LAKE COUNTY CLEAN WATER PROGRAM

Fiscal Year 2008/2009 Annual Report

September 15, 2009

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

The County of Lake, City of Lakeport and City of Clearlake have joined together as Co-permittees to form the Lake County Clean Water Program (Program). The Program’s Stormwater Management Plan (SWMP) is a joint project of these agencies. The Lake County Clean Water Program Stormwater Management Plan is structured to accomplish meeting the six minimum management measures through the following three step process:

1) Evaluation of existing activities and programs that may be used and/or revised to meet the Phase II requirements;
2) Revise and/or develop programs and activities as previously evaluated to meet the Phase II requirements;
3) Implement new and revised programs for compliance with the NPDES waste discharge requirements for storm water discharges from small municipal storm sewer systems.

In implementing the SWMP, efforts have been coordinated through the Lake County Community Development Department, acting as overall Stormwater Program Coordinator, on behalf of all Co-permittees. As Co-permittees to the Program, each agency has pursued its own local stormwater pollution prevention activities and also contributed support to the region-wide effort. Each Co-permittee is also responsible for implementing the required six minimum management measures within their municipality. In meeting the six minimum management measures, some BMPs are implemented on a region-wide basis, being jointly sponsored by all Co-permittees. Examples of region-wide efforts include public education and involvement efforts targeted to residents and businesses; development and implementation of training programs for developers, construction site operators and municipal staff; and coordinating with other countywide, regional, and state agencies.

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

Program effectiveness at removing pollutants in stormwater discharges from the MS4 is generally unknown at this time. However, effectiveness measurements for each Program element will be developed and incorporated into tracking and reporting procedures as the remaining Program BMP’s are completed. Co-permittees will be the be able to move forward with assessing program efforts and determining the effectiveness of reducing pollutants in storm water discharges of the MS4s.

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 2008/2009 is the fifth reporting period for Co-permittees for implementation of the Countywide SWMP. Implementation of the SWMP is meant to be an iterative process that builds upon past accomplishments towards a fully functional SWMP at the end of the permit term. Even though all BMP measurable goals as outlined within the SWMP have not been completely obtained in a quantifiable manner as described within the SWMP, co-permittees have made significant progress towards compliance with the State General Permit and Countywide SWMP, and have set deadlines for completing the remaining BMP’s by June 30, 2010.

In June 2009 the Co-Permittees received a Notice of Non-Compliance from the California Regional Water Quality Control Board for the FY 2007/2008 Clean Water Program Annual Report. This 2008/2009 Annual Report addresses the issues raised in the Notice of Non-Compliance, and sets specific deadlines for completion of remaining BMP’s. In addition, a number of accomplishments by Co-Permittees in FY 2007/2008 were under-reported or not mentioned in last year’s annual report, and these
accomplishments have been noted in this current Report. Advisory Council Meetings and Workgroups have been re-started and the Co-Permittees are undertaking every possible effort to complete the remaining Program requirements by June 30, 2010.

PROGRAM ACCOMPLISHMENTS TO DATE

• All co-permittees have designated a Stormwater Program Coordinator to provide the necessary support needed to implement the SWMP within their municipality and coordinate efforts with other Co-permittees and agencies.

• Resolutions approving the adoption of the Lake County Clean Water Program Stormwater Management Plan have been approved by the County of Lake, City of Clearlake and City of Lakeport.

• An Agreement Providing for Implementation of the Lake County Clean Water Program became effective in September 2004 with signatures by all co-permittees and the Lake County Watershed Protection District (formerly the Lake County Flood Control and Water Conservation District). This Agreement will provide the necessary framework and management structure for co-permittees to implement the Lake County Clean Water Program through the Lake County Clean Water Program Advisory Council and Program working groups responsible for working on the required six minimum control measures (see Appendix 1-1 through 1-3).

• Each Co-permittee has adopted a storm water ordinance designed to give each the legal authority necessary to implement the program effectively.

• The Program’s Advisory Council has re-started meetings and will meet regularly during FY 09-10 to coordinate completion of remaining Program BMP’s. (See Appendix 3-1). The Advisory Council serves as the oversight and management entity of the Program and provides direction on policy and Program management.

• The Program completed numerous public education and outreach materials (see Appendix 2 of FY 06/07 Annual Report), including the Program’s general storm water brochure that is designed to introduce the topic of storm water pollution and educate residents and businesses on the impacts of storm water on water quality and ways they can help prevent storm water pollution.

• The City of Lakeport and the County of Lake have begun stenciling storm drains in their respective municipalities.

• The City of Clearlake purchased 100 permanent storm drain markers in 2008-09, and will be installing them in the fall 2009. This will eliminate or reduce the need to re-stencil its drainage inlets and catch basins.

• In FY 07/08, the County of Lake adopted a new Grading Ordinance that incorporates stormwater BMP requirements for construction projects.

• In August 2007 the County of Lake adopted the Municipal Operations BMP Handbook produced by CASQA which includes BMPs for various activities. A resolution establishing Post Construction Requirements was also adopted at the same time.

• Completion of assessments of Co-permittee’s construction and post-construction control programs. The assessment also provided recommended next steps to achieve compliance with NPDES permit requirements.

• The County of Lake completed a draft MS4 outfall map in August 2009 that will continue to be refined through the next four months.

PROGRAM CHALLENGES
Co-permittees have made significant progress towards compliance with the State General Permit and Countywide SWMP. However, as with all municipalities in the State of California, the biggest challenge in implementing the SWMP has been the lack of available staffing and fiscal resources. High workloads and inadequate staffing levels continue to make it difficult for departments to dedicate resources towards an unfunded federally mandated Program.
SECTION 1
INTRODUCTION

BACKGROUND

PROGRAM DESCRIPTION

The Lake County Clean Water Program (Program) is a consortium of agencies in Lake County that discharge stormwater from the Municipal Separate Storm Sewer System (MS4) into Clear Lake and local water bodies. The Program was developed as a requirement of the NPDES Phase II regulations and is compliant with the provisions described in NPDES General Permit No. CAS000004 (General Permit) issued by the State Water Resources Control Board (SWRCB). The Program permittees consist of three (3) public agencies, the County of Lake, City of Clearlake and City of Lakeport, which submitted an application for co-coverage under the General Permit to the Central Valley Regional Water Quality Control Board (RWQCB) on October 27, 2003. The application included 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). In July 2004, the RWQCB approved the Program's application and coverage under the General Permit began.

The Program is organized, coordinated, and implemented in accordance with a Program Agreement that was signed by the Co-permittees and the Lake County Watershed Protection District (District) in 2004 (See Appendix 1-1). The Program Agreement covers the responsibilities of each Co-permittee, and was modified in 2008 to remove the Lake County Watershed Protection District. At the inception of the Program, the District was asked by the Co-permittees to assist in the management of the Program. The Program’s Advisory Council, consisting of one designated representative from each Co-permittee is the official decision-making body for the Program (Appendices 1-2 and 1-3).

PROGRAM GOALS AND OBJECTIVES

The overarching goal of the Program is to reduce pollutants from entering the MS4 and local water bodies through the effective implementation of BMPs to the MEP. More specific goals are described in Table 1.1. To accomplish these goals, the Program has developed 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.

**Goal #1. Comply with the General Permit by:**
- Effectively prohibiting non-storm water discharges;
- Protecting water quality from the impacts of storm water runoff from small MS4s; and,
- Reducing, to the maximum extent practicable, pollutants in storm water runoff.

**Goal #2. Determine Success by:**
- 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.

**Goal #3. Achieve Acceptance of SWMP Activities by:**
- Effectively facilitate public input to 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.

THE PROGRAM’S STORMWATER MANAGEMENT PLAN

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 measures:

- Public Education and Outreach on Storm Water Impacts
- Public Involvement and Participation
- Illicit Discharge Detection and Elimination
- Construction Site Storm Water Runoff Control
- Post Construction Storm Water Management in New Development/Redevelopment; and,
- Pollution Prevention/Good Housekeeping for Municipal Operations

THE PROGRAM’S ANNUAL REPORT

In accordance with General Permit Provision F.1, the Program must submit an Annual Report by September 15 of each year. In addition, the Annual Report serves as an important internal Program 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 2008/2009 Annual Report are to: 1) meet specific General Permit requirements by identifying the remaining BMP’s that need to be met and establishing realistic deadlines for their completion over the next year utilizing limited staff resources and funding; 2) Refine mechanisms for reporting and self-evaluation (via measurable goals); and 3) identify BMP’s that are not practical and cannot be implemented and develop replacement BMP’s that can be implanted during FY 09-10.

ORGANIZATION OF ANNUAL REPORT

The FY 08-09 Annual Report consists of this Introduction and six (6) Sections associated with each minimum measure. Following Section 1, measurable goal status/results, BMP effectiveness and planned activities are listed in tables and described in text for each BMP that was scheduled for implementation in FY 08-09. The reporting format is outlined below:
Table 1.2  Fiscal Year 2008-2009 Annual Reporting Format.

<table>
<thead>
<tr>
<th>ITEM</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>BMP APPROPRIATENESS</td>
<td>Brief description of the appropriateness of the BMP for the minimum control measure.</td>
</tr>
<tr>
<td>MEASURABLE GOAL RESULTS</td>
<td>Results of achieving measurable goals.</td>
</tr>
<tr>
<td>PROBLEMS IN OBTAINING MEASURABLE GOALS</td>
<td>Description of problems in obtaining measurable goals.</td>
</tr>
<tr>
<td>BMP EFFECTIVENESS</td>
<td>Description of the effectiveness of Minimum Measure BMPs.</td>
</tr>
<tr>
<td>PROPOSED CHANGES TO BMPs AND MEASURABLE GOALS, INCLUDING SETTING PRIORITIES</td>
<td>Justification for changing the BMP and associated measurable goals if needed. If no changes are proposed, “None”.</td>
</tr>
<tr>
<td>ACTIVITIES PLANNED FOR NEXT YEAR</td>
<td>Narrative of the activities scheduled for next fiscal year for the BMP.</td>
</tr>
</tbody>
</table>

Please note that some BMPs were jointly implemented by all Co-permittees and others were implemented individually\(^1\).

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Lake County Clean Water Program

Definitions of Key Acronyms

- **BMP’s**  Best Management Practices
- **CON**  Construction Site Stormwater Runoff Controls
- **IDDE**  Illicit Discharge Detection and Elimination Program
- **MEP**  Maximum Extent Practicable
- **MS4**  Municipal Separate Storm Sewer System
- **MUNI**  Stormwater Pollution Prevention Program for Municipal Operations
- **NPDES**  National Pollutant Discharge Elimination System
- **PCON**  Post Construction Stormwater Management
- **PEOP**  Public Education, Outreach and Participation Program
- **PIP**  Public Involvement and Participation
- **RWQCB**  Regional Water Quality Control Board
- **SWMP**  Stormwater Management Plan
- **SWRCB**  State Water Resources Control Board

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\(^1\) Joint efforts and comments are reported as a whole for all municipalities. Efforts and comments by the County are reported as County of Lake and may include County Department descriptions. Efforts and comments by the City of Clearlake are reported as City of Clearlake. Efforts and comments by the City of Lakeport are reported as City of Lakeport.
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 a greater understanding of the reasons 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 element of the General Permit, the Lake County Clean Water Program is developing and implementing a Public Education, Outreach and Participation (PEOP) Program.

GOALS AND OBJECTIVES

The goal of the Public Education and Outreach element is to reduce storm water pollution in Lake County through the development and implementation of an effective PEOP program that will: (1) Increase public awareness about storm water pollution; and, (2) Educate the community about specific pollutant sources and on what they can do to reduce them in storm water. To achieve this goal, the Program has developed the following objectives for the PEOP program:

- 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 AND OUTREACH BMPs

The Public Education and Outreach element 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 2008/09 ACCOMPLISHMENTS

GENERAL SUMMARY

The Public Education, Outreach and Participation (PEOP) Workgroup first met in January 2004 to coordinate the Public Education, Outreach and Participation Minimum Control Measures. Since that time, the Workgroup has not met with consistency. PEOP has such a high priority, however, that its function has been assigned and implemented by County & City staff. The PEOP workgroup began meeting again in September 2009, with the assistance of volunteers, to further develop and refine PEOP efforts.

The status of BMPs scheduled for implementation in FY 08/09 are listed in Tables 2.1 – 2.2 and briefly described in this section. Additionally, BMP effectiveness and activities planned for next fiscal year are also described.
PUBLIC EDUCATION AND OUTREACH PROGRAM MANAGEMENT

PEOP – 1: Public Education and Outreach Program and PEOP Workgroup

PEOP 1a – Establish a Workgroup to Oversee the Development and Implementation of the Public Education and Outreach Program

BMP Appropriateness - Appropriate for bringing together the various peoples involved in public education and outreach activities for a cohesive effort aimed at furthering the distribution of information regarding the Stormwater Program.

County of Lake, City of Clearlake and City of Lakeport

Measurable Goal Results:

- First PEOP Workgroup Meeting held on January 8, 2004
- PEOP Workgroup has been re-established and began meeting September 2009 to improve public outreach and involvement effectiveness.

Problems in Obtaining Measurable Goals

- Workgroup formal structure was been difficult to fulfill due to limited participation and burdensome membership on other Workgroups and various stakeholder programs. The goals and objectives were partially met using City & County staff to produce brochures and handouts for distribution at the front counters of all co-permitees.

BMP Effectiveness – Effective as brochures and flyers have been published utilizing existing staff and without the formality of the Workgroup structure.

Proposed Changes to BMPs and Measurable Goals – Add PEOP 1a back to re-engage the Workgroup as it has been determined that volunteers can assist staff in performing the function and implement the PEOP goals and objectives.

Activities Planned for Next Year

- Continue with the successful Public Outreach through the local watershed CRMP groups which meet monthly. The CRMP groups continue to be an integral part of program implementation and dissemination of information to the public on issues related to watershed erosion, stormwater runoff, and the affects of nutrient loading on the health of Clear Lake, the primary receiving waters within the Clear Lake Basin.
- Continue with publication of brochures, posters, flyers, and outreach material directed to children, e.g. stickers, coloring books, magnetic refrigerator items.
- Continue program using the local movie theater on-screen advertising program.
- PEOP Workgroup will meet quarterly to coordinate with staff and refine strategies to garner more effective public outreach and participation.

PEOP 1b – Determine Administrative Structure(s), Staffing Requirements and Fiscal Resources Needed to Develop and Implement the Public Education and Outreach Program

BMP Appropriateness - Appropriate. Without an administrative structure and determination of the fiscal resources needed to implement the public education and outreach program, there would be no direction and long term planning to implement the program.
County of Lake, City of Clearlake and City of Lakeport

Measurable Goal Results – Completed the determination of administrative structure and fiscal resources needed to implement the PEOP program. It has been determined that County staff has the ability to reproduce and/or publish PEOP material through the contracted printing firm currently being used by the County.

Problems in Obtaining Measurable Goals – None.

BMP Effectiveness - The public education and outreach component of the program is moving forward very well utilizing the revised program structure. Educational/informational brochures are available at the front counters of each co-permittee.

Proposed Changes to BMPs and Measurable Goals – None.

Activities Planned for Next Year
- None, this BMP is completed.

PEOP 1c – Develop and Begin Implementing the Public Education and Outreach Program

BMP Appropriateness - Appropriate to develop and implement a public education and outreach program to educate and inform the public on stormwater pollution, how they may reduce pollution, and how their activities affect the water quality of Clear Lake.

County of Lake, City of Clearlake and City of Lakeport

Measurable Goal Results – Making significant progress without increasing staff.

Problems in Obtaining Measurable Goals – None.

BMP Effectiveness - The public education and outreach program has moved forward without a formal program structure utilizing, as described above, existing County and City staff to generate and distribute BMP brochures and flyers making this BMP measurably effective. However, the co-permittees believe that the program can be made more effective by engaging volunteers to assist with public outreach, and the PEOP workgroup has been reestablished.

Proposed Changes to BMPs and Measurable Goals – Revise as described previously by adding PEOP 1a back into the program.

Activities Planned for Next Year
- Continue working with CRMP groups at monthly meetings to educate and facilitate program compliance through personal and community-wide understanding of the processes involved with storm water pollution.
- Continue with production of brochures, posters, and flyers directed to priority targets within the public audience.

PEOP 1d – Conduct PEOP Workgroup Meeting Quarterly

BMP Appropriateness – In the FY 07/08 Annual Report it was determined to no longer be appropriate to hold regularly scheduled meetings as the format of the PEOP program had been functionally modified to utilize existing staff. However, during FY 08/09 it was determined that the program can be made more effective by engaging volunteers to assist with public outreach and education. Therefore, the PEOP workgroup has been reestablished.
County of Lake, City of Clearlake and City of Lakeport

Measurable Goal Results: None.

Problems in Obtaining Measurable Goals - High work loads, attrition, shrinking budgets and a changing staff has made it increasingly difficult for those involved to meet and address the issues related to implementation of this BMP.

BMP Effectiveness - Unknown as the Workgroup meetings were not held during this reporting period.

Proposed Changes to BMPs and Measurable Goals - Add PEOP 1d back into the Program as volunteers can assist County & City staff to increase education and outreach efforts beyond the existing brochures being distributed by co-permittees.

Activities Planned for Next Year - Conduct ongoing tool box training at jobsites for construction contractors. Include stormwater education in the Code Update Presentations to contractors and the general public presented by the Lake County Building & Safety Division.

PEOP 1e – Coordinate with Other Working Groups to Determine Needs for Outreach/Education Materials

BMP Appropriateness - Appropriate to coordinate public education and outreach (PEOP) activities with the needs of other working groups dedicated towards their respective program tasks.

County of Lake, City of Clearlake and City of Lakeport

Measurable Goal Results – On-going. Existing County & City staff are effectively coordinating the PEOP activities with existing Workgroups which are meeting regularly; i.e. CON and PCON Workgroups and members of IDDE.

Problems in Obtaining Measurable Goals – No working group meetings were conducted during FY 08/09, and it has been determined by the Advisory Council that the working groups need to be re-established and provided with specific goals and deadlines.

BMP Effectiveness - Unknown

Proposed Changes to BMPs and Measurable Goals – Advisory Council has re-established workgroups and provided specific direction and goals to guide their work.

Activities Planned for Next Year
- Continue coordination efforts between County & City staff and maintain quarterly meetings of the re-established Workgroups to accomplish public education and outreach needs for the entire Program.

PEOP - 2: Evaluation of Public Education and Outreach Activities and Materials

PEOP 2b – Evaluate and Revise Existing Public Education and Outreach Materials and Activities as Needed

BMP Appropriateness - Appropriate to evaluate and revise existing materials as needed to adapt to changing local issues, social changes, and public/private concerns.

County of Lake, City of Clearlake and City of Lakeport
Measurable Goal Results - Ongoing. Although no formal report of findings or recommendations have been prepared, future efforts in producing and evaluating PEOP materials will continue to be performed by City and County staff, with the assistance of the re-established PEOP Workgroup.

Problems in Obtaining Measurable Goals – None.

BMP Effectiveness – Effective using existing staff, however, assistance from workgroup volunteers is expected to improve overall effectiveness of this BMP.

Proposed Changes to BMPs and Measurable Goals – None.

Activities Planned for Next Year

- Continue evaluation of PEOP materials as priorities change.
- Coordinate with workgroup volunteers to evaluate and revise activities and materials.

PEOP 2c – Incorporate Public Education and Outreach Materials into Co-permittees Websites (Update as Appropriate)

BMP Appropriateness - It is appropriate to educate the public on storm water issues through the County website. A uniform message for the co-permittees has been developed into a single web site dedicated to the Lake County Clean Water Program on behalf of all co-permittees. This is currently maintained on the Lake County website home page under “Popular Links”. The County continues to modify website content.

County of Lake, City of Clearlake and City of Lakeport

Measurable Goal Results – Completed/Ongoing. The re-design of the Lake County Clean Water Program website has been completed and is more user-friendly. Information will be kept current.

Problems in Obtaining Measurable Goals – Prior to obtaining the new software, it was extremely difficult to maintain and upgrade the website as it required staff with HTML knowledge. Responsibility of the website was transferred from the Water Resources Division to the Community Development Department in July 2009. Staff within the Community Development Department are now able to maintain the website content.

BMP Effectiveness – Effective. It has been demonstrated in the past that the website serves as an effective platform to promote the Storm Water Program to the public.

Proposed Changes to BMPs and Measurable Goals - None.

Activities Planned for Next Year

- Continue to maintain and update the new web page. Update the new web page to reflect current meeting schedules, agenda, and minutes.
# Status and effectiveness of Public Education and Outreach (PEOP) Best Management Practices (BMPs) scheduled for implementation in Fiscal Year 2008/2009.

<table>
<thead>
<tr>
<th>BMP #</th>
<th>DESCRIPTION</th>
<th>MEASURABLE GOAL</th>
<th>CO-PERMITTEES</th>
<th>STATUS</th>
<th>EFFECTIVE</th>
<th>MODIFIED</th>
</tr>
</thead>
<tbody>
<tr>
<td>PEOP 1a</td>
<td>Establish workgroup to oversee the development and implementation of the Public Education and Outreach Program.</td>
<td>PEOP Workgroup formed.</td>
<td>County of Lake</td>
<td>X</td>
<td>X</td>
<td>X</td>
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<td>City of Lakeport</td>
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<td>X</td>
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<tr>
<td>PEOP 1b</td>
<td>Determine administrative structure, staffing requirements and fiscal resources needed to develop and implement the Program.</td>
<td>Staffing and fiscal resource estimates developed.</td>
<td>County of Lake</td>
<td>X</td>
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<tr>
<td>PEOP 1c</td>
<td>Develop and begin implementing the PEOP Program.</td>
<td>Program developed and implementation has begun.</td>
<td>County of Lake</td>
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<tr>
<td>PEOP 1d</td>
<td>Conduct PEOP Workgroup meetings quarterly.</td>
<td>PEOP Workgroup meeting summaries and attendees list.</td>
<td>County of Lake</td>
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<td>PEOP 1e</td>
<td>Coordinate with other working groups to determine needs for outreach / education materials.</td>
<td>Meet with other working groups as needed to determine needs for outreach / education materials.</td>
<td>County of Lake</td>
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<td>Incomplete</td>
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<td>PEOP 2b</td>
<td>Evaluate and revise existing public education and outreach materials and activities as needed.</td>
<td>Public education and outreach materials evaluated and revised.</td>
<td>County of Lake</td>
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<td>PEOP 2c</td>
<td>Incorporate public education and outreach materials onto co-permittees websites (update as appropriate).</td>
<td>Public education and outreach materials available via co-permittees websites.</td>
<td>County of Lake</td>
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**TRACKING AND REPORTING**

**PEOP – 3: Public Education and Outreach Tracking and Reporting**

**PEOP 3b – Revise and Implement Current Tracking and Reporting Procedures**

**BMP Appropriateness** - Appropriate to implement tracking and reporting procedures as understanding of information distributed, distribution location, and distribution method will allow an assessment of public interest.

**County of Lake, City of Clearlake and City of Lakeport**

**Measurable Goal Results** - Brochures and informational material available to the public.

**Problems in Obtaining Measurable Goals** – Staffing shortages and inadequate resources have made it difficult to revise and implement tracking and reporting procedures. Lack of workgroup meetings may have contributed to being behind schedule.

**BMP Effectiveness** - Unknown.

**Proposed Changes to BMPs and Measurable Goals** - Update current permit tracking and monitoring procedures by December 31, 2009 to include stormwater violations.

**Activities Planned for Next Year**
- Attempt to devise a method to implement tracking procedures, such as tracking number of informational brochures given out.
- Add a counter to webpage
Table 2.2  Status and effectiveness of Public Education and Outreach (PEOP) tracking and reporting procedure BMPs scheduled for implementation in Fiscal Year 2008/2009.

<table>
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<tr>
<th>BMP #</th>
<th>DESCRIPTION</th>
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<tr>
<td>PEOP 3b</td>
<td>Revise and implement current tracking and reporting procedures.</td>
<td>Tracking and reporting procedures</td>
<td>County of Lake</td>
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SECTION 3
PUBLIC INVOLVEMENT AND PARTICIPATION

BACKGROUND
Public involvement and participation are important components of the 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 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 element 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 2008/2009 ACCOMPLISHMENTS
GENERAL SUMMARY
The Public Education, Outreach and Participation (PEOP) Workgroup first met in January 2004 to coordinate the Public Education and Outreach and Public Involvement and Participation Minimum Control Measures. The Workgroup did not meet during FY 08/09 nor have they made significant progress due to changing staff positions, attrition, and significant lack of staffing and resources. However, the Workgroup was re-established by the Advisory Council in August 2009 and provided with specific goals to achieve during the next year.

The status of BMPs scheduled for implementation in FY 08/09 are listed in Tables 3.1 – 3.4 and briefly described in this section. Additionally, BMP effectiveness and activities planned for next fiscal year are also described. Please note that some of Public Involvement and Participation BMPs scheduled for implementation in FY 08/09 were intended to be jointly implemented by all three (3) Co-permittees, while others were implemented individually.

PUBLIC INVOLVEMENT AND PARTICIPATION PROGRAM MANAGEMENT

PIP – 1: Public Education, Outreach and Participation Workgroup
**PIP 1b – Conduct PEOP Workgroup Meetings Quarterly**

**BMP Appropriateness** - Appropriate to bring together the various stakeholders involved in public involvement and participation activities for a cohesive effort.

**County of Lake, City of Clearlake and City of Lakeport**

Measurable Goal Results:
- Quarterly meeting schedule and locations were initially set for the 3rd Thursday of the month at 10 - 12 AM rotating amongst municipalities. These meetings were not scheduled or held during FY 08/09.

Problems in Obtaining Measurable Goals – Problems encountered during FY 08/09 include a general malaise among the entities involved as high work loads, attrition, and staffing constraints which make it increasingly difficult to attend quarterly meetings as many of the Workgroup members are also involved with other Workgroups. Meetings held quarterly when combined with all of the Workgroups being attended consumes significant staffing time and further burdens the co-permittees.

**BMP Effectiveness** – Effective when implemented, as the workgroup had developed the informational brochures now being used by the co-permittees.

Proposed Changes to BMPs and Measurable Goals - None.

Activities Planned for Next Year:
- PEOP workgroup meetings will be held on a quarterly basis.

**Table 3.1** Status and effectiveness of Public Involvement and Participation Program Management Best Management Practices (BMPs) scheduled for implementation in Fiscal Year 2008/2009.

<table>
<thead>
<tr>
<th>BMP #</th>
<th>DESCRIPTION</th>
<th>MEASURABLE GOAL</th>
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<tr>
<td>PIP 1b</td>
<td>Conduct PEOP Workgroup meetings quarterly.</td>
<td>PEOP Workgroup meeting summaries and attendees list.</td>
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**PUBLIC ACTIVITIES AND PARTICIPATION**

**PIP – 2: Storm Drain Stenciling**

**PIP 2a– Review and Update Existing Storm Drain Stenciling Program**
County of Lake

**BMP Appropriateness** – Appropriate where applicable. The County MS4 system is predominately road-side ditches with cross culverts for immediate road related drainage issues. Stenciling is more appropriate for curb and gutter systems facilitating ease of stencil placement as has been the case with the two cities, Lakeport and Clearlake.

Few curb and gutter systems are present within the less urbanized areas of the County, therefore the BMP is only applicable where those curb and gutter surfaces exist.

**Measurable Goal Results** - The County initiated research into the storm drain stenciling program, however, until a more complete assessment and inventory of the County MS4 is made this program cannot proceed effectively.

**Problems in Obtaining Measurable Goals** - This BMP can be appropriate in urban clusters and developing areas within the County. Requiring the stenciling of 25% of existing storm drains within the remainder of the permit area annually is judged to be inappropriate and relatively ineffective as these MS4’s are typically comprised of road-side ditches with cross-culverts for road drainage only.

**BMP Effectiveness** - This BMP has not been effective as the stenciling program was not ready to be implemented in FY 08/09.

**Proposed Changes to BMPs and Measurable Goals** - A more detailed MS4 inventory system needs to be devised and completed before any changes can be proposed. The Department of Public Works completed a draft MS4 Outfall map in August 2009, and is developing a stenciling program that could be run by volunteers.

**Activities Planned for Next Year:**
- Refine the draft MS4 mapping.
- Develop a stenciling program that can be run by volunteers.

City of Clearlake

**BMP Appropriateness** - Somewhat appropriate since the City of Clearlake has few storm drains along streets with curbs and gutters. The majority of storm drains inlets and catch basins are located on the City’s three major streets, Old Highway 53, Olympic Drive, and Lakeshore Drive. The City of Clearlake’s local and collector streets are not improved and do not have drop inlets or catch basins. The City of Clearlake has over 50 miles of unimproved streets which have no drop inlets or catch basins. The drainage system consists of roadside ditches and drainage swales.

**Measurable Goal Results** - The City of Clearlake purchased stencils in FY 05-06 and using existing staff stenciled all 100% of the City’s storm drain inlets and catch basins along our major streets. The stencil reads, No dumping flows to Clearlake. The City re-stenciled their storm drain inlets and catch basins in 2008-09. In addition in 2008-09 the City purchased 100 permanent storm drain markers which will be installed in the fall of 2009. The permanent storm drain markers indicate No Dumping – Drains to Lake, and have a picture of a fish. As the City budget allows additional permanent markers will be purchased and installed, which will eliminate the need for re-stenciling.

**Problems in Obtaining Measurable Goals** – The City has not had a problem implementing stenciling of its storm drain inlets and catch basins along its improved major streets. While stenciling is an effective tool for educating the public about not dumping into storm drains at curb inlets, it is not conducive for marking drainage ditches and drainage swales throughout the City, that are not along improved streets. This situation is found all over the City of Clearlake.
BMP Effectiveness – Now that the City has stenciled the storm drain inlets and catch basins along the City’s major streets, the general public will be more aware of where our storm water flows to, and the importance of not polluting our creeks and lake.

Proposed Changes to BMPs and Measurable Goals - In 2008-09 the City purchased 100 permanent storm drain markers which will be installed in the fall of 2009. The permanent storm drain markers indicate No Dumping – Drains to Lake, and have a picture of a fish. As the City budget allows additional permanent markers will be purchased and installed, which will eliminate the need to re-stenciling. In addition the City plans to permanently mark major storm drain channels where they cross major City streets within Clearlake. The signs will indicate the creek or channel name, with the words “Protect our Waterways” on the sign. Due to budget restraints, this will be done in phases. The first phase proposed to be completed in 2009-10 will include the permanent marking of Burns Valley Creek.

Activities Planned for Next Year:
The City has purchased 100 permanent storm drain markers which will be installed in the fall of 2009. The permanent storm drain markers indicate No Dumping – Drains to Lake, and have a picture of a fish. As the City budget allows additional permanent markers will be purchased and installed, which will eliminate the need to re-stenciling. In addition the City plans to permanently mark major storm drain channels where they cross major City streets within Clearlake. The signs will indicate the creek or channel name, with the words “Protect our Waterways” on the sign. Due to budget restraints, this will be done in phases. The first phase proposed to be completed in 2009-10 will include the permanent marking of Burns Valley Creek, Miller Creek, and Molesworth Creek.

City of Lakeport

BMP Appropriateness – Appropriate where applicable. The City of Lakeport MS4 system includes open road-side ditches as well as typical curb inlets.

Measurable Goal Results – City initiated a stencil program in FY 2007/2008 including acquisition of stencil which includes a fish symbol and states “No Dumping- Flows to Clear Lake.”

Problems in Obtaining Measurable Goals – Lack of staff/time that is necessary to establish and manage formal stenciling program.

BMP Effectiveness – Unknown.

Proposed Changes to BMPs and Measurable Goals - None.

Activities Planned for Next Year: Advertise or otherwise promote enhancement of stenciling program with use of volunteer labor.

PIP 2b – Conduct Storm Drain Stenciling

County of Lake

BMP Appropriateness – Appropriate where hard surfaces exist which are conducive to stenciling.

Measurable Goal Results - Behind schedule. MS4 map was needed.

Problems in Obtaining Measurable Goals - Lack of fiscal resources and staffing to accomplish measurable goal.

BMP Effectiveness - Unknown, behind schedule.

Proposed Changes to BMPs and Measurable Goals - None.
Activities Planned for Next Year:

- Work on PIP 2a - Review and Update Existing Storm Drain Stenciling Program;
- Refine the MS4 inventory to reveal attributes applicable to stenciling (hard surfaces) and continue in attempts to conduct storm drain stenciling activities where appropriate, through the use of volunteers.

City of Clearlake

BMP Appropriateness – This BMP is appropriate for those areas of the City where there are improved streets with a formalized drainage system, where the drainage inlets and catch basins can be stenciled.

Measurable Goal Results – Re-stencil as necessary drainage inlets and catch basins along the City’s major improved streets to maintain the readability of the stenciling. The City re-stenciled their storm drain inlets and catch basins in 2008-09. In addition in 2008-09 the City purchased 100 permanent storm drain markers which will be installed in the fall of 2009. The permanent storm drain markers indicate No Dumping – Drains to Lake, and have a picture of a fish. As the City budget allows additional permanent markers will be purchased and installed, which will eliminate the need to re-stenciling.

Problems in Obtaining Measurable Goals – Staffing is always a concern in accomplishing additional work and meeting goals in a small city with limited resources, however the City has completed the re-stenciling of its storm drain inlets and catch basins, and is planning on installing, in phases, permanent storm drain markers as indicated in 2a, and 2b above.

BMP Effectiveness – The stenciling program is effective in making the general public aware of where our storm drains flow to and the importance of not polluting our creeks, streams and Clearlake.

Proposed Changes to BMPs and Measurable Goals – Install permanent storm drain markers at 100 storm drain inlets and catch basin locations within the City of Clearlake. This will improve the visibility of the marking, and eliminate the need to re-stencil.

Activities Planned for Next Year: Install permanent storm drain markers at 100 storm drain inlets and catch basin locations within the City of Clearlake. Re-stenciling of storm drainage inlets and catch basins as necessary to maintain readability of the stenciling.

City of Lakeport

BMP Appropriateness – Appropriate where impervious surfaces exist (i.e. concrete curb or grate boarder) which are applicable to stenciling.

Measurable Goal Results – Approximately 30 storm drains in the downtown area were re-stenciled in FY 2008/09. 30 additional storm drains have been stenciled in FY 2009/2010, and an aggressive schedule to complete stenciling downtown has been implemented with the goal of completion by start of wet weather season. Further stenciling will be completed along South Main Street thereafter, and a new schedule to complete stenciling city-wide will be outlined and implemented before the end of the 2009 calendar year.

Problems in Obtaining Measurable Goals - Fiscal and staffing resources continue to be a challenge, but cooperation between City departments is positive and productive.

BMP Effectiveness - Effective. Anecdotal evidence suggests public awareness for the proper use of storm drains appears to be increasing.

Proposed Changes to BMPs and Measurable Goals - None.

Activities Planned for Next Year: Coordinate volunteer labor and continue the City’s stenciling efforts. Catalog/track stenciled storm drains and annually review condition of stencils. Consider use of blue (water...
themed) parking lot-grade paint for future stenciling efforts. Addition of stenciling information to City’s GIS layer for the storm sewer.

**PIP 2c – Investigate Opportunities for Using Volunteers to Stencil Storm Drains**

**County of Lake**

**BMP Appropriateness** – Appropriate to help reduce fiscal costs of implementation and for education of public with respect to the County Stormwater Program.

**Measurable Goal Results** - Behind schedule. In the future the County will work with youth groups and other volunteers to stencil (paint) the County’s Storm Drain inlets and Catch basins where concrete curbs are present.

**Problems in Obtaining Measurable Goals** - Lack of fiscal resources and staffing to reach volunteers and accomplish the measurable goal.

**BMP Effectiveness** - Unknown, behind schedule.

**Proposed Changes to BMPs and Measurable Goals** - None.

**Activities Planned for Next Year:**
- Continue working on the storm drain stenciling program.
- Seek volunteers from local youth groups, and thru PEOP tasks or through the County web page.

**City of Clearlake**

**BMP Appropriateness** – It would be appropriate to enlist volunteers, such as a Boy Scout group, to help the City install permanent storm drain markers and re-stencil it’s drainage inlets and at the same time provide the awareness to such a volunteer group.

**Measurable Goal Results** – Enlist volunteers to assist the City in its drainage inlet-stenciling program.

**Problems in Obtaining Measurable Goals** – Providing the staff time at the management level to seek volunteers. In addition installing the permanent markers requires some special skills in using power equipment which may make it difficult for groups such as the boy scouts to volunteer for such work.

**BMP Effectiveness** – Effective in providing awareness of the importance of not polluting the City’s streams, drainage channels, and Clearlake.

**Proposed Changes to BMPs and Measurable Goals** – None

**Activities Planned for Next Year:** Investigate the possibility of using volunteers to assist the City in its re-stenciling program. Attempt to use volunteers whenever possible to assist the City in the installation of permanent storm drain markers, and the re-stenciling of storm drain inlets and catch basins.

**City of Lakeport**

**BMP Appropriateness** – Appropriate to help reduce fiscal costs of implementation and for education of public with respect to the County Stormwater Program.

**Measurable Goal Results** – The City was unable to attract similar volunteers during FY 2008/2009 and as a result the stenciling program was not expanded. However, City staff has been assigned to continue the program until a volunteer corp can be assembled to assume responsibility.
Problems in Obtaining Measurable Goals - Lack of interest from the public to volunteer. New approaches are being considered to generate interest by the public, including a revitalization of the City’s volunteer program.

BMP Effectiveness – Effective since stenciling responsibilities have been assumed by City staff.

Proposed Changes to BMPs and Measurable Goals - None.

Activities Planned for Next Year:
- Continue working on the storm drain stenciling program.
- Work with the City’s new Volunteer Coordinator to establish a formal volunteer stencil program.
- Advertise for volunteers on City’s website (www.cityoflakeport.com) and note that stenciling can be an effective service-related project.
- Hold a volunteer drive to drum up interest and support in municipal volunteerism.

PIP – 3: Develop and Support Local Partnerships

PIPE 3a – Coordinate with Local Organizations and Develop Partnerships (as appropriate)

County of Lake, City of Clearlake and City of Lakeport

BMP Appropriateness - Appropriate to coordinate common efforts with other individuals and organizations with common goals.

Measurable Goal Results - Current partnerships have been established between:
- East Lake and West Lake Resource Conservation District
- Lake County Watershed Groups (CRMPs’)

Problems in Obtaining Measurable Goals - None.

BMP Effectiveness – Effective. Cooperative efforts between the CRMPs and County have resulted in significant clean ups of creek corridors.

Proposed Changes to BMPs and Measurable Goals - None.

Activities Planned for Next Year:
- Coordinate with the PEOP workgroup to refine direction for the public education and outreach/public involvement and participation program, between municipalities, before developing additional partnerships with other agencies and organizations.

PIP 3b – Assist in Coordinating Creek Cleanup Events with Local Organizations

County of Lake

BMP Appropriateness - Appropriate. Illegal dumping in creeks is a widespread problem in Lake County and a major concern of many residents.

Measurable Goal Results - The County has been coordinating annual creek clean up events with the East Lake and West Lake Resource Conservation District (RCD) for many years. The RCD coordinates all field activities with active watershed groups in the area. Lake County Public Works (Road Dept.) picks up collected refuse and transports to the closest permitted facility. Lake County Public Services has waived the gate fees for approved community clean up events in past years. In addition, the County has been aggressively cleaning up illegal dump sites through its Code Enforcement Division, removing trash from streams and watersheds through its own abatement programs.
Problems in Obtaining Measurable Goals - No problems in conducting annual creek clean up events. However, due to high work loads with limited funding and staffing within all cooperating partner organizations, formal record keeping is limited.

BMP Effectiveness – Between March and June of 2008 14 illegal dumpsites located within watersheds were cleaned up, coordinated by the Code Enforcement Division. These clean-ups were mistakenly omitted from the FY 07/08 annual report. A total of 167 tons of trash and junk was removed, not counting numerous tires and white iron.

Proposed Changes to BMPs and Measurable Goals - None.

Activities Planned for Next Year:
- Continue the coordination of creek clean up events through the Resource Conservation District (RCD) and the Code Enforcement Division as requested by watershed groups and concerned citizens.

City of Clearlake

BMP Appropriateness – It is appropriate to clean-up illegal dumping and the natural filling of creeks with debris to maintain adequate flood capacity and to reduce the amount of sediment that reaches Clearlake, however the majority of clean-up involves using heavy machinery, backhoes and bulldozers which does not lend itself, from a safety standpoint, of working with private citizens.

Measurable Goal Results - City maintenance crews have performed their annual inspection and cleaning of all creeks, culverts and drop inlets to remove sediment and debris, for flood proofing and to prevent or reduce the amount of sediment that can reach Clearlake. However, organized clean-up events have not been held as of yet.

Problems in Obtaining Measurable Goals - Lack of staffing at the administrative level. The City Engineer is in charge of carrying out much of the Storm Water Management Plan. Currently the City Engineer’s position is filled on an interim part-time basis. No other management staff from the City of Clearlake is available for this task at this time.

BMP Effectiveness - The cleaning of creeks with the city’s maintenance forces is the most effective and safest way to remove illegal dumping and removal of sediment from our drainage channels and creeks to provide flood proofing. The use of citizen volunteer groups for this task in not considered effective by the City of Clearlake.

Proposed Changes to BMPs and Measurable Goals - None

Activities Planned for Next Year:
Due to safety concerns, continue to clean the City’s drainage channels and creeks using City Street maintenance personnel.

City of Lakeport

BMP Appropriateness – Possibly appropriate. Illegal dumping in creeks is a periodic problem in Lakeport but does not appear to be a widespread problem. Very few public complaints are received by the Community Development Department. The City’s Public Works Department responds to complaints related to debris and trash in some of the City’s creeks.

Measurable Goal Results – City has procured a volunteer coordinator to re-establish a volunteer program. A volunteer drive is anticipated later this fiscal year. Partnering with local businesses and non-profit organizations for local creek clean-up days will be a priority for the new volunteer corp.
Problems in Obtaining Measurable Goals - City’s Compliance Officer has reinvigorated efforts to establish and maintain positive working relationships with outside agencies; however, available resources at his disposal remain limited.

BMP Effectiveness – Ineffective in FY 2008/2009. Program is currently being revised with assistance from new volunteer coordinator.

Proposed Changes to BMPs and Measurable Goals - City continues to work to establish partnerships with the community-based organizations and local businesses.

Activities Planned for Next Year:
- New volunteer coordinator will reach out to local environmental organizations such as the West Lake Resource Conservation District to try to establish an annual creek clean up event.
- Volunteer drive to establish corp group to move clean-up efforts forward
- Continue forming partnerships with local businesses to provide promotional resources and possible financial resources aimed at creek clean-up

**PIP 3c – Support Adopt-a-Creek Programs**

**County of Lake, City of Clearlake and City of Lakeport**

BMP Appropriateness - This has been determined to be no longer appropriate or necessary. PIP 3b has proven to be effective, and considerable constraints exist regarding private property and access issues.

Measurable Goal Results - The issue has been discussed in the previous fiscal year among the PEOP workgroup participants. The primary constraint is that private property and access issues may make this program component difficult to implement. Creek clean up events hosted by volunteer groups, primarily CRMP serve the same purpose with measurable results.

Problems in Obtaining Measurable Goals - Lack of fiscal resources and access to private property by volunteers. Changing priorities between the co-permittees provides considerable obstacles to accomplishing the program tasks.

BMP Effectiveness - Not effective or practical. Replace with PIP 3b

Proposed Changes to BMPs and Measurable Goals - Replace with PIP 3b and continue to work with CRMP’s and Support Code Enforcement clean up efforts in watersheds.

Activities Planned for Next Year:
- This BMP has redundancy with respect to the CRMP and Code Enforcement creek cleanup events which are on-going and successful.

**Table 3.2** Status and effectiveness of Public Activities and Participation Best Management Practices (BMPs) scheduled for implementation in Fiscal Year 2008/2009.

<table>
<thead>
<tr>
<th>BMP #</th>
<th>DESCRIPTION</th>
<th>MEASURABLE GOAL</th>
<th>CO-PERMITTEES</th>
<th>STATUS</th>
<th>EFFECTIVE</th>
<th>MODIFIED</th>
</tr>
</thead>
<tbody>
<tr>
<td>PIP 2a</td>
<td>Review and update existing storm drain</td>
<td>Current stenciling program reviewed</td>
<td>County of Lake</td>
<td>X</td>
<td>X</td>
<td>Yes</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>City of</td>
<td>X</td>
<td>X</td>
<td>No</td>
</tr>
</tbody>
</table>
## Public Involvement and Participation

### PIP 2b

<table>
<thead>
<tr>
<th>Conduct storm drain stenciling.</th>
<th>Stencil 25% of existing storm drains.</th>
<th>County of Lakeport</th>
<th>County of Lake</th>
<th>City of Clearlake</th>
<th>City of Lakeport</th>
</tr>
</thead>
<tbody>
<tr>
<td>Clearlake</td>
<td></td>
<td>X</td>
<td>X</td>
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<td>X</td>
</tr>
</tbody>
</table>

### PIP 2c

<table>
<thead>
<tr>
<th>Investigate opportunities for using volunteers to stencil storm drains.</th>
<th>Using volunteers to stencil storm drains discussed at PEOP workgroup meeting and / or with volunteers. Implemented as appropriate.</th>
<th>County of Lakeport</th>
<th>County of Lake</th>
<th>City of Clearlake</th>
<th>City of Lakeport</th>
</tr>
</thead>
<tbody>
<tr>
<td>Clearlake</td>
<td></td>
<td>X</td>
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<td>X</td>
<td>X</td>
</tr>
</tbody>
</table>

### PIP 3a

<table>
<thead>
<tr>
<th>Coordinate with local organizations and develop partnerships (as appropriate).</th>
<th>Discuss coordination with local organizations and collaborate as appropriate.</th>
<th>County of Lakeport</th>
<th>County of Lake</th>
<th>City of Clearlake</th>
<th>City of Lakeport</th>
</tr>
</thead>
<tbody>
<tr>
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<td></td>
<td>X</td>
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</tbody>
</table>

### PIP 3b

<table>
<thead>
<tr>
<th>Assist in coordinating creek clean up events with local organizations.</th>
<th>Number of creek clean up events conducted.</th>
<th>County of Lakeport</th>
<th>County of Lake</th>
<th>City of Clearlake</th>
<th>City of Lakeport</th>
</tr>
</thead>
<tbody>
<tr>
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<td></td>
<td>X</td>
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<td>X</td>
</tr>
</tbody>
</table>

### PIP 3c

<table>
<thead>
<tr>
<th>Support adopts-a-creek programs.</th>
<th>The primary constraint is that private property and access issues may make this program component difficult to implement. Creek clean up events hosted by volunteer groups, primarily CRMP serve the same purpose with measurable results</th>
<th>County of Lakeport</th>
<th>County of Lake</th>
<th>City of Clearlake</th>
<th>City of Lakeport</th>
</tr>
</thead>
<tbody>
<tr>
<td>Clearlake</td>
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</tr>
</tbody>
</table>

### PUBLIC INPUT AND INVOLVEMENT

**PIP – 4: Public Notice SWMP and Receive Public Input**

**PIP 4b – Develop and Facilitate Advisory Council Meetings to Receive and Record Public Input**
County of Lake, City of Clearlake and City of Lakeport

BMP Appropriateness - Appropriate, to receive public input for a program that affects the public to help guide through program changes which reflect the public involvement.

Measurable Goal Status - Although there were no Advisory Council meetings in FY 08-09, the process for providing opportunities for public involvement has been updated and integrated into the meeting procedures. The County Stormwater Website has also been updated to include meeting agendas. These changes were evident when the Advisory Council re-started meetings in July 2009, and two members of the public attended. The Lake County Clean Water Program Advisory Council solicits public participation at its meetings. These meetings are open to the public and meeting announcements and agendas are posted at the County Courthouse, the City Halls of Lakeport and Clearlake, and on the County web site.

Measurable Goal Results – County website redesigned and includes meeting agendas and minutes. Agendas posted in appropriate locations at Courthouse and both City Halls, consistent with legal noticing requirements of the State of California.

Problems in Obtaining Measurable Goals – None.

BMP Effectiveness – Effective. Members of public have attended latest meetings.

Proposed Changes to BMPs and Measurable Goals - None.

Activities Planned for Next Year:
- Continue with scheduled quarterly meetings and special meetings as required.
- Continue to publish up-coming meetings and Agenda on the Clean Water Program Web page.

PIP-5: Stormwater Telephone Hotline

PIP 5a – Develop and Implement Hotline for Public Comments/Concerns

County of Lake, City of Clearlake and City of Lakeport

BMP Appropriateness - Appropriate to have a mechanism where the public can express concerns, ask questions, report illegal dumping and report water quality violations.

Measurable Goal Results - A formal hotline for the stormwater program has been developed. The Lake County Clean Water Program is using A dedicated phone number (707-263-2309) for the hotline, maintained by the Community Development Department for the County of Lake. In addition, the front desk lines for the Cities of Clearlake and Lakeport are being maintained. The hotline number can be used by anyone, and for problems reported on the hotline that are located within either city, the Community Development Department contacts the appropriate City staff and forwards all the information.

Problems in Obtaining Measurable Goals – None.

BMP Effectiveness – Effective. The hotline is operational and calls have been received. The hotline number is listed in brochures and the County Clean Water Program website, in addition to the Building and Safety Division’s main number.

Proposed Changes to BMPs and Measurable Goals – None.

Activities Planned for Next Year:
- Maintain hotline.

PIP 5b – Include Hotline Numbers on Co-permittees Public Education and Outreach Materials and Websites
**County of Lake, City of Clearlake and City of Lakeport**

**BMP Appropriateness** - Appropriate to advertise the stormwater hotline so it will get used.

**Measurable Goal Results** - Complete. The "hotline" number through County Community Development Department is currently listed on the County Stormwater Program web page. Education and outreach materials which have been produced this reporting period also include the co-permitees “hotline” numbers.

**Problems in Obtaining Measurable Goals** – None.

**BMP Effectiveness** - Effective. The hotline is operational and calls have been received. The hotline number is listed in brochures and the County Clean Water Program website, in addition to the Building and Safety Division’s main number.

**Proposed Changes to BMPs and Measurable Goals** - None.

**Activities Planned for Next Year:**
- Increase public awareness for the Stormwater Program “hotline” by increased distribution of brochures and flyers.

**PIP-6: Public Attitude Surveys**

**PIP 6a – Develop and Conduct General Public Attitude Survey**

**County of Lake, City of Clearlake and City of Lakeport**

**BMP Appropriateness** - Appropriate to have a mechanism whereby the public viewpoint can be monitored.

**Measurable Goal Results** - Behind schedule. No formal mechanism has been developed to assess the public attitude towards the Lake County Clean Water Program. City of Lakeport has taken responsibility to design and distribute a survey, which will be available electronically on county and city websites. City of Lakeport is also working to establish a computer kiosk at its city hall to provide internet and computer access to residents who otherwise don’t have access.

**Problems in Obtaining Measurable Goals** - Lack of fiscal resources and staffing to complete program tasks. Allocation of limited staff resources has been more effective in updating website, maintaining hotline, and aggressively addressing grading violations.

**BMP Effectiveness** - Unknown. No public feedback mechanism is in-place. New survey will be completed by the end of the calendar year.

**Proposed Changes to BMPs and Measurable Goals** - None.

**Activities Planned for Next Year:**
- Develop an on-line survey and post to the Clean Water Program web page.

**Table 3.3** Status and effectiveness of Public Input and Involvement Best Management Practices (BMPs) scheduled for implementation in Fiscal Year 2008/2009.
### Section 3  
Public Involvement and Participation

<table>
<thead>
<tr>
<th>BMP #</th>
<th>DESCRIPTION</th>
<th>MEASURABLE GOAL</th>
<th>CO-PERMITTEES</th>
<th>STATUS</th>
<th>EFFECTIVE</th>
<th>MODIFIED</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td>County of Lake</td>
<td>Complete</td>
<td>Unknown</td>
<td>No</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>City of Clearlake</td>
<td>Incomplete</td>
<td>Effective</td>
<td>Yes</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>City of Lakeport</td>
<td>Ongoing</td>
<td>Not Effective</td>
<td>No</td>
</tr>
<tr>
<td>PIP 4b</td>
<td>Develop and facilitate Advisory Council meetings to receive and record public input.</td>
<td>Public input recorded in quarterly meeting summaries.</td>
<td>County of Lake</td>
<td>Complete</td>
<td>Unknown</td>
<td>No</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>City of Clearlake</td>
<td>Incomplete</td>
<td>Effective</td>
<td>Yes</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>City of Lakeport</td>
<td>Ongoing</td>
<td>Not Effective</td>
<td>No</td>
</tr>
<tr>
<td>PIP 5a</td>
<td>Develop and implement hotline for public comments / concerns.</td>
<td>Hotline developed and implemented.</td>
<td>County of Lake</td>
<td>Complete</td>
<td>Unknown</td>
<td>No</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>City of Clearlake</td>
<td>Incomplete</td>
<td>Effective</td>
<td>Yes</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>City of Lakeport</td>
<td>Ongoing</td>
<td>Not Effective</td>
<td>No</td>
</tr>
<tr>
<td>PIP 5b</td>
<td>Include hotline number on Co-permittee public education and outreach material and websites.</td>
<td>Hotline number advertised on Co-permittee websites and education and outreach materials</td>
<td>County of Lake</td>
<td>Complete</td>
<td>Unknown</td>
<td>No</td>
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<tr>
<td></td>
<td></td>
<td></td>
<td>City of Clearlake</td>
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<td>Effective</td>
<td>Yes</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>City of Lakeport</td>
<td>Ongoing</td>
<td>Not Effective</td>
<td>No</td>
</tr>
<tr>
<td>PIP 6a</td>
<td>Develop and conduct general public attitude survey.</td>
<td>Develop an on-line survey and post to the Clean Water Program</td>
<td>County of Lake</td>
<td>Complete</td>
<td>Unknown</td>
<td>No</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>City of Clearlake</td>
<td>Incomplete</td>
<td>Effective</td>
<td>Yes</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>City of Lakeport</td>
<td>Ongoing</td>
<td>Not Effective</td>
<td>No</td>
</tr>
</tbody>
</table>

### TRACKING AND REPORTING

**PIP – 7: PIP Tracking and Reporting**

**PIP 7b – Develop a Tracking System to Annually Track Stenciled Storm Drains**

**County of Lake**

**BMP Appropriateness** - Appropriate to track storm drain stenciling to assess what has been completed and what remains for public involvement and participation efforts.

**Measurable Goal Results** – Incomplete.

**Problems in Obtaining Measurable Goals** - Lack of fiscal resources and staffing to complete program tasks. Delays largely a result of MS4 Map not being completed. A draft MS4 Map was completed in August 2009 and is being refined.

**BMP Effectiveness** – Unknown, as not yet implemented.

---

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3-13
Proposed Changes to BMPs and Measurable Goals - None.

Activities Planned for Next Year:
- Complete the development of a tracking system to annually track stenciled storm drains once MS4 Map refinement is completed.
- Modify to show features which lend themselves to stenciling; i.e. hard surfaces such as curb, gutter, or concrete abutments/wing-walls

City of Clearlake

BMP Appropriateness
Not appropriate. The city does not need to track its annual stenciling program. As the storm drain inlets and catch basins are cleaned annually, the stenciling of our inlets will be checked annually and re-painted as necessary to maintain readability. In addition starting 2009-10 the City will be installing permanent storm drain markers on its inlets and catch basins. Once permanent markings are installed monitoring and tracking will not be needed.

Measurable Goal Results – None

Problems in Obtaining Measurable Goals – None

BMP Effectiveness – Not needed, and therefore not effective.

Proposed Changes to BMPs and Measurable Goals – None

Activities Planned for Next Year: None, a tracking of our stenciling program is not required. Our stenciling program will be monitored annually as we clean our drainage inlets and catch basins. In addition starting 2009-10 the City will be installing permanent storm drain markers on its inlets and catch basins. Once permanent markings are installed monitoring and tracking will not be needed.

City of Lakeport

BMP Appropriateness - Appropriate to track storm drain stenciling to assess what has been completed and what remains for public involvement and volunteer efforts. Tracking is also necessary to streamline maintenance of existing stenciled storm drains.

Measurable Goal Results – Complete.

Problems in Obtaining Measurable Goals - None. City GIS manager maintains storm water system layer and works closely with Community Development Department to ensure it is updated regularly.

BMP Effectiveness - Effective.

Proposed Changes to BMPs and Measurable Goals - None.

Activities Planned for Next Year:
- Survey downtown area to verify which storm drains have been stenciled. Compile data into database which can be integrated into the City’s GIS system. Maintain tracking system to annually inspect stenciled storm drains.

PIP 7c Implement Tracking System to Annually Track Stenciled Storm Drains

County of Lake

BMP Appropriateness - Appropriate to track storm drain stenciling as a measure of program completeness and to assess public awareness of the program.
Measurable Goal Results – Incomplete.

Problems in Obtaining Measurable Goals - Lack of fiscal resources and staffing to implement the program tasks. Inventory of storm drains incomplete or lacking critical information therefore, implementation of a tracking system has not been initiated. MS4 map has been drafted and is being refined.

BMP Effectiveness - Unknown.

Proposed Changes to BMPs and Measurable Goals - None.

Activities Planned for Next Year:
Complete MS4 Map so that stenciling program can be completed and implemented. Develop tracking system with feature classes which reveal suitability for stenciling then can begin to implement the stenciling program.

City of Clearlake

BMP Appropriateness – Not appropriate

Measurable Goal Results – None

Problems in Obtaining Measurable Goals – None

BMP Effectiveness – Not required, therefore not effective.

Proposed Changes to BMPs and Measurable Goals – None

Activities Planned for Next Year - None

City of Lakeport

BMP Appropriateness - Appropriate to track storm drain stenciling as a measure of program completeness and to assess public awareness of the program.

Measurable Goal Results – Complete.

Problems in Obtaining Measurable Goals - Funding for the program remains a constant issue with the City Council; however, staff has been successful in justifying the need and reasons to maintain the program.

BMP Effectiveness - Effective

Proposed Changes to BMPs and Measurable Goals - None.

Activities Planned for Next Year - See response to 7b.

PIP 7d – Revise and Implement Current Tracking and Reporting Procedures for the Public Involvement and Participation Program

County of Lake, City of Clearlake and City of Lakeport

BMP Appropriateness - Appropriate to revise existing tracking and reporting procedures so that information tracked is useful in determining the effectiveness of measures implemented and aids in the annual reporting process.

Measurable Goal Results - Modified Lake County Clean Water Program web page to use a “counter” to track the number of “hits”, now stands at 2022 hits. Clean Water Advisory Council meeting agendas are
posted to website and in conspicuous locations at Courthouse and City Halls. Members of the public are attending meetings. Clean Water Program Hotline is operational and 10 to 20 calls are received annually (not including calls to main County Building and Safety Division number).

Problems in Obtaining Measurable Goals – None.

**BMP Effectiveness** - Effective. Public participation reflected in Council meeting minutes and website counter.

Proposed Changes to BMPs and Measurable Goals - None.

Activities Planned for Next Year:
- Maintain website
- Continue to make meeting agendas available to public in advance of Advisory Council meetings.

**Table 3.4** Status and effectiveness of PIP Tracing and Reporting Best Management Practices (BMPs) scheduled for implementation in Fiscal Year 2008/2009.

<table>
<thead>
<tr>
<th>BMP #</th>
<th>DESCRIPTION</th>
<th>MEASURABLE GOAL</th>
<th>CO-PERMITTEES</th>
<th>STATUS</th>
<th>EFFECTIVE</th>
<th>MODIFIED</th>
</tr>
</thead>
<tbody>
<tr>
<td>PIP 7a</td>
<td>Conduct an assessment of current tracking and reporting procedures.</td>
<td>Assessment complete.</td>
<td>County of Lake</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>City of Clearlake</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>City of Lakeport</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>PIP 7b</td>
<td>Develop tracking system to annually track stenciled drains.</td>
<td>Develop tracking system</td>
<td>County of Lake</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td></td>
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<td>City of Clearlake</td>
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<td>City of Lakeport</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>PIP 7c</td>
<td>Implement tracking system to annually track stenciled drains</td>
<td>Implement tracking system</td>
<td>County of Lake</td>
<td>X</td>
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<td>X</td>
</tr>
<tr>
<td>PIP 7d</td>
<td>Revise and implement current tracking and reporting procedures.</td>
<td>Tracking and reporting procedures revised and implemented.</td>
<td>County of Lake</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
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<td></td>
<td>City of Lakeport</td>
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</tr>
</tbody>
</table>
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 stateside 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-permitees 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 or equal to one acre. To comply with the construction site storm water runoff control requirement, the Program is developing and implementing a Construction site Runoff Control (CON) Program.

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.

---

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.
FY 08/09 BMP STATUS AND ACCOMPLISHMENTS

GENERAL SUMMARY

The status of BMPs scheduled for implementation in FY 08/09 are listed in Tables 4.1-4.4 and briefly described in this section. Additionally, BMP effectiveness and activities planned for next fiscal year are also described.

CONSTRUCTION SITE STORMWATER RUNOFF CONTROL PROGRAM MANAGEMENT

CON-1: Construction and Post Construction Runoff Control (CON) Workgroup

CON 1b – Conduct CON Workgroup Meetings Quarterly

BMP Appropriateness – This BMP is appropriate for facilitating discussion among those parties involved in the construction plan review and inspection process. The CON tasks are a high priority due to the development pressures on the County during this reporting period.

County of Lake, City of Clearlake and City of Lakeport

Measurable Goal Status - On going. The CON Working Group has not maintained the quarterly meeting schedule for this reporting period. Given the prioritization of the CON and PCON program elements, regularly scheduled Workgroup meetings should continue.

Measurable Goal Results
Quarterly meetings have been difficult to maintain, but efforts to continue those meetings have been reinvigorated.

Problems in Obtaining Measurable Goals – Overcoming a lack of resources and staff time continues to be a persistent challenge.

BMP Effectiveness – Effective in the past when regular meetings were adhered to, in that the Workgroup reviewed draft ordinances, developed checklists and brochures.

Proposed Changes to BMPs and Measurable Goals - None.

Activities Planned for Next Year - Continue meeting quarterly to further develop CON & PCON procedures.

CON-2: Ordinance, Authority and Program Structure Review, Preparation and Adoption

CON 2b – Begin CON Ordinance (or equivalent) preparation or begin revising existing ordinance (e.g., grading ordinance) to gain required authority

Measurable Goal Status – Complete. An equivalent ordinance has been adopted by the Lake County Board of Supervisors. The County grading ordinance was adopted by the Board of Supervisors in 2007.

BMP Appropriateness - Appropriate to have an ordinance or other mechanism to gain the required legal authority to implement this program.
County of Lake

Measurable Goal Results – Complete; An equivalent ordinance (Storm Water Management Ordinance 2772) was adopted on May 16, 2006. The Grading Ordinance was adopted on July 16, 2007 by the Board of Supervisors.

Problems in Obtaining Measurable Goals – None.

BMP Effectiveness – Effective

Proposed Changes to BMPs and Measurable Goals – None.

Activities Planned for Next Year – Continue to enforce ordinances.

City of Clearlake


Problems in Obtaining Measurable Goals - None.

BMP Effectiveness – Adoption of a Stormwater ordinance by the City of Clearlake is effective tool as a part of Clearlake’s overall Clean Water Program.

Proposed Changes to BMPs and Measurable Goals – None

Activities Planned for Next Year - None.

City of Lakeport

Measurable Goal Results – Complete. An equivalent ordinance (Storm Water Management Ordinance No. 853) was adopted by the City of Lakeport in June 2006. Said Ordinance has been incorporated into the Lakeport Municipal Code at Chapter 8.40.

Problems in Obtaining Measurable Goals – None.

BMP Effectiveness – Effective

Proposed Changes to BMPs and Measurable Goals – None.

Activities Planned for Next Year – None.

CON 2c – Adopt CON Ordinance (or equivalent) prepare or revise existing ordinance to gain required authority

Measurable Goal Status – Complete. The Storm Water Management Ordinance (2772) has been adopted by the County; The City of Clearlake has adopted an Ordinance adding Chapter 14.0 to the Clearlake Municipal Code regarding Storm Water Management; the City of Lakeport has adopted Ordinance No. 853 adding Chapter 8.40 to the Lakeport Municipal Code regarding Storm Water Management.

BMP Appropriateness - Appropriate to have an ordinance or other mechanism to gain the required legal authority to implement and enforce this program.
County of Lake

Measurable Goal Results – Complete. The Lake County Storm Water Management Ordinance No. 2772, adding Chapter 29 to the Lake County Code regarding Storm Water Management, was adopted during the FY 05/06 reporting period.

Problems in Obtaining Measurable Goals – None.

BMP Effectiveness – Effective

Proposed Changes to BMPs and Measurable Goals – None.

Activities Planned for Next Year – Continue to monitor construction sites and enforce existing ordinances.

City of Clearlake

Measurable Goal Results

Problems in Obtaining Measurable Goals -None

BMP Effectiveness – Adoption of the City’s Stormwater ordinance will provide an excellent tool in implementing Clearlake’s Clean Water Program.

Proposed Changes to BMPs and Measurable Goals –None

Activities Planned for Next Year -None

City of Lakeport


Problems in Obtaining Measurable Goals – None.

BMP Effectiveness – Effective

Proposed Changes to BMPs and Measurable Goals – None.

Activities Planned for Next Year – None.

CON-3: Sediment and Erosion Control BMPs

CON 3b – Revise Sediment and Erosion Control BMP Materials as Appropriate

BMP Appropriateness - Appropriate to revise materials as needed to keep current with technology and regulatory guidelines/constraints.

County of Lake, City of Clearlake and City of Lakeport

Measurable Goal Results – Complete. Ongoing; Lake County & City staff have prepared several new brochures addressing the overall Stormwater Program; Minimum Erosion Control Measures for Single Family Home Construction to address in-fill sites less than 1 acre of ground disturbance; Concrete Waste and Clean Up brochure addressing the need to educate public and contractors about the need for
containing concrete wastes. These brochures have been made available to all co-permittees for use and distribution.

Problems in Obtaining Measurable Goals – None.

BMP Effectiveness – Effective.

Proposed Changes to BMPs and Measurable Goals - None.

Activities Planned for Next Year - Evaluate existing materials for potential updates and revisions.

**CON 3c – Make BMP Information Available to Developers, Construction Site Staff and the General Public**

BMP Appropriateness - Appropriate. If information is not made available to developers, construction site operators and the general public, those individuals and entities cannot be informed about the Storm Water Management Program, the need for a SWPPP, and the implications for non-compliance.

**County of Lake, City of Clearlake and City of Lakeport**

Measurable Goal Results – Complete. Ongoing.

BMP information for developers, construction site staff and the general public is readily available at front desk counters without asking. Accessing BMP information which may be project specific, the interested party (ies) are being directed to the Lake County Clean Water Program web site and to the CASQA web site as the CASQA BMP Handbooks have been adopted by the City of Clearlake and the City of Lakeport and is proposed for adoption by the County Board of Supervisors.

Problems in Obtaining Measurable Goals – None.

BMP Effectiveness - Effective. The BMP material made available has resulted in some feedback from staff and the general public indicating it is well received.

Proposed Changes to BMPs and Measurable Goals - None.

Activities Planned for Next Year - Continue making BMP information available to developers, construction site operators and the general public through handouts, the Lake County web page, and through Public Education and Outreach programs.

**Table 4.1** Status of construction site stormwater runoff control program management BMPs for each Lake County Clean Water Program Co-permittee scheduled for implementation in Fiscal Year 2008/2009.

<table>
<thead>
<tr>
<th>BMP #</th>
<th>DESCRIPTION</th>
<th>MEASURABLE GOAL</th>
<th>CO-PERMITTEES</th>
<th>STATUS</th>
<th>EFFECTIVE</th>
<th>MODIFIED</th>
</tr>
</thead>
<tbody>
<tr>
<td>CON 1b</td>
<td>Conduct CON Workgroup meetings quarterly.</td>
<td>CON Workgroup meeting summaries and attendees list.</td>
<td>County of Lake</td>
<td>Complete</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>City of Clearlake</td>
<td>Complete</td>
<td>X</td>
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</tbody>
</table>
## Section 4  Construction Site Stormwater Runoff Controls

**FY 08-09 Annual Report 4-6 September 15, 2009**

### Status

<table>
<thead>
<tr>
<th>BMP #</th>
<th>DESCRIPTION</th>
<th>MEASURABLE GOAL</th>
<th>CO-PERMITTEES</th>
<th>STATUS</th>
<th>EFFECTIVE</th>
<th>MODIFIED</th>
</tr>
</thead>
<tbody>
<tr>
<td>CON</td>
<td>Begin CON ordinance (or equivalent) preparation or begin revising existing ordinance (e.g. grading ordinance) to gain required authority.</td>
<td>CON ordinance preparation complete.</td>
<td>City of Lakeport</td>
<td>Complete</td>
<td>Incomplete</td>
<td>Ongoing</td>
</tr>
<tr>
<td>CON 2b</td>
<td>County of Lake</td>
<td>X</td>
<td>X</td>
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<tr>
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<td>X</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>City of Lakeport</td>
<td>X</td>
<td>X</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>CON</td>
<td>Adopt CON ordinance (or equivalent) or revise existing ordinance to gain required authority.</td>
<td>COC ordinance adopted or existing ordinance revised.</td>
<td>County of Lake</td>
<td>Complete</td>
<td>Incomplete</td>
<td>Ongoing</td>
</tr>
<tr>
<td>CON 2c</td>
<td>City of Clearlake</td>
<td>X</td>
<td>X</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>City of Lakeport</td>
<td>X</td>
<td>X</td>
<td></td>
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<td></td>
</tr>
<tr>
<td>CON</td>
<td>Revise sediment and erosion control BMP material as appropriate.</td>
<td>Existing information revised.</td>
<td>County of Lake</td>
<td>Complete</td>
<td>Incomplete</td>
<td>Ongoing</td>
</tr>
<tr>
<td>CON 3b</td>
<td>City of Clearlake</td>
<td>X</td>
<td>X</td>
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<tr>
<td></td>
<td>City of Lakeport</td>
<td>X</td>
<td>X</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>CON</td>
<td>Make BMP information available to developers, construction site staff and the general public.</td>
<td>Materials made available via agency counters and links on County website.</td>
<td>County of Lake</td>
<td>Complete</td>
<td>Incomplete</td>
<td>Ongoing</td>
</tr>
<tr>
<td>CON 3c</td>
<td>City of Clearlake</td>
<td>X</td>
<td>X</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>City of Lakeport</td>
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</tbody>
</table>

### Procedure Development and Training

**CON-4: Plan Review and Inspection Procedures and CON Program Funding**

**CON 4a – Compile and Review Information on Existing Plan Review and Site Inspection Procedures and Fee Structures**

**County of Lake**

**Measurable Goal Results** – Complete-Ongoing. Continue to review and update information on existing grading plan review and site inspection procedures with respect to slopes and drainage BMPs and soil stabilization.

**Problems in Obtaining Measurable Goals** – None.

**BMP Effectiveness** – Effective.
Proposed Changes to BMPs and Measurable Goals - None.

Activities Planned for Next Year - Review existing plan review and site inspection procedures and pursue a construction permit fee surcharge ordinance.

City of Clearlake

Measurable Goal Results - Lack of fiscal resources and City administrative staff have delayed this program task. The City reviewed and revised all its planning fees in 2005-06 and adjusted the fees to bring them in line with current staff costs. A new City Administrator was recruited and hired by the City of Clearlake in 2007. The new City Administrator reviewed all building fees in 2007-08, and made changes where appropriate to conform to state and local government laws. No additional review or changes were made to the City’s building fees in 2008-09. The City Engineer continues to provide in-house training of the City’s two building inspectors on the implementation of BMP’s for all new building construction, grading permits, and public works construction to meet City Standards.

Problems in Obtaining Measurable Goals - Lack of fiscal resources and administrative staff has impeded the City in meeting this goal, however the City of Clearlake is constantly working to improve planning and inspection procedures to make sure appropriate BMPs are being required, installed and maintained by new development within the City to meet the requirements of our Storm Water Management Plan.

BMP Effectiveness – The ongoing review and improvement of the City’s planning and inspection procedures are effective in meeting the goals of Lake County’s Storm Water Plan.

Proposed Changes to BMPs and Measurable Goals – None, continue the City’s ongoing review of our planning and inspection procedures,

Activities Planned for Next Year – Continue the City’s ongoing review and improvements of the City’s planning and inspection review process. In addition the City of Clearlake will work in coordination with Lake County and the City of Lakeport to maintain and improve training capabilities. One option may be the use of webinars on Storm Drain Management Programs.

City of Lakeport

BMP Appropriateness - Appropriate. Plan review and site inspection activities must take the goals and policies of the Storm Water Management Program into account.

Measurable Goal Results – Complete-Ongoing. Storm water impacts are addressed in conjunction with plan review/plan check activities.

Problems in Obtaining Measurable Goals – None.

BMP Effectiveness - Effective.

Proposed Changes to BMPs and Measurable Goals - None.

Activities Planned for Next Year – Continue to utilize storm water-related checklist when conducting plan reviews and site inspections. Prepare a report summarizing existing plan review and site inspection procedures and fee structures.

CON 4b – Revise Existing Plan Review and Site Inspection Procedures and Fee Structures (as appropriate)
County of Lake

Measurable Goal Results – Complete, Ongoing. Continue reviewing existing plan review procedures and seek approval by the Board of Supervisors for a fee ordinance amendment to add a stormwater surcharge to new construction.

Problems in Obtaining Measurable Goals – Delays due to funding constraints and layoffs within the Building and Safety Division.

BMP Effectiveness - Effective.

Proposed Changes to BMPs and Measurable Goals - None.

Activities Planned for Next Year – Revise as necessary plan review and site inspection procedures.

City of Clearlake

Measurable Goal Results – The new City Administrator has reviewed all building fees in 2007-08, and made changes where appropriate to conform to state and local government laws. No additional changes have occurred since then. The City Engineer continues to provide in-house training of the City’s building inspector and permit technician on the implementation of BMP’s for all new building construction, grading permits, and public works construction to meet City Standards.

Problems in Obtaining Measurable Goals – The City Engineer continues to provide in house training to the City’s building inspector and permit technician as outlines in section 4a. Review of planning procedures and requirements is ongoing.

BMP Effectiveness – Improvements in the City’s Planning review and construction inspection procedures aid the City in the implementation of the Lake County Storm Water Management Plan.

Proposed Changes to BMPs and Measurable Goals – None

Activities Planned for Next Year – The City will continue its ongoing review of planning and inspection procedures and where appropriate make the necessary revisions to the City’s procedures.

City of Lakeport

BMP Appropriateness - Possibly appropriate. Storm water issues are regularly considered during plan reviews by Planning and Building staff members. City of Lakeport employs only one building inspector and he is well-trained in the implementation of storm water facilities and BMPs at construction sites. Larger projects are subject to CEQA and City-produced environmental review documents address storm water issues and incorporate mitigation measures when necessary. Implementation of fee structure for cost recovery may be necessary.

Measurable Goal Status – Ongoing. Fee structures have been revised and implemented.

Measurable Goal Results – Ongoing.

Problems in Obtaining Measurable Goals – None; however, City continues to evaluate how to implement this BMP.

BMP Effectiveness – Our efforts are relatively effective based on the low number of storm water-related complaints/problems logged by the Community Development Department.

Proposed Changes to BMPs and Measurable Goals - None.
Activities Planned for Next Year – None; however, City staff will revise existing plan review and site inspection procedures if necessary. If determined to be necessary, the City will consider the adoption of construction-related storm water program fees that can aid in recovery of costs related to inspection/enforcement efforts.

**CON 4c – Implement Plan Review and Site Inspection Procedures and Revised Fee Schedule**

**County of Lake**

Measurable Goal Results – Completed, ongoing. Plan review and site inspection procedures have been updated based upon CON 4a & 4b. Revisions to these review and inspection procedures are ongoing. County has hired a Grading and Stormwater Inspector.

Problems in Obtaining Measurable Goals - None.

BMP Effectiveness - Effective. Plan review and site inspection procedures have been updated and implemented.

Proposed Changes to BMPs and Measurable Goals - None.

Activities Planned for Next Year - Continue to streamline plan review and inspection processes for grading and stormwater issues.

**City of Clearlake**

Measurable Goal Results – Complete. See section 4a, & 4b.

Problems in Obtaining Measurable Goals – Lack of fiscal resources and manpower has impeded the City in working on this program goal, however the City will continue to assess its planning and inspection procedures and make improvements and make changes as appropriate.

BMP Effectiveness –
On going improvements in the City’s Planning review and construction inspection procedures will improve implementation of the Lake County Storm Water Management Plan.

Proposed Changes to BMPs and Measurable Goals – None

Activities Planned for Next Year – Continue the Cities on going program.

**City of Lakeport**

Measurable Goal Results – Ongoing. The City of Lakeport adopted new (higher) fees for Building and Planning applications. The majority of these fees are now tied to the Consumer Price Index and may be increased annually consistent with the increase in the CPI.

Problems in Obtaining Measurable Goals – None

BMP Effectiveness - The low number of storm water-related complaints/problems logged by the Community Development Department during FY 2007-2008 would indicate that the City’s current efforts are effective.

Proposed Changes to BMPs and Measurable Goals - None.

Activities Planned for Next Year – Continue existing procedures and protocols.
CON-5: Site Inspectors and Plan Reviewer Training

CON 5b – Revise Training Program for Site Inspectors and Plan Reviewers and Develop Training Manual

BMP Appropriateness - Appropriate to have a training program for site inspectors and plan reviewers and an associated training manual so that municipal staff is aware of current regulations and technologies and understand the responsibilities and interactions of all departments involved in the plan review and inspection process.

County of Lake, City of Clearlake and City of Lakeport

Measurable Goal Results – Incomplete. A training program for site inspectors and plan reviewers to be developed winter 2009.

Problems in Obtaining Measurable Goals - Lack of fiscal resources and manpower to accomplish program tasks, including layoffs within County Building and Safety Division, are slowing progress.

BMP Effectiveness - Unknown.

Proposed Changes to BMPs and Measurable Goals - None.

Activities Planned for Next Year - Continue developing a training program. Work on gaining full support of the program by all department heads. For the County of Lake, the Lake County Board of Supervisors has approved a new position within the Community Development Department for a Grading and Stormwater Inspector to replace a Coordinator position that was not filled. The Department filled this position on July 1, 2009. The incumbent will be responsible for assisting in the development and implementation of an annual training program for building inspectors and plans examiners of all three co-permittee agencies.

CON 5c – Implement and Annual Training Program for Site Inspectors and Plan Reviewers

BMP Appropriateness - Appropriate to have a training program for site inspectors and plan reviewers and to implement the program so that all appropriate County staff understand the Program, understand the inspection procedures, and are informed about the specifics of BMPs’ related to CON as they relate to water quality in the receiving water body.

County of Lake

Measurable Goal Results – Incomplete. A training program for site inspectors and plan reviewers to be developed and implemented winter 2009.

Problems in Obtaining Measurable Goals - Lack of fiscal resources and manpower to accomplish program tasks, including laying off of 2 Building Inspectors and one Plans Examiner within the County Building and Safety Division do to revenue shortfalls.

BMP Effectiveness - Unknown.

Proposed Changes to BMPs and Measurable Goals - None.

Activities Planned for Next Year – Continue in developing a training program.
City of Clearlake

Measurable Goal Results – Continue to implement in house training of plan reviewers and building site inspectors as fiscal resources and manpower allows.

Problems in Obtaining Measurable Goals – Lack of financial resources and City administrative staff has impeded the City in implementing this goal. As fiscal resources and manpower allow the City will continue to improve training to staff involved in the planning review and inspection.

BMP Effectiveness – Improving training to plan reviewers and site inspectors will help the City implement it’s planning and construction standards and implement the Lake County Water Management Plan.

Proposed Changes to BMPs and Measurable Goals – None.

Activities Planned for Next Year – Continue the City’s ongoing in-house training program as time and staff permit. The City should work in cooperation with Lake County and the City of Lakeport to provide cross training inspectors and technicians between the entities through joint workshops. The option of on-line training programs should be reviewed, such as webinars to reduce the costs of training.

City of Lakeport

Measurable Goal Results – Ongoing. The City’s Building Inspector has completed training opportunities and will continue to participate in storm water-related training activities.

Problems in Obtaining Measurable Goals – The development of an annual training program for the City’s single Building Inspector has been delayed due to a lack of fiscal resources and manpower. The Inspector will participate in annual training activities when available.

BMP Effectiveness - Effective.

Proposed Changes to BMPs and Measurable Goals - None.

Activities Planned for Next Year – State has offered to send building professionals to Lake County to update our building official on latest inspection and plan review requirements.

CON-6: Construction Site Operator Training

CON 6b – Revise Training Program for Site Operators and Develop Training Manual

BMP Appropriateness - Appropriate to have a training program for construction site operators so that they are aware of current technologies and regulations.

County of Lake, City of Clearlake and City of Lakeport

Measurable Goal Results – Incomplete. A training program for site operators to be developed and implemented winter 2009.

Problems in Obtaining Measurable Goals - Lack of fiscal resources and manpower to accomplish program tasks.

BMP Effectiveness - Unknown.

Proposed Changes to BMPs and Measurable Goals - None.

Activities Planned for Next Year – Continue in developing a training program. Lake County, the City of Clearlake and the City of Lakeport intend to work together to provide cross training of inspectors and
CON 6c – Implement an Annual Training Program for Site Operators

BMP Appropriateness - Appropriate to have a training program for construction site operators to make them aware of current technologies, regulations, and compliance issues.

County of Lake

Measurable Goal Results – Incomplete. A training program for site operators to be developed and implemented winter 2009.

Problems in Obtaining Measurable Goals - Lack of fiscal resources and staffing to accomplish program tasks.

BMP Effectiveness - Unknown.

Proposed Changes to BMPs and Measurable Goals - None.

Measurable Goal Results – Incomplete. No progress was made in FY 2008/09. However, the new Grading and Stormwater inspector position was filled on July 1, 2009. This position is responsible for assisting the County with coordinating and implementing an annual training program for site operators. A program is currently being developed and will training workshops will commence in winter, 2009.

Activities Planned for Next Year – Implement a training program this winter. Lake County, the City of Clearlake and the City of Lakeport intend to work together to provide cross training of inspectors and technicians through joint workshops, to be conducted this winter. The option of on-line training programs should be reviewed, such as webinars to reduce the costs of training.

City of Clearlake

Measurable Goal Results – Incomplete. The City of Clearlake has one building inspector, which inspects housing and commercial construction. The City has no construction site inspectors at this time, and that service is contracted out. Currently the City contracts with consultant firms for construction inspection services on land development projects such as new subdivisions and street construction as there are needed. Therefore, the City relies on the Consultant to provide the necessary expertise to provide construction inspection services to meet the goals of the Stormwater Management Plan. As outline in 4a, 4b, and 5c the City is providing on a limited basis in house training of its building inspector and permit technician and plan reviewers on residential and commercial developments within the City. In 2007 the City adopted the CASQA BMP handbooks for Municipal, Industrial, New Development, and Construction. See City of Clearlake Resolution No. 32-2007 included in Appendix 4-1. These handbooks are used in the City’s ongoing in house training program. On larger construction projects, plans are currently being reviewed and inspected by Civil Engineering firms under contract by the City.

Problems in Obtaining Measurable Goals – The city has no site construction inspectors on staff at the current time to train and rely on private engineering consultants to provide construction inspection services on an as needed basis.

BMP Effectiveness – Probably not applicable. The City contracts for plan review and construction inspection on large residential, commercial and public works projects.

Proposed Changes to BMPs and Measurable Goals – None.

Activities Planned for Next Year – Continue to contract with private consultants to provide construction engineering services as needed. Provide our engineering consultants a copy of Lake County’s Water
Management Plan so they can implement the various programs within the plan. The City will continue the in house training of the City’s plan reviewers and building inspectors and evaluate off-site training opportunities for the City’s building inspector and permit technician for residential, commercial, and public works projects to assist the City in the implementation of the Lake Clean Water Program.

City of Lakeport

Measurable Goal Results – Incomplete.

Problems in Obtaining Measurable Goals - Lack of fiscal resources and staffing to accomplish program tasks.

BMP Effectiveness - Unknown.

Proposed Changes to BMPs and Measurable Goals - None.

Activities Planned for Next Year – Plan to bring issue to the attention of the Advisory Council for reconsideration. Recommendation will be to escalate effort to implement training program.

Table 4.2 Status of procedure development and training BMPs for each Lake County Clean Water Program Co-permittee scheduled for implementation in Fiscal Year 2008/2009.
### Construction Runoff Control Education and Outreach

**CON – 7: Public Education/Outreach and Involvement/Participation**

**CON 7b – Develop New Education and Outreach Material as Necessary and Make Available to the Public**

**BMP Appropriateness** - Appropriate to revise existing materials and develop new education and outreach materials as appropriate to keep up to date with regulations, current technologies and the needs of the construction community.

**County of Lake, City of Clearlake and City of Lakeport**

**Measurable Goal Results** – Complete-Ongoing. Several brochures, such as *Keep Clear Lake*... brochure have been developed. These brochures are posted at the front counters at the City of Clearlake, Lakeport and County Community Development Departments. Each agency also distributes the BMP’s for residential construction that was developed by Lake County, and keeps the *Concrete Waste and Clean up* brochure available at the counters. Display racks have been installed in the lobby of the County Community Development Department for ease of access to information, and these brochures can be downloaded from the Clean Water Program Website operated by the County.

**Problems in Obtaining Measurable Goals** – None.

**BMP Effectiveness** - Effective.

**Proposed Changes to BMPs and Measurable Goals** - None.

**Activities Planned for Next Year** –
- Revise and update existing materials as required and develop or obtain new materials.
Table 4.3 Status of procedure development and training BMPs for each Lake County Clean Water Program Co-permittee scheduled for implementation in Fiscal Year 2008/2009.

<table>
<thead>
<tr>
<th>BMP #</th>
<th>DESCRIPTION</th>
<th>MEASURABLE GOAL</th>
<th>CO-PERMITTEES</th>
<th>STATUS</th>
<th>EFFECTIVE</th>
<th>MODIFIED</th>
</tr>
</thead>
<tbody>
<tr>
<td>CON 7b</td>
<td>Develop new education and outreach materials as necessary and make available to the public.</td>
<td>New education and outreach materials related to the CON program activities developed and made available to the public.</td>
<td>County of Lake</td>
<td>X</td>
<td>X</td>
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<tr>
<td></td>
<td></td>
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<tr>
<td></td>
<td></td>
<td></td>
<td>City of Lakeport</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
</tbody>
</table>

**TRACKING AND REPORTING**

**CON – 8: Construction Site Stormwater Runoff Control Program Tracking and Reporting**

**CON 8b – Revise and Implement Reporting and Tracking Procedures**

**BMP Appropriateness** - Appropriate to revise tracking and reporting procedures, if needed, before implementation.

**County of Lake, City of Clearlake, and City of Lakeport**

**Measurable Goal Results** – Ongoing. Reporting of stormwater runoff complaints is done proactively by building inspection and planning staff of the three co-permittees. In addition, the stormwater hotline operated by the County Community Development Department provides a venue for the public to report illicit discharges and grading violations. Tracking systems exist within each of the three co-permittees electronic permit systems for building and grading permits.

**Problems in Obtaining Measurable Goals** - Lack of fiscal resources and staffing to accomplish program tasks.

**BMP Effectiveness** - Effective

**Proposed Changes to BMPs and Measurable Goals** - None.

**Activities Planned for Next Year** - Aggressively work towards completion of reporting and tracking procedures so that they may be implemented by the end of June 2010. City of Lakeport has a compliance tracking database that may be applicable to this function for all three agencies. An evaluation of that system will be conducted within the next few months.

**Table 4.4** Status of tracking and reporting BMPs for each Lake County Clean Water Program Co-permittee scheduled for implementation in Fiscal Year 2008/2009.
<table>
<thead>
<tr>
<th>BMP #</th>
<th>DESCRIPTION</th>
<th>MEASURABLE GOAL</th>
<th>CO-PERMITTEES</th>
<th>STATUS</th>
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</thead>
<tbody>
<tr>
<td>CON 8b</td>
<td>Revise and implement tracking and reporting procedures.</td>
<td>Tracking and reporting procedures revised and implemented.</td>
<td>County of Lake</td>
<td>X</td>
<td>X</td>
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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 elements 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, which include 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 element 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 2008/09 ACCOMPLISHMENTS

GENERAL SUMMARY
The initial objectives of the PCON program element were to educate County and City (co-permittees) departments that would be involved within the Post-Construction Storm Water Management portions of the SWMP.

Included with the primary objectives of the program element are the evaluation and revision of existing ordinance(s), authorities, activities and programs structures. The PCON Workgroup has traditionally met concurrently with the CON Workgroup; however, both workgroups did not meet in FY 08/09. Development and implementation of the program requirements for post-construction storm water management will move forward upon adoption of pending Ordinances and Resolutions.

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 scheduled for implementation in FY 08/09 are listed in Tables 5.1 – 5.4 and briefly described in this section. Additionally, BMP effectiveness and activities planned for next fiscal year are also described. Please note that many PCON BMPs scheduled for implementation in FY 08/09 were implemented jointly by all three (3) Co-permittees.

POST CONSTRUCTION SITE STORM WATER RUNOFF CONTROL PROGRAM MANAGEMENT

PCON-1 Post Construction Runoff Control (PCON) Work Group

PCON 1b – Conduct PCON Workgroup meetings quarterly

BMP Appropriateness
Appropriate to bring together the various people involved in the development, construction plan review and inspection process for a cohesive effort.

County of Lake, City of Clearlake and City of Lakeport

Measurable Goal Status- Ongoing. The PCON Working Group has met concurrently with the CON Workgroup and has not been able to maintain the quarterly meetings. Meetings have been re-started as of August 2009.

Measurable Goal Results – None.

Problems in Obtaining Measurable Goals- Work loads, changing priorities, and staff changes have provided some difficulty with scheduling meetings.

BMP Effectiveness- Meetings were effective when held.

Proposed Changes to BMPs and Measurable Goals- None.

Activities Planned for Next Year- Establish schedule for regular quarterly meetings with reports submitted to Advisory Council.

PCON-2: Ordinance, Authority and Program Structure Review, Preparation and Adoption

PCON 2b – Begin PCON ordinance (or equivalent) preparation or begin revising existing ordinances to gain required authority

BMP Appropriateness- Appropriate to have an ordinance or equivalent mechanism to gain the required authority to implement the program.

County of Lake


Measurable Goal Results- The County has adopted a Stormwater Ordinance which provides for the authority required to implement PCON Ordinances and/or Resolutions. An amendment to the Stormwater Ordinance has been adopted as the County BMP Manual, pertaining to ground disturbance of one acre or more to read one acre or more of new impervious surfaces.

Problems in Obtaining Measurable Goals- None.
BMP Effectiveness – Effective. CASQA BMP Handbook is used in the review of new development and redevelopment projects, and applicable BMP’s incorporated into project design.

Proposed Changes to BMPs and Measurable Goals- None.

Activities Planned for Next Year- None needed.

City of Lakeport

Measurable Goal Status- Complete.

Measurable Goal Results- The City of Lakeport adopted Ordinance No. 853 in 2006 which is related to storm water management and includes provisions related to PCON issues.

BMP Effectiveness- Effective.

Proposed Changes to BMPs and Measurable Goals- None.

Activities Planned for Next Year- None.

City of Clearlake


Problems in Obtaining Measurable Goals - None

BMP Effectiveness – Adoption of an ordinance will provide and effective and legal way to implement Lake County’s Water Management Plan.

Proposed Changes to BMPs and Measurable Goals – None

Activities Planned for Next Year - None

PCON 2c – Adopt PCON ordinance (or equivalent) or revise existing ordinance to gain required authority

BMP Appropriateness- Appropriate to adopt an ordinance or equivalent mechanism to gain the required authority to implement the program.

County of Lake

Measurable Goal Status- An ordinance amending Chapter 29 of the Lake County Code (Storm Water Ordinance) was adopted on August 28, 2007. The amending ordinance adopted the CASQA “Best Management Practices Handbook” to address new development and redevelopment projects.

Measurable Goal Results- County has adopted Stormwater Ordinance #2772 providing for the authority required to implement PCON elements. County has also adopted an amending ordinance that adopted the CASQA “Best Management Practices Handbook” to address new development and redevelopment projects.

Problems in Obtaining Measurable Goals- None.
BMP Effectiveness- Effective. CASQA BMP Handbook is used in the review of new development and redevelopment projects, and applicable BMP’s incorporated into project design.

Proposed Changes to BMPs and Measurable Goals- None.

Activities Planned for Next Year- None

City of Clearlake


Problems in Obtaining Measurable Goals - None

BMP Effectiveness – Adoption of an ordinance will provide and effective and legal way to implement Lake County’s Water Management Plan.

Proposed Changes to BMPs and Measurable Goals – None

Activities Planned for Next Year - None

City of Lakeport

Measurable Goal Status- Complete.

Measurable Goal Results- The City of Lakeport adopted Ordinance No. 853 in 2006 which is related to storm water management.

Problems in Obtaining Measurable Goals- None.

BMP Effectiveness- Unknown.

Proposed Changes to BMPs and Measurable Goals- None.

Activities Planned for Next Year- None.

PCON-3: Post-Construction Storm Water Management BMPs

PCON 3b – Revise post-construction storm water management BMP materials as appropriate

BMP Appropriateness- Appropriate to revise existing materials or create new materials as appropriate to keep current with regulations and educate the development and construction community.

County of Lake, City of Clearlake and City of Lakeport

Measurable Goal Status- Complete- Ongoing.

Measurable Goal Results- The County has adopted a guidance manual for post construction stormwater management requirements.

Problems in Obtaining Measurable Goals- None.
Section 5  Post Construction Stormwater Management

**BMP Effectiveness** - Effective. BMP information for developers, construction site staff and the general public is available at City(s) / County front desk counters without asking.

**Proposed Changes to BMPs and Measurable Goals** - None.

**Activities Planned for Next Year** - None

**PCON 3c – Make BMP information available to developers, construction site staff and the general public**

**BMP Appropriateness** - Appropriate. Information should be made available to the public, construction site staff, and developers to ensure an understanding of the Stormwater Program and mitigation measures available to them.

**County of Lake, City of Clearlake and City of Lakeport**

**Measurable Goal Status** - Complete - Ongoing.

**Measurable Goal Results** - BMP information for developers, construction site staff and the general public is available at City(s) / County front desk counters without asking.

The County Community Development Department has a Stormwater Program link from the County web page on behalf of the co-permittees. The Stormwater Program web page is currently undergoing revisions.

**Problems in Obtaining Measurable Goals** - None.

**BMP Effectiveness** - Effective. The County Clean Water Program web page has a counter to register the number of accesses (hits) on the web page (currently at 2022). In this manner the Co-Permittees can track the relative effectiveness of program efforts.

**Proposed Changes to BMPs and Measurable Goals** - None.

**Activities Planned for Next Year** - Continue making BMP information available to developers, construction site operators and the general public.

**Table 5.1** Status and effectiveness of Post Construction Site Stormwater Runoff Control Program Management

<table>
<thead>
<tr>
<th>BMP #</th>
<th>DESCRIPTION</th>
<th>MEASURABLE GOAL</th>
<th>CO-PERMITTEES</th>
<th>STATUS</th>
<th>EFFECTIVE</th>
<th>MODIFIED</th>
</tr>
</thead>
<tbody>
<tr>
<td>PCON 1b</td>
<td>Conduct PCON Workgroup meetings quarterly.</td>
<td>PCON Workgroup meeting summaries and attendees list.</td>
<td>County of Lake</td>
<td>Complete</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>City of Clearlake</td>
<td>Incomplete</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>City of Lakeport</td>
<td>Ongoing</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Effective</td>
<td>Unknown</td>
<td>Yes</td>
</tr>
</tbody>
</table>

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<table>
<thead>
<tr>
<th>Section 5</th>
<th>Post Construction Stormwater Management</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>PCON 2b</strong></td>
<td>Begin PCON ordinance (or equivalent) preparation or begin revising existing ordinance to gain required authority.</td>
</tr>
<tr>
<td></td>
<td>PCON ordinance preparation complete.</td>
</tr>
<tr>
<td></td>
<td>County of Lake</td>
</tr>
<tr>
<td></td>
<td>City of Clearlake</td>
</tr>
<tr>
<td></td>
<td>City of Lakeport</td>
</tr>
<tr>
<td><strong>PCON 2c</strong></td>
<td>Adopt PCON ordinance (or equivalent) to gain required authority.</td>
</tr>
<tr>
<td></td>
<td>PCON ordinance (or equivalent) adopted or existing ordinance revised.</td>
</tr>
<tr>
<td></td>
<td>County of Lake</td>
</tr>
<tr>
<td></td>
<td>City of Clearlake</td>
</tr>
<tr>
<td></td>
<td>City of Lakeport</td>
</tr>
<tr>
<td><strong>PCON 3b</strong></td>
<td>Revise post-construction stormwater management BMP materials as appropriate.</td>
</tr>
<tr>
<td></td>
<td>Existing information revised.</td>
</tr>
<tr>
<td></td>
<td>County of Lake</td>
</tr>
<tr>
<td></td>
<td>City of Clearlake</td>
</tr>
<tr>
<td></td>
<td>City of Lakeport</td>
</tr>
<tr>
<td><strong>PCON 3c</strong></td>
<td>Make BMP information available to developers, construction site staff and the general public.</td>
</tr>
<tr>
<td></td>
<td>Materials made available via agency counters and links on co-permitees websites.</td>
</tr>
<tr>
<td></td>
<td>County of Lake</td>
</tr>
<tr>
<td></td>
<td>City of Clearlake</td>
</tr>
<tr>
<td></td>
<td>City of Lakeport</td>
</tr>
</tbody>
</table>

**DEVELOPMENT PLAN REVIEW AND TRAINING**

**PCON-4: Plan Review, Permitting and Storm Water Management BMP Implementation**

**PCON 4b – Revise plan review, permitting, and maintenance/operation requirements and procedures (as appropriate)**

BMP Appropriateness- Appropriate to revise existing plan review, permitting and maintenance/operation requirements and procedures.

**County of Lake**

Measurable Goal Status- Ongoing. A formal revision has been partially completed in that the plan review and permitting processes have been revised. Staff continue to provide language for conditions of approval related to stormwater management in accordance with Construction General Permits and the requirements of the Stormwater Ordinance.

Measurable Goal Results- The County of Lake has reviewed the plan review, permitting, and maintenance/operation requirements and procedures. The review revealed that a more coordinated plan review process is needed between CDD, Lake County Watershed Protection District, and Engineering and Inspection Divisions of Public Works. The County has adopted the CASQA BMP guidance manual. The County is currently writing a PCON Maintenance Agreement to create a mechanism to ensure life-of-project maintenance for BMPs.

Problems in Obtaining Measurable Goals- Lack of fiscal resources, staffing, and coordination between County Departments has hampered significant progress.
**BMP Effectiveness** - Effective. The County incorporates post construction BMP’s into its use permit and tentative subdivision map processes, and includes appropriate BMP’s on construction plan approvals.

**Proposed Changes to BMPs and Measurable Goals** - None.

**Activities Planned for Next Year** - Adopt PCON Maintenance Agreement

**City of Clearlake**

**Measurable Goal Results** – The City has evaluated its plan review process and is implementing BMPS on all residential, commercial and public works construction projects. The City has adopted the CASQA Stormwater Best Management Practice Handbooks and to the extent possible implements practices recommended in those handbooks. Those handbooks are on file at the City for use by municipal staff and available to the general public as well. See City of Clearlake Resolution No. 32-2007 included in the appendices.

**Problems in Obtaining Measurable Goals** - Complete

**BMP Effectiveness** – Unknown

**Proposed Changes to BMPs and Measurable Goals** – None

**Activities Planned for Next Year** - Continue the current program

**City of Lakeport**

**Measurable Goal Status** - Complete

**Measurable Goal Results** - New policies and procedures continue to be developed and implemented. BMP are being implemented at all new projects within the City.

**Problems in Obtaining Measurable Goals** - None.

**BMP Effectiveness** - Unknown.

**Proposed Changes to BMPs and Measurable Goals** - None.

**Activities Planned for Next Year** - Continue developing City policies/procedures related to storm water plan review, permitting, and maintenance/operation requirements and procedures.

**PCON 4c – Begin Implementing plan review, permitting, and maintenance/operation requirements and stormwater management BMPs.**

**BMP Appropriateness** - Appropriate to implement revised plan review, permitting and maintenance/operation requirements and procedures.

**County of Lake**

**Measurable Goal Status** - Complete, Ongoing. A formal revision of the plan review and permitting has been completed. Maintenance/operation BMP’s are included in use permit and tentative subdivision map approvals, and are included on construction plan approvals when appropriate.

**Measurable Goal Results** - Stormwater management BMP’s included as conditions of approval for Subdivisions, Use Permits and grading and construction permits on sites of one acre or more.
Problems in Obtaining Measurable Goals- Lack of fiscal resources, staffing, and coordination between County Departments had delayed progress on completion of maintenance and operational requirements. County is unsure how to quantify/analyze these issues.

BMP Effectiveness- Effective. The County incorporates post construction BMP’s into its use permit and tentative subdivision map processes, and includes appropriate BMP’s on construction plan approvals.

Proposed Changes to BMPs and Measurable Goals- None.

Activities Planned for Next Year- Adopt a PCON Stormwater BMP Maintenance Agreement.

City of Clearlake

Measurable Goal Results – The City is implementing BMPS on all residential, commercial and public works construction projects. The City has adopted the CASQA Stormwater Best Management Practice Handbooks and the extent possible implements practices recommended in those handbooks. Those handbooks are on file at the City for use by municipal staff and available to the general public as well. -

Problems in Obtaining Measurable Goals - Lack of financial resources and administrative staff

BMP Effectiveness – Unknown

Proposed Changes to BMPs and Measurable Goals – None

Activities Planned for Next Year Continue the current program.

City of Lakeport

Measurable Goal Status- Complete/ongoing.

Measurable Goal Results- Plan review, permitting and maintenance/operation requirements and procedures have been implemented. New revisions are pending.

Problems in Obtaining Measurable Goals- BMP guidelines and resource materials are available to the public and any construction permit applicant. The City refers new permit applicants to these documents continuously.

BMP Effectiveness- Effective.

Proposed Changes to BMPs and Measurable Goals- None.

Activities Planned for Next Year- Continue to incorporate appropriate storm water-related conditions of approval and mitigation measures in conjunction with new commercial and residential development projects.

PCON-5: Training on Post Construction Storm Water Management

PCON 5b – Revise training program for appropriate staff, developers, and engineers and develop training manual

BMP Appropriateness- Appropriate to have a training program for site inspectors and plan reviewers and an associated training manual so that municipal staff is aware of current regulations and technologies and understand the responsibilities and interactions of all departments involved in the plan review and inspection process.
**County of Lake, City of Clearlake and City of Lakeport**

**Measurable Goal Results** - Incomplete.

**Problems in Obtaining Measurable Goals** - Lack of fiscal resources and staffing to accomplish program tasks.

**BMP Effectiveness** - Unknown.

**Proposed Changes to BMPs and Measurable Goals** - None.

**Activities Planned for Next Year** - Complete development of a training program and training manual by December 31, 2009.

**PCON 5c – Implement an annual training program**

**BMP Appropriateness** - Appropriate to have a training program for site inspectors and plan reviewers and an associated training manual so that municipal staff is aware of current regulations and technologies and understand the responsibilities and interactions of all departments involved in the plan review and inspection process.

**County of Lake**

**Measurable Goal Status** - Incomplete. The Lake County Board of Supervisors has approved a new position within the Community Development Department for a Grading and Stormwater Inspector. The position was filled on July 1, 2009. The incumbent is responsible for assisting the Chief Building Official with coordinating and implementing an annual training program.

**Measurable Goal Results** - None.

**Problems in Obtaining Measurable Goals** - Lack of fiscal resources and staff.

**BMP Effectiveness** - Unknown.

**Proposed Changes to BMPs and Measurable Goals** - None.

**Activities Planned for Next Year** - Develop and implementation of an annual training program by December 31, 2009. Coordinate efforts with the Cities of Clearlake and Lakeport.

**City of Clearlake**

**Measurable Goal Results** – The City has initiated an in house training program for municipal staff involved in plan review and inspection of new development associated with residential and commercial construction. The City has adopted the CASQA Storm Water Management practice handbooks and the City uses those as a guide to require the installation of BMPS on residential and commercial projects. During construction the City evaluates the effectiveness of the required BMPS and requires modifications as appropriate. On large residential and commercial developments and public works construction projects the city contracts with civil engineering firms to perform plan review and construction inspection. Those contract firms are aware of the City’s standards and the Lake County Storm Water Management Plan, SWMP, and their plan review comments and construction inspection procedures incorporate Lake County’s STWP requirements.

**Problems in Obtaining Measurable Goals** - The City has limited financial resources, and manpower, but is attempting to implement municipal staff training so that the City and its consultants are using the best BMPS to meet the intent of the Lake County’s SWMP.
Section 5  Post Construction Stormwater Management

**BMP Effectiveness** – The better the BMPS used by the City’s Public Works Department, contractors and private development the better the end product, which is less erosion and sedimentation into our creeks and ultimately Clearlake.

**Proposed Changes to BMPS and Measurable Goals** – Continue on going in house training of municipal staff as manpower and financial resources permit.

**Activities Planned for Next Year** - None

**City of Lakeport**

**Measurable Goal Status**- Complete/Ongoing

**Measurable Goal Results**- The City Building Inspector receives updated training regularly in BMPs and inspection practices.

**Problems in Obtaining Measurable Goals**- None

**BMP Effectiveness**- City Building Inspector and Planning Services Manager are informed of current storm water BMPS.

**Proposed Changes to BMPS and Measurable Goals**- None

**Activities Planned for Next Year**- Continue regular training, and continue effort to complete a training manual.

**Table 5.2** Status and effectiveness of Post Construction Site Stormwater Runoff Control Program Development Plan Review and Training Best Management Practices (BMPs) scheduled for implementation in Fiscal Year 2008/2009.

<table>
<thead>
<tr>
<th>BMP #</th>
<th>DESCRIPTION</th>
<th>MEASURABLE GOAL</th>
<th>CO-PERMITTEES</th>
<th>STATUS</th>
<th>EFFECTIVE</th>
<th>MODIFIED</th>
</tr>
</thead>
<tbody>
<tr>
<td>PCON 4b</td>
<td>Revise plan review, permitting, and maintenance/ operation requirements and procedures (as appropriate)</td>
<td>Existing plan review, permitting, maintenance/operation requirements and procedures revised (as appropriate)</td>
<td>County of Lake</td>
<td>Complete (X), Incomplete (X), Ongoing (X)</td>
<td>Yes (X)</td>
<td>No (X)</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>City of Clearlake</td>
<td>X</td>
<td>X</td>
<td>x</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>City of Lakeport</td>
<td>X</td>
<td>X</td>
<td>x</td>
</tr>
<tr>
<td>PCON 4c</td>
<td>Begin implementing plan review, permitting, and maintenance/ operation requirements and</td>
<td>Plan review, permitting, and maintenance/operation requirements and procedures implemented</td>
<td>County of Lake</td>
<td>X</td>
<td>X</td>
<td>x</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>City of Clearlake</td>
<td>X</td>
<td>X</td>
<td>x</td>
</tr>
</tbody>
</table>
Section 5  Post Construction Stormwater Management

<table>
<thead>
<tr>
<th>PCON 5b</th>
<th>Revise training program for appropriate staff, developers and engineers and develop training manual.</th>
<th>Training manual developed.</th>
</tr>
</thead>
<tbody>
<tr>
<td>City of Lakeport</td>
<td>X</td>
<td>x</td>
</tr>
<tr>
<td>County of Lake</td>
<td>X</td>
<td>x</td>
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<tr>
<td>City of Clearlake</td>
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<td>x</td>
</tr>
<tr>
<td>City of Lakeport</td>
<td>X</td>
<td>x</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>PCON 5c</th>
<th>Implement an annual training program</th>
<th>Training program implemented.</th>
</tr>
</thead>
<tbody>
<tr>
<td>County of Lake</td>
<td>X</td>
<td>x</td>
</tr>
<tr>
<td>City of Clearlake</td>
<td>X</td>
<td>x</td>
</tr>
<tr>
<td>City of Lakeport</td>
<td>X</td>
<td>x</td>
</tr>
</tbody>
</table>

**POST-CONSTRUCTION EDUCATION AND OUTREACH**

**PCON-6: Public Education and Outreach / Involvement Participation**

**PCON 6b – Develop new education and outreach material as necessary and make available to the public**

**BMP Appropriateness** - Appropriate to revise existing materials and develop new education and outreach materials as appropriate to keep up to date with regulations, current technologies and the needs of the development and construction community.

**County of Lake, City of Clearlake and City of Lakeport**

**Measurable Goal Results** - Ongoing. The Lake County Community Development Department Maintains the Clean Water Program web page that has a section dedicated towards post construction stormwater management in new development and redevelopment projects. The brochure “Keep Clear Lake Free of Pollution” also addresses post construction issues; see brochure in Appendix 2-1.

**Problems in Obtaining Measurable Goals** - None.

**BMP Effectiveness** - Effective. The program is making progress, particularly with the County Clean Water Program web page and in the distribution of brochures.

**Proposed Changes to BMPs and Measurable Goals** - None.

**Activities Planned for Next Year** - Revise and update available materials as required and develop or secure new materials.

Table 5.3 Status and effectiveness of Post Construction Site Stormwater Runoff Control Program Education and Outreach Best Management Practices (BMPs) scheduled for implementation in Fiscal Year 2008/2009.
Section 5  Post Construction Stormwater Management

<table>
<thead>
<tr>
<th>BMP #</th>
<th>DESCRIPTION</th>
<th>MEASURABLE GOAL</th>
<th>CO-PERMITTEES</th>
<th>STATUS</th>
<th>EFFECTIVE</th>
<th>MODIFIED</th>
</tr>
</thead>
<tbody>
<tr>
<td>PCON 6b</td>
<td>Develop new education and outreach material as necessary and make available to the public.</td>
<td>New education and outreach materials related to the PCON program activities developed and made available to the public.</td>
<td>County of Lake</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>City of Clearlake</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>City of Lakeport</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
</tbody>
</table>

**TRACKING AND REPORTING**

**PCON-7: Post-Construction Site Storm Water Runoff Control Program Tracking and Reporting**

**PCON 7b – Revise and implement tracking and reporting procedures**

BMP Appropriateness- Appropriate to revise tracking and reporting procedures, if needed, before implementation.

**County of Lake**

Measurable Goal Results- Incomplete. The Lake County Board of Supervisors approved a new position within the Community Development Department for a Grading and Stormwater Inspector. The position was filled on July 1, 2009. The incumbent will in coordinating and implementing a Post – Construction stormwater runoff control program.

Problems in Obtaining Measurable Goals- Lack of fiscal resources and staffing to accomplish program tasks has caused significant delays.

BMP Effectiveness- Unknown.

Proposed Changes to BMPs and Measurable Goals- None.

Activities Planned for Next Year- Complete the reporting and tracking procedures by December 31, 2009. Coordinate efforts with the Cities of Clearlake and Lakeport.

**City of Clearlake**

Measurable Goal Results- In 2009 City developed a tracking form to document construction and grading activity throughout the City to cover the maintenance of post construction BMP’s. Post construction structural BMP’s include grease interceptors, drainage detention/treatment basins, and operation, maintenance agreements, as well as non structural BMP’s such as grassy swales.

Problems in Obtaining Measurable Goals- None

BMP Effectiveness- Unknown.
Proposed Changes to BMPs and Measurable Goals- None.

Activities Planned for Next Year- Review the tracking procedures in place and make improvements where necessary.

City of Lakeport

Measurable Goal Status- Complete/ongoing.

Measurable Goal Results- Section 17.35.020 of the City of Lakeport Municipal Code (Mitigation Monitoring) requires City staff to conduct a post-construction review of development projects and the related mitigation measures/conditions of approval. The post-construction report must indicate the status of all conditions, remedial action necessary, and other observations and recommendations. City staff also developed a checklist form that is used in conjunction with the post-construction review activities.

Problems in Obtaining Measurable Goals- None.

BMP Effectiveness- Relatively effective based on the level of compliance observed in the field.

Proposed Changes to BMPs and Measurable Goals- None.

Activities Planned for Next Year- Continue existing reporting and tracking procedures.

Table 5.4 Status and effectiveness of Post Construction Site Stormwater Runoff Control Program Tracking and Reporting
Best Management Practices (BMPs) scheduled for implementation in Fiscal Year 2008/2009.

<table>
<thead>
<tr>
<th>BMP #</th>
<th>DESCRIPTION</th>
<th>MEASURABLE GOAL</th>
<th>CO-PERMITTEES</th>
<th>STATUS</th>
<th>EFFECTIVE</th>
<th>MODIFIED</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Complete</td>
<td>Incomplete</td>
<td>Ongoing</td>
</tr>
<tr>
<td>PCON 7b</td>
<td>Revise and implement tracking and reporting procedures.</td>
<td>Tracking and reporting procedures revised and implemented.</td>
<td>County of Lake</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>City of Clearlake</td>
<td>X</td>
<td>X</td>
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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. 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) is developing and implementing an Illicit Discharge Detection and Elimination (IDDE) Program.

GOALS AND OBJECTIVES

The goal of the IDDE program is to effectively reduce/eliminate illicit discharges into the LCCWP MS4’s by implementing Best Management Practices (BMPs) to the maximum extent practicable (MEP). To achieve this goal, the following objectives have been developed:

- Control illicit discharges by conducting field inspections/screenings of the MS4 and identifying and eliminating the source(s) of non-storm water discharge(s);
- 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;
- Optimize illicit discharge control activities through planning and prioritization; and,
- 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.

FISCAL YEAR 2008/09 ACCOMPLISHMENTS

GENERAL SUMMARY

Similar to FY 07/08, the primary objectives for FY 08/09 were to develop tracking procedures and forms for the IDDE program element by compiling survey responses and meeting (phone or email) summaries. Upon receipt of current tracking and reporting forms and procedures provided by Lake County Department of Environmental Health a draft assessment report was to be completed during this reporting period. Due to staff shortages, lack of funding and high work loads, priorities had to be established to provide for certain program elements to be completed. The CON, PCON, and PEOP program elements were judged to be highest priority where available resources, human and financial, could best be utilized. Accordingly, the IDDE program tasks are behind schedule for FY 08/09.

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.
The status of BMPs scheduled for implementation in FY 08/09 are listed in Tables 6.1 – 6.5 and briefly described in this section. Additionally, BMP effectiveness and activities planned for next fiscal year are also described. Please note that many IDDE BMPs scheduled for implementation in FY 08/09 were implemented jointly by all three (3) Co-permittees.

ILLEGAL DISCHARGE DETECTION AND ELIMINATION PROGRAM MANAGEMENT

IDDE-1: Illicit Discharge Detection and Elimination Workgroup

IDDE 1b – Conduct IDDE Workgroup meetings quarterly.

BMP Appropriateness - Appropriate to bring together the various entities involved in illicit discharge, illegal dumping, and waste management activities for a coordinated effort towards these tasks.

COUNTY OF LAKE, CITY OF CLEARLAKE AND CITY OF LAKEPORT

Measurable Goal Status – Ongoing. The IDDE Working Group did conduct regular meetings but has not been able to maintain the regularly scheduled quarterly meetings during this reporting period. The workgroup will be re-established and meetings will commence in September, 2009.

Measurable Goal Results: Due to fiscal shortages and priorities placed on other program elements, IDDE workgroup meetings did not occur during Fiscal Year 08/09.

Problems in Obtaining Measurable Goals - Lack of fiscal resources and staffing to accomplish program tasks due to prioritization of other program elements.

BMP Effectiveness - Ineffective in FY 08/09. The IDDE Workgroup was unable to meet the regularly scheduled quarterly meetings in FY 08/09.

Proposed Changes to BMPs and Measurable Goals - None.

Activities Planned for Next Year:
- Re-establish quarterly meetings and resume the IDDE workgroup objectives, beginning September 2009.

IDDE-2: Existing Program Structure

IDDE 2b – Determine Administrative Structure(s), Staffing Requirements and Fiscal Resources

BMP Appropriateness – Appropriate to determine administrative structure(s), staffing requirements and fiscal resources needed to implement the program.

COUNTY OF LAKE, CITY OF CLEARLAKE AND CITY OF LAKEPORT

Measurable Goal Results – Complete and ongoing.

Problems in Obtaining Measurable Goals - Lack of fiscal resources and staffing remains a persistent challenge. Focus has been placed on volunteer efforts to help meet this goal.

BMP Effectiveness - Administratively effective. Establishment of strong volunteer program is expected by the end of FY 2009/2010.

Proposed Changes to BMPs and Measurable Goals - None.
Activities Planned for Next Year:
- Establishment of volunteer program with a focus on detection of storm water issues.
- Establishment of online reporting form on county’s and cities’ websites

**IDDE-3: Prepare and Adopt IDDE Ordinance**

**IDDE 3a – Review existing ordinance(s), authorities, and program structure for the Illicit Discharge Detection and Elimination Program.**

*BMP Appropriateness* - Appropriate to evaluate the many parallel efforts of all municipal departments that compliment the intent of the Illicit Discharge and Elimination Program before developing the Program.

**County of Lake**

Measurable Goal Results – Complete (see FY 04/05 Annual Report).

**City of Clearlake**

Measurable Goal Results - Complete (see FY 04-05 Annual Report).

**City of Lakeport**

Measurable Goal Results – Complete (see FY 04-05 Annual Report).

**IDDE 3b – Begin IDDE Ordinance (or equivalent) Preparation or Begin Revising Existing Ordinance to Gain Required Authority**

*BMP Appropriateness* - Appropriate to have an ordinance or equivalent to gain the required authority to implement the program.

**County of Lake**

Measurable Goal Results – Complete. (see FY 06-07 Annual Report).

**City of Clearlake**

Measurable Goal Results- Complete. (see FY 06-07 Annual Report).

**City of Lakeport**

Measurable Goal Results- Complete. (see FY 06-07 Annual Report).

**IDDE 3c – Adopt IDDE Ordinance (or equivalent) or Begin Revising Existing Ordinance to Gain Required Authority**

*BMP Appropriateness* - Appropriate to have an ordinance or equivalent to gain the required authority to implement the IDDE program.

**County of Lake**

Measurable Goal Results – Complete. (see FY 06-07 Annual Report).

**City of Clearlake**

Measurable Goal Results – Complete. (see FY 06-07 Annual Report).
City of Lakeport

Measurable Goal Status - Complete.

Measurable Goal Results – Complete. (see FY 06-07 Annual Report).

Table 6.1 Status and effectiveness of Illicit Discharge Detection and Elimination (IDDE) Program Management Best Management Practices (BMPs) scheduled for implementation in Fiscal Year 2008/2009.

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ILLEGIT DISCHARGE DETECTION AND ELIMINATION PLAN

IDDE-4: Spill Prevention and Response Procedures

IDDE 4b – Revise Existing Spill Prevention and Response Programs and Procedures as Needed

BMP Appropriateness - Appropriate to revise existing programs if deficiencies are found with respect to addressing illicit discharges, prevention and/or response.

County of Lake and City of Lakeport

Measurable Goal Results -Incomplete. A draft MS4 Map was completed by the Lake County Department of Public Works in August, 2009. A final working draft is anticipated to be available by November, 2009. A draft “Lake County Hazardous Materials Response Plan” was prepared in June 2009, after an examination of existing spill prevention and response procedures indicate that there needs to be some revisions for compatibility with the Stormwater Program to address illicit discharges. Suggested revisions with justification are:

1. Incorporate MS4 infrastructure maps with outfall locations into the spill prevention and response program. Knowing the location and connectivity of storm drain inlets and outfalls will help to ensure that spills will be contained and/or prevented from making their way to receiving water bodies.

2. Since the General Permit allows the County to discharge from its MS4, provided that it is in compliance with the General Permit and County SWMP, the Stormwater Program Coordinator, or responsible person for this component of the Stormwater Program must be kept informed of all reported incidents as soon as possible to implement corrective actions.

3. All incidents need to be reported to the appropriate person for Stormwater Program purposes. This will most likely entail new and or revised reporting forms that can be used to help track those incidents and aid in the implementation of the Stormwater Program.

Problems in Obtaining Measurable Goals - Lack of fiscal resources and staffing to accomplish program tasks. Lake County Public Works Department has not completed the MS4 map.

BMP Effectiveness – Unknown.

Proposed Changes to BMPs and Measurable Goals - None.

Activities Planned for Next Year

• Work towards completing the necessary tasks so the above concerns can be incorporated into the County Hazardous Materials Response Program.
• Complete MS4 Map

City of Lakeport

Measurable Goal Results –Complete/Ongoing. The City has an Hazardous Materials Incident Response Plan in place.

Problems in Obtaining Measurable Goals - Lack of fiscal resources and staffing remains a persistent challenge.

BMP Effectiveness – Effective. City of Lakeport has developed a Hazardous Materials Incident Response Plan and is working with a consultant on drafting a Spill Prevention Plan for its corporation yard. Resources can be shared with county, if needed.

Proposed Changes to BMPs and Measurable Goals - None.
Activities Planned for Next Year

- Completion of a Spill Prevention Plan at the City’s corporation yard.

City of Clearlake

Measurable Goal Results – The City of Clearlake has very basic spill prevention and response procedures in place at this time. Currently there is no formal hazardous material spill response clean-up team in Lake County. Our City Public Works Department works with the local Fire Department and our Clearlake Police Department to clean-up non-hazardous spills generally associated with traffic accidents. The City’s Public Works also works in cooperation with the Lake County Environmental Department, and Lake County Sanitation District when sewage spills occur within our City. The goal is to contain the spill or contaminate using accepted BMP’s, and remove it in a safe and efficient manner.

Problems in Obtaining Measurable Goals - The City has very limited staffing within the Public Works Department, and relies on working in cooperation with the various agencies within the City and County to respond to hazardous spills.

BMP Effectiveness - Spill prevention and adequate response and clean up of spills once they occur is certainly effective in reducing or eliminating contamination of our creeks and ultimately eliminating contaminants from entering Clearlake.

Proposed Changes to BMPs and Measurable Goals - None

Activities Planned for Next Year – Work with the City of Lakeport and Lake County Agencies to improve our spill prevention, response and clean-up procedures.

IDDE 4c – Begin Implementing Revised Spill Prevention and Response Procedures

BMP Appropriateness - Appropriate to implement the revised programs to address illicit discharges.

County of Lake

Measurable Goal Results - Complete. Revisions to the existing spill prevention and response procedures have been drafted and implemented by the Environmental Health Division as part of a revised “Lake County Hazardous Materials Response Plan”, drafted in June 2009.

Problems in Obtaining Measurable Goals - Lack of fiscal resources and staffing has delayed completion of the revisions to the Hazardous Materials Response Plan.

BMP Effectiveness - Effective.

Proposed Changes to BMPs and Measurable Goals - None.

Activities Planned for Next Year - None

City of Clearlake

Measurable Goal Results - The City of Clearlake has very basic spill prevention and response procedures in place at this time. Currently there is no formal hazardous material spill response clean-up team in Lake County. Our City Public Works Department works with the local Fire Department and our Clearlake Police Department to clean-up non-hazardous spills generally associated with traffic accidents. The City’s Public Works also works in cooperation with the Lake County Environmental Department, and Lake County Sanitation District when sewage spills occur within our City. The goal is to contain the spill or contaminate using accepted BMP’s, and remove it in a safe and efficient manner.
Section 6  Illicit Discharge Detection and Elimination

Problems in Obtaining Measurable Goals - The City has very limited staffing within the Public Works Department, and relies on working in cooperation with the various agencies within the City and County to respond to hazardous spills.

BMP Effectiveness – Spill prevention and adequate response and clean up of spills once they occur is certainly effective in reducing or eliminating contamination of our creeks and ultimately Clearlake.

Proposed Changes to BMPs and Measurable Goals – None

Activities Planned for Next Year - Work with the City of Lakeport and Lake County Agencies to improve our spill prevention, response and clean-up procedures.

City of Lakeport

Measurable Goal Results - Complete. Training on new spill response plan is scheduled to take place by the end of October, 2009.

Problems in Obtaining Measurable Goals - Lack of fiscal resources and staffing remains a persistent challenge.

BMP Effectiveness - Effective. Staff is more aware and informed on response procedures and emergency protocols. Readiness has been enhanced.

Proposed Changes to BMPs and Measurable Goals - None.

Activities Planned for Next Year - Training on response plan scheduled to occur in FY 2009/2010.

IDDE – 5: Storm Drain System Inspection/Screening Program

IDDE 5b – Revise Existing Storm Drain System Inspection/Screening Program as Needed

BMP Appropriateness - Appropriate to revise existing procedures if any deficiencies are found in existing procedures.

County of Lake

Measurable Goal Results – Incomplete. MS4 maps need to be completed in order to update storm drain inspection and screening program.

Problems in Obtaining Measurable Goals - Lack of fiscal resources and staffing to accomplish program tasks.

BMP Effectiveness - Unknown.

Proposed Changes to BMPs and Measurable Goals - None.

Activities Planned for Next Year:
- Complete MS4 Maps
- Re-establish quarterly meetings and resume the IDDE workgroup objectives, beginning September 2009.
- Work towards accomplishment of revising existing storm drain system inspection/screening programs and procedures as needed.
City of Clearlake

Measurable Goal Results – The City of Clearlake Public Works Department has identified several specific areas near natural creeks where hazardous spills have either occurred or have a stronger likelihood to occur. They are: Molesworth Creek in the Meadowbrook area, Burns Valley Creek along Burns Valley Road, just north of Turner Street, and Miller Creek at Olympic Drive. Molesworth Creek and Burns Valley Creek at the above locations are near Lake County Sewer District lift stations, where sewer spills have occurred in the past, and Miller Creek is in commercial/industrial area where illicit discharges could occur.

Problems in Obtaining Measurable Goals – The City Public Works Department has a total of 4 employees to maintain its parks, storm drain system and over 150 miles of streets. Lack of adequate staffing and financial resources is a major problem for the City in meeting all of its goals.

BMP Effectiveness – Unknown, however identifying and screening problem areas will assist the City in developing a response and clean-up of any spill that occurs.

Proposed Changes to BMPs and Measurable Goals - None.

Activities Planned for Next Year: Develop better response plans and procedures for the containment and cleanup of spills that occur in the three areas sited above under 5b.

IDDE 5c – Begin Storm Drain System Inspection/Screening Program Implementation

BMP Appropriateness - Appropriate to implement revised inspection and screening program once the revisions have been made.

County of Lake

Measurable Goal Results - Incomplete. MS4 maps need to be completed in order to update storm drain inspection and screening program.

Problems in Obtaining Measurable Goals - Lack of fiscal resources and staffing to accomplish program tasks.

BMP Effectiveness - Unknown.

Proposed Changes to BMPs and Measurable Goals - None.

Activities Planned for Next Year:
• Complete MS4 Maps
• Work towards a revision of existing storm drain system inspection/screening programs such that implementation can begin.

City of Clearlake

Measurable Goal Results -
The City of Clearlake Public Works Department has identified several specific areas near natural creeks where hazardous spills have either occurred or have a stronger likelihood to occur. They are: Molesworth Creek in the Meadowbrook area, Burns Valley Creek along Burns Valley Road, just north of Turner Street, and Miller Creek at Olympic Drive. Molesworth Creek and Burns Valley Creek at the above locations are near Lake County Sewer District lift stations, where sewer spills have occurred in the past, and Miller Creek is in commercial/industrial area where illicit discharges could occur.

Problems in Obtaining Measurable Goals - The City Public Works Department has a total of 4 employees to maintain its parks, storm drain system and over 150 miles of streets. Lack of adequate staffing and financial resources is a major problem for the City in meeting all of its goals.
BMP Effectiveness – Unknown, however identifying and screening problem areas will assist the City in developing a response and clean-up of any spill that occurs.

Proposed Changes to BMPs and Measurable Goals - None.

Activities Planned for Next Year: Develop better response plans and procedures for the containment and cleanup of spills that occur in the three areas sited above under 5b.

City of Lakeport

Measurable Goal Results – Complete and ongoing for the City of Lakeport.

Problems in Obtaining Measurable Goals - Lack of fiscal resources and staffing is a persistent challenge.

BMP Effectiveness - Effective. Storm drains are inspected and cleaned regularly by the City’s Public Works department. No observable debris or trash is to be found in drains before the start of the wet-weather season.

Proposed Changes to BMPs and Measurable Goals - None.

Activities Planned for Next Year:
• Continue regular inspections of the storm drain system throughout the City.

IDDE-6: Storm Drain System Inspection/Screening Program Staff Training

IDDE 6a – Develop an Illicit Discharge Detection and Elimination Training Program for Applicable Municipal Employees

BMP Appropriateness - Appropriate to develop a training program for applicable municipal employees to detect and address illicit discharges which yields results which can be tracked, addressed and reported on.

County of Lake, City of Clearlake and City of Lakeport

Measurable Goal Results – Incomplete, Ongoing.

Problems in Obtaining Measurable Goals – Overcoming a lack of fiscal resources and staffing remains a persistent challenge. County MS4 Map need to be completed.

BMP Effectiveness - Unknown.

Proposed Changes to BMPs and Measurable Goals - None.

Activities Planned for Next Year
• Develop a training program for applicable municipal staff to detect and address illicit discharges by December 31, 2009.
• County will Complete MS4 Map
• City of Lakeport is exploring the possibility of hiring a code enforcement officer, which will play a part in illicit discharge detection. The City’s volunteer program will play an additional role in that function, as will the City’s Compliance Officer, Building Inspector, and Planning Services Manager.

IDDE 6b – Conduct Illicit Discharge Detection and Elimination Annual Training
Section 6  Illicit Discharge Detection and Elimination

BMP Appropriateness - Appropriate to annually train all applicable municipal employees to detect and address illicit discharges.

County of Lake

Measurable Goal Results – Incomplete.

Problems in Obtaining Measurable Goals - Lack of fiscal resources and staffing to accomplish program tasks. A training program will require implementation before commencing annual training.

BMP Effectiveness - Unknown.

Proposed Changes to BMPs and Measurable Goals - None.

Activities Planned for Next Year
- Develop a training program for applicable municipal staff to detect and address illicit discharges by December 31, 2009.
- Complete MS4 Map.

City of Clearlake

Measurable Goal Results – The City does not have a formal training program for IDDE at this time. The City’s Public Works Department works in cooperation with the City of Lakeport and various Lake County Agencies to improve its procedures to respond to or address illicit discharges and accidental spills when they occur.

Problems in Obtaining Measurable Goals - Developing training programs in a small city with limited staff is difficult and financial resources are very limited for travel and training.

BMP Effectiveness – Unknown, however identifying and screening problem areas will assist the City in developing a response and clean-up of any spill that occurs.

Proposed Changes to BMPs and Measurable Goals – None

Activities Planned for Next Year - Work with Lake County Agencies and the City of Lakeport in the development of a training program for applicable municipal staff to detect and address illicit discharges

City of Lakeport

Measurable Goal Results – Incomplete.

Problems in Obtaining Measurable Goals – Overcoming a lack of fiscal resources and staffing remains a persistent challenge. A training program will require implementation before commencing annual training.

BMP Effectiveness - Unknown.

Proposed Changes to BMPs and Measurable Goals - None.

Activities Planned for Next Year- Develop a volunteer training program for the detection of possible storm water discharge violations. Conduct regular meetings between the City’s Compliance Officer, Building Inspector, and Planning Services Manager to stay updated on current BMPs.

Table 6.2  Status and effectiveness of Illicit Discharge Detection and Elimination (IDDE) Plan Best Management Practices (BMPs) scheduled for implementation in Fiscal Year 2008/2009.
### Section 6  Illicit Discharge Detection and Elimination

#### FY 08-09 Annual Report 6-11 September 15, 2009

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<td>IDDE 4c</td>
<td>Begin implementing revised spill prevention and response procedures.</td>
<td>Spill prevention and response procedures implemented.</td>
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<tr>
<td>IDDE 5b</td>
<td>Revise existing storm drain system inspection / screening programs as needed.</td>
<td>Existing storm drain system inspection / screening programs revised to be applicable to Co-permittees.</td>
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<tr>
<td>IDDE 5c</td>
<td>Begin storm drain system inspection / screening program implementation.</td>
<td>Storm drain system inspection / screening program implemented.</td>
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<tr>
<td>IDDE 6a</td>
<td>Develop an illicit discharge detection and elimination training program for applicable municipal employees.</td>
<td>Training program and associated materials developed.</td>
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<tr>
<td>IDDE 6b</td>
<td>Conduct annual training for illicit discharge detection and elimination for applicable municipal employees.</td>
<td>Training program conducted at least once per year.</td>
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</table>
MUNICIPAL SEPARATE STORM SEWER SYSTEM MAPPING

IDDE-7: Collect and Assess Existing Information on MS4

- **IDDE 7a**– Completed-see FY 04/05 Annual Report
- **IDDE 7b**– Completed-see FY 04/05 Annual Report

IDDE – 8: MS4 Mapping

**IDDE 8a – Input Existing MS4 Information into the GIS Database**

BMP Appropriateness - Appropriate to include all MS4 information in a central location for ease of use and for potential use on other projects that may require information on the infrastructure.

**County of Lake**
- Completed-see FY 04/05 Annual Report

**City of Clearlake**

Measurable Goal Results - Behind schedule. Currently the City does not have a GIS layer for its storm drain system. Crews depend on organizational memory to locate certain underground storm drain lines, and in some cases have to trace them down with water from a flusher truck. As this has occurred in the past, the City Public Works crew sketches out the location and size of the storm drain pipes and location of inlets. As time permits this information will be transferred over to existing City street maps, and eventually digitized for our GIS mapping when it can be funded. Currently, the City has no employee that is proficient in GIS software applications,

Problems in Obtaining Measurable Goals - Lack of staffing and financial resources.

BMP Effectiveness – Unknown

Proposed Changes to BMPs and Measurable Goals - None

Activities Planned for Next Year
- Explore the possibility of the City, and or the City of Clearlake, City of Lakeport, and the County obtaining a grant to contract the collection of the raw data for the City’s Storm Drain System, and digitizing it onto the City’s existing GIS maps. Due to financial constraints at this time, unless a grant is secured, it will be very difficult for the City of Clearlake to complete this goal under the current economic situation. The City will continue to collect any raw storm drain data that it obtains from field reconnaissance so that it can be digitized in the future.

**City of Lakeport**
- Completed-see FY 04/05 Annual Report

**IDDE 8b – Conduct MS4 Outfall Data Collection and Input into the GIS Database**

BMP Appropriateness- Appropriate. MS4 outfall location is a crucial piece of information that is needed to monitor for illicit discharges.

**County of Lake**

Measurable Goal Results – Incomplete. A draft map was prepared in August 2009 and is being refined.

Problems in Obtaining Measurable Goals- Lack of fiscal resources and staffing to accomplish program tasks.
BMP Effectiveness- Unknown.

Proposed Changes to BMPs and Measurable Goals- None.

Activities Planned for Next Year

- Complete MS4 outfall inventory by November 2009.

City of Clearlake

Measurable Goal Results - Behind schedule. Currently the City does not have a GIS layer for its storm drain system. Crews depend on organizational memory to locate certain underground storm drain lines, and in some cases have to trace them down with water from a flusher truck. As this has occurred in the past, the City Public Works crew sketches out the location and size of the storm drain pipes and location of inlets. As time permits this information will be transferred over to existing City street maps, and eventually digitized for our GIS mapping when it can be funded. Currently the City has no employee that is proficient in GIS software applications.

Problems in Obtaining Measurable Goals- Lack of fiscal resources and manpower to accomplish program tasks.

BMP Effectiveness- Unknown.

Proposed Changes to BMPs and Measurable Goals- None.

Activities Planned for Next Year - Explore the possibility of City, and or the City of Clearlake, the City of Lakeport, and Lake County obtaining a grant to contract the collection of the raw data for the City’s Storm Drain System, and digitizing it onto the City’s existing GIS maps. Due to financial constraints at this time, unless a grant is secured, it will be very difficult for the City of Clearlake to complete this goal under the current economic situation. The City will continue to collect any raw storm drain data that it obtains from field reconnaissance so that it can be digitized in the future.

City of Lakeport

- Completed-see FY 04/05 Annual Report

Table 6.3 Status and effectiveness of MS4 Mapping Best Management Practices (BMPs) scheduled for implementation in Fiscal Year 2008/2009.

<table>
<thead>
<tr>
<th>BMP #</th>
<th>DESCRIPTION</th>
<th>MEASURABLE GOAL</th>
<th>CO-PERMITTEES</th>
<th>STATUS</th>
<th>EFFECTIVE</th>
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<tbody>
<tr>
<td>IDDE 8a</td>
<td>Input existing information into the GIS data base.</td>
<td>GIS data base with existing information complete.</td>
<td>County of Lake</td>
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<td>City of Clearlake</td>
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<tr>
<td>IDDE 8b</td>
<td>Conduct MS4 outfall data collection and input into the GIS data base.</td>
<td>Steady improvement annually. (MS4 mapping complete by end of permit term).</td>
<td>County of Lake</td>
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</table>
IDDE EDUCATION AND OUTREACH

IDDE – 9: Public Education/Outreach and Involvement/Participation

**IDDE 9b – Develop New Education and Outreach Materials as Appropriate and Make Available to the Public (in collaboration with the PEOP Workgroup)**

BMP Appropriateness - Appropriate to develop new education and outreach materials if existing materials are out of date or inadequate to meet program needs for public education and outreach.

**County of Lake, City of Clearlake and City of Lakeport**

Measurable Goal Results – Complete-Ongoing. The County developed a mercury brochure for public education and outreach on behalf of all Co-permittees. A general storm water brochure and a concrete waste brochure is also available to the general public. Brochures are available at each Co-Permittee’s public counters, and are available for download at the Clean Water Program Website maintained by the Lake County Community Development Department. Educational slides continue to be displayed at the Lakeport Cinema prior to movie showings. The City of Lakeport developed a storm sewer use guide for local businesses and distributed it by mail as well as made it available online.

Problems in Obtaining Measurable Goals – The PEOP working group had not met quarterly during FY 08/09. Meetings are scheduled to commence beginning August 2009.

BMP Effectiveness - Effective.

Proposed Changes to BMPs and Measurable Goals - None.

Activities Planned for Next Year – Re-establish quarterly meetings and resume the PCON workgroup meetings, beginning August 2009.

**Table 6.4** Status and effectiveness of IDDE Education and Outreach Best Management Practices (BMPs) scheduled for implementation in Fiscal Year 2008/2009.

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<th>BMP #</th>
<th>DESCRIPTION</th>
<th>MEASURABLE GOAL</th>
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<td>Complete</td>
<td>Incomplete</td>
<td>Ongoing</td>
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<td>IDDE 9b</td>
<td>Develop new</td>
<td>New education</td>
<td>County of Lake</td>
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<td>City of Clearlake</td>
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<td>materials</td>
<td>City of Lakeport</td>
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TRACKING AND REPORTING

IDDE – 10: Illicit Discharge Detection and Elimination Tracking and Reporting
**IDDE 10a- Conduct an assessment of current reporting and tracking procedures**

**BMP Appropriateness** - Appropriate to determine the methodology and formats used for current tracking and reporting of illicit discharges and related issues between the various County departments before developing new reporting and tracking procedures for the Lake County Stormwater Program.

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

**Measurable Goal Status** – Complete (See FY 06/07 Annual Report).

**IDDE 10b – Revise and Implement Tracking and Reporting Procedures**

**BMP Appropriateness** - Appropriate to revise tracking and reporting procedures, as needed, before implementation such that a consistent and coordinated format is utilized.

**County of Lake, and City of Lakeport**

**Measurable Goal Results**- Incomplete.

**Problems in Obtaining Measurable Goals**- Overcoming a lack of fiscal resources and staffing to accomplish program tasks.

**BMP Effectiveness**- Unknown.

**Proposed Changes to BMPs and Measurable Goals** -None.

**Activities Planned for Next Year**

- Work towards completion of the assessment of reporting and tracking procedures so that they may be implemented.

**City of Clearlake**

**Measurable Goal Results**- The City of Clearlake Public Works Department has identified several specific areas near natural creeks where hazardous spills have either occurred or have a stronger likelihood to occur. They are: Molesworth Creek in the Meadowbrook area, Burns Valley Creek along Burns Valley Road, just north of Turner Street, and Miller Creek at Olympic Drive. Molesworth Creek and Burns Valley Creek at the above locations are near Lake County Sewer District lift stations, where sewer spills have occurred in the past, and Miller Creek is in a commercial/industrial area where illicit discharges could occur. These are high priority areas, and the City has developed a tracking system to improve the inspection/maintenance BMP’s for these areas.

**Problems in Obtaining Measurable Goals**- None

**BMP Effectiveness**- Unknown.

**Proposed Changes to BMPs and Measurable Goals** -None.

**Activities Planned for Next Year** Review current tracking procedures and make improvements as required.

**City of Lakeport**

**Measurable Goal Results**- Complete.
Problems in Obtaining Measurable Goals- Lack of fiscal resources and staffing remains a persistent challenge.

BMP Effectiveness- Effective. Specific cases are already under investigation for prohibited storm water discharge.

Proposed Changes to BMPs and Measurable Goals -None.

Activities Planned for Next Year
- Work towards completion of the assessment of reporting and tracking procedures so that they may be implemented.

Table 6.5 Status and effectiveness of IDDE Tracking and Reporting Best Management Practices (BMPs) scheduled for implementation in Fiscal Year 2008/2009.

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<tr>
<th>BMP #</th>
<th>DESCRIPTION</th>
<th>MEASURABLE GOAL</th>
<th>CO-PERMITTEES</th>
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<td>Complete</td>
<td>Incomplete</td>
<td>Ongoing Effective Not Effective Unknown Yes No</td>
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<tr>
<td>IDDE 10a</td>
<td>Conduct an assessment of current tracking and reporting procedures.</td>
<td>Assessment complete.</td>
<td>County of Lake X X</td>
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<td>IDDE 10b</td>
<td>Revise and implement tracking and reporting procedures.</td>
<td>Tracking and reporting procedures revised and implemented.</td>
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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 is developing and implementing a 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 element.

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 2008/09 ACCOMPLISHMENTS

GENERAL SUMMARY

The initial objectives of the MUNI program element were intended to educate the departments that would be involved with the Pollution Prevention Good Housekeeping Program and to solicit comments for the preparation and adoption of the SWMP. Current fiscal year objectives were to include:

- an assessment and evaluation of existing activities and programs and to guide the MUNI Workgroup membership to allow their efforts to move forward in developing an appropriate suite of pollution prevention BMPs for day to day operations;
- training manuals and/or training programs to keep municipal employees abreast of current regulations, current technologies and practices;
- Identify appropriate BMPs related to the operations and maintenance of County facilities.

Due to staff shortages, lack of funding, high work loads, and overall program priorities, MUNI program tasks for FY 08/09 are behind schedule.
The status of BMPs scheduled for implementation in FY 08/09 are listed in Tables 7.1 – 7.6 and briefly described in this section. Additionally, BMP effectiveness and activities planned for next fiscal year are also described.

**Municipal Maintenance Good Housekeeping Program Management**

**MUNI-1: Municipal Operations Workgroup**

**MUNI 1b– Conduct MUNI Workgroup meetings twice per year**

BMP Appropriateness

Appropriate to keep municipal maintenance staff informed about current regulations and technologies and to coordinate efforts between all municipalities to reduce duplication of effort and associated program costs.

**County of Lake, City of Clearlake and City of Lakeport**

Measurable Goal Status- Incomplete/Ongoing.

Measurable Goal Results- The Municipal Operations Working Group has not met since adoption of the SWMP, nor had it set a formal meeting date. Measurable goals for pollution prevention good housekeeping BMPs are the result of individual meetings with key staff outside of the collective group effort. MUNI and IDDE Workgroup was re-established in September 2009 and has been given Goals to complete during the remaining 2009/10 reporting year. The Workgroup will begin meeting in late September 2009.

Problems in Obtaining Measurable Goals- Priority was given by the County to CON/PCON and PEOP related tasks as these have the greatest immediate impact upon the receiving waters of Clear Lake and provide the greatest potential use for limited human and fiscal resources.

BMP Effectiveness- Unknown.

Proposed Changes to BMPs and Measurable Goals- None.

Activities Planned for Next Year- Bi-annual meetings among the co-permittees will be held, with the first meeting in September, 2009.

**Table 7.1** Status and effectiveness of MUNI Program Management Best Management Practices (BMPs) scheduled for implementation in Fiscal Year 2008/2009.

<table>
<thead>
<tr>
<th>BMP #</th>
<th>DESCRIPTION</th>
<th>MEASURABLE GOAL</th>
<th>CO-PERMITTEES</th>
<th>STATUS</th>
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<td>Complete</td>
<td>Incomplete</td>
<td>Ongoing</td>
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<tr>
<td>MUNI 1b</td>
<td>Conduct MUNI Workgroup meetings twice per year.</td>
<td>MUNI Workgroup meeting summaries and attendees list.</td>
<td>County of Lake</td>
<td>X</td>
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MUNI-2: Street Sweeping Program

MUNI 2a – Evaluate and document current street sweeping practices.

County of Lake, City of Lakeport and City of Lakeport

Measurable Goal Status - Complete (See FY 06/07 Annual Report).

MUNI 2b – Develop / revise street sweeping BMPs

BMP Appropriateness - Revising or development of street sweeping BMPs is appropriate to be adaptable to seasonal fluctuations and public use patterns, to respond to high dust generative areas, to assess street sweeping effectiveness, and minimize potential pollutants in roadways.

County of Lake

Measurable Goal Results - Complete. An ordinance amending Chapter 29 of the Lake County Code (Storm Water Ordinance) was adopted on August 28, 2007. The amending ordinance adopted the CASQA “Best Management Practices Handbook” includes numerous street sweeping BMPs.

Problems in Obtaining Measurable Goals - None.

BMP Effectiveness - Unknown.

Proposed Changes to BMPs and Measurable Goals - None.

Activities Planned for Next Year - None – Complete

City of Clearlake

Measurable Goal Results - Complete.

Measurable Goals Results – The City of Clearlake adopted resolution 126-2006, on January 25, 2007, which by separate resolution adopted the Municipal Operations BMP Handbook produced by the California Stormwater Quality Association (CASQA). The handbook includes numerous street sweeping BMPs. On July 12, 2007 the, City of Clearlake City Council adopted Resolution No. 32-2007 adopting the CASQA handbooks which establishes performance requirements and best management practices (BMPs) to prevent or minimize discharged of Stormwater pollutants and storm water quality impacts.

Problems in Obtaining Measurable Goals - None

BMP Effectiveness - Street sweeping is a very effective way to reduce the amount of pollutants entering the City’s storm drain system and ultimately reaching creeks and Clearlake.

Proposed Changes to BMPs and Measurable Goals - None.

Activities Planned for Next Year - None – Complete

City of Lakeport

Measurable Goal Status - Complete.


Problems in Obtaining Measurable Goals - None.
**Section 7  Pollution Prevention and Good Housekeeping for Municipal Operations**

**BMP Effectiveness** - Unknown.

**Proposed Changes to BMPs and Measurable Goals** - None.

**Activities Planned for Next Year** - None - complete.

**MUNI 2c – Implement Street sweeping BMPs**

**BMP Appropriateness** - Very appropriate to implement street sweeping BMPs as streets, roads, and parking lots accumulate significant amounts of pollutants which potentially contribute to stormwater runoff into surface waters. Street sweeping can also minimize dust and decrease accumulation of debris in catch basins.

**County of Lake**

**Measurable Goal Results** - The street sweeping program has been in effect for several years on the county’s paved roadways. It is estimated that the street sweeping program diverted approximately 2000 cubic yards of debris from the county’s streams and lakes this year.

**Problems in Obtaining Measurable Goals** - None.

**BMP Effectiveness** - Effective.

**Proposed Changes to BMPs and Measurable Goals** - None.

**Activities Planned for Next Year** - The Department of Public Works has implemented a system for tracking the cubic yards of sweeping debris accumulated and miles of streets swept. Continue with data collection.

**City of Clearlake**

**Measurable Goal Results** – The city initiated the sweeping of its major streets in February 2006 through an informal agreement with Clearlake Waste Solutions, formally Timberline Disposal Service. The City’s major streets are currently being swept every three months. It is the City’s goal to negotiate a contract with Clearlake Waste Solutions within the next few years, when our current franchise agreement expires to include the street sweeping of all City streets on a regular basis. The exact schedule will be determined at that time. In the meantime the City has budgeted $5,000 in fiscal year 2009-10 for contract sweeping. It is the City’s intent to negotiate a contract with either the Lake County Public Works Department to provide street sweeping, or with a private street sweeping company. It is the City’s goal to sweep major arterial streets on a monthly basis and residential streets every 3 months. In 2008-09 the City continued to use Lake County inmates to hand clean streets on its major arterial streets. The curb, gutters and sidewalks were hand cleaned to remove all debris and sediment. On May 9, 2009 the City had its second City wide clean up day. Volunteers from all over City participated in this major spring clean-up campaign. See the Record Bee article in the appendix. The City plans to continue this street cleaning program in the spring of each year. Both of these programs have been very successful and have substantially reduced sediment into our storm drain system and into Clearlake.

**Problems in Obtaining Measurable Goals** - The City does not have a street sweeper and has to contract with a private sweeping contractor to meet this goal. Financial resources are very limited, however the City has budgeted $5,000 in 2009-10 for contract street sweeping.

**BMP Effectiveness** – Street sweeping and hand cleaning of gutters and sidewalks is a very effective way to reduce pollutants into our streams and Clear Lake.

**Proposed Changes to BMPs and Measurable Goals** – None

**Activities Planned for Next Year** - The City has budgeted $5,000 in fiscal year 2009-10 for contract sweeping. It is the City’s intent to negotiate a contract with either the Lake County Public Works
Department to provide street sweeping, or with a private street sweeping company. It is the City's goal to sweep major arterial streets on a monthly basis and residential streets every 3 months. The City also plans to continue to support the annual Clearlake volunteer cleanup day and the use of Lake County inmates, as they are available, to hand clean the City's streets.

City of Lakeport

Measurable Goal Status- Complete-Ongoing.

Measurable Goal Results- City Public Works Director reports that the street sweeping BMPs set forth in the CASQA handbook for municipal operations have been implemented. Street sweeping takes place according to a set schedule and accumulated debris is properly disposed of. A concrete wash area is used to wash out the street sweeper.

Problems in Obtaining Measurable Goals- None.

BMP Effectiveness- Effective.

Proposed Changes to BMPs and Measurable Goals- None.

Activities Planned for Next Year- Continue utilizing appropriate street sweeping BMPs.

MUNI 2d – Advertise street sweeping schedule

BMP Appropriateness- It is appropriate to advertise street sweeping schedules to the general public while maintaining a flexible, proactive/reactive, approach can increase program effectiveness. A measured response to areas of concern such as those areas requiring increased sweeping schedules due to high dust or debris generation is required for maximum efficiency and efficacy of this program.

County of Lake, City of Clearlake and City of Lakeport

Measurable Goal Results- Complete-Ongoing. The Lake County Clean Water Program web site has street sweeping schedules advertised for Co-permittees. The City of Lakeport also has a street sweeping schedule and route map posted in the lobby at Lakeport City Hall.

Problems in Obtaining Measurable Goals- Lack of fiscal resources and staffing to evaluate and execute other advertising mechanisms for the sweeper program.

BMP Effectiveness- Effective. The County Department of Public Works receives inquiries and requests to revise the schedule from time to time, and the Department makes accommodations for special requests.

Proposed Changes to BMPs and Measurable Goals- None.

Activities Planned for Next Year- Evaluate other options for advertising street sweeping schedules along with helpful hints on what homeowners can do to help keep streets clean.

MUNI-3: Green Waste Collection Programs and Activities

MUNI 3c– Advertise green waste collection activities and programs available to the public

BMP Appropriateness- Appropriate to advertise green waste collection activities and programs available to the general public. Increased public awareness of available green waste collection activities and programs results in increased use of said programs and reduced illegal dumping.
County of Lake, City of Clearlake and City of Lakeport

Measurable Goal Status- Complete-Ongoing.

Measurable Goal Results
- **County of Lake**
  Green Waste Collection Programs are advertised through radio, TV, newspapers, handouts, Public Services web page ([http://recycling.co.lake.ca.us/index.asp](http://recycling.co.lake.ca.us/index.asp)), community events, and through its existence as curb side pickup.
- **City of Clearlake**
  City of Clearlake contracts green waste collection with franchise hauler, Clearlake Waste Solutions. Timberline has many avenues of advertisement for use of its services. Additionally, the City of Clearlake public access channel has outreach programming that advertises the green waste pickup services and availability of the landfill to accept green waste. More in-depth evaluation of existing advertisement or programs available to the public for green waste collection activities was not complete due to staffing time constraints.
- **City of Lakeport**
  City of Lakeport contracts green waste collection with its franchise hauler, Lakeport Disposal. Lakeport Disposal has a weekly curbside green waste collection program as part of the City’s mandatory trash service. Traditional advertising may not be necessary given that each residential household is provided with a 90-gallon green waste container.

Problems in Obtaining Measurable Goals- Staff typically prioritize and concentrate on a portion of the program at any one time due to limited resources, including but not limited to, staffing level, fiscal resources, and Departmental priorities.

BMP Effectiveness- Effective.

Proposed Changes to BMPs and Measurable Goals- None.

Activities Planned for Next Year- Continue advertise green waste collection programs available to the public.

MUNI-4: Litter Control Programs and Activities

**MUNI 4c- Advertise litter control activities and programs available to the public**

BMP Appropriateness- Appropriate to advertise litter control activities and programs available to the general public and also educate the public of the impacts litter has on stormwater quality. Increased public awareness about the impacts of litter on stormwater and what they can do, such as volunteering in community clean up events, using ashtrays and public garbage receptacles, will most likely increase use of using the already-provided garbage receptacles.

County of Lake and City of Lakeport

Measurable Goal Status- Complete-Ongoing.

Measurable Goal Results
- **Lake County Public Works** advertises the Adopt-A-Road Program during Public Works Week and by posting signs at road segments in need of volunteers. Road sections that are adopted are also posted Lake County Adopt-A-Road with the volunteer’s name.
- **Lake County Public Works, Water Resources Division** advertises Creek Clean up events sponsored by the East Lake and West Lake Resource Conservation District on the Water Resources Division web page.
• Lake County Public Services advertises various litter control activities and programs at public events. The nature of programs advertised is dependent upon the timing of event with scheduled litter control programs.

Problems in Obtaining Measurable Goals- None.

BMP Effectiveness- Effective.

Proposed Changes to BMPs and Measurable Goals- None.

Activities Planned for Next Year- Continue advertising litter control activities and programs available to the public. Work on the development of a brochure, on behalf of all co-permittees for the stormwater program, dedicated to litter control activities and programs available to the public.

MUNI-5: MS4 Inspections and Maintenance Activities

MUNI 5b – Develop MS4 inspection and maintenance BMPs

BMP Appropriateness- Appropriate to develop MS4 inspection and maintenance BMPs to be in-line with what is required under increasing water quality regulations.

County of Lake

Measurable Goal Status: Incomplete. Cannot be finished until MS4 Map/GIS Layer is completed.

Measurable Goal Results- The Lake County Watershed Protection District has reviewed municipal maintenance programs from other municipalities in the course of development of a Lake County-specific Municipal Maintenance Guidance Manual. The guidance manual anticipated to be developed from this activity will likely combine pollution prevention practices (MS4 inspection and maintenance BMPs) in use by other municipalities and revised for applicability to a small rural county. The development of MS4 Inspection and Maintenance BMPs and the Guidance Manual could not progress during FY 08/09 because the Department of Public Works has been unable to complete the MS4 outfall mapping.

Problems in Obtaining Measurable Goals- Lack of fiscal resources and staffing to accomplish program tasks.

BMP Effectiveness- Unknown.

Proposed Changes to BMPs and Measurable Goals- None.

Activities Planned for Next Year- Develop MS4 inspection and maintenance BMPs.

City of Clearlake

Measurable Goal Status: 

Measurable Goal Results: The City 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.

Problems in Obtaining Measurable Goals- None

BMP Effectiveness- The annual inspection and cleaning of storm drainage facilities prevents or minimizes the discharge of Stormwater pollutants into the City’s storm drain system and Clearlake.
Section 7  Pollution Prevention and Good Housekeeping for Municipal Operations

Proposed Changes to BMPs and Measurable Goals- It is the City’s intent to have our street sweeping contractor use vacuum equipment to clean storm drain outlets, and catch basins, as funding allows. Otherwise this work element will continue to be done by hand to assure that sediment collected in our storm drain system is cleaned each fall before the rain season begins.

Activities Planned for Next Year- Continue the existing inspection and maintenance BMPs. It is the City’s intent to have our street sweeping contractor use vacuum equipment to clean storm drain outlets, and catch basins, as funding allows. Otherwise this work element will continue to be done by hand to assure that sediment collected in our storm drain system is cleaned each fall before the rain season begins. Using Lake County inmates the City plans to hand clean Burns Valley Creek, Miller Creek, and Molesworth Creek of debris and litter, from creek’s entrance into Clearlake, upstream approximately 1,500 to 2,000 feet. This work will be scheduled in late August and September before the rainy season.

City of Lakeport

Measurable Goal Status- Complete.

Measurable Goal Results- City Public Works Director reports that MS4 inspection and maintenance BMPs as set forth in the CASQA handbook for municipal operations have been implemented.

Problems in Obtaining Measurable Goals- None.

BMP Effectiveness- Presumably effective.

Proposed Changes to BMPs and Measurable Goals- None.

Activities Planned for Next Year- None. Complete.

MUNI 5c – Distribute MS4 Inspection and maintenance BMP information

BMP Appropriateness- Appropriate to distribute information to applicable staff so that they are informed of proper municipal maintenance responsibilities to the Stormwater Program.

County of Lake

Measurable Goal Results- Incomplete.

Problems in Obtaining Measurable Goals- Lack of fiscal resources and staffing to accomplish program tasks.

BMP Effectiveness- Unknown.

Proposed Changes to BMPs and Measurable Goals- None.

Activities Planned for Next Year- Department of Public Works needs to complete MS4 outfall map/GIS layer so that MS4 inspection and maintenance BMPs can be developed and distributed.

City of Clearlake

Measurable Goals Status – Complete

Measurable Goal Results- City Public Works Foreman indicates that storm drain inspection and maintenance BMPs as set forth in the CASQA handbook for municipal operations have been and/or will be distributed to appropriate Public Works Department personnel

Problems in Obtaining Measurable Goals – None
Section 7 Pollution Prevention and Good Housekeeping for Municipal Operations

Proposed Changes to BMPs and Measurable Goals – None

Activities Planned for Next Year – To ensure that all City Public Works personnel involved in storm drain inspection and maintenance activities are knowledgeable on storm water BMPs they will be discussed during regular staff safety and training meetings.

City of Lakeport

Measurable Goal Status- Complete.

Measurable Goal Results- City Public Works Director reports that MS4 inspection and maintenance BMPs as set forth in the CASQA handbook for municipal operations have been and/or will be distributed to appropriate Public Works Department personnel.

Problems in Obtaining Measurable Goals- None.

BMP Effectiveness- Effective per the City’s Public Works Director.

Proposed Changes to BMPs and Measurable Goals- None.

Activities Planned for Next Year- Ensure that all City Public Works personnel involved in MS4 inspection and maintenance activities are provided with the appropriate BMPs.

MUNI 5d – Implement MS4 Inspection and maintenance BMP to the maximum extent practicable.

BMP Appropriateness- Appropriate to implement MS4 inspection and maintenance BMPs to increase the program effectiveness through regular inspections and maintenance procedures.

County of Lake

Measurable Goal Results- Incomplete.

Problems in Obtaining Measurable Goals- Lack of fiscal resources and staffing to accomplish program tasks.

BMP Effectiveness- Unknown.

Proposed Changes to BMPs and Measurable Goals- None.

Activities Planned for Next Year- Continue with the development of MS4 inspection and maintenance BMPs to be distributed to all appropriate staff. Begin Implementation of MS4 inspection and maintenance BMPs to the maximum extent practicable.

City of Clearlake

Measurable Goal Results – Inspection and maintenance BMPs have been implemented as indicated in section 5b.

Problems in Obtaining Measurable Goals - None

BMP Effectiveness – Effective

Proposed Changes to BMPs and Measurable Goals – None

Activities Planned for Next Year - Continue the City’s existing inspection and maintenance BMPs. To ensure that all City Public Works personnel involved in storm drain inspection and maintenance activities are knowledgeable on storm water BMP’s they will be discussed during regular staff safety and training
meetings. It is the City’s intent to have our street sweeping contractor use vacuum equipment to clean storm drain outlets, and catch basins, as funding allows. Otherwise this work element will continue to be done by hand to assure that sediment collected in our storm drain system is cleaned each fall before the rain season begins. Using Lake County inmates the City plans to hand clean Burns Valley Creek, Miller Creek, and Molesworth Creek of debris and litter, from creek’s entrance into Clearlake, upstream approximately 1,500 to 2,000 feet. This work will be scheduled in late August and September before the rainy season.

City of Lakeport

Measurable Goal Status- Complete-Ongoing.

Measurable Goal Results- City Public Works Director reports that appropriate MS4 inspection and maintenance BMPs have been implemented. One notable BMP is the inspection, maintenance and cleaning of all MS4 drop inlets prior to the rainy season. Drop inlets are also monitored for sediment accumulations during the rainy season.

Problems in Obtaining Measurable Goals- None.

BMP Effectiveness- Effective per the City’s Public Works Director.

Proposed Changes to BMPs and Measurable Goals- None.

Activities Planned for Next Year- Continue using MS4 inspection and maintenance BMPs as appropriate.

MUNI 5e - Document Problem Areas

BMP Appropriateness- Appropriate to document problem areas as revealed through the MS4 inspection and maintenance program. Problem areas may require a modified approach to maintenance, maintenance scheduling, or a change in BMP used.

County of Lake and City of Clearlake

Measurable Goal Results- Incomplete.

Problems in Obtaining Measurable Goals- Lack of fiscal resources and staffing to accomplish program tasks.

BMP Effectiveness- Unknown.

Proposed Changes to BMPs and Measurable Goals- None.

Activities Planned for Next Year- Document problem areas revealed during implementation of BMP inspection and maintenance of BMPs.

City of Clearlake

Measurable Goal Status – Complete

Measurable Goal Result – The storm drainage systems along Lakeshore Drive are considered a potential problem area, because Lakeshore Drive fronts onto Clearlake, and thus given a higher priority in maintaining a higher level of inspection and maintenance BMPs. The City Public Works Department has identified the following natural creeks that flow into Clearlake along Lakeshore Drive, or Old Highway 53: Burns Valley Creek, Miller Creek, and Molesworth Creek.

Problems in Obtaining Measurable Goals – None
Proposed Changes to BMPs and Measurable Goals – The City of Clearlake has established a higher priority to the following creeks that drain into Clearlake: Burns Valley Creek, Miller Creek, and Molesworth Creek. Using Lake County inmates the City of Clearlake plans to hand clean Burns Valley Creek, Miller Creek, and Molesworth Creek of debris and litter, from creek’s entrance into Clearlake, upstream approximately 1,500 to 2,000 feet. This work will be scheduled in late August and September before the rainy season.

Activities Planned for next Year – Continue the City’s annual inspection and maintenance BMP program. Investigate the possibility obtaining grants to allow the City to add a GIS layer of the City’s Stormwater System to its existing GIS mapping system.

City of Lakeport

Measurable Goal Status- Complete.

Measurable Goal Results- According to the City Public Works Director, all MS4 facilities in the City’s historic downtown area and near water bodies such as Clear Lake and Forbes Creek are considered “problem areas” that warrant extra consideration.

Problems in Obtaining Measurable Goals- None.

BMP Effectiveness- Effective per the City’s Public Works Director.

Proposed Changes to BMPs and Measurable Goals- None.

Activities Planned for Next Year- Continue the City’s annual inspection and maintenance program. Investigate usefulness of integrating MS4 “problem areas” into City’s GIS database.

Table 7.2 Status and effectiveness of MUNI Stormwater Pollutant Control/Removal Programs Best Management Practices (BMPs) scheduled for implementation in Fiscal Year 2008/2009.

<table>
<thead>
<tr>
<th>BMP #</th>
<th>DESCRIPTION</th>
<th>MEASURABLE GOAL</th>
<th>CO-PERMITTEES</th>
<th>STATUS</th>
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<td>Complete</td>
<td>Incomplete</td>
<td>Ongoing</td>
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<td>MUNI 2a</td>
<td>Evaluate and document current street sweeping practices.</td>
<td>Street sweeping practices evaluated.</td>
<td>County of Lake</td>
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<td></td>
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<tr>
<td>MUNI 2b</td>
<td>Develop/revise street sweeping BMPs.</td>
<td>BMPs developed.</td>
<td>County of Lake</td>
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<tr>
<td>MUNI 2c</td>
<td>Implement street sweeping BMPs.</td>
<td>Implement street sweeping BMPs.</td>
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## MUNICIPAL OPERATIONS STORMWATER MANAGEMENT

### MUNI-6: Review and evaluate impacts to stormwater from existing road repair and maintenance activities

#### MUNI 6b Develop road repair and maintenance BMPs
BMP Appropriateness - Appropriate to develop road repair and maintenance BMPs as traffic use and climatic conditions place demands on road maintenance and repair. Pollutants found on roads and streets vary depending upon the presence of roadside vegetation, herbicide use, vehicle spills, and winter de-icing applications. Pollution constituents include heavy metals, particulates, petroleum products, and herbicides.

County of Lake

Measurable Goal Status - Complete

Measurable Goal Results: Complete. An ordinance amending Chapter 29 of the Lake County Code (Storm Water Ordinance) was adopted on August 28, 2007. The amending ordinance adopted the CASQA “Best Management Practices Handbook”, which includes road maintenance and repair BMPs.

Problems in Obtaining Measurable Goals - None

BMP Effectiveness - Unknown, Effective.

Proposed Changes to BMPs and Measurable Goals - None.

Activities Planned for Next Year - None needed.

City of Clearlake

Measurable Goal Results –The City of Clearlake performs very little asphalt repair and maintenance due to funding constraints. The City has over 50 miles of unpaved streets that it maintains. The unpaved roads are graded and additional road base is added to the surface of the road annually during the summer months. The impacts to Stormwater are minimal from the asphalt patching and paving that the City performs on a regular basis. To reduce the impacts from the road grading operation moisture is added and the surface is compacted to tighten the surface and reduce the potential of loose sediment from enter the City’s drainage channels and streams and ultimately Clear Lake.

Problems in Obtaining Measurable Goals - It is difficult to determine a measurable goal when you impacts are minimal, as is the case with out street patching and grading operation. A minimum goal should be to reduce small particles of asphalt and small gravel from reaching the City’s drainage channels and creeks.

BMP Effectiveness –Unknown—probably minimally effective.

Proposed Changes to BMPs and Measurable Goals – None

Activities Planned for Next Year - Reduce as much as possible the amount of pollutants from asphalt patching and paving mix and small gravels and sand from the City’s grading operations from entering the City’s drainage channels and creeks.

City of Lakeport

Measurable Goal Status - Complete.


Problems in Obtaining Measurable Goals- None.

BMP Effectiveness- Effective.

Proposed Changes to BMPs and Measurable Goals- None.
Section 7  Pollution Prevention and Good Housekeeping for Municipal Operations

Activities Planned for Next Year- None. Complete.

**MUNI 6c Distribute road repair and maintenance BMP Information**

**BMP Appropriateness**- Appropriate to distribute road repair and maintenance BMPs information to maintenance personnel charged with road repair/maintenance to provide an understanding of the constituents affecting water quality and to increase awareness regarding the efficacy of the appropriate BMPs.

**County of Lake**

**Measurable Goal Status**- The Department of Public Works has adopted the Caltrans storm water management plan BMP’s and is distributing this along with training materials to staff in the three road yards, Central Garage/ISF and the Paint and Sign shop.

**Measurable Goal Results**: Complete, Ongoing as methods and technologies continue to evolve.

Problems in Obtaining Measurable Goals- None.

**BMP Effectiveness**- Presumably effective.

**Proposed Changes to BMPs and Measurable Goals**- None.

**Activities Planned for Next Year**- Continue to distribute road maintenance and repair BMP information by way of training CD’s or videos and hands on trainings.

**City of Clearlake**

**Measurable Goal Results** - The City should follow its existing procedures for reducing pollutants from Asphalt patching and paving projects. In 2007 the City adopted the CASQA handbook for municipal operations and the BMPs recommended in that handbook has been and/or will be distributed to the appropriate Public Works Department personnel and discussed at regular staff briefings, and meetings.

Problems in Obtaining Measurable Goals- None.

**BMP Effectiveness** – Effective

**Proposed Changes to BMPs and Measurable Goals** – None

**Activities Planned for Next Year** - Ensure that Public Works personnel involved in street repair and maintenance are provide with the appropriate BMP information and that those BMPs are implemented.

**City of Lakeport**

**Measurable Goal Status**- Complete.

**Measurable Goal Results**: City Public Works Director reports that road repair and maintenance BMPs as set forth in the CASQA handbook for municipal operations have been and/or will be distributed to appropriate Public Works Department personnel. BMPs are also discussed amongst Public Works personnel at weekly safety briefings and at quarterly “awareness” meetings. A new program called “Project Meeting” was implemented this year. Every project that has a possible impact on water quality has a pre-construction meeting to review BMP’s that will be used on the project.

Problems in Obtaining Measurable Goals- None.

**BMP Effectiveness**- Presumably effective.
Proposed Changes to BMPs and Measurable Goals: None.

Activities Planned for Next Year: Ensure that Public Works personnel involved with road repair and maintenance activities are provided with the appropriate BMPs.

**MUNI 7: Material Storage Practices**

*MUNI 7b – Develop material storage BMPs*

BMP Appropriateness: Appropriate to develop material storage BMPs for the protection of water quality. Effective material storage and management requires the proper selection of products, the correct usage of the product, accurate inventory of hazardous material, an up-to-date MSDS library, and responsible disposal of the product(s).

**County of Lake**

Measurable Goal Results: In August 2007 the County adopted the Municipal Operations BMP Handbook produced by CASQA which includes oil, grease and chemical control BMPs for the protection of water quality.

Problems in Obtaining Measurable Goals: None.

BMP Effectiveness: Effective.

Proposed Changes to BMPs and Measurable Goals: None.

Activities Planned for Next Year: None Complete

**City of Clearlake**

Measurable Goal Results: In 2007 City adopted the Municipal Operations BMP Handbook produced by CASQA which includes material storage BMPs.

Problems in Obtaining Measurable Goals: None

BMP Effectiveness: Effective.

Proposed Changes to BMPs and Measurable Goals: None.

Activities Planned for Next Year: None Complete

**City of Lakeport**

Measurable Goal Status: Complete.

Measurable Goal Results: In 2006 the City adopted the Municipal Operations BMP Handbook produced by CASQA which includes material storage BMPs.

Problems in Obtaining Measurable Goals: None.

BMP Effectiveness: Effective.

Proposed Changes to BMPs and Measurable Goals: None.

Activities Planned for Next Year: None. Complete.
Section 7  Pollution Prevention and Good Housekeeping for Municipal Operations

MUNI 7c – Distribute material storage BMP information

County of Lake

BMP Appropriateness- Appropriate to distribute material storage BMP information to applicable staff to inform staff about the safe storage of potentially polluting and hazardous material.

Measurable Goal Results-The Department of Public Works has adopted the Caltrans storm water management plan, which includes material storage BMP information, and has distributed it to muni staff.

Problems in Obtaining Measurable Goals- None.

BMP Effectiveness- Presumably effective as staff will follow well established BMP’s for materials storage.

Proposed Changes to BMPs and Measurable Goals- None.

Activities Planned for Next Year – None.

City of Clearlake

Measurable Goal Status – Complete.

Measurable Goal Results: The City Public Works Foreman reports that storage BMPs as set for the in the CASQA handbook for municipal operations have been and/or will be distributed to the appropriate Public Works personnel and that BMPs are and will be discussed in staff briefings and meetings.

Proposed Changes to BMPs and Measurable Goals – None

Activities Planned for Next Year – Ensure that Public Works personnel involved in the storage of materials at the City’s Corporation Yard are provided with the appropriate BMP information, and that the BMPs are implemented.

City of Lakeport

Measurable Goal Status- Complete.

Measurable Goal Results: City Public Works Director reports that material storage BMPs as set forth in the CASQA handbook for municipal operations have been and/or will be distributed to appropriate Public Works Department personnel. BMPs are also discussed amongst Public Works personnel at weekly safety briefings and at quarterly “awareness” meetings.

Problems in Obtaining Measurable Goals- None.

BMP Effectiveness- Presumably effective.

Proposed Changes to BMPs and Measurable Goals- None.

Activities Planned for Next Year- Ensure that Public Works personnel involved with storage material activities are provided with the appropriate BMPs.

MUNI 7d – Implement material storage BMP to the maximum extent practicable

BMP Appropriateness- Appropriate to implement material storage BMPs to reduce the potential of accidental spills or releases of hazardous materials during storm events. By implementation, health and safety at the facility, and water quality will be ensured.
Section 7 Pollution Prevention and Good Housekeeping for Municipal Operations

County of Lake

Measurable Goal Results - The Department of Public Works has implemented BMPs as outlined in the Caltrans Storm Water plan, the Department has also purchased BMPs for each road yard.

Problems in Obtaining Measurable Goals - Lack of fiscal resources and staffing to accomplish program tasks.

BMP Effectiveness - Effective.

Proposed Changes to BMPs and Measurable Goals - None.

Activities Planned for Next Year –
- Continue the deployment of material storage BMPs.
- Assess BMP effectiveness and modify as needed.

City of Clearlake

Measurable Goal Status – Complete - Ongoing

Measurable Goal Results – Complete-Ongoing.

Problems in Obtaining Measurable Goals - The City Public Works Foreman reports that appropriate material storage BMPs have been implemented at the City’s Corporation Yard.

BMP Effectiveness – Effective.

Proposed Changes to BMPs and Measurable Goals – None

Activities Planned for Next Year - Use the material storage BMPs as appropriate and recommended in the CASQA handbooks.

City of Lakeport

Measurable Goal Status- Complete-Ongoing.

Measurable Goal Results- City Public Works Director reports that appropriate material storage BMPs have been implemented at the City’s corporation yard.

Problems in Obtaining Measurable Goals- None.

BMP Effectiveness- Effective per the City’s Public Works Director.

Proposed Changes to BMPs and Measurable Goals- None.

Activities Planned for Next Year- Continue using material storage BMPs as appropriate.

MUNI-8: Review and evaluate existing chemical, solvents, oil and greases controls

MUNI 8b- Develop appropriate oil, grease and chemical control BMPs

BMP Appropriateness- Appropriate to develop appropriate oil, grease and chemical control best management practices for the protection of water quality.

County of Lake
Section 7 Pollution Prevention and Good Housekeeping for Municipal Operations

Measurable Goal Results: In August 2007 the County adopted the Municipal Operations BMP Handbook produced by CASQA which includes oil, grease and chemical control BMPs for the protection of water quality.

Problems in Obtaining Measurable Goals: None.

BMP Effectiveness: Effective

Proposed Changes to BMPs and Measurable Goals: None.

Activities Planned for Next Year: None. Complete

City of Clearlake

Measurable Goal Results: In 2007 the City adopted the Municipal Operations BMP Handbook produced by CASQA which includes oil, grease and chemical control BMPs for the protection of water quality.

Problems in Obtaining Measurable Goals: None

BMP Effectiveness: Effective.

Proposed Changes to BMPs and Measurable Goals: None.

Activities Planned for Next Year: None. Complete.

City of Lakeport

Measurable Goal Status: Complete.

Measurable Goal Results: In 2006 the City adopted the Municipal Operations BMP Handbook produced by CASQA which includes oil, grease and chemical control BMPs for the protection of water quality.

Problems in Obtaining Measurable Goals: None.

BMP Effectiveness: Effective.

Proposed Changes to BMPs and Measurable Goals: None.

Activities Planned for Next Year: None. Complete. Review BMP’s and investigate the storage issue to determine if any new technology is available to improve safe storage.

MUNI 8c- Distribute oil, grease and chemical control BMP information

BMP Appropriateness: Appropriate to distribute information to applicable staff so that they are informed of proper oil, grease and chemical control BMPs and how they relate to the protection of water quality.

County of Lake

Measurable Goal Results: Complete. The Department of Public Works has implemented BMP’s as outlined in the Caltrans Storm Water plan for corporation yards.

Problems in Obtaining Measurable Goals: None.

BMP Effectiveness: Presumably effective as staff will follow well established BMP’s for yard operations

Proposed Changes to BMPs and Measurable Goals: None.

Activities Planned for Next Year: Assess effectiveness of BMP’s and modify if needed.
Section 7 Pollution Prevention and Good Housekeeping for Municipal Operations

City of Clearlake

Measurable Goal Status – Complete

Measurable Goal Result: The City Public Work Foreman has indicated that oil, grease and chemical BMPs as set forth in the CASQA handbook for municipal operations have been and/or will be distributed to the appropriate Public Works personnel. BMPs are also discussed during staff briefings and meetings.

Problems in Obtaining Measurable Goals – None

BMP Effectiveness – Effective in assuring knowledge and awareness of the BMPs.

Proposed Changes to BMPs and Measurable Goals - None

Activities Planned for Next Year – Provide all Public Works personnel responsible for oil, grease and chemical control activities with information on the appropriate BMPs.

City of Lakeport

Measurable Goal Status- Complete.

Measurable Goal Results: City Public Works Director reports that oil, grease and chemical BMPs as set forth in the CASQA handbook for municipal operations have been and/or will be distributed to appropriate Public Works Department personnel. BMPs are also discussed amongst Public Works personnel at weekly safety briefings and at quarterly “awareness” meetings.

Problems in Obtaining Measurable Goals- None.

BMP Effectiveness- Presumably effective.

Proposed Changes to BMPs and Measurable Goals- None.

Activities Planned for Next Year- Ensure that Public Works personnel responsible for oil, grease and chemical control activities are provided with the appropriate BMPs.

MUNI 8d- Implement oil, grease and chemical control BMP

BMP Appropriateness- Appropriate to implement oil, grease and chemical control BMPs for the protection of water quality.

County of Lake

Measurable Goal Results- Incomplete.

Problems in Obtaining Measurable Goals- Lack of fiscal resources and staffing to accomplish program tasks.

BMP Effectiveness- Unknown.

Proposed Changes to BMPs and Measurable Goals- None.

Activities Planned for Next Year- Develop oil, grease and chemical control BMPs so that they may be distributed and implemented.

City of Clearlake

Measurable Goal Results – City Public Works Foreman indicates that appropriate oil, grease and chemical control BMPs have been implemented at the City’s corporation yard. Oil, grease and similar
products are stored in accordance with the recommended BMPs. Oil, grease, etc. are also properly recycled. Other BMPs are used as needed.

Problems in Obtaining Measurable Goals - None

BMP Effectiveness – Effective

Proposed Changes to BMPs and Measurable Goals – None

Activities Planned for Next Year - The City will continue using oil, grease and chemical control BMPs as appropriate.

City of Lakeport

Measurable Goal Status- Complete-Ongoing.

Measurable Goal Results- City Public Works Director reports that appropriate oil, grease and chemical control BMPs have been implemented at the City’s corporation yard. Oil, grease and similar products are stored in accordance with the recommended BMPs. Oil, grease, etc. are also properly recycled. Other BMPs are used as needed.

Problems in Obtaining Measurable Goals- None.

BMP Effectiveness- Effective per the City’s Public Works Director.

Proposed Changes to BMPs and Measurable Goals- None.

Activities Planned for Next Year- Continue using oil, grease and chemical control BMPs as appropriate.

MUNI-9: Corporation Yard Drainage

MUNI 9a – Evaluate and map site drainage at corporation yards

BMP Appropriateness- Appropriate to have an understanding of drainage patterns at corporation yards so that municipal maintenance staff are able to respond to spills more effectively, plan outside work in areas less subject to stormwater run-off and place material stockpiles in more appropriate locations away from stormwater run-off.

County of Lake

Measurable Goal Results- Complete. Site drainage maps have been prepared for each of the road yards and Central Garage/ISF.

Problems in Obtaining Measurable Goals- None.

BMP Effectiveness- Unknown.

Proposed Changes to BMPs and Measurable Goals- None.

Activities Planned for Next Year- Attempt to obtain topographical maps of site drainage at corporation yards.

City of Clearlake

Measurable Goal Status – Complete
Section 7 Pollution Prevention and Good Housekeeping for Municipal Operations

**Measurable Goal Results** - The City has a GIS topographic map of its City Corporation Yard which provides Public Works staff with a general knowledge of the corporation yard’s drainage patterns.

**Problems in Obtaining Measurable Goals** – None

**BMP Effectiveness** – Effective

**Activities Planned for Next Year** - None

**City of Lakeport**

**Measurable Goal Status** - Complete.

**Measurable Goal Results** - The City of Lakeport has detailed topographic data of its Martin Street corporation yard. Said data provides staff with a general knowledge of the site’s drainage patterns.

**Problems in Obtaining Measurable Goals** - None.

**BMP Effectiveness** - Effective.

**Proposed Changes to BMPs and Measurable Goals** - None.

**Activities Planned for Next Year** - None.

**MUNI 9b – Based on issues revealed in site drainage evaluation and mapping, develop appropriate BMPs.**

**BMP Appropriateness** - Appropriate to have an understanding of drainage patterns at corporation yards to develop BMPs for stormwater run-off.

**County of Lake**

**Measurable Goal Results** - Complete. The Department of Public Works has implemented BMP’s as outlined in the Caltrans Storm Water plan for corporation yards.

**Problems in Obtaining Measurable Goals** - None.

**BMP Effectiveness** - Presumably effective as staff will follow well established BMP’s for yard operations.

**Proposed Changes to BMPs and Measurable Goals** - None.

**Activities Planned for Next Year** - Attempt to obtain topographical maps to evaluate site drainage patterns and characteristics at corporation yards for development of appropriate BMPs.

**City of Clearlake**

**Measurable Goal Status** - Complete

**Measurable Goal Results** – The City’s Corporation Yard is in compliance with BMPs as set forth in the CASQA handbook adopted by the City.

**Problems in Obtaining Measurable Goals** – None

**BMP Effectiveness** – Unknown

**Proposed Changes to BMPs and Measurable Goals** – None
Activities Planned for Next Year - Insure that site drainage patterns are taken into consideration when implementing BMPs in the City’s Corporation Yard.

**City of Lakeport**

Measurable Goal Status- Complete.

Measurable Goal Results- According to the City’s Public Works Director, the drainage patterns at the corporation yard resulted in the relocation of the street sweeper washout area. All washouts are now done in a contained area that is provided with a concrete surface.

Problems in Obtaining Measurable Goals- None.

BMP Effectiveness- Effective.

Proposed Changes to BMPs and Measurable Goals- None.

Activities Planned for Next Year- Continue to take site drainage patterns into consideration in conjunction with typical corporation yard work activities.

*MUNI 9c – Implement BMPs to the maximum extent practicable.*

BMP Appropriateness- Appropriate to implement BMPs at corporation yards to prevent storm water pollution.

**County of Lake**

Measurable Goal Results- Complete. The Department has installed BMP’s around the parameter of the corporation yards and drainage structures within the corporation yards.

Problems in Obtaining Measurable Goals- None.

BMP Effectiveness- Presumably effective. Installed BMP’s are based upon Caltrans standards.

Proposed Changes to BMPs and Measurable Goals- None.

Activities Planned for Next Year- Assess effectiveness of BMP’s and modify as needed.

**City of Clearlake**

Measurable Goal Results – The City’s Public Works Foreman indicates that appropriate BMPs as set forth in the CASQA handbook for municipal operations have been implemented

Problems in Obtaining Measurable Goals - None

BMP Effectiveness – Effective

Proposed Changes to BMPs and Measurable Goals – None

Activities Planned for Next Year - Continue incorporating BMPs into the typical activities at the City of Clearlake’s Corporation Yard.

**City of Lakeport**

Measurable Goal Status- City Public Works Director reports that appropriate BMPs as set forth in the CASQA handbook for municipal operations have been implemented and will continue to be implemented and reviewed moving regularly.
Measurable Goal Results: Certain practices at the City’s corporation yard have been modified in order to prevent storm water pollution.

Problems in Obtaining Measurable Goals: None

BMP Effectiveness: Effective

Proposed Changes to BMPs and Measurable Goals: None

Activities Planned for Next Year: Continue practice of incorporating BMPs into typical activities at the City of Lakeport corporation yard. Perform a review of current BMP’s and determine if changes are needed.

MUNI-10: Parks, open space, building and grounds operations

*MUNI 10b- Develop BMP information for parks, open space, and building and grounds operations*

BMP Appropriateness: Appropriate to develop appropriate best management practices for parks open space and building and grounds operations for the protection of water quality.

County of Lake

Measurable Goal Results: Complete. In August 2007 the County adopted the Municipal Operations BMP Handbook produced by CASQA, which includes BMPs related to maintenance of parks and open space areas as well as building and grounds.

Problems in Obtaining Measurable Goals: None.

BMP Effectiveness: Effective.

Proposed Changes to BMPs and Measurable Goals: None.

Activities Planned for Next Year: None.

City of Clearlake

Measurable Goal Results: In 2007 the City adopted the Municipal Operations BMP Handbook produced by CASQA which includes BMPs related to maintenance of parks and open space areas as well as building and grounds operations.

Problems in Obtaining Measurable Goals: None

BMP Effectiveness: Effective

Proposed Changes to BMPs and Measurable Goals: None.

Activities Planned for Next Year: None Complete

City of Lakeport

Measurable Goal Status: Complete.

Measurable Goal Results: In 2006 the City adopted the Municipal Operations BMP Handbook produced by CASQA which includes BMPs related to maintenance of parks and open space areas as well as building and grounds operations.
Section 7  Pollution Prevention and Good Housekeeping for Municipal Operations

Problems in Obtaining Measurable Goals- None.

BMP Effectiveness- Effective.

Proposed Changes to BMPs and Measurable Goals- None.

Activities Planned for Next Year- None. Complete.

**MUNI 10c- Distribute BMP information for parks, open space, and building and grounds operations**

BMP Appropriateness- Appropriate to distribute information to applicable staff so that they are informed of and practice water quality friendly practices for parks, open space and building and grounds maintenance activities.

**County of Lake**

Measurable Goal Results- Complete. The Department of Public Services has developed “Municipal Housekeeping Practices” based upon the adopted CASQA Handbook, and has distributed these in the form of a checklist for use by their field staff for Parks and Buildings and Grounds.

Problems in Obtaining Measurable Goals- None.

BMP Effectiveness- Effective.

Proposed Changes to BMPs and Measurable Goals- None.

Activities Planned for Next Year- None.

**City of Clearlake**

Measurable Goal Status – Complete

Measurable Goal Results: City Public Works Foreman reports that BMPs related to parks, open space and building and grounds maintenance activities have been and/or will be distributed to appropriate Public Works Department personnel. BMPs are set forth in the CASQA handbook for municipal operations. Water quality BMPs are also discussed with Public Works personnel at staff briefings and meetings.

BMP Effectiveness – Effective

Proposed Changes to BMPs and Measurable Goals – None

Activities Planned for Next Year - Ensure that Public Works personnel and volunteers responsible for maintenance activities at the City’s parks, open space areas, and municipal buildings/grounds are provided with the appropriate BMPs.

**City of Lakeport**

Measurable Goal Status- Complete.

Measurable Goal Results: City Public Works Director reports that BMPs related to parks, open space and building and grounds maintenance activities have been and/or will be distributed to appropriate Public Works Department personnel. BMPs are also provided to citizen members of the Westside Park Committee who are involved with the maintenance/operation of the Westside Community Park. Said BMPs are set forth in the CASQA handbook for municipal operations. Water quality BMPs are also
discussed amongst Public Works personnel at weekly safety briefings and at quarterly “awareness” meetings.

Problems in Obtaining Measurable Goals- None.

BMP Effectiveness- Presumably effective.

Proposed Changes to BMPs and Measurable Goals- None.

Activities Planned for Next Year- Ensure that Public Works personnel and volunteers responsible for maintenance activities at the City’s parks, open space areas, and municipal buildings/grounds are provided with the appropriate BMPs. Follow up to insure that all employees have current BMP’s.

**MUNI 10d- Implement BMPs to the maximum extent practicable**

BMP Appropriateness- Appropriate to implement BMPs to the maximum extent practicable for parks, open space and building and grounds maintenance activities.

**County of Lake**

Measurable Goal Results- Complete, Ongoing. The County Public Services Department has indicated that appropriate BMP’s are implemented in conjunction with maintenance of the County’s parks and municipal buildings. A checklist was also developed to aid field staff with following all applicable BMP’s.

Problems in Obtaining Measurable Goals- None.

BMP Effectiveness- Effective.

Proposed Changes to BMPs and Measurable Goals- None.

Activities Planned for Next Year- Continue using appropriate BMPs in conjunction with maintenance activities at the County’s parks, open space areas, and municipal buildings/grounds.

**City of Clearlake**

Measurable Goal Results Complete - Ongoing.

Problems in Obtaining Measurable Goals - City Public Works Foreman reports that appropriate BMPs are used in conjunction with maintenance activities at the City’s parks, open space areas, and municipal buildings/grounds.

BMP Effectiveness – Effective

Proposed Changes to BMPs and Measurable Goals – None

Activities Planned for Next Year - Continue using appropriate BMPs in conjunction with maintenance activities at the City’s parks, open space areas, and municipal buildings/grounds.

**City of Lakeport**

Measurable Goal Status- Complete-Ongoing.

Measurable Goal Results- City Public Works Director reports that appropriate BMPs are used in conjunction with maintenance activities at the City’s parks, open space areas, and municipal buildings/grounds.

Problems in Obtaining Measurable Goals- None.
Section 7  Pollution Prevention and Good Housekeeping for Municipal Operations

**BMP Effectiveness** - Effective per the City’s Public Works Director.

**Proposed Changes to BMPs and Measurable Goals** - None.

**Activities Planned for Next Year** - Continue using appropriate BMPs in conjunction with maintenance activities at the City’s parks, open space areas, and municipal buildings/grounds.

### Table 7.3  Status and effectiveness of Municipal Operations Stormwater Management Best Management Practices (BMPs) scheduled for implementation in Fiscal Year 2008/2009.

<table>
<thead>
<tr>
<th>BMP #</th>
<th>DESCRIPTION</th>
<th>MEASURABLE GOAL</th>
<th>CO-PERMITTEES</th>
<th>STATUS</th>
<th>EFFECTIVE</th>
<th>MODIFIED</th>
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<tbody>
<tr>
<td>MUNI 6b</td>
<td>Develop road repair and maintenance BMPs</td>
<td>BMPs developed and documented</td>
<td>County of Lake</td>
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<tr>
<td>MUNI 6c</td>
<td>Distribute road repair and maintenance BMP Information</td>
<td>Inspection and maintenance information distributed to applicable staff</td>
<td>County of Lake</td>
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<tr>
<td>MUNI 7b</td>
<td>Develop material storage BMPs</td>
<td>BMPs developed and documented</td>
<td>County of Lake</td>
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<td>MUNI 7c</td>
<td>Distribute material Storage BMP information</td>
<td>Material storage information distributed to applicable staff</td>
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<tr>
<td>MUNI 7d</td>
<td>Implement material storage BMP to the maximum extent practicable</td>
<td>BMPs implemented and revised as appropriate</td>
<td>County of Lake</td>
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<tr>
<td>MUNI 8b</td>
<td>Develop appropriate oil, grease and chemical control BMPs</td>
<td>BMPs developed and documented</td>
<td>County of Lake</td>
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<td>MUNI 8c</td>
<td>Distribute oil, grease and chemical control BMP information</td>
<td>Information distributed to applicable staff</td>
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### Section 7  
**Pollution Prevention and Good Housekeeping for Municipal Operations**

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<tr>
<th>BMP #</th>
<th>DESCRIPTION</th>
<th>MEASURABLE GOAL</th>
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<td>Lakeport</td>
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<tr>
<td>MUNI 8d</td>
<td>Implement oil, grease and chemical control BMP</td>
<td>BMPs implemented and revised as appropriate</td>
<td>County of Lake</td>
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<td>MUNI 9a</td>
<td>Evaluate and map site drainage at corporation yards.</td>
<td>Site drainage map and evaluation.</td>
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<td>MUNI 9b</td>
<td>Based on issues revealed in site drainage evaluation and mapping, develop appropriate BMPs</td>
<td>BMPs developed</td>
<td>County of Lake</td>
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<td>MUNI 9c</td>
<td>Implement BMPs to the maximum extent practicable</td>
<td>BMPs implemented and revised as appropriate</td>
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<td>MUNI 10b</td>
<td>Develop BMPs as needed.</td>
<td>BMPs developed and documented.</td>
<td>County of Lake</td>
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<tr>
<td>MUNI 10c</td>
<td>Distribute BMP information.</td>
<td>Information distributed to applicable staff.</td>
<td>County of Lake</td>
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<td>MUNI 10d</td>
<td>Implement BMPs to the maximum extent practicable.</td>
<td>BMPs implemented and revised as appropriate</td>
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### COORDINATION AND TRAINING

**MUNI-11:** Keep municipal maintenance employees informed on stormwater related issues and streamline communications
Section 7 Pollution Prevention and Good Housekeeping for Municipal Operations

**MUNI 11a – Investigate the feasibility of providing internet and email capabilities to county municipal maintenance employees**

**BMP Appropriateness**- Appropriate to have internet and email capabilities for County municipal maintenance employees. Internet access allows employees to research current technologies and trends for all aspects of their work. Email capabilities enable information exchange in an efficient manner.

**County of Lake**

**Measurable Goal Results** - Complete-All road yards and central garage have internet and email capability.

**Problems in Obtaining Measurable Goals**- None.

**BMP Effectiveness**- Unknown.

**Proposed Changes to BMPs and Measurable Goals**- None.

**Activities Planned for Next Year**- None-complete.

**City of Clearlake and City of Lakeport** – Not Applicable

**MUNI 11b – Develop or revise a pollution prevention training program for municipal staff**

**BMP Appropriateness**- Appropriate to develop a pollution prevention training program for municipal maintenance staff. Through an appropriate training program municipal maintenance staff can be kept informed of current regulations and the County SWMP, new requirements on how to conduct day to day operations with consideration of protecting water quality, and record keeping and reporting protocols to track program pitfalls and successes for adaptive management and aid in the annual reporting process.

**County of Lake and City of Lakeport**

**Measurable Goal Results**- Incomplete.

**Problems in Obtaining Measurable Goals**- Lack of fiscal resources and staffing to accomplish program tasks.

**BMP Effectiveness**- Unknown.

**Proposed Changes to BMPs and Measurable Goals**- None.

**Activities Planned for Next Year**- Complete a Municipal Maintenance Practices Guidance Manual and development of the accompanying training program.

**City of Clearlake**

**Measurable Goal Results**- The City of Clearlake has formal adopted the CASQA BMP handbooks, including the handbook for Municipal Operations. The CASQA handbook is used by our Public Works Director in training our public works employees during regular staff and safety meetings on the BMP’s for the maintenance and washing of equipment, pesticide application practices, waste and storage disposal, storm drain inspection and cleaning practices, and street repair activities.

**Problems in Obtaining Measurable Goals**- Due to the City’s very small Public Works Department staff, and financial resources it is difficult to provide formal training programs. The City does the best it can in providing proper training for its employees engage in municipal operations and maintenance..

**BMP Effectiveness**- Unknown.
Section 7 Pollution Prevention and Good Housekeeping for Municipal Operations

Proposed Changes to BMPs and Measurable Goals- None.

Activities Planned for Next Year- Continue to provide regular training using the CASQA handbooks on the BMP’s for the maintenance and washing of equipment, pesticide application practices, waste and storage disposal, storm drain inspection and cleaning practices, and street repair activities. In addition the City should work with the City of Lakeport and Lake County to develop any additional training aides that may be appropriate.

MUNI 11c – Conduct training workshops focusing on the storm water program and BMP implementation

BMP Appropriateness- Appropriate to conduct training workshops for MUNI staff focusing on the storm water program and BMPs.

County of Lake

Measurable Goal Results- Incomplete.

Problems in Obtaining Measurable Goals- Lack of fiscal resources and staffing to accomplish program tasks.

BMP Effectiveness- Unknown.

Proposed Changes to BMPs and Measurable Goals- None.

Activities Planned for Next Year- Complete the Municipal Maintenance Practices Guidance Manual and develop the accompanying training program so training workshops can be conducted.

City of Clearlake

Measurable Goal Results- The City of Clearlake has formal adopted the CASQA BMP handbooks, including the handbook for Municipal Operations. The CASQA handbook is used by our Public Works Director in training our public works employees during regular staff and safety meetings on the BMP’s for the maintenance and washing of equipment, pesticide application practices, waste and storage disposal, storm drain inspection and cleaning practices, and street repair activities.

Problems in Obtaining Measurable Goals- Due to the City’s very small Public Works Department staff, and financial resources it is difficult to provide formal training programs. The City does the best it can in providing proper training for its employees engage in municipal operations and maintenance.

BMP Effectiveness- Unknown.

Proposed Changes to BMPs and Measurable Goals- None.

Activities Planned for Next Year- Continue to provide regular training using the CASQA handbooks on the BMP’s for the maintenance and washing of equipment, pesticide application practices, waste and storage disposal, storm drain inspection and cleaning practices, and street repair activities. In addition the City should work with the City of Lakeport and Lake County to develop any additional training aides that may be appropriate.

City of Lakeport

Measurable Goal Results- Complete. According to the City’s Public Works Director, issues pertaining to the storm water program and the use of related BMPs are discussed at regular staff meetings rather than formal training workshops. Some staff members also attend outside training/seminars related to water quality issues.
Section 7  Pollution Prevention and Good Housekeeping for Municipal Operations

Problems in Obtaining Measurable Goals- Lack of fiscal resources and staffing to accomplish program tasks. According to the City’s Public Works Director, issues pertaining to the storm water program and the use of related BMPs are discussed at regular staff meetings rather than formal training workshops. Some staff members also attend outside training/seminars related to water quality issues.

BMP Effectiveness- Unknown.

Proposed Changes to BMPs and Measurable Goals- None.

Activities Planned for Next Year- Compliance Officer to design and implement a pollution prevention program for the City targeted at community education and awareness as well as BMPs for local businesses. A refresher course may be offered to Public Works staff later in the year.

Table 7.3  Status and effectiveness of MUNI Coordination and Training Best Management Practices (BMPs) scheduled for implementation in Fiscal Year 2008/2009.

<table>
<thead>
<tr>
<th>BMP #</th>
<th>DESCRIPTION</th>
<th>MEASURABLE GOAL</th>
<th>CO-PERMITTEES</th>
<th>STATUS</th>
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<td></td>
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<td></td>
<td></td>
<td>Complete</td>
<td>Incomplete</td>
<td>Ongoing</td>
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<tr>
<td>MUNI 11a</td>
<td>Investigate the feasibility of providing internet and email capabilities to county municipal maintenance employees.</td>
<td>Internet and email capabilities for county municipal maintenance employees investigated.</td>
<td>County of Lake</td>
<td>X</td>
<td>X</td>
<td>X</td>
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<td></td>
<td></td>
<td></td>
<td>City of Clearlake</td>
<td>Not applicable</td>
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<td>City of Lakeport</td>
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<tr>
<td>MUNI 11b</td>
<td>Develop or revise a pollution prevention training program for Municipal Staff.</td>
<td>Training program and associated materials developed.</td>
<td>County of Lake</td>
<td>X</td>
<td>X</td>
<td>X</td>
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<td>City of Clearlake</td>
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<td></td>
<td>City of Lakeport</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>MUNI 11c</td>
<td>Conduct training workshops focusing on the storm water program and BMP implementation.</td>
<td>Municipal training workshops conducted.</td>
<td>County of Lake</td>
<td>X</td>
<td>X</td>
<td>X</td>
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<td></td>
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<td>City of Clearlake</td>
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<td></td>
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<td>City of Lakeport</td>
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<td>X</td>
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</tr>
</tbody>
</table>

MUNI PUBLIC EDUCATION AND OUTREACH

MUNI-12: Public Education and Outreach / Involvement Participation

MUNI 12b – Develop new education and outreach materials as necessary and make available to the public

BMP Appropriateness- Appropriate to develop new public education and outreach materials as necessary related to the Pollution Prevention / Good Housekeeping for Municipal Operations Program. Existing programs that municipalities implement on behalf of the public are important and need to be advertised for optimal effect and efficiency. Furthermore, BMPs used in day to day operations may also be used by other businesses and organizations that conduct similar activities.
County of Lake, City of Clearlake and City of Lakeport

Measurable Goal Results- Complete/Ongoing. The City of Clearlake, the City of Lakeport and Lake County have adopted the CASQA handbooks for Stormwater Best Management Practices. While these handbooks cannot be distributed to the general public, they provide the best information on BMP’S at the present time. In addition the Lake County Clean Water Program developed an overall brochure called Keep Clear Lake --- Free of Pollution. The keep Clear lake brochure is an excellent educational document outlining BMP’s from construction activities, landscape maintenance, vehicle washing, and commercial and industrial activities. This brochure is available at all building permit counters in both Cities and Lake County.

Problems in Obtaining Measurable Goals- None. This brochure was the product of the co-permittees, Regional Water Board representatives, and the public, and it took several years to reach a consensus on the final document

BMP Effectiveness- Effective. It is effective in educating the public as to what the Lake County Clean Water Program is all about. A brochure was developed and distributed by the City of Lakeport to local businesses about the proper use of the storm drain. Several have indicated greater awareness of the proper use of the municipal storm sewer system, including what not to put down the drain.

Proposed Changes to BMPs and Measurable Goals- None.

Activities Planned for Next Year- Work towards developing additional materials as appropriate and as the pollution prevention program nears implementation. The Keep Clear Lake Pollution Free brochure should be added Lake County’s Clean Water Program Web Page.

Table 7.4 Status and effectiveness of MUNI Public Education and Outreach Best Management Practices (BMPs) scheduled for implementation in Fiscal Year 2008/2009.

<table>
<thead>
<tr>
<th>BMP #</th>
<th>DESCRIPTION</th>
<th>MEASURABLE GOAL</th>
<th>CO-PERMITTEES</th>
<th>STATUS</th>
<th>EFFECTIVE</th>
<th>MODIFIED</th>
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<td>County of Lake</td>
<td>Complete</td>
<td>Ongoing</td>
<td>Effective</td>
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<td>City of Clearlake</td>
<td>Incomplete</td>
<td>Effective</td>
<td>Not Effective</td>
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<td>City of Lakeport</td>
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<td>Unknown</td>
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<tr>
<td>MUNI 12b</td>
<td>Develop new education and outreach material as necessary and make available to the public.</td>
<td>New education and outreach materials related to the MUNI Program activities developed and made available to the public.</td>
<td>County of Lake</td>
<td>X</td>
<td>X</td>
<td>X</td>
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</table>

Tracking and Reporting

MUNI-13: MUNI Programs Tracking and Reporting

MUNI 13a- Conduct an assessment of current tracking and reporting procedures

BMP Appropriateness- An assessment of current reporting activities is important because the stormwater program will need to develop its own tracking procedures for reporting purposes. If there are current reporting information, formats and procedures required by other agencies and departments, it makes sense to use existing information as much as possible to reduce duplication of effort for multiple reports and avoid the need to create more information.
Section 7 Pollution Prevention and Good Housekeeping for Municipal Operations

**County of Lake**

Measurable Goal Status- Incomplete.

Measurable Goal Results

- *Lake County Public Works*
  A draft assessment has been made; however, a report has not been generated.

- *Lake County Public Services*
  At present there is no formal method of tracking activities and programs for reporting purposes. Some information is kept in the appropriate grant file or other file for future processing and use for reports to the Waste Management Board. Materials collected information from franchise waste haulers are maintained in Microsoft Excel.

- *City of Lakeport–* A GIS tracking system has been developed by the City of Lakeport and is operational. It is used primarily for stenciling purposes, but the City is exploring other potential uses.

Problems in Obtaining Measurable Goals
In general, all department staff have high work loads and lack of funding to dedicate time to understanding and putting time into this unfunded program. This situation has made it difficult to receive complete information for planning purposes such as; format of information, specific information collected and the process by which information is input.

BMP Effectiveness- Effective. It is evident that a tracking database will need to be developed to track efforts, man hours, costs and other necessary information so programs can be assessed for effectiveness and also to aid in annual reporting requirements.

Proposed Changes to BMPs and Measurable Goals- None.

Activities Planned for Next Year- Obtain a more detailed assessment so that reporting and tracking procedures can be developed and implemented.

**City of Clearlake**

Measurable Goal Results In the past the City has not been able to formally track many of the Storm Drain activities that our Public Works Crew perform during the year. In 2008-09 the City did start tracking information on street sweeping, and storm drain maintenance activities, such as cleaning catch basins and reaches of storm drain channels.

Problems in Obtaining Measurable Goals It has been difficult with all maintenance jobs and special projects that a very small Public Works Maintenance Crew has in a City the size of Clearlake to perform additional tasks.

BMP Effectiveness- Effective in tracking storm drain operations so that they can be reported in the annual Storm Water Management Report.

Proposed Changes to BMPs and Measurable Goals- None.

Activities Planned for Next Year- Provide documentation of Municipal Operations tasks such as street cleaning (miles swept), storm drain inlet/catch basin cleaned, storm drain channel reaches cleaned, and on going training at staff and safety meetings.

**City of Lakeport**

Measurable Goal Status- Complete.
Measurable Goal Results  At the present time, there is no formal method of tracking activities and programs for reporting purposes, but the City of Lakeport is in the process of developing these tracking mechanisms. A GIS tracking system has been developed by the City and is operational. It is used primarily for stenciling purposes, but the City is exploring other potential uses.

Problems in Obtaining Measurable Goals
In general, all department staff have high workloads and lack of funding to dedicate time to understanding and putting time into this unfunded program. This situation has made it difficult to receive complete information for planning purposes such as, format of information, specific information collected and the process by which information is input.

BMP Effectiveness- Effective. It is evident that a tracking database will need to be developed to track efforts, man hours, costs and other necessary information so programs can be assessed for effectiveness and also to aid in annual reporting requirements.

Proposed Changes to BMPs and Measurable Goals- None.

Activities Planned for Next Year- Obtain a more detailed assessment so that reporting and tracking procedures can be developed and implemented.

MUNI 13b- Revise and implement tracking and reporting procedures

BMP Appropriateness- Appropriate to revise tracking and reporting procedures, if needed, before implementation.

County of Lake

Measurable Goal Results- Incomplete.

Problems in Obtaining Measurable Goals- Lack of fiscal resources and staffing to accomplish program tasks.

BMP Effectiveness- Unknown.

Proposed Changes to BMPs and Measurable Goals- None.

Activities Planned for Next Year- Work towards completion of reporting and tracking procedures so that they may be implemented.

City of Clearlake

Measurable Goal Results- In the past the City has not been able to formally track many of the Storm Drain activities that our Public Works Crew perform during the year. In 2008-09 the City did start tracking information on street sweeping, and storm drain maintenance activities, such as cleaning catch basins and reaches of storm drain channels.

Problems in Obtaining Measurable Goals- It is just difficult with all maintenance jobs and special projects that a very small Public Works Maintenance Crew has in a City the size of Clearlake to perform additional tasks.

BMP Effectiveness- Effective in tracking storm drain operations so that they can be reported in the annual Storm Water Management Report..

Proposed Changes to BMPs and Measurable Goals- None.
Section 7  Pollution Prevention and Good Housekeeping for Municipal Operations

**Activities Planned for Next Year** - Provide documentation of Municipal Operations tasks such as street cleaning (miles swept), storm drain inlet/catch basin cleaned, storm drain channel reaches cleaned, and ongoing training at staff and safety meetings.

**City of Lakeport**

**Measurable Goal Results** - Complete.

**Problems in Obtaining Measurable Goals** - None.

**BMP Effectiveness** - Effective. Current GIS tracking system is accurate and comprehensive. Quality assurance is performed on the data periodically to validate its accuracy.

**Proposed Changes to BMPs and Measurable Goals** - None.

**Activities Planned for Next Year** - Periodic quality assurance review to confirm accuracy of GIS data.

**Table 7.5** Status and effectiveness of MUNI Tracking and Reporting Best Management Practices (BMPs) scheduled for implementation in Fiscal Year 2008/2009.

<table>
<thead>
<tr>
<th>BMP #</th>
<th>DESCRIPTION</th>
<th>MEASURABLE GOAL</th>
<th>CO-PERMITTEES</th>
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<td>assessment of procedures.</td>
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<td>Assessment complete.</td>
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<td>Tracking and reporting procedures revised and</td>
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APPENDIX 1-1

LAKE COUNTY CLEAN WATER PROGRAM

PROGRAM AGREEMENT
Lake County Clean Water Program
Advisory Council
Calendar Year 2007

County of Lake
Rob Brown, Supervisor District 5 (VM)-CHAIR
Denise Rushing, Supervisor District 3 (AM)

City of Clearlake
Bob Galusha, City Engineer (SWPC)
Joyce Overton, City Council (VM)-VICE CHAIR
Roy Simons (AM)

City of Lakeport
Richard Knoll, Community Development Director (SWPC & AM)
Willis Bruns, City Council (VM)

Lake County Watershed Protection District
Stan Schubert- Stormwater Program Coordinator (VM- SWPC)
Pamela Francis, Deputy Director Water Resources (AM)

SWPC-Stormwater Program Coordinator
VM – Voting Member
AM-Alternate Member
ADVISORY COUNCIL
COUNTY OF LAKE CITY OF CLEARLAKE CITY OF LAKEPORT

WORKGROUP STRUCTURE

PUBLIC EDUCATION, OUTREACH, INVOLVEMENT & PARTICIPATION
Suzanne Lyons, Chair
Lakeport City Council

ILlicit DISCHARGE DETECTION & ELIMINATION/MUNICIPAL POLLUTION PREVENTION
Doug Heron, Chair
Clearlake Dept. of Public Works

CONSTRUCTION & POST-CONSTRUCTION RUNOFF MANAGEMENT
David Jezek, Chair
County of Lake, Building Official
APPENDIX 1-4

ADVISORY COUNCIL BYLAWS
LAKE COUNTY CLEAN WATER PROGRAM

Lake County
Clean Water Program

ADVISORY COUNCIL
BYLAWS

Approved
August 4,
2005
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Review of Cost Share Allocation 210
Regional Funding 220 Budget
Reconciliation

ATTACHMENT I Office of Stormwater Program Advisory Council
ARTICLE I  ADVISORY COUNCIL

Section 100 Name of Council

The management and oversight body of the Lake County Clean Water Program ("Program"), as established by Agreement Providing for Implementation of the Lake County Clean Water Program ("Agreement") , shall be known and referred to in these Bylaws as the Lake County Clean Water Program Advisory Council ("Advisory Council").

Section 110 Voting Membership of Advisory Council

110.1 The voting membership of the ADVISORY COUNCIL shall consist of four (4) individuals as follows; one (1) voting representative from the Lake County Watershed Protection District (DISTRICT), one (1) voting representative from the County of Lake, one (1) voting representative from the City of Lakeport, and one (1) voting representative from the City of Clearlake.

110.2 An alternative voting representative for each of the PARTIES voting representatives as provided in Section 110.1 shall be appointed by each PARTY and submitted to the Advisory Council in February of each year.

110.3 A quorum of the ADVISORY COUNCIL shall be achieved when at least three (3) of the voting representatives are present at any ADVISORY COUNCIL meeting.

Section 120 Office of the Advisory Council

120.1 The official office and mailing address of the Advisory Council shall be as shown on Attachment I.

120.2 Copies of all correspondence to the Program shall be provided to the Chair of the Advisory Council.

Section 130 Meeting of the Advisory Council

The Advisory Council shall hold regularly scheduled quarterly meetings to discuss Program business, and special meetings as necessary, each third Thursday of February, May, August and November. In the case of cancellation, the Program Manager will post notice and inform each Advisory Council representative of the cancellation one week prior to the regular meeting date. Except as otherwise may be provided by co-permittees, the regular meeting time and place of the Advisory Council shall be:
Third Thursday of February, May, August, November
8:30 a.m. - 10:30 a.m.
Lake County Courthouse, Conference Room C
255 North Forbes Street
Lakeport, California 95453

Section 131 Conduct of Meetings

131.1 The elected Chair shall preside over Advisory Council Meetings. In the event the Chair is unable to attend the meeting, the order of substitution shall be first, the Vice-Chair, and second, the Program Manager.

131.2 The latest edition of Robert's Rules of Order may be consulted to provide guidance to the Advisory Council in the event a question is raised regarding procedural matters.

131.3 Public participation in Advisory Council meetings is encouraged and shall be recognized in general accordance with applicable Brown Act provisions.

Section 132 Chair/Vice Chair of the Advisory Council

The Chair and Vice Chair of the Advisory Council shall be selected at the first meeting each calendar year from among any of the voting representatives. The Chair and Vice Chair shall be nominated and voted for annually at the first meeting of the calendar year in separate motions by the Advisory Council.

Section 133 Written Record of Meeting

The Program Manager shall keep a written record of all Advisory Council proceedings and votes ("Minutes"). Minutes shall be approved by the Advisory Council.

Section 134 Matters for Agenda

134.1 Proposed action items shall be directed to the Program Manager as early as possible and at least two weeks prior to the Advisory Council meeting at which action will be requested, except for urgency or emergency matters, as defined under Government Code Sections 54954.2(b) and 54954.5 (the Brown Act).

134.2 Notification of Advisory Council agendas shall be provided in accordance with the Brown Act. Agendas shall be posted by the Program Manager at the regularly scheduled meeting venue.

134.3 At each Advisory Council meeting, the regular order of business shall be conducted in accordance with the Agenda. The Advisory Council, by majority vote, may rearrange the order of the items listed on the agenda at any meeting.
Section 135 Voting

All voting by the Advisory Council shall be by "Ayes" and "Noes," and shall be entered into official minutes of Advisory Council proceedings. Upon request of any member of the Advisory Council, a roll call vote shall be taken on any matter upon which a vote is called.

Section 136 Representation of Program

The Advisory Council may designate the Program Manager or any of the PARTIES to represent the Program at meetings or organizations as needed. The designated PARTY shall be responsible for making the necessary reports to the Advisory Council.

Section 137 Review and Revision of Bylaws and Policies

Bylaws and Policies may be reviewed, revised and/or modified by the Advisory Council upon request by any PARTY or recommendation of the Program Manager.

ARTICLE II  BUDGET

Section 200 Review of Cost Share Allocation

200.1 The Advisory Council shall review the proportionate PARTY cost share allocation upon formal written request by any PARTY no more frequently than once annually. The written request must be delivered to the Advisory Council by November of any given year and any modification to the cost share allocation shall be effective no earlier than the following fiscal year at the February meeting.

200.2 The formal written request shall also include an analysis of alternative cost share allocation formulas with a recommendation and rationale for the recommendation. The requesting PARTY(S) is/are also responsible for providing staff liaison and a proposed process and time schedule for review and analysis of the cost share allocation.

Section 210 Regional Funding

Funding of Program tasks shall be provided by PARTIES and shared in accordance with previously defined participation rates found in the Agreement Providing for Implementation of the Lake County Clean Water Program. Budget expenditures shall not exceed projected PARTY assessment revenues.

Section 220 Budget Reconciliation

The Program Manager shall reconcile the budget at least twice each year.
ATTACHMENT I

Office of Stormwater Program Advisory Council

Lake County Clean Water Program
do Program Manager
Lake County Watershed Protection District
255 North Forbes Street, Room 309
Lakeport, CA 95453