

City of Stockton/County of San Joaquin Stormwater Program
Stormwater Quality Control Criteria Plan – Stakeholder Meeting January 13, 2009
Questions and Answers

During the second stakeholder meeting that was held for the update of the Stormwater Quality Control Criteria Plan (SWQCCP) there were several questions/areas of clarification that were posed. The questions and answers are briefly summarized below.

Drawdown Period

Q. What is the Appropriate Drawdown Period Required for Each Treatment Control (question was asked in reference to Figure 6-1)?

A. The appropriate drawdown period varies by Treatment Control and is specified within each Treatment Controls fact sheet. We will add in a summary table of what the appropriate drawdown is for each Treatment Control near Figure 6-1.

Infrastructure Requirements

Q. Does the SWQCCP reference separate but related infrastructure requirements such as storm drain sizing (e.g., storm drains are required to be sized for the 10-year storm event)?

A. The SWQCCP does reference several other requirements such as erosion and sediment control standards. We will incorporate a reference to drainage requirements as well.

Soil Types

Q. What information is available regarding soil types? Since infiltration is an important component of the Volume Reduction Requirement, it will be important to identify the onsite soil types.

A. Consult with your geotechnical engineer. The geotechnical engineer must know what the soils types are on the site before the buildings go up. Understanding the soils and other features of the site such as topography are a critical component of a site design.

Man-made Soil Media

Q. Is guidance provided for man-made soil media?

A. Several of the Volume Reduction Measures and LID Treatment Controls require the use of engineered soil media (e.g., bioretention). Guidance on the soil mix is provided within the BMP Fact Sheets found in Sections 5 and 6 of the SWQCCP.

Inspection, Enforcement and Maintenance

Q. What Procedures are in Place for Inspection, Enforcement and Maintenance of BMPs?

A. Every project is required to submit a Maintenance Plan and execution of a Maintenance Agreement with the owner/operator of stormwater controls prior to acceptance of a private development project.

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City/County are in the process of developing procedures for inspection and enforcement of BMP maintenance. The City/County are working to improve BMP databases to house key information such as location, type, maintenance completed, inspection results and enforcement actions. The City/County are considering a self-certification approach to maintenance that would require responsible entities to submit proof that maintenance was conducted on an annual basis. Under this approach, a certain percentage of these BMPs may be spot-checked each year to ensure accurate reporting. If upon site inspection by City staff the improvement does not appear to be properly operating, City can have the improvement serviced and invoice the property owner for reimbursement. Procedures and policies for inspection and enforcement are in the process of being developed.

Cost Savings and LID

Q. Are there any cost savings as a result of the use of Low Impact Development strategies? Can infrastructure be reduced?

A. Cost savings of LID strategies has most recently been documented by a report produced by the US EPA: www.epa.gov/owow/nps/lid/costs07/documents/reducingstormwatercosts.pdf

Cost savings may be realized in the form of reduced infrastructure such as less curb and gutter due to the use of swales. LID also promotes the reduction of impervious surfaces through the use of practices such as minimized road width – reduced pavement can lead to cost savings as well.

LID strategies cannot, however, eliminate the need for flood control. Conveyance facilities must be sized to convey the runoff from design storms based on criteria set forth in the City and County Drainage Standards.

Pollutants of Concern

Q. Pollutants of Concern and Streams – anywhere not impaired – include map?

A. The revised SWQCCP will identify stream impairments.

Building Setbacks

Q. Have setbacks to buildings, etc. been specified?

A. Siting and Planning considerations are provided within each Treatment Control fact sheet and include information on setbacks, slope, soil type, etc.

Outreach to Architects

Q. Will outreach be conducted to architectural firms? For many engineers, the architects are responsible for laying out the site so in order for impervious surfaces to be minimized and Volume Reduction Practices to be incorporated throughout the site, they'll need to understand the SWQCCP revisions.

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A. Architectural firms are welcome to review the SWQCCP, provide comments, and participate in the final stakeholder meeting. If you would like to make sure an architectural firm is invited to the final stakeholder meeting please submit their contact information to Courtney at:

Courtney.Vasquez@ci.stockton.ca.us.