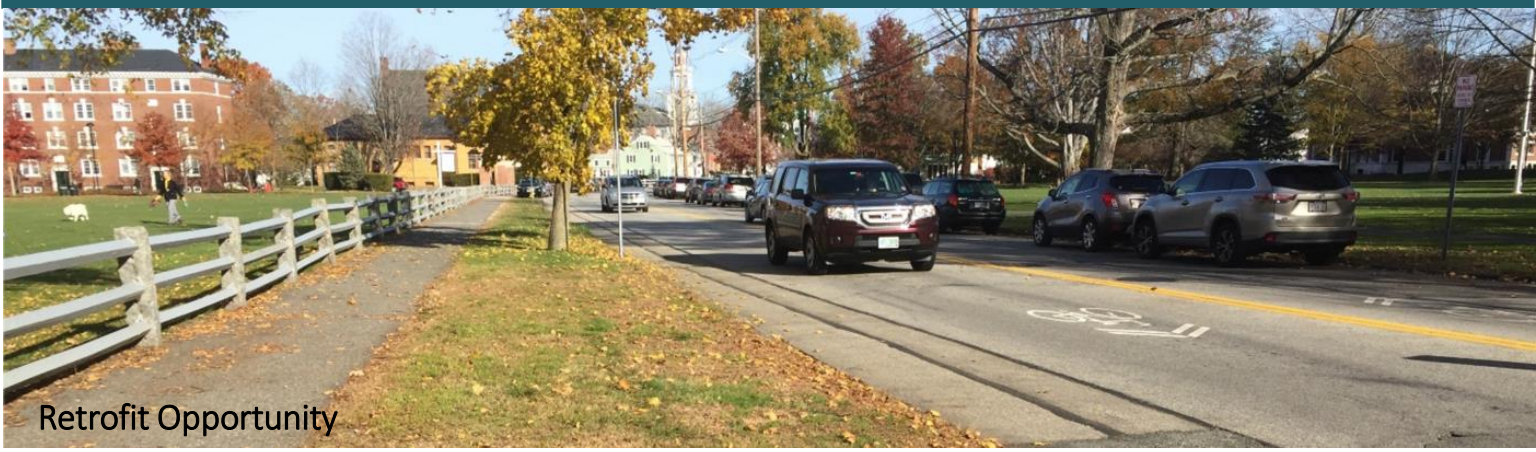
EXETER STORMWATER RESILIENCE

STORMWATER RETROFIT OPPORTUNITIES



Retrofit Opportunity

Resilient Green Infrastructure

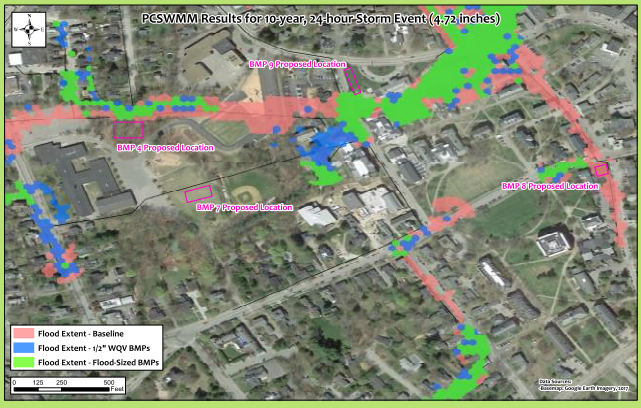
1. New Hampshire coastal communities have experienced rising populations resulting in an increase in development in nitrogen pollution and flooding from impervious surfaces.
2. Green infrastructure is an effective method to both improve water quality and avoid stormwater related flood damages.
3. The use of green infrastructure supports other economic and quality of life benefits such as creation of attractive public spaces, and landscaping that supports walkable communities.
4. This project developed construction-ready designs for inclusion in future capital improvement projects in Exeter's largest subwatershed.

Rain Garden

Tree Filter

Performance of Stormwater Retrofits

1. The total annual nitrogen load from the 179-acre Lincoln Street watershed is 1,265 pounds.
2. The project Exeter Resilience project identified green infrastructure retrofit opportunities for 14 stormwater installations expected to reduce nitrogen load by 691 pounds annually, a 76% reduction.
3. Retrofit unit costs averaged $1,000 and ranged from $498 - $5,080 per pound of nitrogen in comparison with $1,200 for the new wastewater facility
4. The estimated cost to implement green infrastructure retrofits at these 14 locations is $689,000.



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