Transportation Stormwater Updates

ACWA Stormwater Meeting October 24, 2024

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Long-Term Stormwater Planning and transportation projects



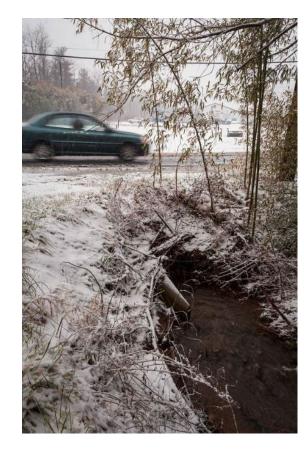
Santa Fe, New Mexico community Pilot

- Topics include asset management, stormwater infrastructure opportunities, stakeholder involvement, financing/funding, and development and redevelopment policies.
- Documents include "Incorporating Green Infrastructure into Roadway Projects in Santa Fe"





- <u>Draft analytical method</u> for surface water/stormwater
- Aquatic life screening values for 6PPDquinone and 6PPD to protect sensitive salmon and other aquatic life
- Research on fate/transport, toxicity, and treatment (EPA's <u>Science Inventory</u>)
- <u>Draft MS4 permit</u> for Joint Base Lewis McChord (EPA R10)



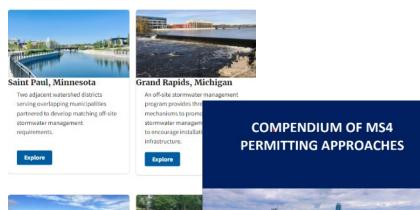


Rule development (proposed rule stage) Market-Based Approaches Under the **NPDES Program**

- **EPA** supports market-based mechanisms including water quality trading and off-site stormwater management, under the CWA.
- The Agency is proposing to further clarify how these approaches may be used by NPDES permitting authorities in permits.

Off-Site Stormwater Management

website |webcast | case studies















Stay tuned!

Future EPA webinar on transportation stormwater asset management featuring State DOT speakers



Current transportation stormwater-related projects of interest

- Federal Highway Administration
- National Academy of Sciences
- National Cooperative Highway Research Program
- Transportation Pooled Fund





National Academy of Sciences Review, sponsored by DOT-FHWA

The National Academies of Sciences, Engineering, and Medicine are private, nonprofit institutions that provide independent, objective advice to inform policy with evidence, spark progress and innovation, and confront challenging issues for the benefit of society.

Project Purpose: Study methods to estimate and/or monitor highway stormwater pollutant transport (including sources and loads), TMDL compliance strategies, and communication of stormwater BMPs by state and federal agencies. On the basis of its assessment, the Committee may make recommendations to state DOTs, FHWA, USDOT, EPA, and Congress.

 For more information: Review of Approaches for Managing Pollutant Loads in Highway Stormwater Runoff





National Cooperative Highway Research Program (NCHRP)

NCHRP is an objective national highway research program that uses modern scientific techniques. It is funded by participating member states of the American Association of State Highway Transportation Officials (AASHTO) and receives technical support from the Federal Highway Administration (FHWA).

Project Topics:

Sustainable Materials for F&SC Practices

Cost-Effective Landscape Design Practices

Resilient E&SC Practices

Stormwater Retrofit Programs and Practices Using Third-Party Partnerships

Field Methods & Lab Tests Related to Stormwater Emerging Contaminants





National Cooperative Highway Research Program (NCHRP) [Cont'd]

Topic	Link
Sustainable Materials for E&SC practices	Synthesis 55-16: <u>Use of Sustainable Materials for Erosion and Sediment</u> <u>Control Practices</u>
Resilient E&SC Practices	Report 24-52: <u>Guidelines for Resilient Erosion and Sediment Control</u> <u>Practices</u>
Cost-Effective Landscape Design Practices	Domestic Scan 16-02 Follow-up outreach related to: <u>Leading landscape</u> <u>Design practices for Cost-effective Roadside Water Management</u>
Stormwater Retrofit Programs and Practices Using Third-party Partnerships	Synthesis 55-07: <u>Stormwater Retrofit programs and Practices Through Third-Party Partnerships</u>
Field Methods & Lab Tests Related to Stormwater Emerging Contaminants	Report 25-72: Field Methods and Interlaboratory Tests to Establish the Accuracy and Precision of Measured Concentrations of Emerging Contaminants in Stormwater Runoff and Stormwater-Treatment System Effluent





<u>Transportation Pooled Fund</u> (TPF)

TPF is a Federal Highway Administration (FHWA) administered program in coordination with State departments of transportation (23 CFR section §560.3.) It creates an opportunity for partners to pool their funds, subject matter expertise, and resources to conduct high-priority research to meet a wide variety of shared transportation problems.

Project Purpose:

- develop a methodology/tool for DOTs to identify high-priority areas along roadway infrastructure to add stormwater treatment to address 6PPD-quinone,
- 2) evaluate drainage characteristics relating to fate and transport of 6PPD-quinone,
- 3) identify currently-approved, cost-effective stormwater management techniques, BMPs and design options to reduce or eliminate highway runoff toxicity due to 6PPD-quinone, and
- 4) assess recycled tire paving products for 6PPD-quinone runoff contribution.
 - For more information: <u>TPF-5(524)</u>: <u>Stormwater Management to Address Highway Runoff Toxicity</u> <u>Due to 6PPD-quinone from Tire Rubber</u>

