## Mystic Street Trench Project

Andy Hrycyna Mystic River Watershed Association Mystic Steering Committee December 3, 2020

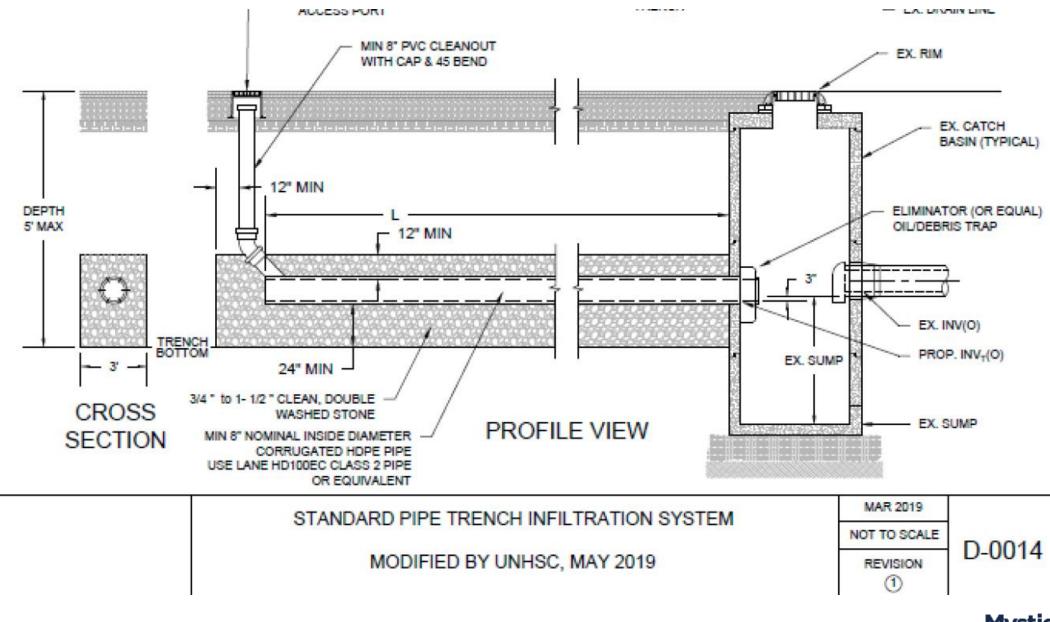


## Small scale (but Mighty): Infiltration Trenches









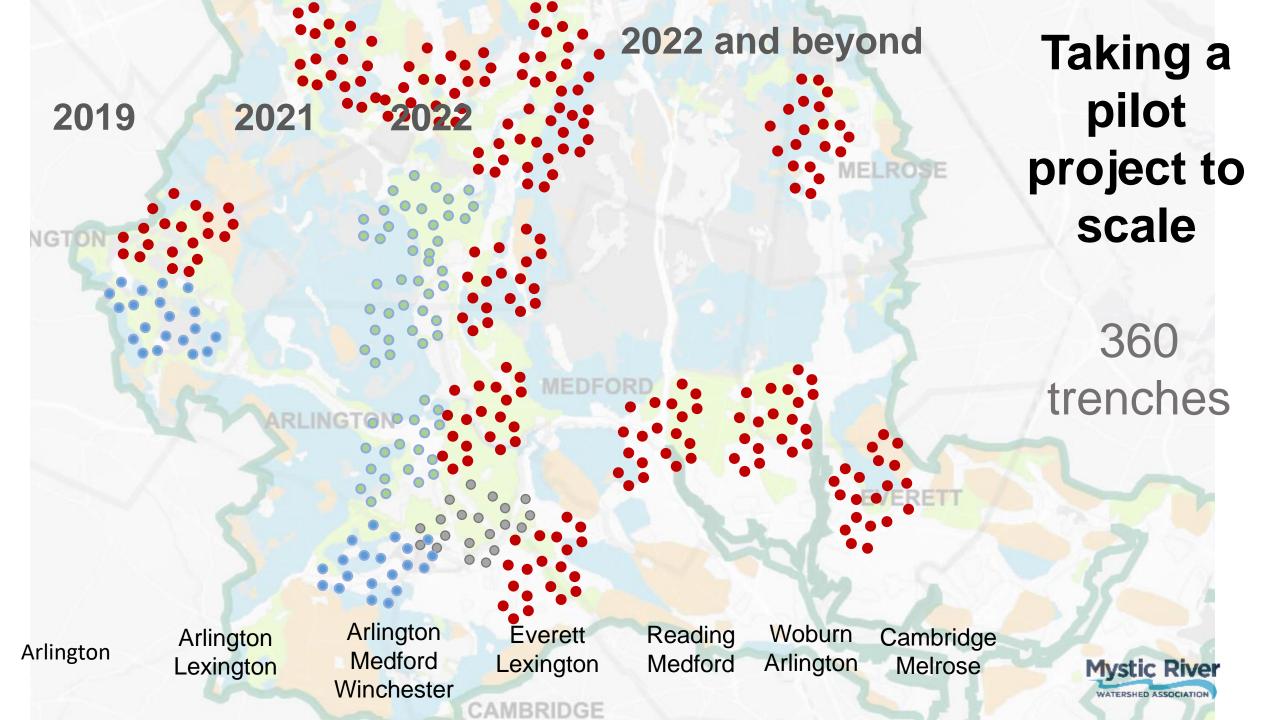
Mystic River

## **Quantifying Benefits**

	Water Quality Volume	Water Quality Volume	WQV	cf
		Water Quality Volume (Philadelphia method)	WQV	cf
	Design Storage Volume	Design Storage Volume	DSV	cf
	Performance curve results	Infiltration Rate	IR	in/hr
		BMP Capacity: Depth of Runoff from	PSC	in
		Impervious Area		
		Runoff Volume Reduction	Volume	-
		Phosphorus Load Reduction	TP	-
		Nitrogen Load Reduction	TN	-
		Cumulative TSS Load Reduction	TSS	-
		Cumulative Zinc Load Reduction	TZn	-
Output				
	Nutrient loading	P - Pre-BMP export	PPre	lb/yr
		P - Post-BMP export	PPost	lb/yr
		N - Pre-BMP export	N <sub>Pre</sub>	lb/yr
		N - Post-BMP export	NPost	lb/yr
		TSS - Pre-BMP export	TSS <sub>Pre</sub>	lb/yr
		TSS - Post-BMP export	TSS <sub>Post</sub>	lb/yr
	BMP Performance	P Reduction	PRed	lb/yr
		N Reduction	N <sub>Red</sub>	lb/yr
		TSS Reduction	TSS <sub>Red</sub>	lb/yr
		Volume Reduction (By infiltration)	Vol <sub>Red</sub>	cf







## **Mystic Street Trench Project**

- \$720,000+ in grant funding (CZM, 319, 604b)
- 9+ municipalities
- 100+ built, 2019-2022
- 250+ shovel-ready by 2022

