Silviculture to Stormwater

Maine’s CWSRF Approach to NPS

Wendy Garland
NPS Program Coordinator
Maine CWSRF Program

1989   Program Established
1995   Septic System Replacement Loan Program
2001   Nutrient Management Loan Program
2004   Sand Salt Facility Construction Eligible
2006   Stormwater Project Eligibility Expanded
2007   Forestry Direct Link Loan Program
2017   UST/AST Loan Program
NPS Sources Addressed

- Septic Systems
- Agriculture
- Sand/Salt Piles
- Forestry Operations
- Urban Stormwater
- Underground & Aboveground Oil Tanks
Nutrient Management Loan Program

- 2001 - Loans for manure pits and milking parlor waste
- 2013 – Program expanded to other agricultural BMPs
- 14 projects, $1.3 million to date
- Little recent activity
Municipal Sand/Salt Facility Program

- 2004 - Loans for construction of salt sheds with contamination
- 2013 – Expanded eligibility for all sand/salt piles (protection)
- $2.3 million to date
- In 2017, 5 projects $1.1 million
Forestry Direct Link Loan Program

- Subsidized loans for environment-friendly logging equipment

Borrowers:
- Must use forestry BMPs
- Loggers certified sustainable
- Requires master logger harvest plan
- Maine Forest Service inspections

- 118 loans, $29 million to date
## Eligible Equipment

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<th>New/Used Equipment</th>
<th>Equipment Retrofits</th>
<th>Misc. Purchases</th>
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<td>Mulching Machines</td>
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<td>GPS Equipment</td>
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<td>Swing Machines</td>
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<td>Tracked Feller Bunchers</td>
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</table>
Urban Stormwater Projects

- Low interest loans
- Stream restoration projects
- Part of larger CSO separation projects
- $5.3 million since 2009
Birch Stream, City of Bangor

Before

After

Channel Redesign

Gravel Wetlands

Aeration System
Penjajawoc Brook, Bangor

- StormTech Systems
- In-Stream Habitat
- Porous Pavement
- Tree Box Filters
- Street Sweeper
- Total - $1.2 million
Long Creek, South Portland

- EPA Residual Designation
- 5 Project Areas
- Total - $2 million

- Biofilter
- Tree Boxes
- StormTech
- StormTreat
CSO Separation Projects - Portland

Biofilters - $260,000

Bioretention Cells - $103,000

Porous Pavers - $102,000
CSO Separation Projects - South Portland

Bioretention Cells and Gravel Wetland - $895,000
Underground and Aboveground Oil Storage Tanks

- Identified as Emerging Issue
- Pass-through loan program for removal/replacement tanks
- 2 loans, $650,000 to date
Future Opportunities and Challenges

- Stormwater
- Brownfields
- Sponsorship Pilot
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