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MASTEP Technology Review

Technology Name: Bioretention Cell

Studies Reviewed: Yu, S.L. and M.D. Stopinski. 2001. Testing of Ultra Urban Stormwater Best Management Practices. Virginia Transportation Research Council, January 2001.

Date: December 24, 2008

Reviewers: Sarah Titus, Jerry Schoen

Rating: 3

Brief rationale for rating:

This bioretention cell was monitored during few storm events over a 3 month period. Only an estimated 9 inches of rainfall, or about 19% of the average annual precipitation was sampled. Oil/grease samples were run by a certified lab and but the other parameters were not. The paper presented no quality control data or QAPP and lacked PSD and statistical analysis.

Other comments:

- No discussion of statistical analysis or laboratory certification for some parameters.
- Study report is well written. Study appears to have been conducted according to sound scientific principles, but this can't be determined with certainty because much information is missing. No raw data, dates of sampling events not given, precipitation data not provided.