

LAKE COUNTY CLEAN WATER PROGRAM



Fiscal Year 2012/2013 Annual Report

September 15, 2013

Submitted in compliance with State Water Resources Control
Board Water Quality Order No. 2003-0005-DWQ,
NPDES General Permit No. CAS000004

**County of Lake
City of Clearlake
City of Lakeport**

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EXECUTIVE SUMMARY

BACKGROUND

On April 30, 2003, the State Water Resources Control Board approved Water Quality Order No. 2003-0005-DWQ, requiring Small (Phase II) Municipal Separate Storm Sewer System (MS4) operators to implement six minimum control measures to prevent pollution of storm water runoff from entering protected waters of State of California.

In October, 2003, the County of Lake, City of Clearlake, and City of Lakeport entered into a joint operations agreement as Co-permittees, to form the Lake County [CLEAN WATER PROGRAM](#) (Program). The [Stormwater Program Agreement](#) identified the Lake County Flood Control & Water Conservation District as the Program manager.*

The Program's [Stormwater Management Plan](#) (SWMP, 2003-2008) is structured to implement the six minimum control measures through the following three-step process:

- 1) Evaluate existing activities and programs that may be used and/or revised to meet the Water Quality Order (WQO) requirements for management of storm water discharges from municipal storm sewer systems;
- 2) Revise and/or develop programs and activities as needed to meet the WQO requirements;
- 3) Implement new and revised programs for compliance with WQO requirements.

Implementation of the SWMP by all three Co-permittees includes jurisdictionally-managed regulations, permitting and inspection programs, staff training, and legislative body education. Region-wide public education and outreach programs are provided by the Program manager on behalf of all three Co-permittees.

In February, 2013, the State Water Resources Control Board issued [Water Quality Order No. 2013-0001-DWQ](#), requiring additional compliance measures described in Section E of the Order.

*In 2004, the name of the Lake County Flood Control & Water Conservation District was changed to the Lake County Watershed Protection District; operational agreement provisions are not impacted by the change, but future revision(s) of the Stormwater Program Agreement will reflect the new nomenclature.

PROGRAM EFFECTIVENESS AT REDUCING POLLUTANTS IN STORM WATER DISCHARGES FROM THE MUNICIPAL SEPARATE STORM SEWER SYSTEM (MS4)

Water Quality Order compliance is limited to reduction/prevention of pollutants deriving from MS4 Co-permittees, which are enormously impacted by large areas of Federal and Irrigated Lands not under regulatory management by the Co-permittees. Most standard "urban" BMPs have been implemented (pre- and post-construction erosion control, illicit discharge detection and elimination, municipal good housekeeping); extension of public education and public involvement to meet new WQO objectives will complete previously determined BMPs for local Program implementation.

COMPLIANCE WITH THE STATE GENERAL PERMIT FOR STORM WATER DISCHARGES

The County of Lake, City of Clearlake, and City of Lakeport received notification of permit coverage in July 2004. Therefore, FY 2012/2013 is the ninth reporting period for Co-permittees for implementation of the Countywide SWMP. 2013-0001-DWQ requirements for additional control measures led to Co-permittees development of the 2013-2018 "Guidance Document" (Appendix 1, submitted July 1, 2013), new management workgroup processes, and broader participation by Co-permittees legislative officials. New management objectives and required resources will be determined in FY 2013/2014 during review

of the revised Order, in compliance with the “Guidance Document” (Appendix 1), by members of the Management Workgroup.

MOST SIGNIFICANT PROGRAM ACCOMPLISHMENTS TO DATE

During the 2012/2013 reporting period, Co-permittees maintained implementation of established BMPs, including ongoing public participation in various outdoor clean-up events, which are reported in relevant sections that follow. Program implementation reports and work products are filed on the [CLEAN WATER PROGRAM](#) website. Consolidated Program accomplishments are listed below:

- Regulatory framework includes jurisdictionally-managed ordinances, Co-permittees joint authority agreement, publicly noticed regular meetings of the joint authority Advisory Council, maintenance of mandatory fees and reporting process. The Advisory Council continues to meet regularly to maintain Program BMPs. All regulatory documentation is filed on [CLEAN WATER PROGRAM](#) website; all Program regulatory documents will undergo a review in FY 2013/2014 for updating to meet new WQO requirements, as needed.
- Organizational management by workgroups for all BMPs was extended to include top-level management work group for incorporation of new WQO requirements, participation in 2013 WQO permit implementation integration requirements, education of management and legislative officials, and planning for development of new WQO response tasks.
- During FY 2012/2013 the City of Clearlake initiated the preparation of an application for a Westside Integrated Regional Water Management (IRWM) Planning Grant. One of the principle objectives of the proposed project is to conduct a thorough assessment of the watershed for development of a storm drain master management plan, to identify opportunities for environmental restoration of urban streams, LID retrofit projects, and improved stormwater BMPs throughout the City of Clearlake. The Westside Integration Regional Water Management Plan was adopted by the Lake County Board of Supervisors in July, 2013, which delegates participation in a newly formed Regional Water Management Group to the Lake County Watershed Protection District. The District is the duly authorized Program manager and highest level Legally Responsible Party for implementation of WQO requirements.
- The County continues to aggressively enforce the Grading and Stormwater Ordinances, and abatement of illegal marijuana cultivation sites that potentially contribute significant stormwater contamination. The County also continues to conduct annual cleanups of illegal dumpsites, and removes an average of approximately 100 cubic yards of waste from a number of sites each year.
- Public Education & Outreach and Public Involvement & Participation work group newsletter reaches more than 90 regular recipients in all Co-permittee jurisdictions, related regulatory agencies, and Program implementation staff. The PEO/PIP Work Group coordinator developed the multi-jurisdictional PEO/PIP program proposal for meeting new WQO requirements; additional or modified projects for new WQO compliance will be developed in FY 2013/2014 with new management work group direction.
- Program participants maintained involvement in development of new WQO requirements, including development of the jointly-operated management “Guidance Document” (Appendix 1) and identification of significant issues requiring direction from the Central Valley Regional Water Quality Control Board stormwater program oversight staff (see Program Challenges, below.)

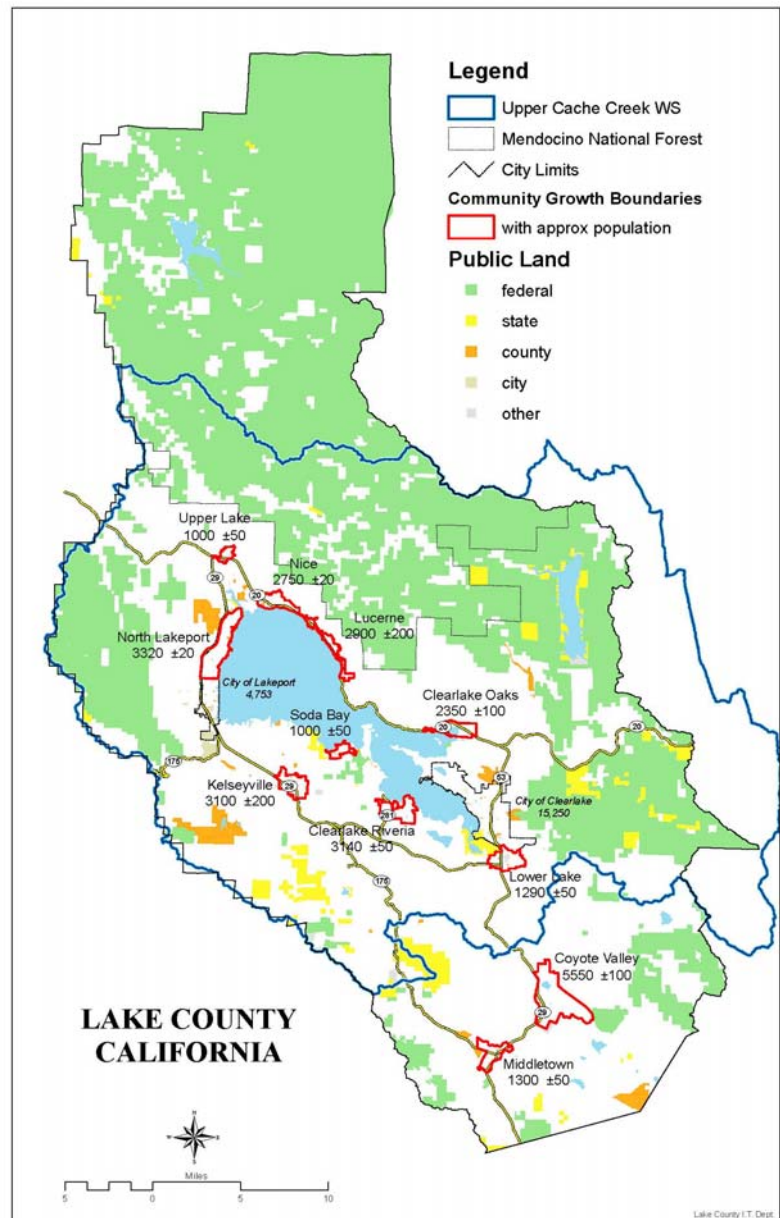
PROGRAM CHALLENGES

Co-permittees have maintained compliance with the State General Permit (2003-0005-DWQ) and Countywide SWMP. However, as with all municipalities in the State of California, the biggest challenge in implementing the SWMP has been the shortage of available staffing and fiscal resources.

The Lake County [CLEAN WATER PROGRAM](#) has been well received by local residents and businesses, personal participation is noticeable (recycling and garbage pickup services, clean streets and drainage systems), outreach events including month-long Library displays and various Earth Day celebrations. Increased publicity focused on the State Department of Fish & Wildlife's consideration of endangered species listing for indigenous Clear Lake Hitch has garnered positive attention from local and regional news media.

However, continuing water quality impairments in the primary receiving water body, Clear Lake, indicate that the [CLEAN WATER PROGRAM](#) is not capable of addressing nutrient loading derived from land areas that are not regulated by the MS4 Co-permittees. New WQO requirements for management of stormwater pollutant load reductions cannot be implemented by the local MS4 Co-permittees (see map). Successful "proof" of nutrient load reduction from MS4 sources cannot be obtained if outer-region inputs are not likewise reduced. Adequate monitoring for development of such "proof" is beyond the financial capacity of the MS4 Co-permittees.

New Program management technologies are being studied (satellite imagery interpretations and "hotspot" identification) for application to compliance with the new WQO implementation requirements. Negotiations with Central Valley Regional Water Quality Control Board staff require scheduling as quickly as is feasible for establishing rational approaches to this major impediment for the MS4 compliance program.



SECTION 1

INTRODUCTION

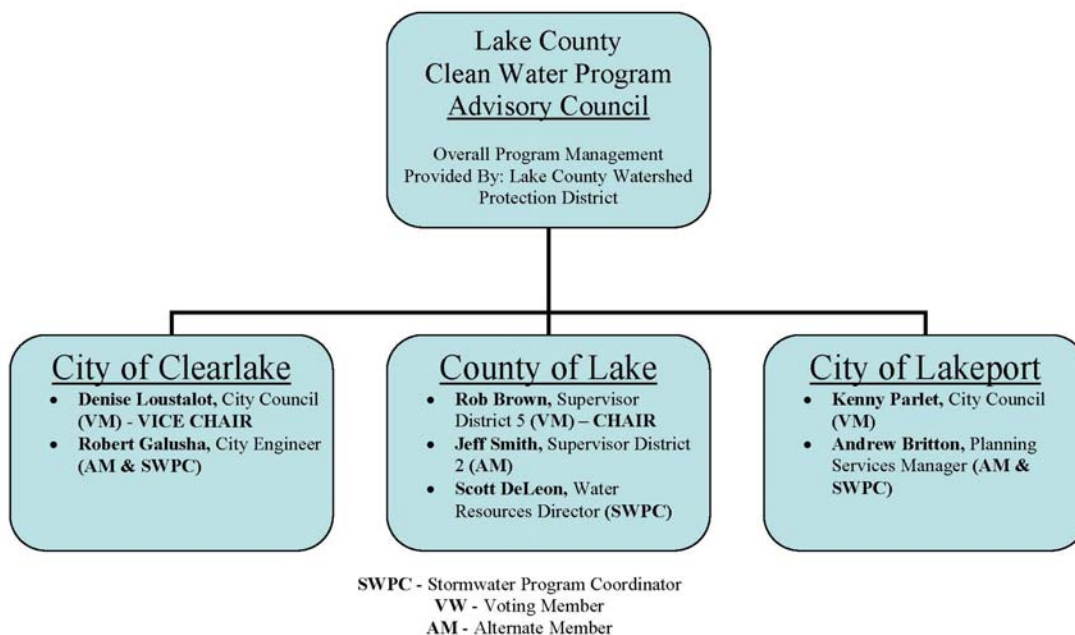
BACKGROUND

PROGRAM DESCRIPTION

The Lake County [CLEAN WATER PROGRAM](#) (Program) is provided by a consortium of agencies (Co-permittees) responsible for operation of the Small (Phase II) Municipal Separate Storm Sewer System (MS4) drainage into Clear Lake and local water bodies.

The Program complies with the provisions of the [Phase II Small MS4 General Permit \(Water Quality Order No. 2013-0001-DWQ\)](#) approved by the State Water Resources Control Board (SWRCB) on February 5, 2013.

The Program Co-permittees are the County of Lake, City of Clearlake, and City of Lakeport. The co-permittees began implementation of permit compliance actions in 2003, including development of a [Stormwater Management Plan \(SWMP\)](#) which describes how pollutants in local storm water runoff will be controlled to the maximum extent practicable (MEP) through the implementation of best management practices (BMPs).



The Program is organized, coordinated, and implemented in accordance with a [Stormwater Program Agreement](#) that was signed by the Co-permittees and the Lake County Watershed Protection District (District) in 2004. The Program Agreement covers the responsibilities of each Co-permittee, and may require modification in light of new Water Quality Order requirements, such as integration of actions to achieve the goal of restoring the beneficial uses of the lake through compliance with the “Total Maximum Daily Load” (TMDL) limit of nutrients entering Clear Lake in seasonal stormwater runoff.

The Program’s Advisory Council, consisting of one designated voting member from each Co-permittee, is the official decision-making body for the Program. The Advisory Council operates under Bylaws that were adopted by each of the three jurisdictions. These Bylaws were included with previous Annual Reports.

PROGRAM GOALS AND OBJECTIVES

The overarching goal of the Program is to prevent pollutants from entering the receiving water bodies within the MS4 legal jurisdictions through the effective implementation of BMPs to the maximum extent practicable. More specific goals are described in Table 1.1. To accomplish these goals, the Program adopted the following strategic objectives:

- Develop a self-directed, proactive approach fostering trust and respect from regulators, businesses and environmental groups;
- Produce tangible water quality improvements through expanded collaborations with other organizations;
- Communicate a clear vision of the program’s goals and objectives to the public, and to member agencies’ staff, management, and elected officials; and,
- Improve communication links and working relationships among departments within member agencies and between the Program and RWQCB staff.

Table 1.1 Lake County Clean Water Program Goals established in the Stormwater Management Plan (SWMP), 2003.

<p>Goal #1. Comply with the General Permit by:</p> <ul style="list-style-type: none"> • Effectively prohibiting non-storm water discharges; • Protecting water quality from the impacts of storm water runoff from MS4 sources; and, • Reducing, to the maximum extent practicable, pollutants in storm water runoff. <p>Goal #2. Determine Success by:</p> <ul style="list-style-type: none"> • Evaluating changes in public awareness and behavior; • Evaluating the effectiveness of specific control measures at pollution reduction; and, • Utilizing what is learned to plan next steps. <p>Goal #3. Achieve Acceptance of SWMP Activities by:</p> <ul style="list-style-type: none"> • Effectively implementing the Storm Water Management Plan; • Integrating storm water runoff goals at various intra-agency levels; and, • Developing and maintaining a proactive relationship with regulatory authorities.
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THE PROGRAM'S STORMWATER MANAGEMENT PLAN (SWMP)

The widespread nature of storm water pollution requires a comprehensive solution. This SWMP describes how pollutants in local storm water runoff will be controlled and describes best management practices (BMPs) designed to address the following six minimum control measures:

- Public Education and Outreach (PEO)
- Public Involvement and Participation (PIP)
- Illicit Discharge Detection and Elimination (IDDE)
- Construction Site Storm Water Runoff Control (CON)
- Post Construction Storm Water Management in New Development/Redevelopment (PCON); and
- Pollution Prevention/Good Housekeeping for Municipal Operations (MUNI)

THE PROGRAM'S ANNUAL REPORT

The Program submits an Annual Report to the Central Valley Regional Water Quality Control Board by September 15 of each year. The Annual Report serves as an important internal Program management tool in the cycle of planning, implementation, evaluation and continuous improvement. The Annual Report is the mechanism for documenting the status of planned activities, evaluating the effectiveness of those activities and identifying potential improvements.

The goals of this Fiscal Year 2012/2013 Annual Report are to: 1) meet specific General Permit requirements by documenting the remaining BMPs that were met; 2) Continue to refine mechanisms for reporting and self-evaluation (via measurable goals); and 3) identify new Program goals and objectives for the 2013/2014 Fiscal Year while continuing to implement the ongoing BMPs and developing additional control measures to meet the revised [Water Quality Order \(No. 2013-0001-DWQ\)](#) approved by the State Water Resources Control Board on February 5, 2013.

ORGANIZATION OF ANNUAL REPORT

The FY 2012/2013 Annual Report consists of this Introduction and six sections describing Co-permittee implementation of each minimum control measure. Following Section 1, Introduction, measurable goal status/results, BMP effectiveness, and planned activities are described for each BMP that was scheduled for implementation in FY 2012/2013. Each Program BMP is examined for appropriateness, results, problems, effectiveness, proposed changes, and plans for the coming fiscal year.

Please note that some BMPs were jointly implemented by all Co-permittees and others were implemented individually. With this being the ninth iteration of this annual report and the final annual report prepared to demonstrate compliance with WQO# 2003-0005-DWQ, significant efforts have been made to reduce the redundancy of reporting items that were completed and have been completed for several years.

This report focuses on the specific items that were completed in FY 2012/2013 with a focus on program planning for compliance with WQO# 2013-0001-DWQ to take place in FY 13/14. If questions arise regarding implementation of a specific minimum control measure, reviewers are encouraged to examine the Lake County [CLEAN WATER PROGRAM](#) Annual Report FY 2011/2012 or other previous annual reports.

Lake County Clean Water Program Definitions of Key Acronyms

BMPs	Best Management Practices
CON	Construction Site Stormwater Runoff Controls [REMOVED "Program"]
IDDE	Illicit Discharge Detection and Elimination
MEP	Maximum Extent Practicable
MS4	Municipal Separate Storm Sewer System
MUNI	Stormwater Pollution Prevention for Municipal Operations [REMOVED "Program"]
NPDES	National Pollutant Discharge Elimination System
PCON	Post Construction Stormwater Management
PEO	Public Education & Outreach [REMOVED comma]
PIP	Public Involvement & Participation
RWQCB	Regional Water Quality Control Board
CVRWQCB	Central Valley Regional Water Quality Control Board
SWMP	Stormwater Management Plan
SWRCB	State Water Resources Control Board

SECTION 2

PUBLIC EDUCATION AND OUTREACH

BACKGROUND

Public education and outreach plays an integral part in preventing storm water pollution. An informed and knowledgeable community is crucial to the success of a storm water management program since it helps to ensure: (1) greater support for the program as the public gains understanding of why it is necessary and important, and (2) greater compliance with the program as the public becomes aware of the personal responsibilities expected of them and others in the community, including the individual actions they can take to protect or improve the quality of water bodies in Lake County.

To help reduce the potential of impacts of storm water pollutants on water bodies in Lake County and to satisfy the Public Education and Outreach requirements of the 2003-2008 General Permit, the Lake County Clean Water Program has provided basic **Public Education & Outreach (PEO) program** services for all three Co-permittees, in accordance with the Lake County Stormwater Management Plan (2003-2008), for the effective lifespan of WQO# 2003-0005-DWQ ended on June 31, 2013.

In FY 2012/2013, the overall stormwater management program education and outreach program services were reviewed for effectiveness, permit compliance goals and objectives, immediate needs for additional services, and preparation for implementing WQO# 2013-0001-DWQ on July 1, 2013.

Development of the PEO/PIP Program needed to meet new WQO# 2013-0001-DWQ requirements will be defined and implemented in FY 2013/2014, in accordance with the July 1, 2013 "Guidance Document" (Appendix 1). Established program services will be maintained by all Co-permittees in accordance with the 2003-2008 Lake County Stormwater Management Plan, which will be updated as needed in FY 2013/2018.

GOALS AND OBJECTIVES

The goal of the Public Education & Outreach program is to prevent pollution of Lake County water bodies through education and outreach to increase awareness about stormwater impacts and how we can prevent them.

To achieve this goal, the Program has established and implemented the following objectives for Public Education & Outreach:

- Generate awareness of storm water pollution prevention by educating people about the storm drain system and its relationship to the health of local water bodies; and
- Change behavior patterns through education and encouragement of active participation in storm water pollution prevention.

PUBLIC EDUCATION & OUTREACH BMPs

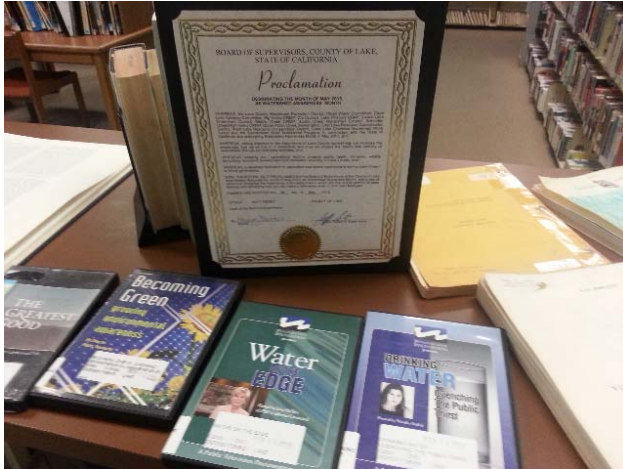
The Public Education and Outreach program is divided into two categories to effectively educate the public about storm water issues in Lake County. These categories are: (1) Public Education and Outreach Program Management (i.e., workgroup and BMP material development); and, (2) Tracking and Reporting. For each category, specific BMPs and associated implementation timelines were adopted in the Program's SWMP.

FISCAL YEAR 2012/2013 ACCOMPLISHMENTS

GENERAL SUMMARY

The Public Education & Outreach (PEO) and Public Involvement & Participation (PIP) workgroups are coordinated by an active volunteer who meets with members frequently and provides a monthly newsletter (via email) to keep them abreast of [CLEAN WATER PROGRAM](#) activities and events.

Activities include and emphasize participation in local and regional planning efforts, such as the Westside Integrated Regional Water Management Plan, Clear Lake Integrated Watershed Management Plan, Clear Lake Integrated Aquatic Plant Management Plan, City of Clearlake and City of Lakeport emergency response and hazard mitigation plans (including storm water drainage and flood plain management).



In January 2011, the organizations represented by members of the Clear Lake Advisory Committee were added to the program's "target audiences" for extension of public education and outreach services to their member groups. Monthly reports to CLAC included updates of progress on all planning efforts underway that include water or watershed management, stormwater program changes, and invasive species prevention programs.

Public education and outreach program modifications to accommodate new Water Quality Order objectives and Permit requirements will be proposed and incorporated into the existing program in the first quarter of the first reporting

year, as indicated in the final "Guidance Document" (Appendix 1).

The status of PEO BMPs that were scheduled for implementation in FY 2012/2013, their effectiveness, and implementation activities planned for FY 2013/2014 are described in the following sections.

1. Public education and outreach workgroup

- a. In FY 2012/2013, the Public Education and Outreach (PEO) workgroup was combined with the Public Involvement and Participation (PIP) workgroup coordinated by a single individual in collaboration with Co-permittee departments and related agency staffs.
- b. Basic program services were maintained by all three Co-permittees for compliance with WQO# 2003-0005-DWQ, as incorporated in the Minimum Control Measures for Pre-construction and post-construction erosion control, Municipal good housekeeping, and Illicit discharge detection and elimination.
- c. Workgroups for Pre-construction (CON) and post-construction (PCON) erosion control, Municipal good housekeeping (MUNI), and Illicit discharge detection and elimination (IDDE) did not meet formally in FY 2012/2013. However, all three Co-permittees' program implementation staff members work effectively together in the performance of their duties for spill prevention, spill response, abatement of illicit discharges, storm drain and other MS4 protection activities.
- d. The PEO/PIP workgroup coordinator evaluated the effectiveness of the Lake County [CLEAN WATER PROGRAM](#) implementation capacities, focusing on comprehension of stormwater management program requirements by Co-permittees' legislative bodies and management staffs with the ultimate local enforcement authorities.

- e. Public awareness of watershed management and receiving water body impacts from multiple source and non-point sources has increased dramatically in the nine-year reporting period for compliance with WQO# 2003-0005-DWQ. Evidence of this increase can be seen in the number of voters who participated in the 2012 ballot initiative proposed by the County of Lake for collection of revenues to support lake management programs. 63% of registered voters supported the measure, with 37% opposing it, for a total of 14,165 active supporters for the protection of our most significant public trust asset (Clear Lake).
- f. Implementation of the Lake County Invasive Species Program contributed significantly to the development of public awareness, with the number of participants in the Quagga Mussel Prevention Program in FY 2012/2013 at 15,000 (sales of vessel inspection certificates, i.e., "stickers"). The Invasive Species Coordinator's Annual Report is included as Appendix 3.
- g. The PEO/PIP workgroup members will continue to participate in review of new requirements for compliance with WQO# 2013-0001-DWQ, in accordance with the "Guidance Document" (Appendix 1), during FY 2013/2014.

2. Evaluation of public education and outreach services

- a. All public education and outreach materials are posted on the Lake County [CLEAN WATER PROGRAM](#) website; the City of Lakeport's [Clean Water Program](#) website provides links to these and additional materials that are locally relevant. The City of Clearlake does not support web-based communications at this time; however, the City is in the process of developing a comprehensive public access web site that will include links to all [CLEAN WATER PROGRAM](#) support services.
- b. Development of needed education and outreach services is not yet fiscally supported; reproduction of existing materials for outreach events is provided by the City of Clearlake and the County of Lake Visitor Information Center. The Lake County [CLEAN WATER PROGRAM](#) website needs updating and integration with additional program services.
- c. PEO/PIP workgroup members and coordinator will continue to participate in review of new requirements for compliance with WQO# 2013-0001-DWQ, in accordance with the "Guidance Document" (Appendix 1), during FY 2013/2014.



3. Public education and outreach tracking and reporting

- a. Web site visits are counted on the Lake County [CLEAN WATER PROGRAM](#) web site and the City of Lakeport's [Clean Water Program](#) pages.
- b. Code enforcement, permit implementation requirements, site inspections, and material management reports are retained by all Co-permittees' departments and related agencies that indicate reduced numbers of stormwater program violations (such as IDDE complaints in neighborhoods, increased tonnage of recycled waste, program expenses for advertising and documentation).
- c. The PEO/PIP workgroup coordinator provides a monthly newsletter provided to over 90 voluntary readers from multiple community organizations, state, regional, and local agencies, members of the public attending outdoor outreach events and public library outreach displays, and members of the Clear Lake Advisory Committee.

- d. The PEO/PIP workgroup annual report is provided in Appendix 2.
- e. PEO/PIP workgroup members will continue to participate in review of new requirements for compliance with WQO# 2013-0001-DWQ, in accordance with the "Guidance Document" (Appendix 1), during FY 2013/2014.

SECTION 3

PUBLIC INVOLVEMENT AND PARTICIPATION

BACKGROUND

Public involvement and participation are important components of the Lake County [CLEAN WATER PROGRAM](#). The term “public” refers to various sectors of the community including residents, commercial and retail business owners; industry representatives; developers; construction contractors; agency staff; elected officials; and governmental agencies. The success of the Program depends largely upon acceptance and support from these sectors.

GOALS AND OBJECTIVES

The following Public Involvement and Participation (PIP) program objectives are designed to address storm water pollution through the supportive efforts of an informed and active community:

- Raise public awareness about urban runoff pollution through involvement in the Lake County [CLEAN WATER PROGRAM](#);
- Raise public awareness about storm water pollution prevention efforts; and
- Foster participation through community-based projects or volunteer activities focused on pollution prevention.

PUBLIC EDUCATION AND OUTREACH BMPs

The Public Involvement and Participation program is divided into four categories to effectively address storm water issues: (1) Public Involvement and Participation Program Management, (2) Public Activities and Participation, (3) Public Opinion and Involvement, and (4) Program Tracking and Reporting. For each category, specific BMPs and associated implementation timelines were adopted in the Program’s SWMP.

FISCAL YEAR 2012/2013 ACCOMPLISHMENTS

GENERAL SUMMARY

The Public Involvement and Participation (PIP) Workgroup was combined with the Public Education and Outreach (PEO) Workgroup in FY 2012/2013. The status of PIP BMPs that were scheduled for implementation in FY 2012/2013, their effectiveness, and implementation activities planned for FY 2013/2014 are described in the following sections.

1. Public involvement and participation workgroup

- a. In FY 2012/2013, the Public Involvement and Participation (PIP) workgroup was combined with the Public Education and Outreach workgroup coordinated by a single individual in collaboration with Co-permittee departments and related agency staffs.
- b. Basic program services were maintained by all three Co-Permittees for compliance with WQO# 2003-0005-DWQ, as incorporated in the Minimum Control Measures for Pre-construction (CON) and post-construction (PCON) erosion control, Municipal good housekeeping (MUNI), and Illicit discharge detection and elimination (IDDE), to provide continuous opportunities for public involvement and participation in protecting the MS4 stormwater management system.

- c. Workgroups for Pre-construction (CON) and post-construction (PCON) erosion control, Municipal good housekeeping (MUNI), and Illicit discharge detection and elimination (IDDE) did not meet formally in FY 2012/2013. However, all three Co-permittees' program implementation staff members work effectively together in the performance of their duties for spill prevention, spill response, abatement of illicit discharges, storm drain and other MS4 protection activities.
- d. A variety of public involvement opportunities were supported by the Program throughout FY 2012/2013 for engaging and educating the public about established stormwater management programs in all three Co-permittees jurisdictions.
- e. In FY 2012/2013 the PEO/PIP Workgroup began delivering education and outreach services to the "target audience" required for compliance with WQO# 2013-0001-DWQ, which was approved by the State Water Resources Control Board in February 2013. This outreach activity resulted in strengthened support for the Lake County [CLEAN WATER PROGRAM](#) Advisory Council (both Cities appointed elected officials to participate, and additional relevant department staff members were included in development of responses to proposed changes to the General Permit, as necessary).
- f. The Lake County [CLEAN WATER PROGRAM](#) Advisory Council and the PEO/PIP workgroup provided support to all three Co-permittees for development of the FY 2013/2018 "Guidance Document" (Appendix 1) and will provide program services in FY 2013/2014 to develop the new Management Program required by WQO# 2013-0001-DWQ.
- g. Public awareness of watershed management and receiving water body impacts from multiple source and non-point sources has increased dramatically in the nine-year reporting period for compliance with WQO# 2003-0005-DWQ. Evidence of this increase can be seen in the number of voters who participated in the 2011 ballot initiative proposed by the County of Lake for collection of revenues to support lake management programs. 63% of registered voters supported the measure, with 37% opposing it, for a total of 14,165 active supporters for the protection of our most significant public trust asset (Clear Lake).
- h. Preliminary results of experimental "social marketing" instruments such as Facebook pages indicate that several hundred public members are giving attention to the online information resources provided by the PEO/PIP program.
- i. The PEO/PIP workgroup coordinator initiated a monthly newsletter provided to over 90 voluntary readers from multiple community organizations, state, regional, and local agencies, members of the public attending outdoor outreach events and public library outreach displays, and members of the Clear Lake Advisory Committee.
- j. PEO/PIP workgroup members will continue to participate in review of new requirements for compliance with WQO# 2013-0001-DWQ, in accordance with the "Guidance Document" (Appendix 1), during FY 2013/2014.

2. Storm drain labeling program

- a. All three Co-permittees have completed labeling of managed storm drains within the MS4 system, and incorporate their maintenance and repair as needed during normal operations of municipal good housekeeping BMPs.
- b. Effectiveness of storm drain labeling program is measured by annual clean-out and maintenance tasks performed by all three Co-permittees. Many fewer reports of storm drain overflows during storm events, for example, indicate the effectiveness of the overall maintenance and service of the storm drain system.

- c. Storm drain system mapping completed by the County of Lake and the City of Lakeport provides effective management of storm drain maintenance and service programs. The City of Clearlake manages its storm drain system within the scope of the City's limited financial resources, with public support for continuous operations as needed.
- d. The [Lake County Area Planning Council](#) is developing upgrade plans for the City of Clearlake's Downtown Lakeshore Drive Corridor, and will include upgraded storm drain facilities in the final engineering design (supported by grants from Caltrans).
- e. The City of Clearlake has proposed a grant acquisition project to develop an updated storm drain master service plan (incorporating watershed assessment, urban stream restoration, and Low-Impact Development retrofit projects) as part of the recently approved Westside Integrated Regional Water Management Plan (2013). Prioritization of the City's grant acquisition project within an updated Clear Lake Integrated Watershed Management Plan is needed to obtain collaborative support for the City's proposed plan. (Recent reviews of Clear Lake's pollution levels using Satellite Imagery interpretations indicate that the Lower Arm of Clear Lake may be seriously affected by the hazardous conditions within the City's watersheds and transportation systems.)
- f. PEO/PIP workgroup members will include an assessment of storm drain labeling as an effective education tool during review of new requirements for compliance with WQO# 2013-0001-DWQ, in accordance with the "Guidance Document" (Appendix 1), during FY 2013/2014.

3. Develop and support local partnerships

- a. The following organizations, agencies, and departments are regular participants in the Lake County [CLEAN WATER PROGRAM](#), for which the PEO/PIP Workgroup's monthly newsletter (via email) reaches over 90 readers at the local, regional, and state agencies involved in implementation of the federal Clean Water Act:
 - o Planning and Building Departments (Co-permittees)
 - o Public Works and Engineering Departments (Co-permittees)
 - o Special Districts water and sewer services (County)
 - o Public Health and Environmental Health Departments (County)
 - o Law enforcement agencies (Co-permittees)
 - o Public water and wastewater treatment plant operators (Co-permittees and Big Valley Band of Pomo Indians)
 - o Office of Emergency Services (County)
 - o Public Services Department (County)
 - o Resource Conservation Districts (and CRMPs)
 - o Homeowners Associations and various civic groups
 - o Community councils and business associations (Upper Lake Community Council and other population centers sponsor "clean up days" every year around Earth Day)
 - o Schools (recycling programs in all facilities), Upper Lake High School "Alternative Energy and Sustainable Agriculture Academy," Upper Lake High School Annual Earth Day presentations, and Yuba College Earth Day outreach events.
 - o State and federal regulatory agencies (California Departments of Pesticide Regulation, Public Health, Safe Drinking Water, Water Resources, Parks, and Conservation; US Forest Service, US Bureau of Land Management, and US EPA Region 9)
 - o Local Tribes' (Big Valley, Habematolel, and Robinson) designated representatives are members of the Clear Lake Advisory Committee and recipients of the PEO/PIP Workgroup monthly newsletter
 - o Lake County Community Radio offers numerous weekly and monthly programs related to lake issues and environmental education and outreach

- o PEO/PIP Workgroup coordination is provided by the “Essential Public Information Center” in Upper Lake, CA. The “EPI-Center” staff is a long-time volunteer supporter of the Lake County [CLEAN WATER PROGRAM](#), numerous independent special districts, Lake County Community Radio, Clear Lake Advisory Committee, Lake County Library system, and the Lake County Invasive Species Program, and provides the Outreach & Advocacy programs for Northshore Senior Support Services.
- b. The PEO/PIP workgroup coordinator evaluated the effectiveness of the Lake County Stormwater Management Program implementation capacities, focusing especially on the existing local partnerships and largely absent regional, state, and federal partners named in the Central Valley Regional Water Quality Control Board’s adopted Basin Plan Amendment for the control of nutrients in Clear Lake (2006).

The PEO/PIP workgroup members will continue to participate in review of new requirements for compliance with WQO# 2013-0001-DWQ, in accordance with the “Guidance Document” (Appendix 1), during FY 2013/2014.

- c. Proposed recommendations for program improvements to continue the successful implementation of the existing Stormwater Management Program, and to support new requirements for compliance with WQO# 2013-0001-DWQ, in accordance with the “Guidance Document” (Appendix 1), will be provided as part program management planning in FY 2013/2014.

4. Notify the public of Lake County [CLEAN WATER PROGRAM](#) Advisory Council Meetings and receive public input

- a. Meeting agendas are posted on publicly accessible locations at all three Co-permittees official locations (City Halls and County Courthouse) in a manner compliant with the Ralph M. Brown Act. Members of the public are able to request email notification and receipt of minutes by email or telephone request (contact Advisory Council secretary).
- b. Minutes and agendas are posted on the Lake County [CLEAN WATER PROGRAM](#) web site (select Advisory Council Documents).
- c. PEO/PIP workgroup members will continue to participate in review of new requirements for compliance with WQO# 2013-0001-DWQ, in accordance with the “Guidance Document” (Appendix 1), during FY 2013/2014.

5. Stormwater program public input resources

- a. Lake County [CLEAN WATER PROGRAM](#) and City of Lakeport [Clean Water Program](#) web pages provide telephone contact numbers to report illicit discharges, water quality impairments at entrances to and exits from the MS4 storm drain system, major storm event overflows or associated debris impacts, and construction or road project problems.
- b. The City of Lakeport [Clean Water Program](#) web pages provide email contact and outreach forms to report other issues, request assistance, or respond to weather-related event management procedures (such as water conservation notices). The City’s web pages include links to the Lake County [CLEAN WATER PROGRAM](#) web site, and other useful information resources.
- c. All three Co-permittees respond to public input and track reports and corrective actions within their responsible departments; the County of Lake [Environmental Health Department](#) coordinates all major spill responses, and the County of Lake Office of Emergency Services coordinates with local emergency responders in multi-jurisdictional disaster response and recovery events.

- d. The PEO/PIP Workgroup members participate in coordination planning of natural hazard mitigation and emergency response processes and procedures, and provide public education and outreach for public involvement in local disaster preparedness activities.
- d. The PEO/PIP workgroup members will continue to participate in review of new requirements for compliance with WQO# 2013-0001-DWQ, in accordance with the "Guidance Document" (Appendix 1), during FY 2013/2014.

6. Develop and conduct general public attitude surveys

- a. This goal is not implemented; public attitudes and opinions are generally expressed during public comment periods for Co-permittees legislative bodies official hearings, editorial correspondence with the popular press, and in various public education and outreach venues. Members of the Clear Lake Advisory Committee receive and respond to public input on lake-related matters, and provide advice on a quarterly basis to the Lake County Board of Supervisors for recommended actions.
- b. New requirements for implementation of WQO# 2013-0001-DWQ, in accordance with the "Guidance Document" (Appendix 1), will be reviewed by all of the Lake County [CLEAN WATER PROGRAM](#) management workgroups during FY 2013/2014, for compliance with the General Permit during FY 2013/2018.
- c. Funding for formal, scientifically valid public attitude surveys does not exist; informal methods using "Community-Based Social Marketing" and other web-based interactive tools may be appropriate for this level of Permit management. New program requirements for implementation of WQO# 2013-0001-DWQ require development of new, specially defined "target audiences" that may be better sources of feedback than large-scale scientific survey methods used in Phase I regions.



7. PIP tracking and reporting

- a. The PEO/PIP workgroup coordinator produces a monthly newsletter (via email) with over 90 recipients from state, regional, and local organizations, agencies, and Co-permittees departmental staffs. Private citizens sign up for the email list at public venues such as outdoor outreach events and public library display areas.
- b. The PEO/PIP workgroup coordinator provides an annual report, which is located in Appendix 2 of this report.
- c. Social media outreach and education projects underway indicate that several hundred readers make use of the experimental Facebook page provided to determine whether educational outreach of this type would be effective; full use of this opportunity will be part of the FY 2013/2014 PEO/PIP workgroup activity. The experimental Facebook page is sponsored by the Essential Public Information Center, which provides volunteer coordination services to the Lake County [CLEAN WATER PROGRAM](#).
- d. Two of the three Co-permittees provide web pages dedicated to the Lake County [CLEAN WATER PROGRAM](#) and the City of Lakeport [Clean Water Program](#) information resources for public education and outreach. The City of Lakeport also provides a reporting/feedback

page for public input and inquiries. Both web sites measure usage through visitor counts. The City of Clearlake is in the process of developing a comprehensive web site that will include links and other resources for its stormwater management programs.

- e. The PEO/PIP workgroup members will continue to participate in review of new requirements for compliance with WQO# 2013-0001-DWQ, in accordance with the "Guidance Document" (Appendix 1), during FY 2013/2014.



SECTION 4

CONSTRUCTION SITE STORMWATER RUNOFF CONTROLS

BACKGROUND

Construction sites can generate a variety of pollutants that may be discharged (via storm water) and adversely affect beneficial uses of receiving water bodies. Of particular concern are the impacts of sediment. The process by which sediment is transported off a construction site and causes impacts to water bodies entails three-steps: (1) soil disturbance, (2) erosion, and (3) sedimentation. In order to control the impact of erosion, sedimentation, and other pollutants on receiving waters, the State Water Resources Control Board (SWRCB) developed Waste Discharge Requirements for Discharges of Storm water Runoff Associated with Construction Activity and issued a statewide general NPDES permit (Construction General Permit). The primary objective of the Construction General Permit is to reduce erosion and minimize or eliminate sediment and non-storm water discharges from construction sites by implementing appropriate measures to reduce potential impacts on water bodies. Individuals or entities that own land where one acre or greater of soil is planned to be disturbed must seek coverage under the Construction General Permit.

Under the Municipal Phase II NPDES Permit and in collaboration with the Construction General Permit, Co-permittees are required to develop, implement, and enforce a program to reduce pollutants in any storm water runoff to their MS4 from construction activities that result in a land disturbance of greater than or equal to one acre.¹ To comply with the construction site storm water runoff control requirement, the Program has developed and continues to implement a **Construction site Runoff Control (CON) Program**.



¹ Phase II NPDES Permit requirement also includes any construction activity that disturbs one acre or more of soil, or is a part of a larger common plan of development or sale that would disturb one acre or more.

GOALS AND OBJECTIVES

The goal of the CON Program is to reduce the discharge of storm water pollutants to the maximum extent practicable (MEP) by: (1) requiring construction sites to reduce sediment in site runoff; and (2) requiring construction sites to reduce other pollutants such as litter and concrete washout wastes through good housekeeping procedures and proper waste management. To achieve this goal, the following objectives have been developed:

- Effectively prohibit non-storm water discharges and require controls to reduce the discharge of pollutants during construction;
- Minimize land disturbance at construction sites;
- Protect water quality from pollutants generated by construction activities;
- Require BMP implementation at construction sites; and,
- Develop and implement measurable goals to evaluate the success of the BMPs.

CONSTRUCTION SITE STORMWATER RUNOFF CONTROLS

The CON element is divided into four categories to effectively address storm water issues related to construction site runoff. These categories are: (1) CON Program Management (i.e., workgroup, ordinance and BMP development); (2) Construction Site Plan Review and Inspections; (3) Construction Site Education and Outreach; and, (4) Tracking and Reporting. For each category, specific BMPs and associated implementation timelines were adopted in the Program's SWMP.

FY 2012/2013 BMP STATUS AND ACCOMPLISHMENTS

GENERAL SUMMARY

A summary of Construction (CON) and Post-Construction (PCON) Workgroup accomplishments, program evaluation and needs assessment, and recommendations for FY 2013/2014 improvements are provided in this section of the FY 2012/2013 Annual Report:

1. Program Management - CON/PCON Workgroup

- a. Coordinate implementation of standards by all three Co-permittees, updating of County and Cities stormwater, construction, and other regulatory instruments as needed using assigned work group members and direction by workgroup chair.

Workgroups for Pre-construction (CON) and post-construction (PCON) erosion control, Municipal good housekeeping (MUNI), and Illicit discharge detection and elimination (IDDE) did not meet formally in FY 2012/2013. However, all three Co-permittees' program implementation staff members work effectively together in the performance of their duties for spill prevention, spill response, abatement of illicit discharges, storm drain and other MS4 protection activities.

- b. Workgroup meetings are conducted as necessary to accomplish additional updating of local regulatory, inspection, reporting, and monitoring procedures; chaired by County Chief Building official.

Members reviewed proposed changes to stormwater program permit and participated in final permit development as needed. Communication among workgroup members is continuous as needed; field regulatory problems are addressed with mutual support as required.

- c. FY 2013/2014 planned activities include development of work plan for compliance with WQO# 2013-0001-DWQ, as defined in the "Guidance Document" (Appendix 1); the workgroup chair will participate in a new Management Workgroup to be chaired by the Lake County [CLEAN WATER PROGRAM](#) Program Manager.

2. Regulatory review and program authority update planning

- a. Create and implement appropriate ordinances and internal procedures for administration of training, updating of permit application processes, as needed.
- b. County Stormwater Management Ordinance adopted May 2006, Grading Ordinance adopted July 2007; City of Clearlake Stormwater Management Ordinance adopted January 2007; City of Lakeport Stormwater Management Ordinance adopted June 2006. Ordinances are implemented by each Co-permittees' departments of Community Development, Planning, Code Enforcement, Public Works, Engineering, and others as determined by internal administration procedures.
- c. Program is effective; all Co-permittees have established practical management tools for implementation of local ordinances and administrative procedures; Planning and Building Departments maintain regular review and updating of staff competency requirements.
- d. The next updating review will be scheduled in the FY 2013/2014 Management Workgroup's work plan as indicated in the "Guidance Document" (Appendix 1).

3. **Revise sediment and erosion control BMP materials as appropriate; provide BMP information to developers, the construction community, and the general public**
 - a. Standard and customized educational materials continue to be distributed to developers, construction community (including vendors, service providers, suppliers, building industry, project managers and supervisors) and the general public. Accomplished by all Co-permittees' Planning and Building, Engineering, Public Works, and other departments as needed.
 - b. Project planners and service providers receive continuing input on BMPs for managing compliance with regulatory requirements; general public informed through PEO/PIP outreach and education programs. Additional materials will be created and or reproduced as available, during update of [CLEAN WATER PROGRAM](#) PEO/PIP web site and as needed to comply with additional control measures for stormwater pollution prevention defined in WQO# 2013-0001-DWQ.
 - c. Standard erosion and sediment control practices are implemented by all permitted use projects; largest areas of injured soilscape are either in federal lands beyond the control of the MS4, or result from illegal activities. Stormwater ordinances are used in abatement program for eradication of illegal grading, drainage, and soil management activities. The PEO/PIP Workgroup coordinator provides information to supply industry, collective growers associations, and individual legal gardeners whenever possible.
 - d. Review of additional needs for compliance with WQO# 2013-0001-DWQ will occur as needed, for development of FY 2013/2014 Management Workgroup plan as defined in the "Guidance Document" (Appendix 1).
4. **Plan review and site inspection procedures, and revised fee schedules**
 - a. Plan review and site inspection procedures have been completed and are continuing as needed in all three Co-permittee departments of Planning and Building, Community Development, Public Works, Administration, and Finance. Shortage of staffing in all three Co-permittee organizations limits management of this requirement, but results have been satisfactory to date.
 - b. New requirements of WQO#2013-0001-DWQ will be incorporated during Management Workgroup planning in accordance with the "Guidance Document" (Appendix 1).
5. **Site inspector and plan reviewer training program**
 - a. Site inspectors and plan reviewers in all three Co-permittee departments of Planning and Building, Community Development, Public Works, Engineering, and others as needed have achieved the necessary competencies and when not available the work is contracted to certified professionals in the field.
 - b. Significant economic impacts have resulted in staffing reductions and losses of expertise; concentration of efforts continues to be placed on effective planning, permitting, and project management, while maintaining extra efforts on erosion control and management in illegal activities throughout the county.
 - c. The CON/PCON workgroup and affiliated department staff will participate in development of new program control measures for compliance with WQO#2013-0001-DWQ in accordance with the "Guidance Document" (Appendix 1); however, the majority of new requirements address non-construction based areas of concern, requiring fewer updates of standard practices in the implementation of new construction.

6. Annual training program for construction site operators

- a. Construction site operators are required to implement BMPs prescribed in CASQA handbooks, as defined in major use permits that have been updated to incorporate known competency requirements for project management.
- b. Project planners and project management staff are referred to the CASQA website for availability of standard training services, but co-permittees provide assistance to develop permitted work plans that conform to conditions in major use permits, implementing stormwater and grading ordinances, as needed.
- c. Additional outreach and education materials to support competency of construction site operators will be provided as available; all materials and resources are identified on the [CLEAN WATER PROGRAM](#) web site, which will be updated to reflect additional control measures required by WQO# 2013-0001-DWQ in accordance with the work plan defined in the "Guidance Document" (Appendix 1).

7. Public education and outreach

Refer to the Section 3 of this report, Public Education & Outreach and Public Involvement & Participation, for details on how the CON/PCON workgroup needs are addressed; each measurable goal in the CON/PCON program incorporates PEO/PIP materials and services.

8. Construction site stormwater runoff control program tracking and reporting

- a. Reporting of stormwater runoff complaints is done proactively by building inspection and planning staff of the three Co-permittees. The Lake County [CLEAN WATER PROGRAM](#) and [City of Lakeport Clean Water Program](#) websites provide a venue for the public to report illicit discharges and other stormwater program violations. The City of Clearlake is in the process of developing a comprehensive website for city operations, and the City of Clearlake Clean Water Program web pages will include the necessary information for reporting of stormwater program violations.
- b. Tracking systems exist within each of the three Co-permittees electronic permit systems for building and grading permits. In addition, the County Community Development Department has incorporated grading and stormwater violations into its code enforcement database that contains all relevant information for each site, whether under permit or in violation.
- c. New program requirements identified in WQO# 2013-0001-DWQ will be addressed during the development of the work plan for implementing the "Guidance Document" (Appendix 1) in FY 2013/2014.

SECTION 5

POST CONSTRUCTION STORMWATER MANAGEMENT

BACKGROUND

New development and significant redevelopment¹ projects can adversely affect receiving water bodies for decades if post-construction storm water management BMPs are not implemented and maintained over the life of the project. Under the General Permit, Co-permittees are required to develop, implement, and enforce a program to address storm water runoff from new and redevelopment projects that disturb greater than or equal to one acre of soil. This program is named the **Post Construction Stormwater Management Program (PCON)**.

GOALS AND OBJECTIVES

The goal of the PCON Program is to reduce the long-term adverse impacts of significant new and redevelopment on storm water and receiving water bodies. To achieve this goal, the following objectives have been developed:

- Develop and implement strategies including a combination of structural and non-structural BMPs as appropriate;
- Minimize the creation of impervious surfaces at new and redevelopment projects;
- Control pollutants by eliminating or reducing potential new sources through the implementation of BMPs;
- Adopt and implement an ordinance or other regulatory mechanism to address post-construction runoff from significant new and redevelopment projects;
- Ensure adequate long-term operation and maintenance of BMPs; and,
- Develop and implement measurable goals to evaluate the success of the BMPs.

POST CONSTRUCTION STORMWATER MANAGEMENT BMPs

The PCON program is divided into four categories to effectively address storm water issues related to construction site runoff. These categories are: (1) PCON Program Management (i.e., workgroup, ordinance and BMP development); (2) Development Plan Review and Training; (3) Post-Construction Education and Outreach; and, (4) Tracking and Reporting. For each category, specific BMPs and associated implementation timelines were adopted in the Program's SWMP.

FISCAL YEAR 2012/2013 ACCOMPLISHMENTS

GENERAL SUMMARY

The ongoing objectives of the PCON program are to maintain the implementation of prescribed BMPs, by County and Cities (Co-permittees) departments that are involved in management of the Post-Construction Storm Water Program.

Included with the primary objectives of the program are the evaluation and revision of existing ordinance(s), authorities, activities and programs structures. The PCON Workgroup and the CON Workgroup typically act in concert with frequent inter-group consultations as needed, but eschewing formal quarterly meetings, since the programs are well established and organizational changes are few and far between. Each of the responsible parties has adopted the CASQA "Best Management Practices Handbook" and continues implementing its BMPs.

¹ The term "significant redevelopment" refers to alterations of a property that change the "footprint" of a site or building in such a way that there is a disturbance of equal to or greater than 1 acre of land. The term does not include such activities as exterior remodeling. Because redevelopment projects may have site constraints not found on new development sites, the rule provides flexibility for implementing post-construction controls on redevelopment sites that consider these constraints.

The status of BMPs implemented in FY 2012/2013 are described in this section. Program BMP effectiveness and activities planned for FY 2013/2014 are also described. The PCON program is well established with frequent communications among Co-permittees as needed.

POST CONSTRUCTION SITE STORM WATER RUNOFF CONTROL PROGRAM MANAGEMENT

1. Post-construction runoff control (PCON) workgroup

- a. The PCON Workgroup was combined with the CON workgroup in 2009; members from each Co-permittee's staff coordinate implementation of program changes as needed. However, the program requirements are well established within the Co-permittees departments such as Planning and Community Development, Building and Inspection, Engineering, and Public Works.
- b. The Co-Permittees adopted the CASQA "Best Management Practices Handbook" to address new development and redevelopment projects. Construction project managers are advised during permit application and implementation processes and inspections, to ensure incorporation of recommended BMPs in new and redevelopment projects.
- c. Tracking and monitoring of workgroup activities and updating of implementation procedures is incorporated in regular implementation of major use permits, monitoring and reporting of mitigations defined in permit conditions, and inspection reports.
- d. The CON/PCON workgroup will review needed program changes included in WQO# 2013-0001-DWQ, and participate in development of the work plan for FY 2013/2014 in accordance with the "Guidance Document" (Appendix 1).

2. Regulatory review and program authority update planning

- a. Create and implement appropriate ordinances and internal procedures for administration of training, updating of permit application processes, as needed.

The Lake County Stormwater Management Ordinance was adopted May 2006; Lake County Grading Ordinance adopted July 2007; City of Clearlake Stormwater Management Ordinance adopted January 2007; City of Lakeport Stormwater Management Ordinance adopted June 2006. Ordinances are implemented by each Co-permittees' departments of Community Development, Planning, Code Enforcement, Public Works, Engineering, and others as determined by internal administration procedures.

- b. Program is effective; all Co-permittees have established practical management tools for implementation of local ordinances and administrative procedures; Planning and Building Departments maintain regular review and updating of staff competency requirements.
- c. The next updating review will be scheduled in the FY 2013-2014 Management Workgroup's work plan as indicated in the "Guidance Document" (Appendix 1).

3. Revise post-construction stormwater management BMP materials as appropriate

- a. Standard and customized educational materials continue to be distributed to developers, construction community (including vendors, service providers, suppliers, building industry, project managers and supervisors), and the general public. Accomplished by all Co-permittees' Planning and Building, Engineering, Public Works, and other departments as needed.

- b. Project planners and service providers receive continuing input on BMPs for managing compliance with regulatory requirements; general public informed through PEO/PIP outreach and education programs. Additional materials will be created and or reproduced as available, during update of [CLEAN WATER PROGRAM](#) PEO/PIP web site and as needed to comply with additional control measures for stormwater pollution prevention as defined in WQO# 2013-0001-DWQ.
 - c. Standard erosion and sediment control practices are implemented by all permitted use projects, in compliance with major use permit conditions, monitoring and inspection procedures, and final project approval process. Ongoing operation and maintenance of post-construction BMPs over the lifetime of the project are included in standard permit approvals.
 - d. Review of additional needs for compliance with WQO# 2013-0001-DWQ will occur as needed, for development of FY 2013-2014 Management Workgroup plan as defined in the "Guidance Document" (Appendix 1).
- 4. Revise plan review, permitting, maintenance/operation requirements, fee schedules, and procedures as appropriate**
- a. Plan review and site inspection procedures have been completed and are continuing as needed in all three Co-permittee departments of Planning and Building, Community Development, Public Works, Administration, and Finance. Shortage of staffing in all three Co-permittee organizations limits management of this requirement, but results have been satisfactory to date.
 - b. New requirements of WQO# 2013-0001-DWQ will be incorporated during Management Workgroup planning in accordance with the "Guidance Document" (Appendix 1).
- 5. Continue training program for appropriate staff, provide outreach and education to the construction and community development community as appropriate**
- a. Site inspectors and plan reviewers in all three Co-permittee departments of Planning and Building, Community Development, Public Works, Engineering, and others as needed have achieved the necessary competencies and receive continuing education as needed.
 - b. Significant economic impacts have resulted in staffing reductions and losses of expertise; concentration of efforts continues to be placed on effective planning, permitting, and project management, with outreach and education to the construction community incorporated in the planning and permitting process.

Project planners and project management staff are referred to the CASQA website for availability of standard training services, but Co-permittees provide assistance to develop permitted work plans that conform to conditions in major use permits, implementing stormwater and grading ordinances, as needed.
 - c. Implementation of long-term permit mitigation monitoring and reporting plans in major use permit conditions may be considered as a future objective of the stormwater management programs for large-scale, long-term development projects.
 - d. The CON/PCON workgroup and affiliated department staff will participate in development of new program control measures for compliance with WQO# 2013-0001-DWQ in accordance with the "Guidance Document" (Appendix 1); however, the majority of new requirements address non-construction based areas of concern, requiring fewer updates of standard practices in the implementation of new construction.

6. Public education and outreach, public involvement and participation

Refer to the Section 3, Public Education & Outreach and Public Involvement & Participation Program for details on how the CON/PCON workgroup needs are addressed; each measurable goal in the CON/PCON program incorporates PEO/PIP materials and services.

7. Construction site stormwater runoff control program tracking and reporting

- a. Reporting of stormwater runoff complaints is done proactively by building inspection and planning staff of the three Co-permittees. The Lake County [CLEAN WATER PROGRAM](#) and [City of Lakeport Clean Water Program](#) websites provide a venue for the public to report illicit discharges and other stormwater program violations. The City of Clearlake is in the process of developing a comprehensive website for city operations, and the City of Clearlake Clean Water Program web pages will include the necessary information for reporting of stormwater program violations.
- b. Tracking systems exist within each of the three Co-permittees electronic permit systems for building and grading permits. In addition, the County Community Development Department has incorporated grading and stormwater violations into its code enforcement database that contains all relevant information for each site, whether under permit or in violation.
- c. New program requirements identified in WQO# 2013-0001-DWQ will be address during the development of the work plan for implementing the "Guidance Document" (Appendix 1) in FY 2013-2014.



This photo shows an example of Post Construction BMP's that the City of Clearlake is requiring on construction projects. This erosion control blanket placed along a slope cut that was necessary to widen Old Hwy 53 south of Olympic Avenue to place class II bike lanes along Old Hwy 53.

SECTION 6

ILLICIT DISCHARGE DETECTION AND ELIMINATION

BACKGROUND

The Municipal Separate Storm Sewer System (MS4) includes streets and gutters whose drainage flows through pipes and ditches, discharging into receiving water bodies such as creeks, wetlands, and lakes. Pollutants poured, spilled, dumped, washed, or discharged through illicit connections or illegal dumping into the MS4 can go undetected without an active Illicit Discharge Detection and Elimination (IDDE) program. Illicit discharges are defined as any discharge to the municipal storm drain system that is not composed entirely of storm water, with some exceptions.¹ Illicit discharges enter the system either through direct connections (e.g., wastewater piping either mistakenly or deliberately connected to the storm drain) or illegal dumping of materials that contain pollutants. To help reduce illicit discharges to the MS4 in Lake County, the Lake County [Clean Water Program](#) (LCCWP) has developed and continues to implement an **Illicit Discharge Detection and Elimination (IDDE) Program**.

GOALS AND OBJECTIVES

The goal of the IDDE program is to effectively prevent or correct illicit discharges into the separate storm sewer system by implementing BMPs to the maximum extent practicable (MEP). To achieve this goal, the following objectives have been developed:

- Conduct field inspections/screenings of the MS4, and identify and eliminate the source(s) of non-storm water discharge(s);
- Complete GIS mapping of storm drainage system within the MS4 territories, including the Cities of Clearlake and Lakeport; identify priorities for ongoing field inspections and remedial action planning.
- Detect and eliminate illegal disposal of wastes to the MS4 through a program that combines education, alternative disposal options, and enforcement;
- Effectively coordinate spill prevention and response with existing programs;
- Partner with other agencies and groups to increase public awareness on how to effectively and efficiently prevent pollutant discharges to the MS4.

ILLICIT DISCHARGE DETECTION AND ELIMINATION BMPs

The IDDE element is divided into five categories to effectively address non-storm water discharges. The categories are: (1) IDDE Program Management (i.e., workgroup and ordinance development); (2) IDDE Plan development and implementation; (3) municipal separate storm sewer system mapping; (4) public education and outreach related to IDDE; and (5) reporting and tracking. For each category, specific BMPs and associated implementation timelines were adopted in the Program's SWMP.

¹ Exceptions include authorized non-storm water discharges that are not significant contributors of pollutants to the Small MS4. These include: water line flushing; landscape irrigation; diverted stream flows; rising ground waters; uncontaminated ground water infiltration; uncontaminated pumped ground water; discharges from potable water sources; foundation drains; air conditioning condensation; irrigation water; springs; water from crawl space pumps; footing drains; lawn watering; individual residential car washing; flows from riparian habitats and wetlands; and dechlorinated swimming pool discharges.

FISCAL YEAR 2012/2013 ACCOMPLISHMENTS

GENERAL SUMMARY

The primary objectives for FY 2012/2013 were to maintain developed and adopted BMPs, coordinate project planning and emergency response services, provide additional public education and outreach for integration of public participation, and make wise use of extremely limited staffing resources in all three Co-permittees Public Works, Planning, and Administration Departments.

The Lake County Hazardous Spills and Response Plan is implemented by the Lake County [Department of Environmental Health](#), and the Lake County Hazards Mitigation Plan was updated in September, 2012, by the Lake County Office of Emergency Services. Co-permittees maintain staff competencies in hazards mitigation and emergency response services by participating in the Lake County Disaster Council.

The status of BMPs scheduled for implementation in FY 2012/2013 are described in this section. BMP effectiveness and activities planned for FY 2013/2014 are also described.



ILLICIT DISCHARGE DETECTION AND ELIMINATION PROGRAM MANAGEMENT

1. Illicit discharge detection and elimination workgroup

- a. IDDE pollution prevention and remediation is conducted by the Co-permittees through numerous agencies including:
 - o Planning and Building Departments
 - o Public Works and Engineering Departments
 - o Special Districts (LACOSAN)
 - o Public Health and Environmental Health Departments (County)
 - o Law enforcement agencies
 - o Public water and wastewater treatment plant operators
 - o Office of Emergency Services
 - o Public Services Department (County)
 - o Resource Conservation Districts (and CRMPs)
 - o Homeowners Associations and volunteer groups (Butler-Keys Community Service District, for example)
 - o Community councils and business associations (Upper Lake Community Council sponsors an annual town "clean up day" every year around Earth Day)
 - o Schools (recycling programs in all facilities)
 - o State and federal regulatory agencies (California Departments of Pesticide Regulations, Public Health, CalEMA, Cal EPA, Central Valley Regional Water Quality Control Board, US EPA Region 9, et cetera.)

- b. Formal meetings of the workgroup members were not conducted in FY 2012/2013, but the established program communications system (among agencies and Co-permittees' department staffs) is successful at identifying and remediating illicit discharges in the MS4 to a great extent.
 - c. The Lake County Community Development Department coordinates County-wide abatement programs for eradication of illegal agricultural operations, along with appropriate law enforcement agencies. The Community Development Director discussed these activities with Regional Board staff on September 13, 2013.
 - d. City of Clearlake and City of Lakeport Police Departments conduct law enforcement actions in regular enforcement practices, and in 2013 a program for enforcement of the County's Invasive Species Prevention Program Ordinance was initiated within all law enforcement agencies (Ordinance No. 2976, June 2012). PEO/PIP Workgroup members provide extensive participation in the Invasive Species Prevention Program, and those functions are included in the PEO/PIP Workgroup Annual Report.
 - e. IDDE Workgroup coordination will require additional effort to address the requirements of WQO# 2013-0001-DWQ, for which current and ongoing established program activities are not prepared, and for which the FY 2013/2014 Management Workgroup will develop new goals and objectives in accordance with the "Guidance Document" (Appendix 1).
- 2. Determine administrative structure(s), staffing requirements, and fiscal resources for development of expanded program activities mandated by WQO# 2013-0001-DWQ.**
- a. Administrative structure deficiencies will be addressed in FY 2013/2014 work plan to meet new requirements of WQO#2013-0001-DWQ, in accordance with the "Guidance Document" (Appendix 1).
 - b. Transfer of Program management operations from County's Community Development Department to Department of Public Works/Water Resources requires immediate review of program staffing requirements and budget adjustments as needed. Program management formation of the FY 2013/2014 Management Workgroup will facilitate this process, and is intended to occur within the first quarter of the reporting year.
- 3. Review existing ordinances, authorities, and program structure for the Illicit Discharge Detection and Elimination Program**
- a. Development of local IDDE authority (nuisance abatement, invasive species prevention, grading, stormwater, recreation, shoreline protection, and other ordinances) will be a major component of FY 2013/2014 work planning. New requirements for the NPDES permit compliance greatly challenge the MS4 administrative structures, given the overwhelming contributions of stormwater pollution entering the MS4 system from federal, state, and Irrigated Lands operations in the Upper Cache Creek Watershed.
 - b. Organization of inter-agency communications and coordination of program management to participate in development of multi-disciplinary, multi-jurisdictional plan for prevention of pollution in Clear Lake to comply with the WQO# 2013-0001-DWQ requirement to integrate the legal requirements of the Sacramento and San Joaquin River Basin Plan Amendment for the Control of Nutrients in Clear Lake (CVRWQCB Resolution No. 2006-0060, June, 2006) requires the regeneration of the Lake County Resource Management Committee, which has not met since mid-2010. Likewise, regeneration of the Clear Lake TMDL Stakeholders Committee (CLTSC), formed to provide compliance with the 2006

Basin Plan Amendment, will be required to update the 2008 TMDL Monitoring and Implementation Plan.

Various other County-wide and City-specific programs and projects will support this program, including the update of the 2010 "Clear Lake Integrated Watershed Management Plan" and development of the City of Clearlake's proposed stormwater management plan grant application (approved in concept in the 2013 "Westside Integrated Regional Water Management Plan").

- c. Authority for implementation of the Lake County Natural Hazard Mitigation Plan (FEMA disaster preparedness and response control document, adopted by the Lake County Board of Supervisors in 2012) hazards mitigations and related prevention of stormwater program violations will be an additional basis for development of local ordinances and authorities. Rapid response plans for critical infrastructure protection must include IDDE considerations and tracking/reporting requirements.

4. Spill prevention and response programs

- a. Maintain currency of all standard operating procedures, emergency operation plans, staff competencies and additional training as needed; continue engaging in inter-agency communications for implementing ongoing and new requirements.
- b. Waste discharge requirement violations are reported by the Lake County Environmental Health Department, sanitary sewer system operators, and water treatment plant operators in accordance with State health and safety standards. Additional compliance reporting for new requirements of WQO# 2013-0001-DWQ will be included in the FY 2013/2014 Management Workgroup plan, in accordance with the "Guidance Document" (Appendix 1).
- c. Updating of the Lake County Hazardous Materials Response Plan is scheduled for 2014. The County of Lake has established a new Office of Emergency Services, staffed by a full-time coordinator who was hired in June, 2013.

Expansion of Lake County OES coordination of the County's Disaster Council, in accordance with County Municipal Code Chapter 6, Civil Defense, will provide further services for IDDE and additional prevention authorities, as needed. All Co-permittees maintain Hazardous Materials Response Plans, and the program is coordinated by the County's Environmental Health Department.

- d. Compile reports from Cities, County, and Environmental Health as needed to identify priority "hotspots" in the watershed for remediation or eradication of stormwater pollution sources, as funded by future program revenues.

5. Storm drain system inspection and maintenance program

- a. All Co-permittees have implemented and maintained regular storm drain system inspection and maintenance programs. Co-permittee departments maintain regular communication with local agencies such as Environmental Health and Special Districts Departments for emergency response and clean-up of accidental spills.

In FY 2012/2013, the Lake County Department of Public Works expended 2,181 equipment hours, and 4,057.5 staff hours were spent on drainage system inspection and maintenance. Annual resource usage and activity tracking reports are maintained by the LCDPW.

The City of Clearlake continues to implement storm drainage management despite extreme shortages of staffing and severely impacted watershed conditions. The City submitted a proposed project to the Westside Integrated Regional Water Management Plan (approved by the Lake County Watershed Protection District Board of Directors in July, 2013), for development of a comprehensive storm drainage system master plan (plan in place is dated 1982), for which further groundwork is required but not funded within the City's limited revenues. Volunteer support for development of the updated plan incorporates members of the Lake County [CLEAN WATER PROGRAM](#) PEO/PIP workgroup, and a newly formed Clearlake Watershed Work Group (including members of the Clear Lake Chamber of Commerce).

The City of Lakeport maintains its established storm drain inspection and maintenance program; no difficulties have been encountered in this program.

- b. In FY 2013/2014, IDDE workgroup activities will include review of vulnerable drainage system areas for identification of priorities to take corrective action, through a review of spill reports and GIS mapping project findings. The City of Clearlake will seek funding to support development of its proposed storm drainage master plan update, by participating in the Westside Integrated Regional Water Management Coordinating Committee and the newly formed Regional Water Management Group.

All Co-permittees will participate in development of the FY 2013/2014 Management Plan in accordance with the "Guidance Document" (Appendix 1).

6. Storm drain system inspection and maintenance program staff training

- a. Staff competencies are maintained by continuous communications among agencies that are responsible for inspection and maintenance of storm drain systems in all three of the Co-permittees departments and management. Limited resources for extensive training programs are made up for by longevity of trained personnel and mutual support from Public Works, Planning, Building and Inspection, Environmental Health, and other departments to respond to storm water impacts in the MS4 system.
- b. Requirements for additional management of the MS4 storm drain systems as defined by WQO# 2013-0001-DWQ, in accordance with the "Guidance Document" (Appendix 1), will be developed by the Program Management Workgroup in FY 2013/2014.

7, 8. MS4 mapping

- a. Maintenance of the MS4 storm drain mapping has been continuous in the County of Lake and City of Lakeport, but the City of Clearlake lacks this capacity. Maintenance of the City of Clearlake system is recorded in utility service records, work order requests, and hard copy mapping of existing storm drainage systems. Floodplain drainages overlying the City's streets and storm drains are recorded by the County of Lake Flood Control program, and the City has identified a proposed project to obtain grant funding for development of a city-wide storm drain management plan, which was incorporated into the "Westside Integrated Regional Water Management Plan" approved in 2013 by the Lake County Watershed Protection District Board of Directors.
- b. Requirements for additional management of the MS4 storm drain systems and outfall monitoring and reporting, as defined by WQO# 2013-0001-DWQ, in accordance with the "Guidance Document" (Appendix 1), will be developed by the Program Management Workgroup in FY 2013/2014.

9. Public education & outreach, public involvement & participation

- a. Established program literature is available at all three Co-permittees Planning and Building Departments, public libraries, and outdoor outreach events (annual clean-up days in both cities and some unincorporated communities).
- b. A major overhaul of the [CLEAN WATER PROGRAM web site](#) is anticipated in FY 2013/2014, with additional program literature provided from a plethora of federal, state, and local agencies. Program literature in Spanish and English that was added to the literature collection in FY 2012/2013 ("It only takes a little bit," published by the California Department of Fish and Game) is included in the appendices for this report.
- c. The [City of Lakeport](#) maintains its own [Clean Water Program web site](#) and provides new outreach materials as they are available.
- d. The City of Clearlake is in the process of developing a comprehensive City web site and will include its own Clean Water Program pages for local participation.
- e. Requirements for additional outreach and education for the IDDE program, as defined by WQO# 2013-0001-DWQ, in accordance with the "Guidance Document" (Appendix 1) will be developed by the Program Management Workgroup in FY 2013/2014.

10. IDDE program reporting and tracking procedures

- a. Program reporting and tracking procedures were completed in FY 2006/2007, and continue to be utilized by all three Co-permittees. Spill response reports are available from the Hazardous Materials Management Program manager (County Environmental Health Department), and incident work order reports from the Co-permittees Public Works and Planning, Building, Inspection, and (County) Public Health departments.
- b. Requirements for additional reporting and tracking procedures for the IDDE program, as defined by WQO# 2013-0001-DWQ, in accordance with the "Guidance Document" (Appendix 1), will be developed by the Program Management Workgroup in FY 2013/2014.

SECTION 7

POLLUTION PREVENTION/GOOD HOUSEKEEPING FOR MUNICIPAL OPERATIONS

BACKGROUND

The Pollution Prevention/Good Housekeeping for Municipal Operations minimum control measure is a key element of the Program's Stormwater Management Plan (SWMP). Stormwater quality can be impacted by pollutants (e.g., oil and grease, heavy metals, and pesticides) discharged while conducting municipal operation and maintenance activities, such as repair and maintenance of road/street surfaces and sidewalks; park and recreation area maintenance; and corporation yard operations. To reduce the impacts of municipal operation and maintenance activities on stormwater quality, the Program developed and continues to implement the **Stormwater Pollution Prevention Program for Municipal Operations (MUNI)**.

GOALS AND OBJECTIVES

The goal of the MUNI program is to reduce pollutants generated by municipal operation and maintenance activities from entering the MS4s under the jurisdiction of Co-permittees. To achieve this goal, the following objectives have been developed:

- Optimize pollutant removal during routine maintenance activities such as street sweeping and maintenance of storm drainage facilities;
- Prevent or minimize discharges to the MS4 from road maintenance, parks, corporation yards and other publicly owned facilities;
- Provide information and education about municipal operation and maintenance BMPs and the LCCWP to Co-permittee employees;
- Develop and implement measurable goals to evaluate the success of the BMPs; and,
- Facilitate tracking and reporting of activities conducted under the municipal operations and maintenance program.

MUNICIPAL OPERATIONS AND MAINTENANCE BMPs

The MUNI program is divided into six categories to effectively address stormwater issues related to municipal operation and maintenance activities. These categories are: (1) MUNI Program Management; (2) Stormwater Pollutant Control/Removal Programs; (3) Municipal Operations Stormwater Management; (4) Coordination and Training; (5) Public Education and Outreach; and, (6) Tracking and Reporting. For each category, specific BMPs and associated implementation timelines were adopted in the Program's SWMP.

FISCAL YEAR 2012/2013 ACCOMPLISHMENTS

GENERAL SUMMARY

The ongoing objectives of the MUNI program are intended to educate the departments that are involved with the Pollution Prevention Good Housekeeping Program and to maintain the communication, coordination, tracking, and reporting services established by the program during reporting years 2004/2013. The FY 2012/2013 objectives included:

- Assessing and evaluating existing activities and programs to guide the MUNI Workgroup membership for maintaining an appropriate suite of pollution prevention BMPs for day to day operations;
- Updating training manuals and/or training programs to keep municipal employees abreast of current regulations, current technologies and practices;
- Identifying appropriate BMPs related to the operations and maintenance of County and Cities facilities.

The status of BMPs scheduled for implementation in FY 2012/2013 are described in this section. BMP effectiveness and activities planned for next fiscal year are also described.

MUNICIPAL MAINTENANCE GOOD HOUSEKEEPING PROGRAM MANAGEMENT

1. Municipal operations workgroup

- a. Workgroup members communicate regularly and frequently, participating in multi-jurisdictional planning meetings as needed, and participating in the Lake County CLEAN WATER PROGRAM Advisory Council meetings on a quarterly basis. The MUNI program is well established, continuously implemented, and maintained in all three Co-permittees departments of Public Works, Planning, Building and Inspection, and Administration in compliance with the Lake County Storm Water Management Plan (2003-2008).
- b. MUNI workgroup members are typically also IDDE, CON, and PCON workgroup members or cohorts, and therefore the currency of new requirements, available resources, and organizational support by all three Co-permittees is effective and ongoing.
- c. Requirements for additional management of the municipal operations compliance programs, as defined by WQO# 2013-0001-DWQ, in accordance with the "Guidance Document" (Appendix 1), will be developed by the Program Management Workgroup in FY 2013/2014.

2. Street sweeping program

- a. All three Co-permittees have implemented and continue maintaining regular street sweeping programs. The program is managed in accordance with the CASQA "Best Management Practices Handbook," and a very high degree of street and roadway cleanliness is achieved throughout the year (with variations in response to seasonal conditions).
- b. Annual City "clean-up" days result in tons of soil, debris, solid waste, and trash removed by volunteers and staffs including the Lake County Water Resources Department Invasive Species Program coordinator. The Lake County Public Services Department waived landfill fees for public clean-up events, which collected 306.09 tons of material.
- c. Street sweeping schedules are posted on County and City of Lakeport web sites; City of Clearlake street sweeping services are provided under contract by C&S Waste Solutions (www.candswaste.com).
- d. Requirements for additional management of the municipal operations compliance programs, as defined by WQO# 2013-0001-DWQ, in accordance with the "Guidance Document" (Appendix 1), will be developed by the Program Management Workgroup in FY 2013/2014.

3. Green waste collection programs and activities

- a. All three Co-permittees maintain and promote green waste collection activities and programs available to the general public. The Lake County Public Services Department operates the Lake County Landfill, and trash hauling services are provided under contract by C&S Waste Solutions in the County unincorporated communities and City of Clearlake. The City of Lakeport requires trash removal services provided under contract by Lakeport Disposal. All services available to the public include green waste removal and all clean green waste is recycled by the Public Services Department's recycling program (<http://recycling.co.lake.ca.us/index.asp>).

- b. Requirements for additional management of the municipal operations compliance programs, as defined by WQO# 2013-0001-DWQ, in accordance with the "Guidance Document" (Appendix 1), will be developed by the Program Management Workgroup in FY 2013/2014.

4. Litter control programs and activities

- a. The County "Adopt-a-Road" program web pages provide information to the public and access to multiple transportation resource management agencies (www.co.lake.ca.us/Residents/Roads-Transportation/AdoptARoad.htm).
- b. Annual Creek Clean-Up events sponsored and supported by the East and West Lake Resource Conservation District are promoted by the Lake County Department of Water Resources website.
- c. County of Lake and City of Clearlake franchise waste removal contractor, C&S Waste Solutions, provides extensive outreach and education in publicly supported event venues, such as Clean-Up Days, Earth Day events at various educational fora. County of Lake Public Services Department promotes litter and green waste recycling programs in local media publications (www.record-bee.com and www.lakeconews.com).
- d. Numerous other community volunteer programs occur regularly in Lake County, including the annual clean-up day sponsored by the Upper Lake Community Council. Recycling programs are very popular with high school fund raising volunteers and booster clubs.
- e. The litter control program is well established and effective. Program efficacy and results will be reviewed as a component of developing the FY 2013-2018 Management Plan for compliance with WQO# 2013-0001-DWQ, in accordance with the "Guidance Document" (Appendix 1).

5. MS4 inspections and maintenance activities

- a. All three Co-permittees have adopted the CASQA Best Management Practices Handbook for storm drain maintenance BMPs.
- b. In FY 2012/2013, the Lake County Department of Public Works expended 2,181 equipment hours, and 4,057 staff hours were spent on drainage system inspection and maintenance. Annual resource usage and activity tracking reports are maintained by the LCDPW.
- c. The City of Clearlake continues to implement storm drainage management despite extreme shortages of staffing and severely impacted watershed conditions. The City submitted a proposed project to the Westside Integrated Regional Water Management Plan (approved by the Lake County Watershed Protection District Board of Directors in July, 2013), for development of a comprehensive (and modern) storm drainage system master plan (plan in place is dated 1982), for which further groundwork is required but not funded within the City's limited revenues; volunteer support for development of the updated plan incorporates members of the Lake County CLEAN WATER PROGRAM PEO/PIP workgroup, and a new Clearlake Watershed Work Group (including members of the Clear Lake Chamber of Commerce).

The City of Clearlake has the following inspection and maintenance BMPs: Annually the City inspects all of its storm drain facilities including catch basin inlets, culvert crossings, storm drain pipe lines and drainage ditches. Catch basins, area drains, and culvert crossings, are cleaned each fall to remove silt and other debris that has collected to prevent pollutants from entering the City's storm drains, and ultimately reaching Clearlake. During the FY 2012/2013 reporting period the City of Clearlake's Public Works

crews and public volunteers removed 132.3 cubic yards of silt and mud, and another 5 cubic yards of debris from the City's storm drainage ditches, creeks, inlets and catch basins and City streets.

- d. The City of Lakeport maintains its established storm drain inspection and maintenance program.
- e. Significantly more demanding monitoring of the MS4 storm drain systems is required in WQO# 2013-0001-DWQ. Inspection, identification of "hotspots," development of new enforcement regulations or modification of existing regulations, and additional levels of permit implementation mandates will be necessary. All three Co-permittees will participate in development of the FY 2013-2018 Management Plan, in accordance with the "Guidance Document" (Appendix 1).
- f. Documentation of problem areas and methods for inspection, enforcement, and ongoing monitoring to prevent MS4 storm drain system illicit discharges to the receiving water body, Clear Lake (and other protected water resources) are mandated in WQO# 2013-0001-DWQ; see item "e," above.

6. Evaluate road repair and maintenance impacts on stormwater drain systems

- a. All three Co-permittees have adopted the CASQA "Best Management Practices Handbook," which includes road maintenance and repair BMPs, and maintain staff competencies in implementing the road maintenance and repair management program.
- b. The County of Lake has also adopted the CalTrans Storm Water Management Plan BMPs, and includes CalTrans documentation and training materials in all County Road maintenance programs.
- b. The City of Clearlake road maintenance service capacity is severely limited due to insufficient funding; the City Council has approved a ballot measure to be placed on the November ballot to seek voter approval of a sales tax measure for funding road improvements.

The City of Clearlake transportation system includes over 49 miles of unpaved, heavily traveled roads, the majority of which drain into the MS4 storm drain system. The City Public Works Department acts diligently and promptly to keep these and other substandard transportation arteries from contributing storm water pollution to the receiving water body, Clear Lake. The City's current Pavement Management Plan is found on the Lake Area Planning Council website: www.lakeapc.org.

In FY 2012/2013, the City of Clearlake developed a project proposal for obtaining grant funding to update its 1982 storm drainage master plan, and the project proposal was included in the Westside Integrated Regional Water Management Plan, recently approved by the Lake County Watershed Protection District Board of Directors. Staff and planning resources for developing the grant application (for Proposition 84/1E funding, 319(h) programs, or other sources) are not currently available.

The Lake Area Planning Council also has developed a specific work plan for the City of Clearlake Downtown Lakeshore Drive Corridor project, which is still in the design phase; the planners were requested to incorporate LID retrofit design into all Lake County roadway projects sponsored by the Lake APC, but the project is not yet developed to the point where those requirements are addressed.

The City of Clearlake is also in the process of updating its 32-year-old General Plan, and several-year-old Municipal Service Review, both of which will add impetus to the quests for financing of municipal service capacities such as development of a storm drainage system management program.

- c. The City of Lakeport's Pavement Management Program incorporates logically connected storm drain management requirements and can be used to identify problem areas for improved maintenance and repair within the City's boundaries. The City's watershed assessment maps, although considerably dated, identify major outfalls, natural drainage features, and areas of human impacts that require improvement.
- d. Review of new requirements for compliance with WQO# 2013-0001-DWQ, in accordance with the FY 2013/2018 "Guidance Document" (Appendix 1), will be included in the development of the FY 2013/2014 Management Plan.

7. Hazardous materials management program

- a. All three Co-permittees maintain approved Hazardous Materials Management Plans, have adopted the CASQA "Best Management Practices" Handbook (including materials storage BMPs), and maintain staff competencies through ongoing training and inter-agency communications with the [Lake County Environmental Health Department](#).
- b. All three Co-permittees participate in the Lake County Disaster Council, and provide safety training for all emergency response staff for responding to hazardous materials spills or other storm drain and roadway impacts from handling of hazardous materials during public safety protection activities.
- c. Review of new requirements for compliance with WQO# 2013-0001-DWQ, in accordance with the FY 2013/2018 "Guidance Document" (Appendix 1), will be included in the development of the FY 2013/2014 Management Plan.

8. Implement BMPs for handling of chemicals, solvents, oil, and grease

- a. All three Co-permittees have adopted the CASQA "Best Management Practices" Handbook (including oil, grease, and chemical control BMPs for protection of water quality), and maintain staff competencies through ongoing training and updating of information supplied with purchased hazardous materials.
- b. The County of Lake additionally adopted the CalTrans Storm Water Management Plan for maintenance and service facilities.
- c. All expended service fluids are appropriately recycled by all three Co-permittees Public Works, Roads, and Engineering Departments, as well as water and wastewater treatment plant operators (the City of Clearlake does not provide water or wastewater treatment facilities).
- d. Review of new requirements for compliance with WQO# 2013-0001-DWQ, in accordance with the FY 2013/2018 "Guidance Document" (Appendix 1), will be included in the development of the FY 2013/2014 Management Plan.

9. Maintain safe vehicle and equipment service facilities to protect storm drainage systems

- a. All three Co-permittees Public Works and Utility Departments have completed site drainage mapping, identified sensitive features for additional remediation or protection, and located hazardous materials management areas so that their corporation yards are prevented from contaminating the stormwater drainage system in their proximity.
- b. All three Co-permittees have adopted the CASQA "Best Management Practices" Handbook and the County of Lake Department of Public Works has additionally adopted the CalTrans Storm Water Management Plan for corporation yards. Staff competencies for implementation of BMPs are maintained through ongoing training and updating of service plans for appropriate activity siting.

- c. Review of new requirements for compliance with WQO# 2013-0001-DWQ, in accordance with the FY 2013/2018 "Guidance Document" (Appendix 1), will be included in the development of the FY 2013/2014 Management Plan.

10. Maintain safe parks, open space, buildings and grounds operations to protect storm drainage systems

- a. All three Co-permittees have adopted the CASQA "Best Management Practices" Handbook (including BMPs for safe management of parks, open space, and buildings and grounds maintenance and operations). Staff competencies for implementation of BMPs are maintained through ongoing training and updating of management service plans.
- b. The County of Lake Public Services Department developed its own guidelines, "Municipal Housekeeping Practices," based on the adopted CASQA BMP Handbook, and distributes BMP checklists for use by field staff in County-operated parks, buildings and grounds operations, and other public spaces maintained by the Public Services Department.
- c. Numerous volunteers participate in County and City parks and recreation committees, provide park maintenance labor under staff supervision, and maintain BMPs for protection of the storm drain services incorporated in park and open space facilities.
- d. Review of new requirements for compliance with WQO# 2013-0001-DWQ, in accordance with the FY 2013/2018 "Guidance Document" (Appendix 1), will be included in the development of the FY 2013/2014 Management Plan.

11. Maintain timely and convenient communications services for municipal maintenance crews and service workers

- a. County of Lake Public Works Department provides technology for rapid communication among maintenance crew members, supervisors, and other management staff. As appropriate, and as needed, municipal maintenance facilities can be used for research regarding BMPs, material handling instructions, and on-line training for crews and service workers. Use of email via "smart" phone technology has improved response and service times, and prevented unnecessary delays for implementation of project BMPs.
- b. The Cities of Clearlake and Lakeport maintain mobile telephone communication systems for maintenance crews, supervisors, and other management staff, as needed.
- c. Staff competencies are maintained through ongoing and continuous updating of training information and materials, provided in regular staff project planning meetings and management program reporting venues.
- c. Review of new requirements for compliance with WQO# 2013-0001-DWQ, in accordance with the FY 2013/2018 "Guidance Document" (Appendix 1), will be included in the development of the FY 2013/2014 Management Plan.

12. MUNI public education & outreach, public involvement & participation programs

- a. All three Co-permittees have implemented standard practices for maintenance of public use facilities (parks, buildings, and transportation corridors) to protect the MS4 storm drainage system and inform users of storm drain locations.
- b. Established outreach documentation products continue to be made available at all three Co-permittees' Planning, Building, and Inspection offices, as well as on web sites for the [County of Lake](#) and [City of Lakeport](#); the City of Clearlake is in the process of developing a comprehensive web site that will include the [CLEAN WATER PROGRAM](#) brochures and other information for public education.
- c. All three Co-permittees are served by licensed solid waste services, and the County of Lake manages the County's solid waste landfill. Numerous opportunities are provided throughout the year to invite public participation in community and city "clean up" days, and the County's advertising in local newspaper publications promotes education about recycling and other safe waste management practices.
- d. Since the programs began in 2003, numerous "clean up" events have occurred at local beaches, in rural streams and creeks, and in community stormwater drainage systems.
- e. Subsidized household waste removal for large appliances, furniture, automobiles, tires, and green waste have encouraged a generally cleaner community environment.
- f. Enforcement of grading, stormwater, and zoning ordinances have resulted in many fewer incidents of "recreational bulldozing," illegal construction, and dumping of household equipment and other garbage in the watersheds surrounding the MS4 storm drain systems.
- g. Enforcement of the County's cultivation ordinance has brought increased attention in the popular press to the aggressive intervention program for removal of illicit agriculture operations. These operations frequently accompany substandard habitation by seasonal occupants, with less than adequate sanitation or solid waste removal services, in remote areas of the watershed around the wildland-urban interface to the populated MS4 communities. Clean up of these illicit agriculture operations is funded by abatement liens against the property owners, where possible.
- h. Considerable reduction in new housing and subdivision planning has allowed the Cities and County to concentrate on watershed and water management, which culminated in 2013 with the approval of the "Westside Integrated Regional Water Management Plan." Public education and outreach enabled participants to identify needs for updating the County's watershed management plan to reflect (among other things) the need to integrate the 2013 NPDES stormwater permit (WQO# 2013-0001-DWQ) requirements for nutrient load reduction and restoration of the beneficial uses of Clear Lake.
- i. Review of the current municipal code chapters, relevant ordinances and local regulations, and adoption of additional authorities to comply with WQO# 2013-0001-DWQ, in accordance with the "Guidance Document" (Appendix 1) and local watershed management plans, as needed, will occur in FY 2013-2014.

13. MUNI programs tracking and reporting

- a. All three Co-permittees maintain project work orders and reports for tracking municipal service costs, as well as results from special events using volunteers and engaging the public through multiple organizations in local communities.

- b. Agencies and departments of all three Co-permittees gather information on a normative basis to manage municipal services, including landfill usage and recycling reports, solid waste management material tracking, hazardous materials removal and recycling (free services), and advertise in the popular press on a regular basis.
- c. The programs are well established, and very few interruptions of service occur. The coordinated spill response teams act promptly and effectively to any incident that threatens the health and safety of the waterways and water supplies in Lake County.
- d. The [County of Lake](#) and [City of Lakeport](#) maintain web-based reporting systems and internal electronic record management of services performed in accordance with the CASQA “Best Management Practices” Handbook; the City of Clearlake has limited but adequate tracking and reporting systems and is in the process of developing the City’s comprehensive web site in 2013.
- e. Review of all MUNI programs, including tracking and reporting efficiency and utility, will occur during development of the FY 2013-2018 program management plan, for compliance with WQO# 2013-0001-DWQ, in accordance with the “Guidance Document” (Appendix 1) and ongoing state and federal mandates, in FY 2013-2014.

APPENDIX 1

PERMIT PAGE #		Corresponding Permit Section								
		A: Overall Planning (Guidance Document Requirements, Page <u>14</u> of Permit)								
		PERMIT SECTION AND ELEMENT	COMMENTS/QUESTIONS	Permit Compliance Year (June 30th unless otherwise noted)	Permit Year	Overall Program Management Provided By The Lake County Watershed Protection District - Responsible Party	Responsible Implementing Party County of Lake	Responsible Implementing Party City of Clearlake	Responsible Implementing Party City of Lakeport	
		E.6	PROGRAM MANAGEMENT ELEMENT							
	20	E.6.a	Legal Authority (update or create ordinance)		2015	2	Director	WPD & CDD	City Manager	City Manager
	22	E.6.b	Certification		2015	2	Director	WPD	City Manager	City Manager
	22	E.6.c	Enforcement Response Plan		2016	3	Director	WPD & CDD	City Engineer	City Manager
		E.7	EDUCATION AND OUTREACH PROGRAM							
	25	E.7.a	Public Outreach and Education	o Reorganized PEO/PIP Work Group October 2011, see Annual Report 2012. o PEO/PIP Work Group inter-agency communications newsletter started January 2013; added Public Library System regular program beginning May 2013. o See Proposed PEO/PIP Work Group plan for 2013-2014 and permit life span. o Support for PEO/PIP Work Group and all program management processes provided by PEO/PIP Work Group Chair, Betsy Cawn (The Essential Public Information Center)						
			Select outreach option. If regional program, develop agreements		2014	1	Director	WPD	LC WPD	LC WPD
			(a) Develop and implement comprehensive education and outreach program		2015	2	Director	WPD	LC WPD	LC WPD
			(b)Conduct surveys 2x during permit term (1)		2016	3	Director	WPD	LC WPD	LC WPD
			(b)Conduct surveys 2x during permit term (2)		2018	5	Director	WPD	LC WPD	LC WPD
			(d)Disseminate education materials to target audiences and translate as appropriate		2015	2	Director	WPD	LC WPD	LC WPD
			(e)Utilize public input in developing outreach program		2015	2	Director	WPD	LC WPD	LC WPD
			(g)Provide water efficient/ stormwater friendly landscaping information		2015	2	Director	WPD	LC WPD	LC WPD
			(h)Promote reporting of illicit discharges		2015	2	Director	WPD	LC WPD	LC WPD
			(i)Provide pesticide/fertilizer application information			2	Director	WPD	LC WPD	LC WPD
			(j)Provide materials to school children		2015	2	Director	WPD	LC WPD	LC WPD
			(k,l,m)Develop messaging to reduce discharges from organized car washes, mobile cleaning and pressure washing	2015	2	Director	WPD	LC WPD	LC WPD	
	27	E.7.b.	Staff and Site Operator Training		2016	3	Director	WPD, CDD & DPW	Public Works Director	City Engineer
	27	E.7.b.1	Illicit Discharge Detection and Elimination Training		2016	3	Director	WPD	Public Works Director	City Engineer
		E.7.b.2	Construction Outreach and Education							
	28		(a) Annual Permittee Staff Training	Starting in 2014, a QSD must oversee grading inspections and plan reviews. This will have an impact on implementation of the Construction requirements (Section E.10)	2015	2	Director	E&I	Public Works Director	City Engineer
	29		(b) Construction Site Operator Education		2016	3	Director	WPD, E&I, & CDD	Public Works Director	City Engineer
		E.7.b.3	Pollution Prevention and Good Housekeeping Staff Training							
	29		Biennial employee training		2015	2	Director	DPW	Public Works Director	City Engineer
		E.8	PUBLIC INVOLVEMENT AND PARTICIPATION PROGRAM							
	30		Develop program with input of the public and implement		2015	2	Director	WPD	PEOP/PIP Workgroup	PEOP/PIP Workgroup
			(a) Develop Public Involvement strategy		2015	2	Director	WPD	PEOP/PIP Workgroup	PEOP/PIP Workgroup
			(b) Consider Citizen Advisory Group	CLAC is the Citizen Advisory Group	2015	2	Director	WPD	PEOP/PIP Workgroup	PEOP/PIP Workgroup

			(c) Create Involvement Opportunities		2015	2	Director	WPD	PEOP/PIP Workgroup	PEOP/PIP Workgroup
			(d) Ensure public can access info about program		2015	2	Director	WPD	PEOP/PIP Workgroup	PEOP/PIP Workgroup
			(f) Engage in IRWMP or equivalent	Lake Co. is participating in IRWMP	2015	2	Director	WPD	PEOP/PIP Workgroup	PEOP/PIP Workgroup
		E.9	ILLCIT DISCHARGE DETECTION AND ELIMINATION							
	31	E.9.a	Outfall Mapping							
			Create and maintain accurate outfall map including a site visit to each outfall		2015 (Summer 2014)	2	Water Resources Engineer	WPD	LC WPD	LC WPD
	32	E.9.b	Illicit Discharge Source/Facility Inventory							
			Create inventory of all industrial/commercial facilities and update annually		2015	2	Water Resources Engineer	EH & CDD	Planning Dept.	City Engineer
			Assess priority areas once during permit term		2017	4	Water Resources Engineer	WPD	WPD	WPD
	33	E.9.c	Field Sampling to Detect Illicit Discharges							
			Sample any flowing outfalls while conducting E.9.a		2015	2	Water Resources Engineer	WPD	WPD	WPD
			Annually sample priority area outfalls determined in E.9.a.		Summer 2015	3	Water Resources Engineer	WPD	WPD	WPD
			Conduct follow up investigation within 72 hours if action levels exceeded		2015 (Summer 2014)	2	Water Resources Engineer	WPD	WPD	WPD
	35	E.9.d	Illicit Discharge Detection and Elimination Source Investigations and Corrective Actions							
			Develop written procedures for investigations and corrective actions		2015 (Summer 2014)	2	Water Resources Engineer	WPD	Planning Dept.	City Engineer
			Once source of discharge is identified, require responsible party to correct within 72 hours of notification and verify with follow-up investigation		2015 (Summer 2014)	2	Water Resources Engineer	WPD	Planning Dept.	City Engineer
			Conduct follow up investigation within 72 hours if action levels exceeded		2015 (Summer 2014)	2	Water Resources Engineer	WPD	Planning Dept.	City Engineer
	36	E.9.e	Spill Response Plan							
			Develop plan		2014	1	Water Resources Engineer	WPD	DPW	City Engineer
		E.10	CONSTRUCTION SITE STORM WATER RUNOFF CONTROL PROGRAM							
	37	E.10.a	Construction Site Inventory							
			Create inventory of all projects subject to local stormwater ordinance		2014	1	Water Resources Program Coordinator	WPD, E&I, & CDD	Planning Dept.	City Engineer
	38	E.10.b	Construction Plan Review and Approval Procedures							
			Develop procedures to review and approve construction plan documents (i.e., erosion and sediment control plans)	Must be QSD to review plans or supervise plan reviewers starting in 2014.	2014	1	Water Resources Program Coordinator	E&I	Planning Dept.	City Engineer
	39	E.10.c	Construction Site Inspection and Enforcement							
			Inspect construction sites	Must be QSD to do inspections or supervise inspectors; includes public & private projects	2015	2	Water Resources Program Coordinator	E&I	Planning Dept.	City Engineer
		E.11	POLLUTION PREVENTION/GOOD HOUSEKEEPING FOR PERMITTEE OPERATIONS PROGRAM							
	40	E.11.a	Inventory of Permittee-Owned and Operated Facilities							
			Develop and maintain inventory of all permittee owned or operated facilities that are a potential threat to water quality		2015	2	Water Resources Program Coordinator	DPW / Buildings and Grounds	DPW	PW Dir.
	41	E.11.b	Map of Permittee-owned or Operated Facilities							
			Develop a map of inventoried facilities		2015	2	Water Resources Engineer	WPD	DPW	PW Dir.
	41	E.11.c	Facility Assessment							

			Conduct comprehensive annual assessment and identify subset of facilities that could be considered hotspots		2016	3	Water Resource Program Coordinator	WPD	DPW	PW Dir.
			Document comprehensive assessment procedures and results		2016	3	Water Resource Program Coordinator	WPD	DPW	PW Dir.
	42	E.11.d	Stormwater Pollution Prevention Plans							
			Develop SWPPPS for hotspots		2017	4	Water Resources Engineer	E&I	DPW	PW Dir.
	43	E.11.e	Inspections, Visual Monitoring and Remedial Action							
			Quarterly visual inspection of hotspots		2018	5	Water Resources Program Coordinator	DPW / Buildings and Grounds	DPW	PW Dir.
			Annual comprehensive hotspot inspection		2018	5	Water Resource Program Coordinator	DPW / Buildings and Grounds	DPW	PW Dir.
			Quarterly hotspot visual observation of storm water and non-stormwater discharges		2018	5	Water Resources Program Coordinator	DPW / Buildings and Grounds	DPW	PW Dir.
			Non-Hotspots - Inspect each inventoried facility that is not a hotspot once during permit		2018	5	Water Resources Program Coordinator	DPW / Buildings and Grounds	DPW	PW Dir.
	44	E.11.f	Storm Drain System Assessment and Prioritization							
			Implement procedures to assess and prioritize maintenance of storm drain system infrastructure. Assign a priority to each facility based on accumulation of sediment, trash and/or debris		2015	2	Water Resources Engineer	Road Super	DPW	PW Dir.
	45	E.11.g	Maintenance of Storm Drain System							
			Inspect storm drain systems based on assigned priorities.		2016	3	Water Resources Engineer	Road Super	DPW	PW Dir.
			Inspect high priority catch basins annually		2016	3	Water Resources Engineer	Road Super	DPW	PW Dir.
			Clean high priority storm drains		2016	3	Water Resources Engineer	Road Super	DPW	PW Dir.
			Label catch basins		2016	3	Water Resources Engineer	Road Super	DPW	PW Dir.
			Maintain surface drainage structures		2016	3	Water Resources Engineer	Road Super	DPW	PW Dir.
			Develop procedure to dispose of waste materials removed from catch basins		2016	3	Water Resources Engineer	Road Super	DPW	PW Dir.
	45	E.11.h	Permittee Operations and Maintenance Activities (O&M)						DPW	
			Develop program to assess O&M activities for potential to discharge pollutants and inspect all O&M BMPs quarterly		2016	3	Water Resources Engineer	DPW / Buildings and Grounds	DPW	PW Dir.
	46	E.11.i	Incorporation of Water Quality and Habitat Enhancement Features in Flood Management Facilities							
			Develop and implement process for incorporating water quality and habitat enhancement into new and rehabilitated flood management projects		2016	3	Water Resources Engineer	WPD	DPW	PW Dir.
	47	E.11.j	Landscape Design and Maintenance							
			Implement a landscape design and maintenance program to reduce the amount of water, pesticides and fertilizers used by Permittees		2015	2	Water Resources Engineer	Buildings and Grounds	DPW	PW Dir.
			Evaluate use of pesticides, herbicides and fertilizers		2015	2	Water Resources Engineer	Road Super / Buildings and Grounds	DPW	PW Dir.
			Implement best practices to reduce pesticides and fertilizers		2015	2	Water Resources Engineer	Road Super	DPW	PW Dir.
			Proper disposal of unused chemicals		2015	2	Water Resources Engineer	Road Super	DPW	PW Dir.

			Evapo-based irrigation and rain sensors		2015	2	Water Resources Engineer	Buildings and Grounds	DPW	PW Dir.
			Record amount of chemical usage		2015	2	Water Resources Engineer	Road Super	DPW	PW Dir.
		E.12	POST CONSTRUCTION STORMWATER MANAGEMENT PROGRAM							
	48	E.12.a	Post-Construction Treatment Measures							
			Regulate development to comply with the following sections, E.12.b through E.12.l		2015	2	Director	WPD & CDD	Planning Dept.	City Engineer
	48	E.12.b	Site Design Measures							
			Require implementation of site design measures on projects that create or replace 2,500-5,000 SF impervious area (incl single family homes)		2015	2	Water Resources Engineer	WPD & CDD	Planning Dept.	City Engineer
	49	E.12.c	Regulated Projects							
			Implement standards on projects that create or replace >5,000 SF impervious area, aka Regulated Projects		2015	2	Water Resources Engineer	WPD & CDD	Planning Dept.	City Engineer
			Road and Utility Projects creating 5,000 sf or more that are public or fall under planning authority of a city shall comply with LID except 85th % can follow EPA Guidance on green infrastructure		2015	2	Water Resources Engineer	WPD & DPW	Planning Dept.	City Engineer
	51	E.12.d.	Source Control Measures - Regulated Projects shall implement source control measures		2015	2	Water Resources Engineer	WPD & CDD	Planning Dept.	City Engineer
	52	E.12.e	LID Standards - all Regulated Projects shall implement LID standards to treat storm water and provide baseline hydromod mgmt to meet numeric sizing criteria under E.12.e(ii)c		2015	2	Water Resources Engineer	WPD	Planning Dept.	City Engineer
	56	E.12.f	Hydromodification Management		2016	3	Water Resources Engineer	WPD	Planning Dept.	City Engineer
	58	E.12.g	Enforceable Mechanisms							
			Develop or modify enforceable mechanisms to implement E.12.b - E.12.f		2016	3	Water Resources Engineer	WPD & CDD	Planning Dept.	City Engineer
	58	E.12.h	Operation and Maintenance of Post-Construction Stormwater Management Measures							
			Implement an O&M verification program for stormwater treatment and baseline hydromod (defined in E.12.e.ii.f) on all regulated projects		2015	2	Water Resources Engineer	WPD	Planning Dept.	City Engineer
	60	E.12.i	Post-Construction BMP Condition Assessment							
			Inventory and assess the maintenance condition of structural post-construction BMPs within permittees jurisdiction		2016	3	Water Resources Engineer	WPD	Planning Dept.	City Engineer
	61	E.12.j	Planning and Development Review Process							
			Conduct review using an existing guide such as Municipal Regulatory Update Assistance Program		2016	1-3	Water Resources Engineer	WPD	Planning Dept.	City Engineer
			Conduct an analysis of the landscape code to correct gaps hindering post construction requirements		2014	1	Water Resources Engineer	WPD	Planning Dept.	City Engineer
			Complete any changes to landscape code to administer post-construction req		2015	2	Water Resources Engineer	WPD	Planning Dept.	City Engineer
		E.12.k	Post Construction Storm Water Management Requirements Based on Assessment and Maintenance of Watershed Processes		TBD					
		E.12.l	Alternative Post-Construction Storm Water Management Program							

			For multiple benefit projects a permittee may propose alternative Post Const. Requirements (address water quality, supply, flood control, habitat enhancement, open space preserv, recreation, climate change)		No date provided - permittee may propose if desired					
		E.13	WATER QUALITY MONITORING							
		E.13.a.	ASBS Monitoring - MS4s that discharge to ASBS and are covered by an Ocean Plan exception comply with Attachment C		2014	1	N/A	N/A	N/A	N/A
	63	E.13.b.	TMDL Monitoring - MS4s w TMDLs must comply with Attachment G and consult with Regional Board within 1 year of effective date to determine monitoring requirements and schedule. And shall implement TMDL monitoring as specified by RB Executive Officer	Since Clearlake is subject to a TMDL, only one monitoring program is required. The LC WPD should serve as the umbrella agency overseeing TMDL implementation and associated WQ monitoring. The program must be developed in year1.	2014	1	Water Resources Program Coordinator	WPD - TBD	WPD - TBD	WPD - TBD
	64	E.13.c.	303(d) Monitoring - MS4s discharging to 303(d) listed waterbodies shall consult with Regional Board within 1 year of effective date to determine whether monitoring is necessary.		2014	1	Water Resources Program Coordinator	WPD - TBD	WPD - TBD	WPD - TBD
		E.13.d.	Receiving Water Monitoring and Special Studies (Select either Receiving Water Monitoring or Special Studies, if not already conducting E.13.a, b or c monitoring)			1				
		E.13.d.1	Receiving Water Monitoring		2014	1				
			Select one urban/rural site and one urban area site to monitor		2014	1				
			Monitor urban/rural and urban area sites		2015	2				
			Complete and have available a report that includes a summary of baseline data collections and discussion of monitoring program results		2015	2				
			Complete and have available a report that includes a comparison of data collection to baseline data and discussion of monitoring program results		2018	5				
		E.13.d.2	Special Studies							
			Develop and implement special study monitoring program and submit to Regional Board for review and approval		2014	1				
			Implement approved special study plan		2015	2				
			Complete and have available a report that includes a summary of baseline data collections and discussion of monitoring program results		2015	2				
			Complete and have available a report that includes a comparison of data collection to baseline data and discussion of monitoring program results		2018	5				
		E.14	PROGRAM EFFECTIVENESS ASSESSMENT							
	70	E.14.a	Program Effectiveness Assessment and Improvement Plan (PEAIP)							
			Submit PEAIP		2015	2	Director	WPD	LC WPD	LC WPD
	72	E.14.b	Storm Water Program Modifications							
			Identify and summarize BMP and/or program modifications identified in priority program areas that will be made in the next permit term		2018	5	Director	WPD	LC WPD	LC WPD
		E.15	TOTAL MAXIMUM DAILY LOADS COMPLIANCE REQUIREMENTS							
	73	E.15.a	Comply with all approved TMDLs (Attachment G)		2014	1	Director	WPD	LC WPD	LC WPD

	73	E.15.b	Waste load allocations are incorporated herein by reference as enforceable parts of this Order	The TMDL lists multiple stakeholders, some who are not part of the Clean Water Advisory Council or subject to the MS4 Permit. The LC WPD should serve as the umbrella agency for TMDL implementation of all these agencies. LC WPD will report progress annual via the MS4 report.	2014	1	Director	WPD	LC WPD	LC WPD
	73	E.15.c	Regional Board reviews TMDLs within one year of effective date and may propose modifications to requirements		2014	1	Director	WPD	LC WPD	LC WPD
	74	E.15.d	Report status of implementation via SMARTS		2014	1	Director	WPD	LC WPD	LC WPD
	74	E.15.e	Comply with Clean Water Act Sections 303d,306b and 314		2014	1	Director	WPD	LC WPD	LC WPD
		E.16	ANNUAL REPORTING PROGRAM							
	74	E.16.a	Use SMARTS to report and certify	The LC Clean Water Program will continue to submit one annual report covering all jurisdictions, with each jurisdiction providing data to the WPD throughout the year.	2014-2018	all years	Water Resources Program Coordinator	WPD	City Engineer	City Engineer
	74	E.16.b	Complete and retain annual reports and make available to RWQCB during working hours		2014-2018	all years	Water Resources Program Coordinator	WPD	City Engineer	City Engineer
	74	E.16.c	Submit detailed written or oral report to RWQCB if directed.		2014-2018	all years	Water Resources Program Coordinator	WPD	City Engineer	City Engineer
	75	E.16.d	May coordinate reporting if regional programs		2014-2018	all years	Water Resources Program Coordinator	WPD	City Engineer	City Engineer

APPENDIX 2

September 3, 2013

To: Lake County CLEAN WATER PROGRAM (LCCWP) Advisory Council
LCCWP Implementation Team

Cc: LCCWP Public Education & Outreach and Public Involvement & Participation
(PEO/PIP) Workgroup members and friends

From: LCCWP PEO/PIP Workgroup coordinator

Subject: Workgroup report for the Lake County CLEAN WATER PROGRAM implementation
of Water Quality Order No. 2003-0005-DWQ, in compliance with the Lake County
Stormwater Management Plan (2003-2008).

Lake County's CLEAN WATER PROGRAM PEO/PIP workgroup participated in the following events and activities in reporting year 9/15/2012 to 9/15/2013:

- o 2012-2013 NPDES Phase II (Small) Municipal Separate Storm Sewer System (MS4) permit compliance review requirements for the second cycle of the State Water Quality Control Board (SWRCB)'s General Permit, WQO No. 2013-0001-DWQ:

Provided outreach and education program services to elected officials, representing the Cities of Clearlake and Lakeport, newly appointed to the Advisory Council by their respective mayors; worked with appointed elected officials and city staffs to prepare for compliance with the WQO No. 2013-0001-DWQ, adopted by the SWRCB on February 5, 2013. The initial compliance deadline was July 1, 2013 for all three Co-permittees and the Program Manager (who is the legally-responsible party coordinating the collective and individual actions of the Co-permittees).

Provided staff support for production of the FY 2012/2013 Annual Report, working with the Co-permittees' staffs and participating agency/department representatives.

Developed program proposal for the PEO/PIP workgroup compliance requirements for FY 2013-2018 program implementation, supporting the existing programs and addressing additional needs as defined in WQO No. 2013-0001-DWQ.
- o Participated in the following outreach events: Upper Lake High School "Earth Day" (April 22), Yuba College "Earth Day" (April 23), City of Clearlake Annual "Clean-Up" Day (April 27), Kelseyville "Mega Mixer" (May 10); provided month-long outreach displays at two branches of the Lake County Library (Main, in Lakeport, and Redbud, in Clearlake), May and July.
- o Provided monthly PEO/PIP reports to the Clear Lake Advisory Committee and provided monthly newsletter to broad readership (including state, regional, and local agencies, organizations, and Co-permittees' departments and staff).
- o Participated actively in the development of the "Westside Integrated Regional Water Management Plan" (adopted by the Lake County Watershed Protection District Board of Directors in July, 2013), on behalf of the CLEAN WATER PROGRAM and the City of Clearlake.
- o Created an "experimental" Facebook page to measure interests and preferences of viewers on subjects related to Clear Lake, its watersheds, and relevant educational resources. Launched a dedicated Facebook page for the Lake County CLEAN WATER PROGRAM receiving hundreds of viewers in less than two weeks; anticipating additional public participation when Facebook cross-references the CLEAN WATER PROGRAM web sites as they are updated.

- o Provided support to the Lake County Local Agency Formation Commission (LAFCo)'s study of the Lake County Watershed Protection District services, capacities, and needs, to support establishment of appropriate funding and expertise for implementing WQO No. 2013-0001-DWQ (delivery of the Lake County CLEAN WATER PROGRAM).
- o Participated in weekly broadcast on Lake County Community Radio, providing regular updates to listeners on subjects related to all of the above, as well as proposed or ongoing planning processes and opportunities for public participation.
- o Supported application for grant-funded monthly broadcast on Lake County Community Radio provided by the Clear Lake Advisory Committee Chair (and Big Valley Tribe EPA Director); the monthly broadcast funding includes sponsorship of water quality monitoring events to engage public involvement and participation.
- o Participated in statewide teleconference subcommittee calls including State Water Resources Control Board stormwater program staff, regional water quality control boards program staffs, over 150 municipalities (including cities and counties), and the CASQA stormwater program subcommittee coordinators. Supported development of responses to proposed General Permit revisions by the Lake County CLEAN WATER PROGRAM Co-permittees prior to SWRCB adoption of WQO No. 2013-0001-DWQ.
- o Began review of WQO No. 2013-0001-DWQ requirements for integration of TMDL for control of nutrients in Clear Lake, including new mapping to define MS4 responsible jurisdictional areas (see the 2012/2013 Annual Report, Executive Summary), and review of 2008 Monitoring & Implementation Plan (required by Central Valley Water Resources Control Board Resolution No. 2006-0060).
- o Continued participation in Upper Lake High School's Alternative Energy and Sustainable Agriculture Academy (Lake County Fair, quarterly planning meetings, engagement of potential mentors, speakers, and sponsors, and sponsored Lakeport Main Library outreach project combined with Lake County CLEAN WATER PROGRAM Watershed Awareness project, September 2013).
- o Participated in development of Satellite Imagery Project to illustrate watershed sources of phosphorus and the presence, development, and destination of phosphorus, cyanobacteria, and chlorophyll-*a* in Clear Lake, which may be useful for stormwater program monitoring in compliance with WQO No. 2013-0001-DWQ (negotiations with the CVRWQCB stormwater program and TMDL staffs have not yet been scheduled to make the determination of whether the findings will serve the desired permit outcomes).

Respectfully submitted,

Betsy Cawn*
The Essential Public Information Center
 Upper Lake, CA
 707-275-9376
epi-center@sbcglobal.net

*Lake County CLEAN WATER PROGRAM Public Education & Outreach and Public Involvement & Participation workgroup coordinator.

Answer:
They all do.



**A little bit can
go a long way.**

It doesn't take a large amount of chemicals or soaps to pollute an aquatic system. If you were to rinse out a single paint brush that contained latex paint and let it run down the gutter, you would release enough chemicals to compromise one-quarter mile of stream habitat.

For more information:

800-CLEANUP
(800-253-2687)

To report oil spills:

800-OIL-SPILLS
(800-645-7745)

If you observe a person
pouring chemicals into a
storm drain, call:

888-DFG-CALTIP
(888-334-2258)



Department of Fish and Game
1416 9th Street, 12th Floor
Sacramento, CA 95814
www.dfg.ca.gov
(916) 653-6420

Alternate communication format available upon request. If reasonable accommodation is needed call Patricia Lopez at (916) 653-6420 or the California Relay (Telephone) Service for the deaf or hearing-impaired from TDD phones at 1-800-735-2929 or 711.

**It only takes
a little bit**



Question:
**Which of these
will harm your
local creek?**

Common misconceptions

(True or false?)

- There are no creeks near here.

False.

Just because you can't see the creek, doesn't mean it isn't there. Access to the creek may be as close as your driveway! Your driveway flows into a gutter or ditch, which then feeds into a storm drain. These storm drains feed directly into creeks.

- Only a little bit won't hurt. **False.**

Even small amounts of soap, fertilizers, oil and chemicals will harm a creek, harming many of the animals living there.

- Biodegradable products do not harm aquatic life. **False.**

Biodegradable products need time to break down before they are safe. When biodegradable products enter a creek, they are generally still toxic and can kill animals and plants.

- The water that goes down storm drains is cleaned before it is released into the bay.

False.

Almost all storm drains empty directly into rivers, creeks and bays without any type of treatment at all.

Pet waste can be flushed down the toilet or put in the trash.



Properly washing paint brushes keeps paint chemicals out of creeks.

How much is too much?

Anything other than water that flows into a storm drain can harm the creek and the wildlife that depends upon it.

To be safe for fish...

1 ounce
of this product

needs to be
diluted with this
many ounces of
water ...

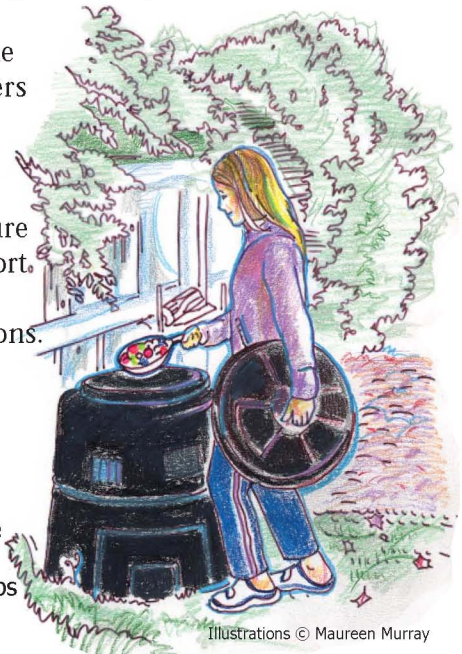
Acrylic house paint	10,000
Liquid dish soap	32,500
Shampoo	769
Fruit drink	100
Household bleach	312,500
Biodegradable cleaner	17,857
General degreaser	100,000
One car wash	10,000

Source: Pollution Response Manual, 1998, California Department of Fish and Game, based on original research performed by the DFG Water Quality Laboratory.

What can I do?

- Keep garbage and other debris from entering storm drains. This includes not allowing anything other than water to flow down your driveway.
- When walking your pet, it is courteous and healthful to pick up pet waste from yards and streets. Coliform bacteria in the waste can harm aquatic life.
- Use the least toxic products for cleaning and garden maintenance.
- Never exceed manufacturers' recommendations for use of chemical products.
- Dispose of home chemicals at approved household hazardous waste collection sites.
- Maintain your vehicle to keep fluids from dripping onto the pavement.

- Call the numbers on the back of this brochure to report any violations.



Composting leaves and garden waste helps your yard and keeps debris out of creeks.

Illustrations © Maureen Murray

Respuesta:
Todas lo harán.



**Una pequeña
cantidad puede
causar mucho
daño.**

No se necesita gran cantidad de productos químicos o jabones para contaminar un sistema acuático. Si Ud. lavara un pincel contaminado con pintura a base de látex y dejara correr el agua por el drenaje, los elementos tóxicos vertidos en el pondrían en riesgo la vida del hábitat de un arroyo en un área equivalente a un cuarto de milla.

Números para recordar

Para dar información de derrames de aceites o productos químicos en aguas abiertas:

800-OIL-SPILLS
(800-645-7745)

Para dar información sobre pesca o caza furtivas:

888-DFG-CALTIP
(888-334-2258)

Si usted vé a alguien vertiendo productos químicos en un drenaje público, llame al:

888-DFG-CALTIP o al programa de aguas fluviales de su ciudad o condado.

Para deshacerse de aceite de motor, pesticidas u otros productos químicos:

800-CLEANUP
(800-253-2687)

Para obtener información sobre prácticas de navegación www.coastal.ca.gov o llame al:

800-CLEANUP

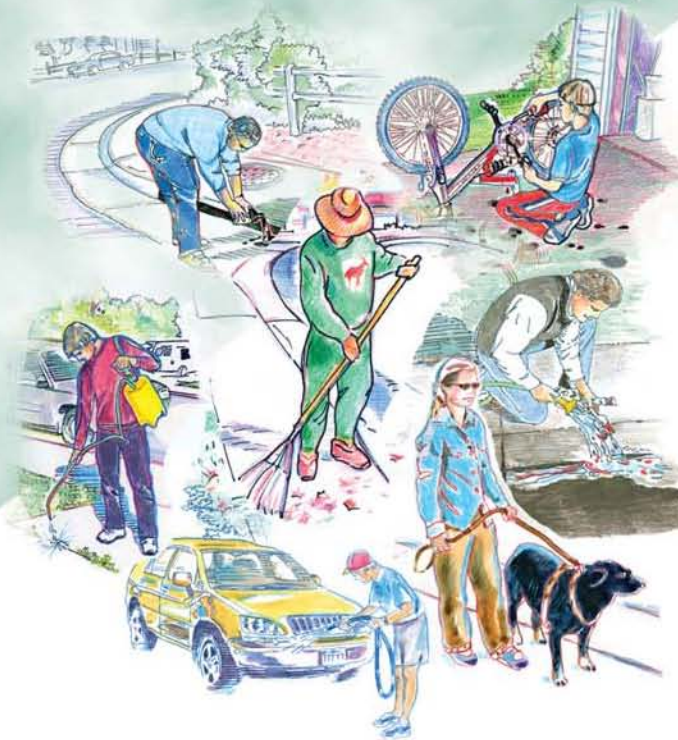
Thank you to Marin County Stormwater Pollution Prevention Program for assisting us with the translation of this brochure.



Departamento de caza y pesca
1416 9th Street, 12th Floor
Sacramento, CA 95814
www.dfg.ca.gov
(916)653-6420

Alternate communication format available upon request. If reasonable accommodation is needed call Forrest Gardens at (916) 653-6420 or the California Relay (Telephone) Service for the deaf or hearing-impaired from TDD phones at 1-800-735-2929 or 711

**Sólo toma
unos minutos
de su tiempo**



Pregunta:
**De éstas opciones
¿Cuál dañará
el arroyo local?**

Conceptos erróneos más comunes

(¿verdadero o falso?)

No hay arroyos cerca de mi casa. Falso.

El hecho de que Ud. no vea el arroyo no significa que no existe. ¡Los lugares de acceso a éste pueden estar tan cerca como la entrada de su casa! El agua que corre desde la entrada de su casa al drenaje, y de allí a la alcantarilla, llevará el agua contaminada al arroyo.

Una pequeña cantidad no perjudica a nadie. Falso.

Jabones, aceites, fertilizantes y productos químicos, aunque utilizados con moderación, pueden perjudicar no sólo la vida del arroyo sino también la vida de los animales que dependen de él para subsistir.

Los productos biodegradables no causan daño a la vida acuática. Falso.

Los productos biodegradables requieren de tiempo para disolverse y volverse inocuos. Cuando una sustancia biodegradable cae a un arroyo generalmente es tóxica y puede matar a animales y plantas.

El agua que corre por los drenajes pasa por un proceso de limpieza antes de desembocar en la bahía. Falso.

Casi todas los drenajes desembocan directamente en ríos, arroyos y bahías sin ningún tipo de tratamiento previo.

El excremento de su animal doméstico puede ser colocado en una bolsa plástica y tirado en la basura.



El lavado correcto de brochas o pinceles antiene pinturas y productos químicos alejados de los arroyos.

¿Cuánto es demasiado?

Todo lo que fluya por un drenaje a excepción de agua, puede dañar el arroyo y la vida que de él depende.

Para proteger a los peces...

Una onza de este producto

debe ser diluido en esta cantidad de agua (medida en onzas).

Pintura a base de acrílico 10,000
Detergente para platos 32,500
Champú 769
Jugo de frutas 100
Cloro 312,500
Limpiador biodegradable 17,857
Desengrasador general 100,000
Lavado de coche 10,000

Fuente: Pollution Response Manual, 1998, Departamento de caza y pesca de California, basado en las investigaciones originales de la calidad del agua llevadas a cabo por el laboratorio DFG.

¿Que puedo hacer?

- Mantenga la basura y desperdicios alejados de los drenajes. Tampoco arroje otra cosa que no sea agua en su vereda.
- Recoger el excremento de su mascota de jardines y calles cuando la saca acaminar, no sólo es de buena educación sino que es beneficioso. La bacteria que se forma en la materia fecal puede dañar la vida del arroyo.
- Utilice productos químicos de baja toxicidad para limpiar y cuidar su jardín.
- Nunca exceda las recomendaciones estipuladas por las compañías de productos químicos.
- Asegúrese de desechar productos tóxicos del hogar en los sitios autorizados para la recolección de dichas sustancias.
- Mantenga su vehículo en condiciones para evitar derrames en el pavimento.
- Llame a los números indicados en la parte de atrás de éste folleto para obtener más información o para denunciar infracciones.

Los abonos naturales a base de hojas y desechos de plantas y hortalizas benefician a su jardín y mantienen los desperdicios alejados de los arroyos.



Illustrations © Maureen Murray

APPENDIX 3

M E M O R A N D U M

TO: Lake County CLEAN WATER PROGRAM Advisory Council

FROM: Carolyn Ruttan
Invasive Species Program Coordinator

SUBJECT: Annual Report on Invasive Species Program outreach and education services

DATE: September 13, 2013

I report on the Quagga/Zebra mussel prevention program (Q/Z MPP) and the Clear Lake Integrated Aquatic Plant Management Program to the Lake County Fish and Wildlife Committee. Committee meets every other month. I talk for about 15 mins.

I attend the Upper Cache Creek Watershed Forum meeting bimonthly meeting.

I attend the Lake County Weed Management Area meeting held monthly or when necessary.

Trained 26 personnel and retrained 28 personnel at businesses to screen watercraft for risk of transporting mussels to Lake County for the Q/Z MPP.

Trained 13 Clear Lake State Park employees to screen watercraft for risk of transporting mussels to Lake County for the Q/Z MPP.

Trained

Trained 27 personnel to inspect watercraft for presence of water or adult mussels, including CA State Park Rangers and CA Department of Fish and Wildlife Game Wardens, City of Lakeport and City of Clearlake Police and Public Works personnel, and Lake County Sheriff's personnel.

Visited and discussed invasives on an individual basis with 50 Lake County residents.

Visited and discussed invasives on 24 occasions at the 36 businesses participating in the Q/Z MPP. During these visits at least 70 members of the public are informed about the Q/Z MPP.

Monitor 13 quagga mussel substrate samplers in Clear Lake, Blue Lakes, Lake Pillsbury, and Hidden Valley Lake for presence of mussels at which time approximately 90 members of the general public are engaged in conversation about the Q/Z MPP.

Visited 30 Lake County residents and lakeshore resorts to improve knowledge of aquatic weeds.

Obtained support from PG&E for Lake Pillsbury invasive mussel signage and a commitment to monitor Lake Pillsbury for mussel veligers and adults.

Presented power point presentations and showed a mussel display of pipe clogging to:

Sierra Club

Hidden Valley Lake, Lake Committee x 2

City of Clearlake x 2

Lakeport Yacht Club

Auxiliary Coastguard

Hidden Valley Lake Association Board x 2

Carle High School biology students

CDFA Hydrilla team

Rotary, Clearlake
Lakeport Library meeting
Clearlake Keys POA
Buckingham Park Water District
Kiwanis, Lakeport x 2
Rotary, Kelseyville x 2
Workforce Lake students x 2
Lake County Farm Bureau

Attended the following events to present a static display and discuss invasives with the public:

Cache Creek Conservancy Discovery Day
Blue Lakes Trout Derby
Wildflower brunch at Clear Lake State Park
Heron Festival, Redbud Park, Clearlake
Catfish Derby, Clearlake Oaks
Kelseyville Business Owners Mixer
Lake Pillsbury Homesites meeting
Kelseyville Elementary Science Fair
Lakeport Carp Shoot
Lake County Weed Tour
Sea Plane Fly-in
Hidden Valley Lake Lake Days
Lakeport Yacht Club Regatta
Lakeport Yacht Club Catfish Derby
City of Clearlake Clean-up Day
Coastal Clean-up Day

Met with Bass Anglers Sportsman Society (B.A.S.S.) Director, B.A.S.S. Future Pro Director , Western Outdoor News Bass Tournament Director, and FLW Tour Director to discuss the importance of the Lake County Q/Z MPP.

Met with the Big Valley Rancheria Tribal Committee to discuss their participation in the Q/Z MPP.

Setup a month long mussel display with brochures in the Lakeport Library.
Have distributed 5,000 Quash the Quagga brochures and purchased 5,000 more.

Distributed 10 "Stop the Mussel" signs to resort beaches.
Placed a 4'x5' mussel information sign on Lakeport Blvd, Lakeport
Placed a 4'x8' mussel information sign on Hwy 29, Middletown
Placed a 4'x8' mussel information sign on Walker Ridge Road at Indian Valley
Reservoir with the cooperation of Yolo County Flood Control and Water Conservation District.

Lake county resorts and fishing businesses have added a mussel page to their websites.