California Regional Water Quality Control Board

Los Angeles Region

Over 51 Years Serving Coastal Los Angeles and Ventura Counties
Recipient of the 2001 *Environmental Leadership Award* from Keep California Beautiful

320 W. 4th Street, Suite 200, Los Angeles, California 90013
Phone (213) 576-6600 FAX (213) 576-6640 - Internet Address: http:// www.swrcb.ca.gov/rwqcb4

Terry Tamminen
Secretary for Environmental Protection

Arnold Schwarzenegger
Governor

TO: Jonathan Bishop
Interim Executive Officer

FROM: Michael Yang, P.E.
LOS ANGELES REGIONAL WATER QUALITY CONTROL BOARD

DATE: August 3, 2004

SUBJECT: **PROCEDURES AND REQUIREMENTS FOR CERTIFICATION OF A BEST MANAGEMENT PRACTICE FOR TRASH CONTROL AS A FULL CAPTURE SYSTEM**

This memorandum describes Regional Board procedures and information required in order to perform a technical evaluation to certify a best management practices (BMP) as a "full capture system" for the control of trash.

Background

The Los Angeles Regional Water Quality Control Board adopted the definition of "full capture system" for the Ballona Creek Trash TMDL per Resolution No. 04-023 on March 4, 2004. This definition will be considered applicable for all receiving waters in the Los Angeles Region identified as being impaired for Trash. The Regional Board staff will analyze all future proposed BMPs for certification as a "full capture system" based on the Ballona Creek Trash TMDL definition.

The definition of a "full capture system" as defined in the Resolution No. 04-023 is as follows:

> " A full capture system is any single device or series of devices that traps all particles retained by a 5 mm mesh screen and has a design treatment capacity of not less than the peak flow rate (Q) resulting from a one-year, one-hour, storm in the subdrainage area. Rational equation is used to compute the peak flow rate: Q = C x I x A, where Q = design flow rate (cubic feet per second, cfs); C = runoff coefficient (dimensionless); I = design rainfall intensity (inches per hour, as determined per the rainfall isohyetal map), and A = subdrainage area (acres)."

Essential Technical Information

In order to perform a technical analysis and consider for certification approval, the Regional Board staff requests the following information from dischargers for evaluation of their BMPs as a "full capture system" for trash:

1. Subdrainage area, A that only drains into the pipe containing BMP.

2. Hydraulic capacity of the pipe containing BMP at cubic feet per second.

3. Average runoff coefficient , C where

C = (A1*C1 + A2*C2 + A3*C3 + ...An*Cn) / (A1 + A2 +A3 + ...An)

A1 through An represents subareas for each land use, and
C1 through Cn represents runoff coefficients for each land use

4. The reported BMP treatment capacity at cubic feet per second.

Los Angeles County Department of Public Works (LACDPW) has already provided an isohyetal map for one-year, one- hour rainfall intensity per definition of a full capture system. For certification, BMP must trap all particles retained by a 5-mm mesh screen, and have a treatment capacity exceeding peak flow rate resulting from a one-year, one-hour, storm in the subdrainage area. In addition, the following requirements must be met:

- End-of-Pipe Configuration: Certain BMPs, which can create a pressure drop, must have an end-of-pipe configuration and not rely on diversion weirs.

- Adequate Pipe Sizing: The pipes carrying the flows from the subdrainage area should be able to handle peak flows.

- Regular Inspections and Maintenance: The full capture system must be regularly inspected and serviced to continually maintain adequate flow through capacity.

Conditional Transferability
The determination and certification that the BMP satisfies the "full capture system" definition of the trash TMDL will allow the system to be used elsewhere in the region. Dischargers will have an on-going obligation to demonstrate that the installation of a particular system is appropriately sized. Likewise, dischargers will be responsible for on-going maintenance to ensure the systems perform to design specifications. The Regional Board will review and consider performance data on continuing basis. In the event data demonstrate that the systems are not performing to the full capture design standard established by the trash TMDL, then the Regional Board reserves the ability to rescind the certification for subsequent installations.

Process for Submittal
A letter requesting "full capture system certification" along with supporting documentation must be submitted to the Regional Board Executive Officer to start the process. Within thirty (30) days of receipt of the letter and documentation, the Regional Board staff will contact the proponent, and schedule a time for a presentation to Regional Board staff and to perform a site survey if necessary. At the conclusion of the presentation, Regional Boards staff will

communicate orally to the proponent any supplemental documentation or information that needs to be submitted to complete the evaluation of the proposed BMP as a "full capture system". A letter acknowledging the receipt of the certification request and identifying any supplemental documentation to be submitted will be sent within 15 days of the completion of the presentation. Regional Board staff will make a written determination on the certification of the proposed BMP as a full capture system within ninety (90) days after the receipt of all requested documentation.