance. The restaurant industry complaints have been proactively addressed through the City's Source Control inspections and development of posters and pamphlets.

All stormwater issues are forwarded to Miles Slattery, Project Manager Stormwater Division. Complaints issued directly to Miles get documented into the ASIST database in the 'Citizen Call' module. All stormwater complaints are then reported using ASIST.

Tracking Mechanism for Stormwater Hotline

Responsible Party: Miles Slattery, Project Manager

Establish tracking mechanism for use by Hotline Operator to track complaint and action taken.

Measurable Goal: Tracking mechanism in place.

Start Date: 7/1/2006

End Date: 6/30/2007

Percentage of work that has been accomplished for this BMP: 100 %

Work performed for the BMP listed above

Date: 5/15/2006 Responsible Party: Miles Slattery, Project Manager
ASIST

Hotline operator, Susan Hutchison, enters stormwater hotline complaint into the already existing Public Works' Trackit software as a storm water issue. All storm water issues in Trackit are forwarded to Miles Slattery, Project Manager Stormwater Division, via Trackit. Miles documents the complaint and action taken into the ASIST database. All hotline complaints are then reported using ASIST.

Urban Water Management Plan

Responsible Party: Carolyn Thomas, Finance Director

Promote water conservation in the community and enforce water waste prohibition.

Measurable Goal: At least one public service announcement / press release submitted per year.

Start Date: 7/1/2006

End Date: 6/30/2011

Percentage of work that has been accomplished for this BMP: 100 %

Work performed for the BMP listed above

Date: 6/2/2006 Responsible Party: Carolyn Thomas, Finance Director
2006 Press Release

Press release advertised in the Times Standard newspaper on how you can conserve water and keep your water bills from going up.

Date: 6/30/2008 Responsible Party: Valerie Warner, Finance Director
2007 Press Release

Valerie Warner, Finance Director, was hired in mid-2007. The Finance Department had staffing issues during this fiscal year. Because of the staffing issues, there was no PSA or press release submitted.

Date: 8/26/2008 Responsible Party: Miles Slattery, Project Manager
2008-2009 Water Conservation Pamphlets

The Stormwater Division created a water conservation pamphlet (attached) as a part of the Urban Water Management Plan's Demand Management Measure 7. Pamphlets were printed and made available at the water billing kiosk and on the 3rd floor of City Hall. Staff members call Miles when they run out. The pamphlet was made available on the City's Water Conservation webpage as well as www.eurekastormwater.com.

Date: 9/9/2008 Responsible Party: Miles Slattery, Project Manager
2008 Public Service Announcement

The Stormwater Division worked with Lost Coast Communications to develop a water conservation PSA (attached) that will air on both KWPT & KSLG as both are more targeted to Northern Humboldt County where Eureka residents reside. 96 spots were purchased, 5 spots per day. It will run for two weeks (weekdays only) from 9/9-9/22.

Date: 9/24/2008 Responsible Party: Miles Slattery, Project Manager
September 24, 2008 Press Release

On 09/24/08, Miles submitted a press release (attached) to all local media about ways to conserve water and save money.

Date: 9/25/2008 Responsible Party: Miles Slattery, Project Manager
Water Conservation Pamphlets

Miles printed and gave Daniel Vit, Utility Worker II, 50 City of Eureka Water Conservation at Home pamphlets to hand out to customers while reading water meters.

Date: 4/15/2009 Responsible Party: Miles Slattery, Project Manager
April 15, 2009 Water Conservation Curriculum

As per the requirements of DMM 8 of the City's UWMP, the City of Eureka's Stormwater Division contracts with Christina Ernst to research, develop, coordinate, and present a water conservation presentation at Washington Elementary School. This presentation will be included as a larger program to be offered to Eureka City School's fourth and fifth grade classes and teachers in the future. Initial research into the appropriate audience grade levels in relation to California State Content Standards and corresponding lesson options are also included.

Presentation of a water conservation lesson was presented on April 15, 2009 to Heather Gaiera's fifth grade class at Washington Elementary School.

Date: 6/2/2009 Responsible Party: Miles Slattery, Project Manager
Water Waste Ordinance

Stormwater Division staff amended the existing Water Shortage Regulations and re-named it the Water Shortage and Water Waste Regulations (attached) to comply with the IDDE MCM requiring the City to adopt a water waste ordinance preventing potable water runoff, non-recirculating car washes/laundry systems/fountains, single pass colling systems and washing of vehicles, building exteriors, sidewalks, driveways, parking areas, tennis courts, patios or other paved areas without the use of a positive shut-off nozzle on the hose. The new regulations were adopted by Council on June 2, 2009. The ordinance was posted on the Stormwater Division's webpage.

Date: 6/28/2010 Responsible Party: Miles Slattery, Project Manager
2009-10 Water Conservation PSA

The Stormwater Division submitted a water conservation PSA (written and audio attached) to all local media outlets via fax and e-mail. The radio spot was played on local radio.

Date: 6/30/2011 Responsible Party: Miles Slattery, Project Manager
2010-11 Water Conservation PSA

The Stormwater Division submitted a water conservation PSA (written and audio attached) to all local media outlets via fax and e-mail. The radio spot was played on local radio.

Construction Site Stormwater Runoff Control

Details of BMPs and Work Performed for Them

Advertise the Stormwater Hotline

Responsible Party: Miles Slattery, Project Manager

Advertise the Stormwater Hotline number on all educational pamphlets, posters, and storm water web site.

Measurable Goal: 25% compliance each fiscal year for 100% compliance by end of permit term.

Start Date: 7/1/2007

End Date: 6/30/2011

Percentage of work that has been accomplished for this BMP: 100 %

Work performed for the BMP listed above

Date: 6/1/2006 Responsible Party: Miles Slattery, Project Manager

Webpage

Advertised hotline on Eureka's Storm Water Division webpage.

Date: 6/30/2006 Responsible Party: Miles Slattery, Project Manager

NCSWC Webpage

Advertised hotline on NCSWC webpage (www.humboldtstormwater.com).

Date: 8/1/2006 Responsible Party: Miles Slattery, Project Manager

Business BMP Manuals

Advertised hotline on the four industry BMP manuals that are handed out to local businesses.

Date: 9/1/2006 Responsible Party: Miles Slattery, Project Manager

Construction BMP Pamphlets

Advertised the hotline on the twenty-one construction BMP pamphlets handed out to local contractors.

Date: 10/31/2006 Responsible Party: Miles Slattery, Project Manager

2007 Yellow Pages Recycling Guide

In the 'Recycling Guide' section of the yellow pages, advertised the stormwater hotline and webpage to report stormwater issues.

Date: 12/1/2006 Responsible Party: Miles Slattery, Project Manager

Coastal Currents

Humboldt Baykeepers Fall 2006 Coastal Currents magazine published an article about the City of Eureka's Stormwater Division. The article included information about the stormwater ordinance, hotline, webpage and contact information.

Date: 1/1/2007 Responsible Party: Miles Slattery, Project Manager

Stormwater Posters

Advertised the stormwater hotline on seven posters created by the City of Eureka (Pet Waste, Cigarettes, Toxics, Oil, Fertilizer, Car Wash and a 'Report It' poster) that will be distributed to local businesses, city facilities and other offices throughout the City.

Date: 2/7/2007 Responsible Party: Miles Slattery, Project Manager

KHUM 104.3 Coastal Currents

Miles was a guest on Humboldt Baykeepers Coastal Currents spot at noon on KHUM, 104.3 FM. He discussed the North Coast Stormwater Coalition, the City of Eureka's stormwater program and the different ways the public can report stormwater issues (Eureka's hotline and webpage).

Date: 3/14/2007 Responsible Party: Miles Slattery, Project Manager

Paving the Way for Rain Workshop

Handed out pamphlets with local stormwater hotlines printed on them at the 'Paving the Way for

Rain' workshop. It was a full day workshop on permeable pavement. Morning session was an overview of permeable pavement and the four different pavement types (pervious concrete, pervious asphalt, interlocking concrete pavers and reinforced grass pavement). Afternoon session was a series of technical sessions explaining installation, cost and performance.

Date: 7/1/2007 Responsible Party: NCSWC Members, Active Members

Humboldt Transit Authority Bus Ads

Paid for two ads ("Scoop the Poop" and "Hang on to Your Butts") to be displayed on Humboldt Transit Authority buses. The ads will run from July 1, 2007 through Oct. 30, 2007. The ad includes the coalition webpage address which has the City of Eureka's stormwater hotline number on it.

Date: 10/1/2007 Responsible Party: Miles Slattery, Project Manager

2008 Yellow Pages Recycling Guide

In the 'Recycling Guide' section of the yellow pages, advertised the stormwater hotline and webpage to report stormwater issues.

Date: 4/15/2008 Responsible Party: NCSWC Members, Active Members

KSLG 94.1 Radio Spot

Morguine Sefcik and Natalie Arroyo went on KSLG for a 15 minute interview about the Prop 50 grant they received on behalf of the NCSWC. They discussed the workshops we've sponsored, plugged the stormwater hotlines and the Mayday Community Clean Up event.

Date: 5/7/2008 Responsible Party: Miles Slattery, Project Manager

KHUM 104.3 Coastal Currents

Miles was a guest on KHUM 104.3's Coastal Currents. Miles discussed the upcoming Mayday Community Clean Up, the North Coast Stormwater Coalition, the upcoming region wide hotline number and the City's recently approved Construction Site Erosion Control Ordinance. Audio is attached.

Date: 9/15/2008 Responsible Party: Miles Slattery, Project Manager

North Coast Stormwater Coalition Refrigerator Magnets

As a part of the City of Eureka SEP, refrigerator magnets were purchased with the region wide hotline number printed on them. The magnets will be passed out to interested residents at all of the local MS4's stormwater offices as well as at local workshops.

Date: 9/23/2008 Responsible Party: Miles Slattery, Project Manager

Region Wide Hotline Bus Ads

As a part of a SEP, the Stormwater Division had two ads printed (attached) and posted on two County wide buses from 9/23/08 to 3/31/09.

Date: 10/1/2008 Responsible Party: Miles Slattery, Project Manager

2009 Yellow Pages Recycling Guide

In the 'Recycling Guide' section of the yellow pages, advertised the stormwater hotline and webpage to report stormwater issues.

Date: 4/15/2009 Responsible Party: Angie Wood, Storm Water Project Manager

Times Standard Ad - Sustainable Humboldt

Regionwide hotline (877-NCSC-001) ad (attached) was posted in the April 15th 'Sustainable Humboldt' insert of the Times Standard.

Date: 6/30/2009 Responsible Party: Miles Slattery, Project Manager

2008-09 Hotline on Webpages

The City of Eureka's hotline number has been advertised on www.eurekastormwater.com all year, and the region wide hotline number has been advertised on the North Coast Stormwater Coalition's webpage, www.humboldtstormwater.org, all year.

Date: 7/1/2009 Responsible Party: Miles Slattery, Project Manager

Region Wide Hotline Bus Ad

As a part of a SEP, the Stormwater Division had an ad printed (attached) and posted on a County wide bus from 7/01/09 to 6/30/10.

Date: 10/1/2009 Responsible Party: Miles Slattery, Project Manager

2010 Yellow Page Recycling Guide

In the 'Recycling Guide' section of the yellow pages, advertised the stormwater hotline and

webpage to report stormwater issues.

Date: 10/2/2009 Responsible Party: Christina Ernst, Education Coordinator
Grant Elementary Presentation (10-2-09)
Stormwater Mapping Activity - 30 Students

This activity linked into a prior class presentation through Humboldt Baykeeper's Watershed Education and Training (WET) program, where students were given an introduction to stormwater pollution. In an effort to further students' understanding of how stormwater moves through their school's neighborhood, into sloughs, and ultimately the bay, a mapping activity was developed for the City of Eureka, Stormwater Division.

The activity involved five maps and a mapping activity worksheet which students completed in small groups and discussed together as a class after they completed the activity. Four of the maps were provided by the City of Eureka. Refer to the following mapping activity worksheet for details.

As well as tracing the movement of stormwater, the presentation also included a review of watershed and stormwater dynamics; the nature, scope, and effects of stormwater pollution as it moves through watersheds; and the actions we can all take to reduce and prevent stormwater pollution. The presentation ran approximately one hour and thirty minutes.

The following City of Eureka Stormwater Division posters were presented to and discussed with the class:

Be Wiser About Fertilizer
Don't Spoil Our Waterways with Oil
Keep Toxics Away from Our Waterways
Scoop the Poop
Soap is for Dishes not for Fishes
Report Stormwater Pollution

The classroom teacher was also provided with North Coast Stormwater Coalition magnets, Humboldt Bay Starts on your Street pamphlets, and the State Water Resources Control Board Citizen's Monitoring Program video--We All Live in a Watershed.

Date: 11/1/2010 Responsible Party: NCSWC Members, Active Members
Restaurant Poster

The North cOast Stormwater Coalition developed a 'Stormwater Friendly Restaurant Practices' poster for distribution to local restaurants. The poster (attached) includes the region-wide hotline number on it.

Date: 1/1/2011 Responsible Party: Miles Slattery, Project Manager
2011 Yellow Pages Recycling Guide

In the 'Recycling Guide' section of the yellow pages, advertised the stormwater hotline and webpage to report stormwater issues.

Date: 6/30/2011 Responsible Party: Miles Slattery, Project Manager
2010-11 Construction Site BMP Pamphlets

The 19 Construction Site BMP Pamphlets (w/hotline information) have been mounted for distribution at the Building Department counter where all the pre-construction meetings are held.

Date: 6/30/2011 Responsible Party: Miles Slattery, Project Manager
2010-11 Educational Materials

During this permit year, the City's stormwater flyer (w/hotline number) has been at the front desk of the water billing office and the the Public Works office. The Water Conservation Pamphlet has been displayed at the water billing office. All of the stormwater posters, BMP manuals, ordinances

Council.

Continue Building Inspections

Responsible Party: John Fitzhugh, Deputy Building Official

Building Inspection staff to continue inspecting construction sites to ensure proper erosion and sediment controls.

Measurable Goal: Inspect 100% of construction sites.

Start Date: 7/1/2006

End Date: 6/30/2011

Percentage of work that has been accomplished for this BMP: 100 %

Work performed for the BMP listed above

Date: 6/30/2007 Responsible Party: John Fitzhugh, Deputy Building Official

2006-07 Building Inspections

From 07/01/06 to 06/30/07, 100% of construction sites that submitted plans to the City were inspected for proper erosion and sediment controls.

Date: 6/30/2008 Responsible Party: John Fitzhugh, Deputy Building Official

2007-08 Building Inspections

From 07/01/07 to 06/30/08, 100% of construction sites that submitted plans to the City were inspected for proper erosion and sediment controls.

Date: 6/30/2009 Responsible Party: John Fitzhugh, Deputy Building Official

2008-09 Building Inspections

From 07/01/08 to 06/30/09, 100% of construction sites that submitted plans to the City were inspected for proper erosion and sediment controls.

Date: 6/30/2010 Responsible Party: John Fitzhugh, Deputy Building Official

2009-10 Building Inspections

From 07/01/09 to 06/30/10, 100% of construction sites that submitted Erosion Control Permit Applications to the City were inspected for proper erosion and sediment controls.

Date: 6/30/2011 Responsible Party: Brian Gerving, Chief Building Official

2010-11 Building Inspections

From 07/01/10 to 06/30/11, 100% of construction sites that submitted Erosion Control Permit Applications to the City were inspected for proper erosion and sediment controls.

Continue Review of Building & Grading Permits

Responsible Party: Brent Siemer, City Engineer

Building Permit staff to continue review of Building & Grading Permits for construction to ensure proper erosion and sediment controls.

Measurable Goal: Review 100% of Building & Grading Permit applications for sediment and erosion control plans.

Start Date: 7/1/2006

End Date: 6/30/2011

Percentage of work that has been accomplished for this BMP: 100 %

Work performed for the BMP listed above

Date: 6/30/2007 Responsible Party: Brent Siemer, City Engineer

2006-07 Building and Grading Permits

From 07/01/06 to 06/30/07, 100% of building plans submitted to the City were reviewed for erosion and sediment control plans.

Date: 6/30/2008 Responsible Party: Miles Slattery, Project Manager

2007-08 Building and Grading Permits

From 07/01/07 to 06/30/08, 100% of building plans submitted to the City were reviewed for erosion

and sediment control plans.

Date: 6/30/2009 Responsible Party: John Fitzhugh, Deputy Building Official
2008-09 Building and Grading Permits

From 07/01/08 to 06/30/09, 100% of building plans submitted to the City were reviewed for erosion and sediment control plans.

Date: 7/30/2010 Responsible Party: John Fitzhugh, Deputy Building Official
2009-10 Building and Grading Permits

From 07/01/09 to 06/30/10 100% of building plans submitted to the City were reviewed for erosion and sediment control plans.

Date: 6/30/2011 Responsible Party: Brian Gerving, Chief Building Official
2010-11 Building and Grading Permits

From 07/01/10 to 06/30/11 100% of building plans submitted to the City were reviewed for erosion and sediment control plans.

Develop & Distribute Outreach Material for Contractors

Responsible Party: Miles Slattery, Project Manager

Develop and distribute outreach materials for developers and contractors such as a flowchart describing the Erosion Control Plan requirements.

Measurable Goal: Outreach materials distributed to 100% of developers / contractors during pre-construction m

Start Date: 7/1/2007

End Date: 6/30/2011

Percentage of work that has been accomplished for this BMP: 100 %

Work performed for the BMP listed above

Date: 6/27/2007 Responsible Party: Miles Slattery, Project Manager
Erosion Control Article

Miles had an article published in the Contractor's Guide of the Wednesday edition of the Times Standard. Discussed erosion and sediment control. Promoted erosion control as 90% effective, but must be used in conjunction with sediment control (article attached).

Date: 11/2/2007 Responsible Party: NCSWC Members, Active Members
Costruction Site Stormwater Management Workshop

The North Coast Stormwater Coalition sponsored a workshop for construction site stormwater management. The morning session included presentations on construction site BMPs (Craig Benson, RCAA), constructing roadways and driveways (Tyler Ledwith, RCAA) and local ordinance compliance (Miles Slattery, City of Eureka). The afternoon session provided two options. There was hands on erosion and sediment control BMP instillation training or EPA certified construction site stormwater management training. During the workshop, the City of Eureka Construction Site BMP pamphlets (19 BMP pamphlets) were made available to attendees. 91 people attended the conference. 26 attended the BMP instillation training, and 54 attended the stormwater manager training.

Date: 12/4/2007 Responsible Party: NCSWC Members, Active Members
Landscape Design with Stormwater in Mind Conference

The North Coast Stormwater Coalition sponsored a workshop for landscape professionals and residents. The conference included presentations on local ordinance compliance (Miles Slattery, City of Eureka), the landscape/stormwater connection (Loren Oki, UC Cooperative Extension), creating a balance with IPM (Annie Joseph, OWOW), landscape features that minimize runoff (Loren Oki, UC Cooperative Extension), less toxic lawns and alternatives (Deborah Giraud, UC Cooperative Extension) and sustainable landscape (Donna Wildearth, Wildearth Designs). During the workshop, local nurseries, landscape supply companies and the NCSWC handed out stormwater friendly BMP material and educational material. 72 people attended the conference.

Date: 6/10/2008 Responsible Party: Miles Slattery, Project Manager
Construction Site BMP Pamphlets

The 19 Construction Site BMP Pamphlets were mounted at the Building Department counter where all the pre-construction meetings are held.

Date: 9/9/2008 Responsible Party: Miles Slattery, Project Manager
Erosion Control PSA

The Stormwater Division worked with Lost Coast Communications to develop a PSA (attached) announcing the implementation of the erosion control ordinance that will air on KHUM, KSLG & KWPT. By purchasing 34 :60 spots (6a-7p) on each station you will receive 17 Public Service Announcement buy-back spots, making your total 51 spots per station, 153 total. It will play for two weeks (weekdays only) and run from 9/9-9/15 and another from 9/23-9/29, with an average of 5 spots per day.

Date: 9/24/2008 Responsible Party: Miles Slattery, Project Manager
Erosion Control Ordinance Press Release

On 09/24/08, Miles submitted a press release (attached) announcing the adoption and implementation of the erosion control ordinance.

Date: 6/15/2009 Responsible Party: Miles Slattery, Project Manager
Construction BMP Manual Media

Radio spot (attached) announcing the availability of three City of Eureka BMP manuals for stormwater (Regulations, Construction Site BMPs and LID). The manuals include descriptions of local and state stormwater regulations pertaining to construction, instillation and maintenance of construction site BMPs and instillation and maintenance of Low Impact Development for as built.

The Stormwater Division paid \$500 for spots on KGOE, KKHB, KRED, KATA, KFMI, KXGO and KJNY. The radio spot was also forwarded to all local stations and aired for free. The Stormwater Division received over 100 spots from the paid stations, as well as free airtime from those and other stations the radio spot was sent to. These radio stations have an audience of over 100,000 listeners.

Date: 6/30/2009 Responsible Party: Miles Slattery, Project Manager
2008-09 Construction Site BMP Pamphlets

The 19 Construction Site BMP Pamphlets have been mounted for distribution at the Building Department counter where all the pre-construction meetings are held.

Date: 6/30/2010 Responsible Party: Miles Slattery, Project Manager
2009-10 Construction Site BMP Pamphlets

The 19 Construction Site BMP Pamphlets have been mounted for distribution at the Building Department counter where all the pre-construction meetings are held.

Date: 3/17/2011 Responsible Party: Miles Slattery, <Unknown>
Phase II Presentation for QSD-QSP Training

Enplan held a QSD/QSP training at Greenway Partners offices in Arcata. Miles came in and gave a 30 minute presentation about the Phase II program and the pending permit renewal.

Date: 6/30/2011 Responsible Party: Miles Slattery, Project Manager
Webpage Content

The Construction Stormwater Regulations, Construction Site BMP and LID Manuals are available on the Stormwater Division's webpage (www.eurekastormwater.com) as resources for developers and contractors.

Date: 6/30/2011 Responsible Party: Miles Slattery, Project Manager
2010-11 Construction Site BMP Pamphlets

The 19 Construction Site BMP Pamphlets (w/hotline information) have been mounted for distribution at the Building Department counter where all the pre-construction meetings are held.

Responsible Party: Miles Slattery, Project Manager

Building Department to develop construction & grading permit review procedures, including checklists, & educational materials.

Measurable Goal: Review, document, and enforce 100% of permit requirements.

Start Date: 7/1/2007

End Date: 6/30/2009

Percentage of work that has been accomplished for this BMP: 100 %

Work performed for the BMP listed above

Date: 1/1/2008 Responsible Party: John Fitzhugh, Deputy Building Official
Grading and Building Permits

At the beginning of 2008, the California Building Code switched from the Uniform Building Code to the International Building Code and mandated that local municipalities follow suit. On January 1st, 2008, the Building Department adopted the International Building Code to regulate grading and building permits. Grading projects involving >50 cu. yards require a grading permit and any building projects require a building permit through the Building Department. Plans need to be submitted for review and approval. Brian Gerving, Plans Examiner, reviews all grading and building permit applications for compliance with the International Building Code. Miles Slattery reviews all grading and building permit applications for compliance with the stormwater ordinance and post construction stormwater management requirements. All building and grading permit reviews are maintained and tracked in TrakIT.

Stormwater educational materials have been made available to contractors at www.eurekastormwater.com and at the Building Department kiosk where pre-construction meetings are held. When the Construction BMP Manual is adopted, it will be made available on-line and at the Building Department kiosk.

Date: 5/20/2008 Responsible Party: Miles Slattery, Project Manager
Erosion Control Ordinance

The City Council adopted BILL NO. 783 - Construction Site Erosion Control Ordinance (attached). The ordinance will go into effect 6/20/08. Enforcement will begin in October 2008.

The Stormwater Division is working on PSAs and outreach to contractors about the erosion control ordinance. This will be accomplished over the summer in preparation for promulgation of the ordinance's requirements. When enforcement begins in October 2008, Miles Slattery will review all Erosion Control Permit applications for compliance with the ordinance prior to approving the permit.

Develop Construction Site Inspection Procedures

Responsible Party: Miles Slattery, Project Manager

Public Works to develop construction site inspection procedures, including checklists, educational materials, scheduling for pre-storm and post-storm inspections, and enforcement.

Measurable Goal: Inspect, document, and enforce 100% of construction sit

Start Date: 7/1/2007

End Date: 6/30/2009

Percentage of work that has been accomplished for this BMP: 100 %

Work performed for the BMP listed above

Date: 6/27/2008 Responsible Party: John Fitzhugh, Deputy Building Official
Construction Site Stormwater Inspections

On 06/27/08, Miles met with John Fitzhugh to discuss the implementation of the erosion control ordinance and ensuring compliance. Beginning in October 2008, a new record will be created in TrackIT for each building permit called 'Stormwater'. The Building Inspector will inspect the site for compliance with their Erosion Control Permit each time they're at the site for other inspections. The signed Erosion Control Permit Application will serve as the permit and also as a checklist for the

inspector. If the site is out of compliance, the Building Inspector will write a Correction Notice to the contractor and notify Miles to take action. These referrals will be documented in the 'Construction Projects' module of ASIST. Contractors/Owners will be given ample time to rectify the problems. If they are non-responsive, an administrative fine will be issued. If they are still non-responsive, the City will take care of the issue and bill the contractor/owner for the cost of abatement as is stated in the erosion control ordinance. During pre-site visit, the Plan Review Specialist will notify applicants whether or not they need to submit an Erosion Control Permit Application. Building inspections that discover sites that should have an application submitted but don't will result in a stop work order until the application is submitted.

The City only has two building inspectors and their workload is already full. We do not have the staff necessary to inspect all sites pre and post storms. That is why the Stormwater Division had training for all Public Works field crews, who are out in the field every day throughout the City, so that they can notify the Stormwater Division of any sediment discharges. These referrals are documented in the 'Citizen Call' module of ASIST.

To help contractors stay in compliance, stormwater educational materials have been made available to contractors at www.eurekastormwater.com and at the Building Department kiosk where pre-construction meetings are held. When the Construction BMP Manual is adopted, it will be made available on-line and at the Building Department kiosk.

Establish Stormwater Hotline

Responsible Party: Miles Slattery, Project Manager

Measurable Goal: Dedicated phone number established for use as stormwater hotline.

Start Date: 7/1/2006

End Date: 6/30/2007

Percentage of work that has been accomplished for this BMP: 100 %

Work performed for the BMP listed above

Date: 5/15/2006 Responsible Party: Miles Slattery, Project Manager
Stormwater Hotline

Established storm water hotline - 707.441.4192. Answered by Susan Hutchison and Pearl Mendoza, Public Works Administrative Assistants.

Date: 7/31/2008 Responsible Party: Miles Slattery, Project Manager
Region Wide Hotline Number

As a part of a SEP, the City of Eureka has established a region wide hotline number for all the MS4s in Humboldt County (1.877.NCSC001). The number will have a call navigator system that will prompt the caller to direct the call to the appropriate MS4's hotline.

Date: 9/17/2008 Responsible Party: Miles Slattery, Project Manager
Magnets

The Stormwater Division purchased 3,000 refrigerator magnets (attached) for distribution at local events and workshops sponsored by the NCSC and Stormwater Division as a part of a SEP for the City.

Information on Construction BMP Manual in PSAs

Responsible Party: Miles Slattery, Project Manager

Include information on the BMP Manual in public service announcements.

Measurable Goal: Information on the BMP Manual included in at least 1 public service announcement.

Start Date: 7/1/2009

End Date: 6/30/2010

Percentage of work that has been accomplished for this BMP: 100 %

Work performed for the BMP listed above

Date: 6/15/2009 Responsible Party: Miles Slattery, Project Manager
Construction BMP Manual Media

Radio spot (attached) announcing the availability of three City of Eureka BMP manuals for stormwater (Regulations, Construction Site BMPs and LID). The manuals include descriptions of local and state stormwater regulations pertaining to construction, instillation and maintenance of construction site BMPs and instillation and maintenance of Low Impact Development for as built.

The Stormwater Division paid \$500 for spots on KGOE, KKHB, KRED, KATA, KFMI, KXGO and KJNY. The radio spot was also forwarded to all local stations and aired for free. The Stormwater Division received over 100 spots from the paid stations, as well as free airtime from those and other stations the radio spot was sent to. These radio stations have an audience of over 100,000 listeners.

Information on Stormwater Erosion Control Ordinance in PSAs

Responsible Party: Miles Slattery, Project Manager

Include information on the stormwater erosion control ordinance in public service announcements.

Measurable Goal: Information on the stormwater erosion control ordinance included in at least 1 public service announcement.

Start Date: 7/1/2007

End Date: 6/30/2009

Percentage of work that has been accomplished for this BMP: 100 %

Work performed for the BMP listed above

Date: 6/27/2007 Responsible Party: Miles Slattery, Project Manager
Erosion Control Article

Miles had an article published in the Contractor's Guide of the Wednesday edition of the Times Standard. Discussed erosion and sediment control. Promoted erosion control as 90% effective, but must be used in conjunction with sediment control (article attached).

Date: 5/7/2008 Responsible Party: Miles Slattery, Project Manager
KHUM 104.3 Coastal Currents

Miles was a guest on KHUM 104.3's Coastal Currents. Miles discussed the upcoming Mayday Community Clean Up, the North Coast Stormwater Coalition, the upcoming region wide hotline number and the City's recently approved Construction Site Erosion Control Ordinance. Audio is attached.

Date: 9/9/2008 Responsible Party: Miles Slattery, Project Manager
Erosion Control PSA

The Stormwater Division worked with Lost Coast Communications to develop a PSA (attached) announcing the implementation of the erosion control ordinance that will air on KHUM, KSLG & KWPT. By purchasing 34 :60 spots (6a-7p) on each station you will receive 17 Public Service Announcement buy-back spots, making your total 51 spots per station, 153 total. It will play for two weeks (weekdays only) and run from 9/9-9/15 and another from 9/23-9/29, with an average of 5 spots per day.

Date: 9/24/2008 Responsible Party: Miles Slattery, Project Manager
Erosion Control Ordinance Press Release

On 09/24/08, Miles submitted a press release (attached) announcing the adoption and implementation of the erosion control ordinance. He also e-mailed KIEM News Channel 3 the press release.

Oversee Enforcement of Construction BMP Manual

Responsible Party: Miles Slattery, Project Manager

Oversee implementation of BMP Manual.

Measurable Goal: Enforce 100% of implementation of BMP Manual.

Start Date: 7/1/2008

End Date: 6/30/2011

Percentage of work that has been accomplished for this BMP: 100 %

Work performed for the BMP listed above

Date: 6/30/2009 Responsible Party: Miles Slattery, Project Manager

2008-09 Enforcement

Enforcement of the BMP Manual is done through Building Department inspections and erosion control ordinance enforcement. All erosion control permit applications were attached to their building permit number in the 'Construction Project' module of ASIST. All inspections resulting in issues were forwarded to the Stormwater Division. The Stormwater Division documents the issues in ASIST's 'Construction Project' module under the permit number.

Date: 6/30/2010 Responsible Party: Miles Slattery, Project Manager

2009-10 Enforcement

Enforcement of the BMP Manual is done through Building Department inspections and erosion control ordinance enforcement. All erosion control permit applications were attached to their building permit number in the 'Construction Project' module of ASIST. All inspections resulting in issues were forwarded to the Stormwater Division. The Stormwater Division documents the issues in ASIST's 'Construction Project' module under the permit number.

Date: 6/30/2011 Responsible Party: Brian Gerving, Chief Building Official

2010-11 Enforcement

Enforcement of the BMP Manual is done through Building Department inspections and erosion control ordinance enforcement. All erosion control permit applications were attached to their building permit number in the 'Construction Project' module of ASIST. All inspections resulting in issues were forwarded to the Stormwater Division. The Stormwater Division documents the issues in ASIST's 'Citizen Call' module under the permit number.

Oversee Enforcement of Stormwater Erosion Control Ordinance

Responsible Party: Miles Slattery, Project Manager

Oversee implementation and enforcement of ordinance.

Measurable Goal: Enforce 100% of observed illicit discharges.

Start Date: 7/1/2007

End Date: 6/30/2011

Percentage of work that has been accomplished for this BMP: 100 %

Work performed for the BMP listed above

Date: 6/30/2008 Responsible Party: Miles Slattery, Project Manager

2007-08 Enforcement

Enforcement of the erosion control ordinance will not be in effect until October 2008. However, the stormwater management and discharge control ordinance has been 100% enforced throughout this permit term, which includes many responses to construction sites regarding sediment discharges (see 'Citizen Call' module of ASIST). An administrative fine issued to Danco on 02/04/08 (see 'Citizen Call' module of ASIST, SW-0065 on 01/31/08).

Date: 6/30/2009 Responsible Party: Miles Slattery, Project Manager

2008-09 Enforcement

Enforcement of the erosion control ordinance went into effect in October 2008. All erosion control permit applications were attached to their building permit number in the 'Construction Project' module of ASIST. Inspections that resulted in a report of sediment discharges were forwarded to the Stormwater Division for follow up.

Date: 6/30/2010 Responsible Party: Miles Slattery, Project Manager

2009-10 Enforcement

Enforcement of the erosion control ordinance went into effect in October 2008. All erosion control permit applications were attached to their building permit number in the 'Construction Project' module of ASIST. Inspections that resulted in a report of sediment discharges were forwarded to the Stormwater Division for follow up.

Date: 6/30/2011 Responsible Party: Miles Slattery, Project Manager
2010-11 Enforcement

Enforcement of the erosion control ordinance went into effect in October 2008. All erosion control permit applications were attached to their building permit number in the 'Construction Project' module of ASIST. Inspections that resulted in a report of sediment discharges were forwarded to the Stormwater Division for follow up.

Present Construction BMP Manual

Responsible Party: Miles Slattery, Project Manager

Present BMP Manual to City Council for adoption.

Measurable Goal: BMP Manual adopted.

Start Date: 7/1/2008

End Date: 6/30/2009

Percentage of work that has been accomplished for this BMP: 100 %

Work performed for the BMP listed above

Date: 6/1/2009 Responsible Party: Miles Slattery, Project Manager
BMP Manuals

With the assistance from Winzler and Kelly, the Stormwater Division created three construction BMP manuals, the Construction Stormwater Regulations Manual, the Construction BMP Manual and the Construction LID Manual. All three of the manuals were approved and adopted by City Council on July 7, 2009.

Miles created a section on the Stormwater Division's webpage for BMP Manuals to be posted. He posted the three construction site BMP manuals on the page. When the Integrated Pesticide, Herbicide and Fertilizer Management Plan and Pollution Prevention and Good Housekeeping manuals are finalized, they will be posted as well.

Present Stormwater Erosion Control Ordinance

Responsible Party: Miles Slattery, Project Manager

Present ordinance to City Council.

Measurable Goal: Storm water ordinance adopted.

Start Date: 7/1/2007

End Date: 6/30/2008

Percentage of work that has been accomplished for this BMP: 100 %

Work performed for the BMP listed above

Date: 5/6/2008 Responsible Party: Miles Slattery, Project Manager
Erosion Control Ordinance Approved

Mike Knight, Assistant City Manager, presented the Construction Site Erosion Control Ordinance to the City Council. The Council approved the ordinance. Ordinance attached.

Date: 5/20/2008 Responsible Party: Miles Slattery, Project Manager
Erosion Control Ordinance Adopted

The City Council adopted BILL NO. 783 - Construction Site Erosion Control Ordinance (attached). The ordinance will go into effect 6/20/08. Enforcement will begin in October 2008.

The Stormwater Division is working on PSAs and outreach to contractors about the erosion control

ordinance. This will be accomplished over the summer in preparation for promulgation of the ordinance's requirements.

Date: 9/11/2008 Responsible Party: Miles Slattery, Project Manager
Erosion Control Permit Application

Created a link under 'Stormwater Ordinances' associated with the 'Construction Site Erosion Control Ordinance' for the Erosion Control Permit Application. Contractors now have access to it without having to come to the Building Department.

Review Construction BMP Manual

Responsible Party: Sheryl Schaffner, City Attorney
City Attorney and City Engineer to review Draft BMP Manual.

Measurable Goal: BMP Manual reviewed and revised.

Start Date: 7/1/2007 End Date: 6/30/2008
Percentage of work that has been accomplished for this BMP: 100 %

Work performed for the BMP listed above

Date: 7/11/2008 Responsible Party: Miles Slattery, Project Manager
Stormwater Division Review

By 07/11/08, Miles reviewed the Construction BMP Manual and returned it to Winzler and Kelly for significant modification. Over the following three weeks, through multiple revisions, the draft was approved by the Stormwater Division. On 08/07/08, Miles forwarded the manual to Engineering, Community Development and Building for review and training. Their comments are due back to the Stormwater Division before the end of August so that it is finalized prior to advertising the erosion control ordinance through PSAs in September. This will coincide with the beginning enforcement of the erosion control ordinance in October 2008.

Date: 9/1/2008 Responsible Party: Miles Slattery, Project Manager
BMP Manual Review

With the assistance from Winzler and Kelly, the Stormwater Division created three construction BMP manuals, the Construction Stormwater Regulations Manual, the Construction BMP Manual and the Construction LID Manual. City of Eureka engineering, community development, city attorney and public works departments reviewed them, as well as the North Coast Regional Water Quality Control Board. All three of the manuals were approved and adopted by City Council on July 7, 2009.

Miles created a section on the Stormwater Division's webpage for BMP Manuals to be posted. He posted the three construction site BMP manuals on the page. When the Integrated Pesticide, Herbicide and Fertilizer Management Plan and Pollution Prevention and Good Housekeeping manuals are finalized, they will be posted as well.

Review Stormwater Erosion Control Ordinance

Responsible Party: Sheryl Schaffner, City Attorney
City Attorney and City Engineer to review stormwater ordinance.

Measurable Goal: Stormwater ordinance reviewed and revised.

Start Date: 7/1/2006 End Date: 6/30/2007
Percentage of work that has been accomplished for this BMP: 100 %

Work performed for the BMP listed above

Date: 3/22/2007 Responsible Party: Mike Knight, Assistant City Manager
Erosion Control Ordinance Review

Miles completed the draft erosion control ordinance and forwarded it to Mike Knight, Assistant City

Manager, Brent Siemer, City Engineer, and Lisa Shikany, Environmental Planner, for review. John Fitzhugh, Deputy Building Official, reviewed the ordinance and returned it to Mike Knight on 03/22/06. Brent reviewed and approved the ordinance. Lisa made comments, and they were considered. The ordinance will now be forwarded to the City Attorney and then to Council.

Date: 11/28/2007 Responsible Party: Sheryl Schaffner, City Attorney

Erosion Control Ordinance Review by City Attorney

Sheryl Schaffner, City Attorney, reviewed the erosion control ordinance and met with Miles Slattery, Project Manager, and Mike Knight, Assistant City Manager on 11/28/07. Sheryl's edits and additions were reviewed and amended to the erosion control ordinance.

Review Stormwater Hotline Complaints

Responsible Party: Miles Slattery, Project Manager

Review the types of complaints to determine areas of concern to be targeted for outreach and additional monitoring. Perform additional outreach, monitoring, and maintenance as necessary.

Measurable Goal: Areas of concern identified and additional outre

Start Date: 7/1/2007

End Date: 6/30/2011

Percentage of work that has been accomplished for this BMP: 100 %

Work performed for the BMP listed above

Date: 6/30/2008 Responsible Party: Miles Slattery, Project Manager

2007-08 Complaint Logs

Miles Slattery reviewed the complaints logs in the 'Citizen Call' module of ASIST during the 2007-08 permit year. The most frequent complaints were about construction activities, restaurants and car washing.

To address construction activities, the Stormwater Division developed 19 construction BMP pamphlets, held two workshops ('Paving the Way for Rain' and 'Construction Site Stormwater Management'), adopted an erosion control ordinance (Oct. '08 implementation) and completed the draft Construction Site BMP Manual (under review).

To address the restaurant industry, the Stormwater Division created a BMP manual that has been and will be passed out to restaurants that have had a complaint filed against them. Also, the NCSW is working on creating a BMP placard to be distributed to local area restaurants as a form of public education and outreach that can be displayed in the kitchen areas.

To address the nutrient levels, the NCSWC has contacted local area fundraising car washes and changed their locations, the type of soap used and are looking into installing filters at locations known to host car washing events. The Stormwater Division has stopped fundraising washes at inappropriate locations like the Shell Gas Station on Myrtle (see 'Citizen Call' module) and responds to complaints of washes at inappropriate locations.

Miles also has been working car dealerships to install BMPs to prevent soapy discharges from leaving their property (see 'Citizen Call' module).

Date: 6/30/2009 Responsible Party: Miles Slattery, Project Manager

2008-09 Complaint Logs

Miles Slattery reviewed the complaints logs in the 'Citizen Call' module of ASIST during the 2008-09 permit year. The most frequent complaints were about construction activities, restaurants and car washing.

To address construction activities, the Stormwater Division developed 19 construction BMP pamphlets, adopted an erosion control ordinance and adopted the three Construction BMP Manuals.

Miles, working with Humboldt Baykeeper, added TSS as an analyte of interest in their monitoring.

The Stormwater Division and Humboldt Baykeeper also implemented quarterly TSS sampling in our local waterways.

Date: 6/30/2010 Responsible Party: Miles Slattery, Project Manager
2010-11 Complaint Logs

Miles Slattery reviewed the complaints logs in the 'Citizen Call' module of ASIST during the 2010-11 permit year. The most frequent complaints were about construction activities and restaurants.

The same proactive response and resolutions to the above mentioned complaints has been performed during this permit year.

Date: 6/30/2010 Responsible Party: Miles Slattery, Project Manager
2009-10 Complaint Logs

Miles Slattery reviewed the complaints logs in the 'Citizen Call' module of ASIST during the 2009-10 permit year. The most frequent complaints were about construction activities, restaurants and car washing.

The same proactive response and resolutions to the above mentioned complaints has been performed during this permit year, with more of an emphasis on LID. The Stormwater Division developed maintenance agreements for LID BMPs similar to the maintenance agreements for DI filters.

Track Erosion Control Plans

Responsible Party: Miles Slattery, Project Manager

Track the proportion of erosion control plans submitted that meet the city's new standards for erosion control.

Measurable Goal: Evaluate the results and determine if additional education and outreach to developers and contractors is needed; Conduct a

Start Date: 7/1/2008 End Date: 6/30/2011

Percentage of work that has been accomplished for this BMP: 100 %

Work performed for the BMP listed above

Date: 6/30/2009 Responsible Party: Miles Slattery, Project Manager
2008-09 Tracking

For permit year 2008-09, all erosion control permit applications were attached to their building permit number in the 'Construction Project' module of ASIST. Those projects that were inspected and found to be in violation of the erosion control ordinance, were addressed. The issue was entered in the 'Construction Project' module of ASIST and followed up by the Stormwater Division. The contractor or foreman on site was notified and given opportunity to rectify the issue. If the issue was not resolved, then fines were administered.

Date: 6/30/2010 Responsible Party: Miles Slattery, Project Manager
2009-10 Tracking

For permit year 2009-10, all erosion control permit applications were attached to their building permit number in the 'Construction Project' module of ASIST. Those projects that were inspected and found to be in violation of the erosion control ordinance, were addressed. The issue was entered in the 'Construction Project' module of ASIST and followed up by the Stormwater Division. The contractor or foreman on site was notified and given opportunity to rectify the issue. If the issue was not resolved, then fines were administered.

Date: 6/30/2011 Responsible Party: Miles Slattery, Project Manager
2010-11 Tracking

For permit year 2010-11, all erosion control permit applications were attached to their building

permit number in the 'Construction Project' module of ASIST. Those projects that were inspected and found to be in violation of the erosion control ordinance, were addressed. The issue was entered in the 'Construction Project' module of ASIST and followed up by the Stormwater Division. The contractor or foreman on site was notified and given opportunity to rectify the issue. If the issue was not resolved, then fines were administered.

Tracking Mechanism for Stormwater Hotline

Responsible Party: Miles Slattery, Project Manager

Establish tracking mechanism for use by Hotline Operator to track complaint and action taken.

Measurable Goal: Tracking mechanism in place.

Start Date: 7/1/2006

End Date: 6/30/2007

Percentage of work that has been accomplished for this BMP: 100 %

Work performed for the BMP listed above

Date: 5/15/2006

Responsible Party: Miles Slattery, Project Manager

ASIST

Hotline operator, Susan Hutchison, enters stormwater hotline complaint into the already existing Public Works' Trackit software as a storm water issue. All storm water issues in Trackit are forwarded to Miles Slattery, Project Manager Stormwater Division, via Trackit. Miles documents the complaint and action taken into the ASIST database. All hotline complaints are then reported using ASIST.

Train City Staff on Erosion Control Ordinance & Construction BMP Manual

Responsible Party: Miles Slattery, Project Manager

Provide in-house training during staff review committee meetings regarding new erosion control ordinance requirements and BMP Manual to appropriate Public Works, Building, and Planning Department staff involved with plan review, approval, and construction

Start Date: 7/1/2007

End Date: 6/30/2011

Percentage of work that has been accomplished for this BMP: 100 %

Work performed for the BMP listed above

Date: 3/22/2007

Responsible Party: Mike Knight, Assistant City Manager

Erosion Control Ordinance Review

Miles completed the draft erosion control ordinance and forwarded it to Mike Knight, Assistant City Manager, Brent Siemer, City Engineer, and Lisa Shikany, Environmental Planner, for review. John Fitzhugh, Deputy Building Official, reviewed the ordinance and returned it to Mike Knight on 03/22/06. Brent reviewed and approved the ordinance. Lisa made comments, and they were considered. This review process also provided training for staff involved with plan review, approval, and construction site inspections. The ordinance will now be forwarded to the City Attorney and then to Council.

Date: 11/2/2007

Responsible Party: NCSWC Members, Active Members

Construction Site Stormwater Management Workshop

The North Coast Stormwater Coalition sponsored a workshop for construction site stormwater management. The morning session included presentations on construction site BMPs (Craig Benson, RCAA), constructing roadways and driveways (Tyler Ledwith, RCAA) and local ordinance compliance (Miles Slattery, City of Eureka). The afternoon session provided two options. There was hands on erosion and sediment control BMP instillation training or EPA certified construction site stormwater management training. Public Works field crew attended the conference and the BMP instillation training.

Date: 1/11/2008 Responsible Party: Miles Slattery, Project Manager
Parks, Facilities, Harbor Ordinance Training

Miles presented a power point presentation and training video for the Parks and Recreation Department. The power point gave an overview of the Stormwater Division and information about the stormwater and erosion control ordinances. The presentation explained what is considered a violation of the ordinances and how to report them to the appropriate personnel. The video provided examples of BMPs for municipal operations and information on how to detect illicit discharges. 16 staff members were in attendance.

Date: 4/11/2008 Responsible Party: Miles Slattery, Project Manager
Streets-Alleys, WW Collection and Water Distribution Ordinance Training

Miles presented a power point presentation and training video for the Streets/Alleys, Wastewater Collection and Water Distribution Divisions Department. The power point gave an overview of the Stormwater Division and information about the stormwater and erosion control ordinances. The presentation explained what is considered a violation of the ordinances and how to report them to the appropriate personnel. The video provided examples of BMPs for municipal operations and information on how to detect illicit discharges. 17 staff members were in attendance.

Date: 5/8/2008 Responsible Party: NCSWC Members, Active Members
IDDE Training

Winzler and Kelly, local engineering consultants, presented training on the IDDE component of Phase II permits. The training discussed program development, illicit connections, finding illicit connections (dye, smoke and video testing) and fixing illicit connections. Justin Boyes, Source Control Supervisor, and Miles Slattery attended.

Date: 6/27/2008 Responsible Party: Miles Slattery, Project Manager
Building Department Erosion Control Ordinance Training

The Building Department will be the only other City Department dealing with the implementation of the erosion control ordinance. So Miles met with John Fitzhugh to discuss its implementation.

On 06/27/08, Miles met with John Fitzhugh, Deputy Building Official, to discuss the implementation of the erosion control ordinance and ensuring compliance. Beginning in October 2008, a new record will be created in TrackIT for each building permit called 'Stormwater'. The Building Inspector will inspect the site for compliance with their Erosion Control Permit each time they're at the site for other inspections. The signed Erosion Control Permit Application will serve as the permit and also as a checklist for the inspector. If the site is out of compliance, the Building Inspector will notify Miles to take action. These referrals will be documented in the 'Construction Projects' module of ASIST. Contractors/Owners will be given ample time to rectify the problems. If they are non-responsive, an administrative fine will be issued. If they are still non-responsive, the City will take care of the issue and bill the contractor/owner for the cost of abatement as is stated in the erosion control ordinance. Our Building Inspectors already are aware of proper instillation and maintenance of sediment and erosion control measures through previous training and work experience.

Date: 8/7/2008 Responsible Party: Miles Slattery, Project Manager
Construction BMP Manual Training

On 08/07/08, Miles forwarded the Construction BMP Manual to Engineering, Community Development and Building for review and training. Staff has been directed to go over the manual and contact Miles with any questions or comments. The Engineering and Building Department staff already are aware of proper instillation and maintenance of sediment and erosion control measures through previous training and work experience. Community Development will not be responsible for plan review or inspections of erosion and sediment control.

Date: 6/30/2009 Responsible Party: Miles Slattery, Project Manager
2008-09 Training

All Stormwater Division and Building Department staff employed during this permit year have been trained on erosion control ordinance enforcement.

Date: 6/30/2010 Responsible Party: Miles Slattery, Project Manager
2009-10 Training

All Stormwater Division and Building Department staff employed during this permit year have been trained on erosion control ordinance enforcement.

Date: 6/30/2011 Responsible Party: Miles Slattery, Project Manager
2010-11 Training

All Stormwater Division and Building Department staff employed during this permit year have been trained on erosion control ordinance enforcement.

Post-Construction Stormwater Management

Details of BMPs and Work Performed for Them

Complete Draft Construction BMP Manual

Responsible Party: Miles Slattery, Project Manager

Complete Draft Construction Best Management Practices Manual.

Measurable Goal: Draft BMP Manual.

Start Date: 7/1/2007

End Date: 6/30/2008

Percentage of work that has been accomplished for this BMP: 100 %

Work performed for the BMP listed above

Date: 6/30/2008 Responsible Party: Miles Slattery, Project Manager
Construction BMP Manual

On 01/07/08, the Stormwater Division agreed upon a contract with Winzler and Kelly to develop the City of Eureka Construction BMP Manual. The manual will provide information pertaining to erosion and sediment control instillation and maintenance, pollution prevention measures on construction sites and LID information (benefits, practices, instillation, etc.). Miles was heavily involved in providing input and the preparation of the manual in order to cut down on costs.

On 06/30/08, the draft Construction BMP Manual was delivered.

Complete Draft Stormwater Erosion Control Ordinance

Responsible Party: Miles Slattery, Project Manager

Complete draft Stormwater Erosion Control ordinance.

Measurable Goal: Draft ordinance finalized.

Start Date: 7/1/2006

End Date: 6/30/2007

Percentage of work that has been accomplished for this BMP: 100 %

Work performed for the BMP listed above

Date: 1/12/2007 Responsible Party: Miles Slattery, Project Manager
Draft Erosion Control Ordinance

Miles completed the draft erosion control ordinance and forwarded it to Mike Knight, Assistant City Manager, for review. John Fitzhugh, Deputy Building Official, reviewed the ordinance and returned it to Mike Knight on 03/22/06. The ordinance will now be forwarded to the City Attorney and then to Council.

Develop & Distribute Outreach Material for Contractors

Responsible Party: Miles Slattery, Project Manager

Develop and distribute outreach materials for developers and contractors on structural BMP operation & maintenance requirements.

Measurable Goal: Outreach materials distributed to 100% of developers / contractors during pre-construction meetings.

Start Date: 7/1/2008

End Date: 6/30/2011

Percentage of work that has been accomplished for this BMP: 100 %

Work performed for the BMP listed above

Date: 6/27/2007 Responsible Party: Miles Slattery, Project Manager
Erosion Control Article

Miles had an article published in the Contractor's Guide of the Wednesday edition of the Times Standard. Discussed erosion and sediment control. Promoted erosion control as 90% effective, but must be used in conjunction with sediment control (article attached).

Date: 11/2/2007 Responsible Party: NCSWC Members, Active Members
Construction Site Stormwater Management Workshop

The North Coast Stormwater Coalition sponsored a workshop for construction site stormwater management. The morning session included presentations on construction site BMPs (Craig Benson, RCAA), constructing roadways and driveways (Tyler Ledwith, RCAA) and local ordinance compliance (Miles Slattery, City of Eureka). The afternoon session provided two options. There was hands on erosion and sediment control BMP instillation training or EPA certified construction site stormwater management training. During the workshop, the City of Eureka Construction Site BMP pamphlets (19 BMP pamphlets) were made available to attendees. 91 people attended the conference. 26 attended the BMP instillation training, and 54 attended the stormwater manager training.

Date: 12/4/2007 Responsible Party: NCSWC Members, Active Members
Landscape Design with Stormwater in Mind

The North Coast Stormwater Coalition sponsored a workshop for landscape professionals and residents. The conference included presentations on local ordinance compliance (Miles Slattery, City of Eureka), the landscape/stormwater connection (Loren Oki, UC Cooperative Extension), creating a balance with IPM (Annie Joseph, OWOW), landscape features that minimize runoff (Loren Oki, UC Cooperative Extension), less toxic lawns and alternatives (Deborah Giraud, UC Cooperative Extension) and sustainable landscape (Donna Wildearth, Wildearth Designs). During the workshop, local nurseries, landscape supply companies and the NCSWC handed out stormwater friendly BMP material and educational material. 72 people attended the conference.

Date: 6/10/2008 Responsible Party: Miles Slattery, Project Manager
Construction Site BMP Pamphlets

The 19 Construction Site BMP Pamphlets were mounted at the Building Department counter where all the pre-construction meetings are held.

Date: 9/9/2008 Responsible Party: Miles Slattery, Project Manager
Erosion Control PSA

The Stormwater Division worked with Lost Coast Communications to develop a PSA (attached) announcing the implementation of the erosion control ordinance that will air on KHUM, KSLG & KWPT. By purchasing 34 :60 spots (6a-7p) on each station you will receive 17 Pubic Service Announcement buy-back spots, making your total 51 spots per station, 153 total. It will play for two weeks (weekdays only) and run from 9/9-9/15 and another from 9/23-9/29, with an average of 5 spots per day.

Date: 9/24/2008 Responsible Party: Miles Slattery, Project Manager
Erosion Control Ordinance Press Release

On 09/24/08, Miles submitted a press release (attached) announcing the adoption and implementation of the erosion control ordinance.

Date: 6/15/2009 Responsible Party: Miles Slattery, Project Manager
Construction BMP Manual Media

Radio spot (attached) announcing the availability of three City of Eureka BMP manuals for stormwater (Regulations, Construction Site BMPs and LID). The manuals include descriptions of local and state stormwater regulations pertaining to construction, instillation and maintenance of construction site BMPs and instillation and maintenance of Low Impact Development for as built.

The Stormwater Division paid \$500 for spots on KGOE, KKHB, KRED, KATA, KFMI, KXGO and

KJNY. The radio spot was also forwarded to all local stations and aired for free. The Stormwater Division received over 100 spots from the paid stations, as well as free airtime from those and other stations the radio spot was sent to. These radio stations have an audience of over 100,000 listeners.

Date: 6/30/2009 Responsible Party: Miles Slattery, Project Manager
2008-09 Construction Site BMP Pamphlets

The 19 Construction Site BMP Pamphlets have been mounted for distribution at the Building Department counter where all the pre-construction meetings are held.

Date: 5/18/2010 Responsible Party: Miles Slattery, Project Manager
New General Construction Permit Training

The Stormwater Division and Winzler and Kelly sponsored a 2 hour long workshop to provide information pertaining to the newly adopted State General Construction Permit (presentation attached). Twelve different organizations and twenty-four people attended (sign in sheet attached). Six staff members attended.

Date: 6/30/2010 Responsible Party: Miles Slattery, Project Manager
2009-10 NCSC Meetings

Miles is the Chairperson for the North Coast Stormwater Coalition. He coordinates and hosts all of the meetings. The Coalition meets once a month and discusses ways to reduce stormwater pollution in local streams, rivers, Humboldt Bay and the ocean through public education and outreach, coordinating pollution prevention efforts and implementing pollution control measures. The Coalition consists of all four Phase II municipalities in the area, two Phase II municipalities from Mendocino, local businesses, non-profits and residents. This year Mendocino County Water Authority and the City of Fort Bragg became members and participate via teleconference in the meetings. There are now 56 members representing 29 different organizations throughout the area.

Date: 6/30/2010 Responsible Party: Miles Slattery, Project Manager
2009-10 Construction Site BMP Pamphlets

The 19 Construction Site BMP Pamphlets have been mounted for distribution at the Building Department counter where all the pre-construction meetings are held.

Date: 10/18/2010 Responsible Party: Miles Slattery, Project Manager
Plan It Green Luncheon Series

Miles gave a 20 minute presentation to citizens, contractors and consultants about current and future Post Construction Stormwater Management requirements. Miles explained what the City's current requirements are and what is expected to come with the permit renewal. The presentation focused on hydromodification and LID. It included photos of existing LID projects within the City limits that the Stormwater Division had constructed.

Date: 10/18/2010 Responsible Party: Miles Slattery, Project Manager
Plan It Green Luncheon Series

Miles gave a 20 minute presentation to citizens, contractors and consultants about current and future Post Construction Stormwater Management requirements. Miles explained what the City's current requirements are and what is expected to come with the permit renewal. The presentation focused on hydromodification and LID. It included photos of existing LID projects within the City limits that the Stormwater Division had constructed.

Date: 3/17/2011 Responsible Party: Miles Slattery, <Unknown>
Phase II Presentation for QSD-QSP Training

Enplan held a QSD/QSP training at Greenway Partners offices in Arcata. Miles came in and gave a 30 minute presentation about the Phase II program and the pending permit renewal.

Date: 6/30/2011 Responsible Party: Miles Slattery, Project Manager
2010-11 Construction Site BMP Pamphlets

The 19 Construction Site BMP Pamphlets (w/hotline information) have been mounted for

distribution at the Building Department counter where all the pre-construction meetings are held.

Date: 6/30/2011 Responsible Party: Miles Slattery, Project Manager

Webpage Content

The Construction Stormwater Regulations, Construction Site BMP and LID Manuals are available on the Stormwater Division's webpage (www.eurekastormwater.com) as resources for developers and contractors.

Develop a Program to Inspect and Enforce Construction BMPs

Responsible Party: Miles Slattery, Project Manager

Coordinate with City's Pre-Treatment Coordinator to develop a program to inspect and enforce the ordinance requirements for property owners of existing and new developments to monitor and maintain source and treatment control BMPs.

Measurable Goal: All

Start Date: 7/1/2007

End Date: 6/30/2008

Percentage of work that has been accomplished for this BMP: 100 %

Work performed for the BMP listed above

Date: 6/2/2008 Responsible Party: Miles Slattery, Project Manager

Private Stormwater Treatment System Agreements

The Stormwater Division modified the Engineering Department's 'Oil and Water Separator Maintenance Agreements' to be used for stormwater treatment systems (drain inlet filters, and other mechanical filters). They are signed and notarized by the property owners. They are recorded with Humboldt County so that the agreements are effective if and when ownership changes (example is attached).

The Stormwater Division is working on modifying the agreement so that they can be used for natural treatment systems.

Because of budget and staffing issues, inspections of these system can not be established on a routine basis. Property owners are being held responsible for mainenance through the agreements. Site visits through source control inspections will be used as inspections of the systems when feasible.

Develop Post-Construction BMP Program

Responsible Party: Miles Slattery, Project Manager

Develop a post-construction BMP maintenance program for future post-construction BMPs on City owned properties.

Measurable Goal: Program developed and implemented that identifies post-construction BMPs on City owned properties and schedules for operati

Start Date: 7/1/2009

End Date: 6/30/2010

Percentage of work that has been accomplished for this BMP: 100 %

Work performed for the BMP listed above

Date: 6/30/2009 Responsible Party: Miles Slattery, Project Manager

2008-09 LID BMP Program

Post construction BMP maintenance is regulated through maintenance agreements between the City and the property owner or leasee. Maintenance agreements for inlet filter and cartridge filters have been developed by the Stormwater Division. They are signed and notarized by a Stormwater

Division staff member, the City Attorney and the property owner or leasee. These records are recorded and tracked in ASIST's 'Stormwater Facilities/ LID Project' module. The Stormwater Division is working on maintenance agreements for vegetated swales, bioretention filters, pervious pavement and other infiltration/retention BMPs. The program will not be in full operation until the other maintenance agreements are developed and approved.

Date: 6/30/2010 Responsible Party: Miles Slattery, Project Manager
2009-10 LID BMP Program

Post construction BMP maintenance is regulated through maintenance agreements between the City and the property owner or leasee. Maintenance agreements for inlet filters and cartridge filters, as well as vegetated swales, bioretention filters and other infiltration/retention BMPs have been developed by the Stormwater Division. They are signed and notarized by a Stormwater Division staff member, the City Attorney and the property owner or leasee. These records are recorded and tracked in ASIST's 'Stormwater Facilities/ LID Project' module.

Enforce Watercourse Provisions of Stormwater Ordinance

Responsible Party: Miles Slattery, Project Manager

Respond to complaints received on Stormwater Hotline & through routine construction inspection or maintenance and enforce watercourse provisions of stormwater ordinance.

Measurable Goal: 100% response to complaints on watercourse impacts.

Start Date: 7/1/2007 End Date: 6/30/2011

Percentage of work that has been accomplished for this BMP: 100 %

Work performed for the BMP listed above

Date: 6/30/2008 Responsible Party: Miles Slattery, Project Manager
2007-08 Hotline Complaints and Construction Site Inspections

All hotline complaints and construction site inspection referrals related to watercourse protection were responded to and addressed. These watercourse protection responses have been maintained and tracked in the 'Citizen Call' module.

In October 2008 (when the erosion control ordinance is enforced), the referrals from construction site inspections will be maintained and tracked in the 'Construction Projects' module.

Date: 6/30/2009 Responsible Party: Miles Slattery, Project Manager
2008-09 Hotline Complaints and Construction Site Inspections

All hotline complaints and construction site inspection referrals related to watercourse protection were responded to and addressed. These watercourse protection responses have been maintained and tracked in the 'Citizen Call' module.

In October 2008 (when the erosion control ordinance is enforced), the referrals from construction site inspections will be maintained and tracked in the 'Construction Projects' module.

Date: 6/30/2010 Responsible Party: Miles Slattery, Project Manager
2009-10 Hotline Complaints and Construction Site Inspections

All hotline complaints and construction site inspection referrals related to watercourse protection were responded to and addressed. These watercourse protection responses have been maintained and tracked in the 'Citizen Call' module. Any complaints that involved outer agency involvement were forwarded to the appropriate agency.

The referrals from construction site inspections are maintained and tracked in the 'Construction Projects' module.

Date: 6/30/2011 Responsible Party: Miles Slattery, Project Manager
2010-11 Hotline Complaints and Construction Site Inspections