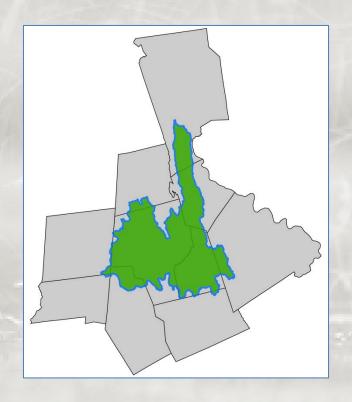
Review of Field Work and GIS Analysis To Date



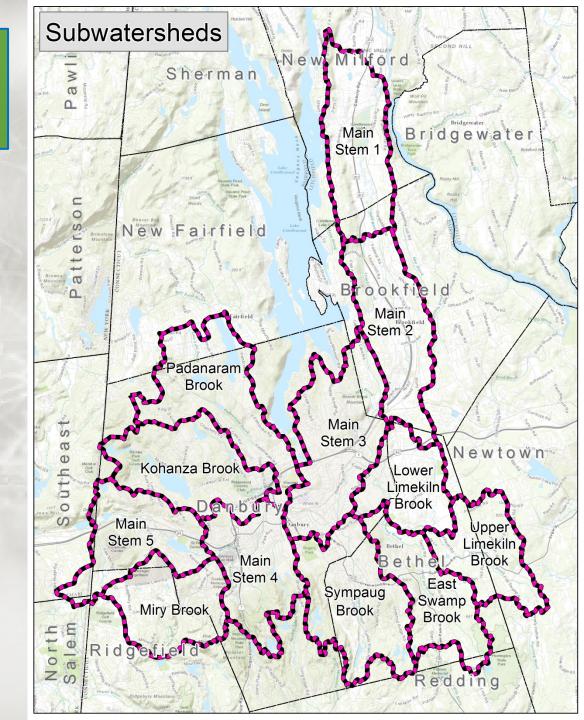
Courteny Morehouse, Housatonic Valley Association



Subwatersheds

 Still River Watershed divided into 12 subwatersheds

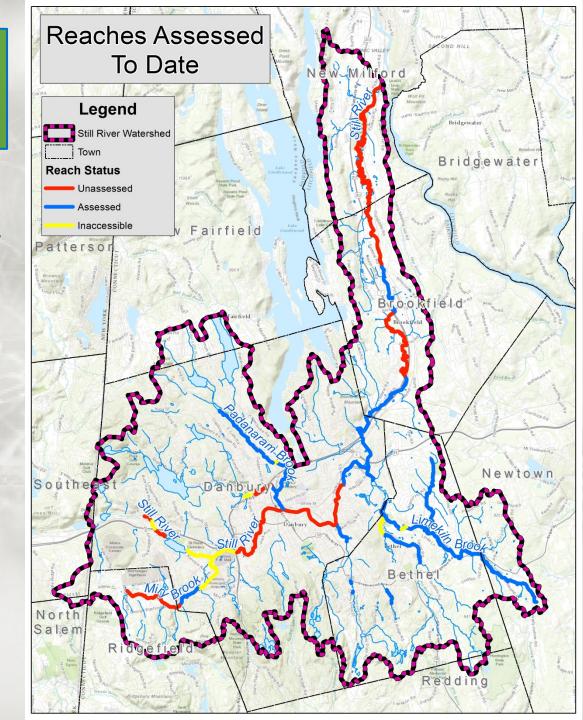




Status

- Total Miles Assessed: 27
- Total Miles Inaccessible: 4
- Total Miles: 43
- Percent Completed: 64%



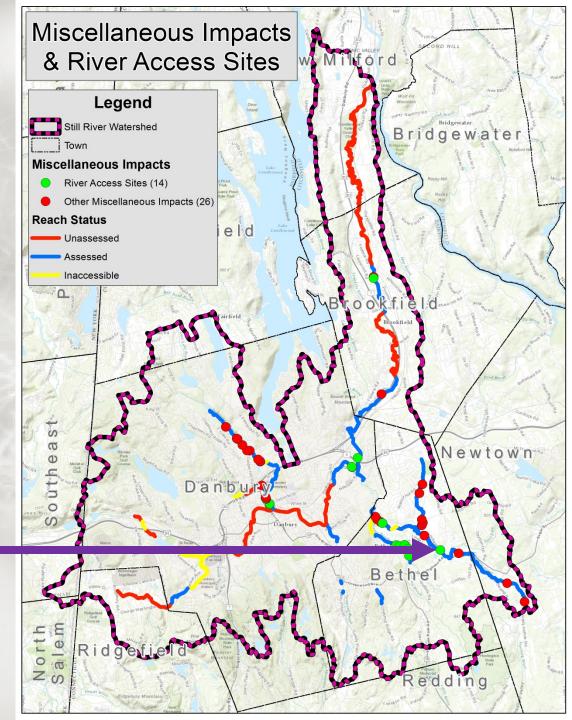


Miscellaneous and River Access

- Miscellaneous sites: don't fit any other categories
- River access sites:



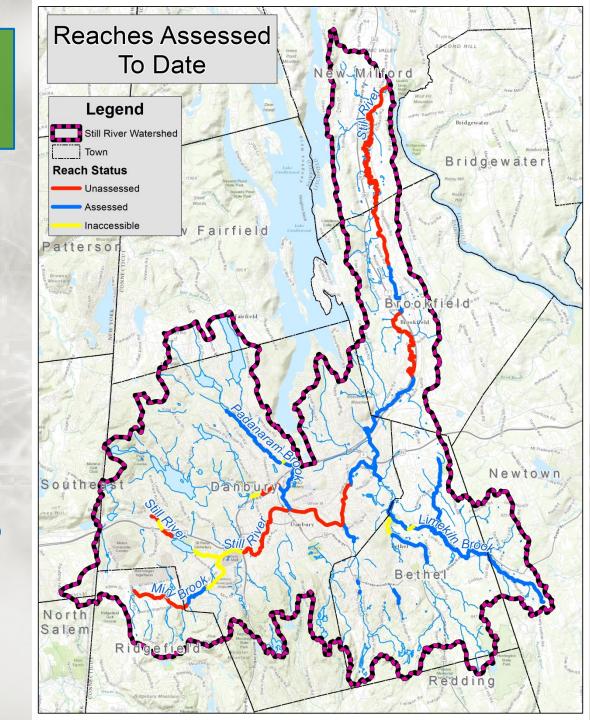




Field Work Status

- Stream Assessment
 Target = 43 miles
- •Total Field Assessed: 21 miles
- Total Desktop Assessed (Inaccessible in the field): 4 miles
- •Total Assessed: 25 miles over 61 stream reaches
- Percent Completed: 58%





STORMWATER OUTFALLS (OT)

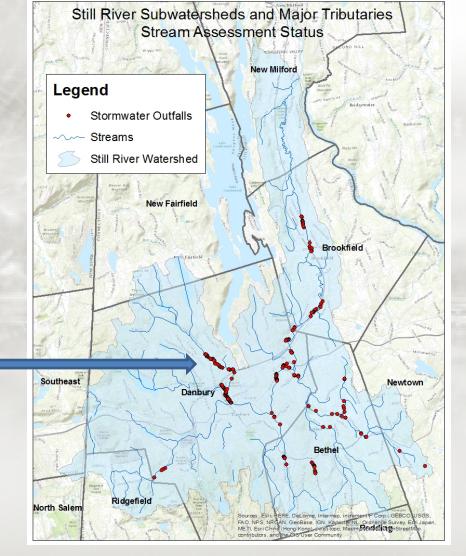




STORMWATER OUTFALLS (OT)

- 205 stormwater outfalls documented
- •17 tested for ammonianitrogen







watershed conservation

ulersneu conservatio

Impacted Buffers (IB)



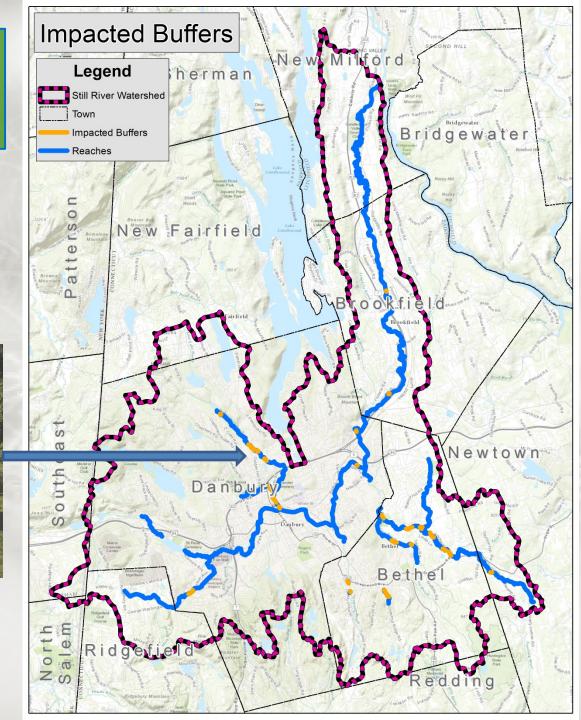


Impacted Buffers

 2 miles of impacted buffers documented at 46 separate sites







Trash and Debris (TR)

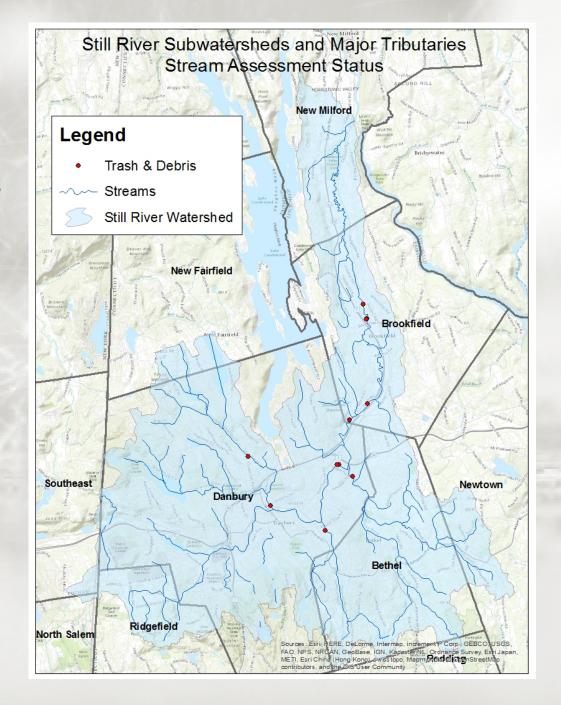




Trash & Debris

- •11 trash & debris sites documented, including:
 - Large collections of garbage stuck on woody debris
 - Lawn trimmingsdumped into the river
 - •Small illegal streamside dumps





Miscellaneous Features (MI)



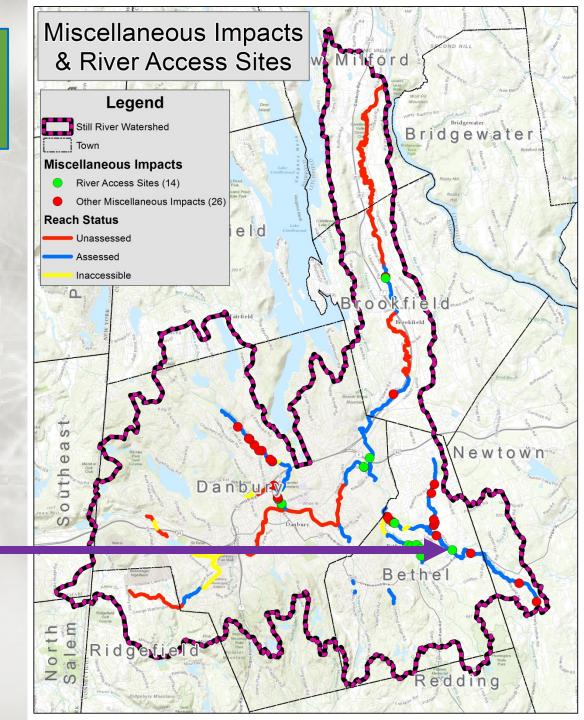


Miscellaneous and River Access

- Miscellaneous sites: don't fit any other categories
- River access sites are recorded under miscellaneous







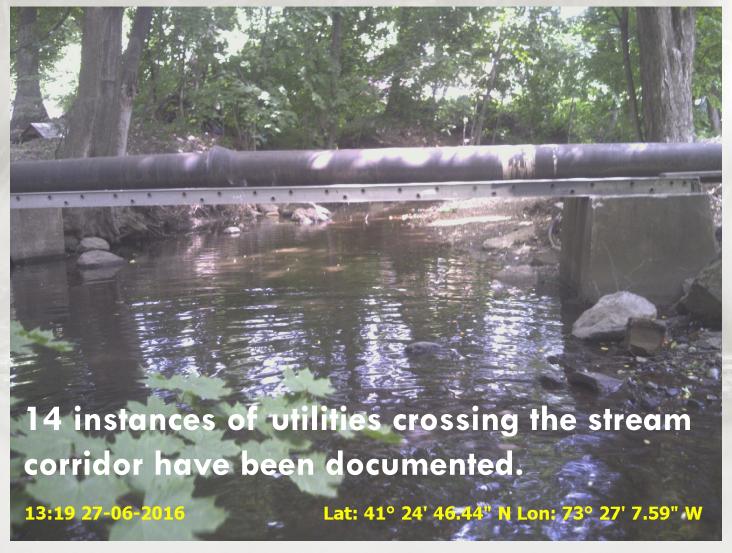
Stream Crossings (SC)



138 road-stream crossings have been documented and assessed using the North Atlantic Aquatic Conservation Collaborative method.

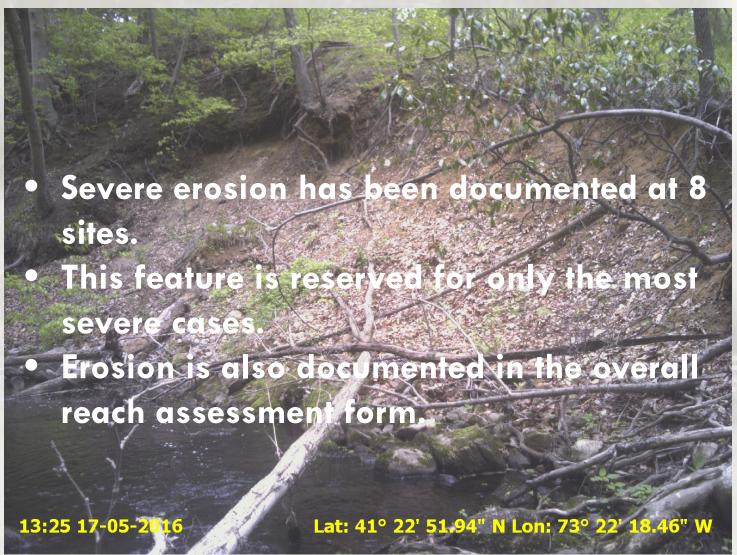


Utilities in the Stream Corridor (UT)



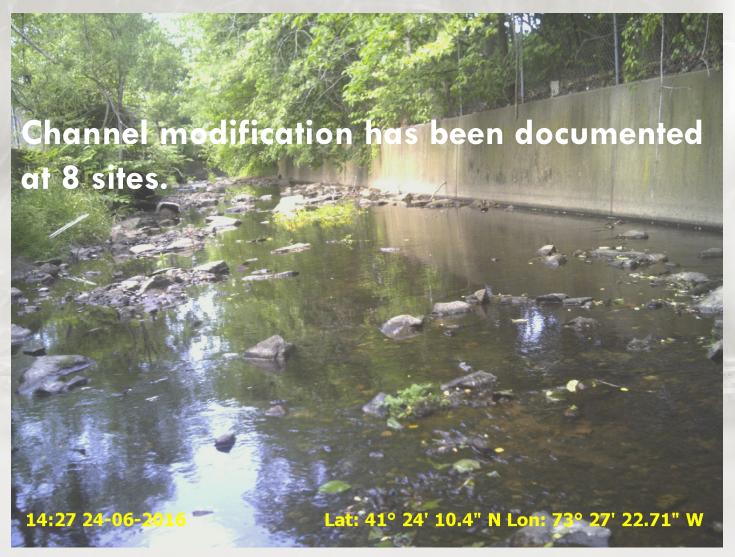


Severe Erosion (ER)





Channel Modification (CM)





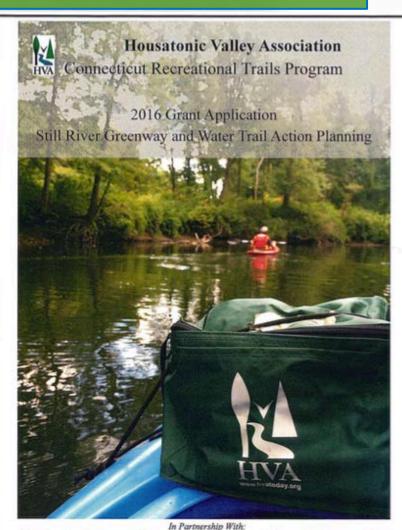
NEXT STEPS

- Complete stream assessments in the Winter/Spring of 2017.
- Incorporate findings into the Existing Conditions Report.
- Utilize data in site selection analysis for future implementation projects.

CT DEEP Recreational Trails Program Grant Proposal

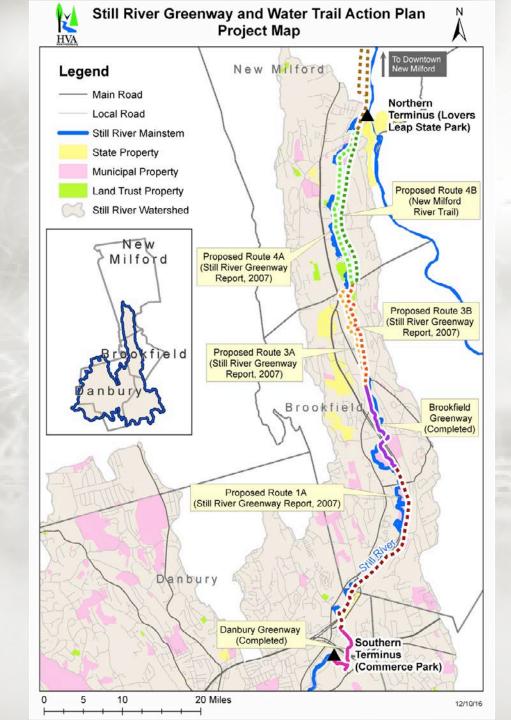
- Create an Action Plan for the Still River Greenway and Water Trail
- Routes for hiking, biking, and paddling; fishing access sites; accessibility
- •Partnership with City of Danbury, Town of Brookfield, Town of New Milford, WestCOG, Brookfield Open Space Legacy, Angry Beavers Paddling Club, Candlewood Valley Trout Unlimited, and Weantinoge Heritage Land Trust



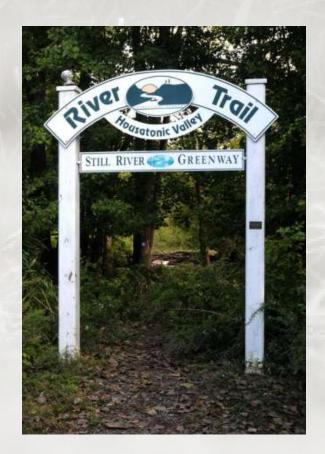


- Vision for 11 miles of continuous multi-use trail from Danbury to Housatonic River in New Milford
- Building on past work from 2007 Still River Greenway Report, Danbury, Brookfield, and New Milford





Integration with Management Plan



- Identify projects that achieve both water quality and recreational enhancement goals
- Expand the range of possible funding for both the Still River Greenway/Water Trail and Watershed Management Plan
- Create Still River Recreational Trails Committee

TIMELINE:

Application submitted Dec 5, 2016
Selection process can take 6 mo or more

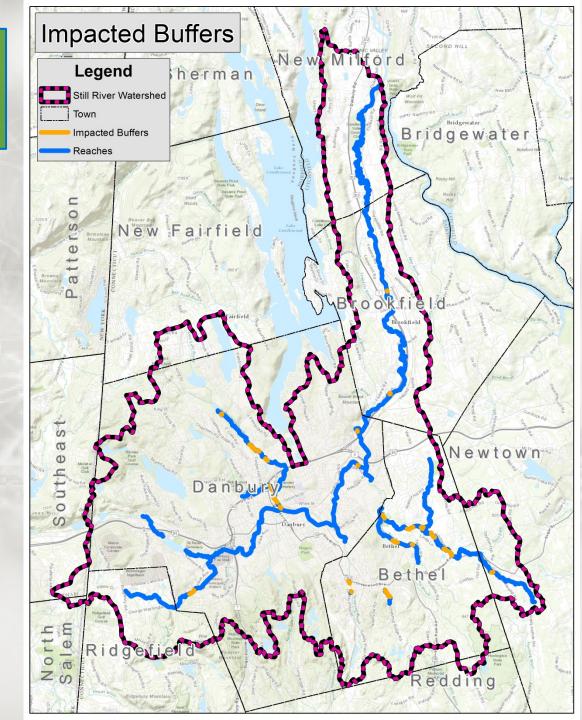




Impacted Buffers

11,200 feet
(approximately 2 miles)









STORM WATER OUTFALLS (OT)





STORM WATER OUTFALLS (OT)



In addition to the information collected for the Storm Water Outfall field form we will be testing suspicious outfalls for ammonia nitrogen, a common indicator of fecal contamination.

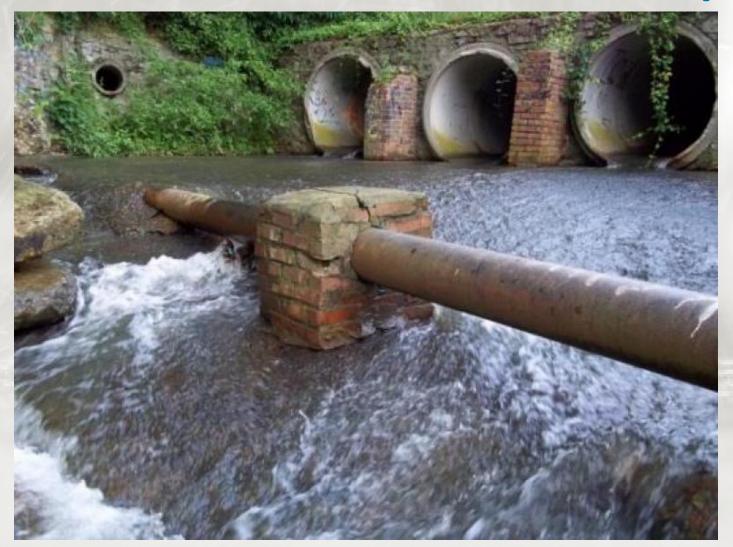
Severe Erosion (ER)



Impacted Buffers (IB)



Utilities in the Stream Corridor (UT)





Trash and Debris (TR)



Stream Crossings (SC)





Stream Crossings (SC)

Instead of using the Stream Crossing field sheet HVA will complete stream crossing assessments using a protocol developed by the North Atlantic Aquatic Connectivity Collaborative (NAACC)

- A regional effort from West Virginia to Maine
- HVA staff has been trained in this assessment method and has been conducting surveys for over two years







Channel Modification (CM)



Miscellaneous Features (MI)





				Storm Wat	er Outfalls	OT
WATERSHED/SUBSHED: LOWER LIMEKIIN Brook			DATE: 03/	09/2016 As	SESSED BY: RV	//SJ
SURVEY REACH ID: LOL-1		Œ: 11:24				
SITE ID: LOL-1-OT1		т: 41.39536000	Long: -73	.40607100		
_					<u>'</u>	Comp. com
BANK: OLT ORT OHead	TYPE:	MATERIAL: Concrete OM	SHAPE: etal Ocircular	O Single DIMI	ENSIONS:	SUBMERGED:
0 0	Closed	OPVC/Plastic OB	2 Circuia			Partially
None OTrickle	pipe	Other:	Other:			Fully
Moderate Substantial		OConcrete OEart	Trapezoid	l Depth:		(in)
Oother:	Open channel	Other:	O Parabolic	Width ((op):	(in)
0.1			0	Width (E	lottom):	(in)
CONDITION: None	ODOR: ■ No ■Gas	DEPOSITS/STAINS: None Flow Lin	VEGGIE DE		BENTHIC GROW	
Chip/Cracked	Sewage	Oily Paint	O Normal	Oth	wn Orange er:	Green
Peeling Paint	Rancid/Sour	Other:	O Inhibited	POOL	QUALITY: []	No pool
Corrosion Other:	Sulfide Other:	AMMONIA NITRO	EN: C Other:	■ G0	od Odors O	
_ Other.	_ Other.	ppm	Conner.	Oth	ls 🗌 Algae 🔝 : er:	Floatables
FOR COLOR: FLOWING TURBIDIT	✓ Clear					r.
FLOWING TURBIDIT ONLY FLOATAB				Opaque Petroleum (oil sheer	1) Othe	er:
OTHER Excess Trash (paper/plastic bags) Dumping (bulk) Excessive Sedimentation						
CONCERNS: Needs Regular Maintenance Bank Erosion Other.						
POTENTIAL RESTORATION CANDIDATE Discharge investigation Stream daylighting Local stream repair/outfall stabilization In no Storm water retrofit Other:						
If yes for davlighting:						
Length of vegetative cover from outfall: ft Type of existing vegetation: Slope:						
If yes for stormwater: Is stormwater currently controlled? Land Use description:						
Yes No Not investigated Area Available:						
	y discharge with a disti		mall dischame: flow mo	stly clear and odoriess. If t	he	
SEVERITY: strong smeil. The amount of discharge is significant dischar compared to the amount of normal flow in receiving			ischarge has a color and	ge has a color and/or odor, the amount of discharge; staining; or appearance		
(circle #) stream		d any impact appears to be minor / localized. of causing any erosion problems.				
	5 () 4(3	0	20	10
SKETCH/NOTES:						
				REPORTE	D TO AUTHORITIE	s: Yes No

HVA has created fillable electronic versions of each field sheet so that we can collect data using tablet computers.

These tablets will be used in conjunction with a GPS that will be used to take photos of each impact and collect geospatial information.



For organizational purposes each impact will be given a unique **Site ID**

Reach Number (within a specific subwatershed)

Impact Number (for that impact within a specific subwatershed)

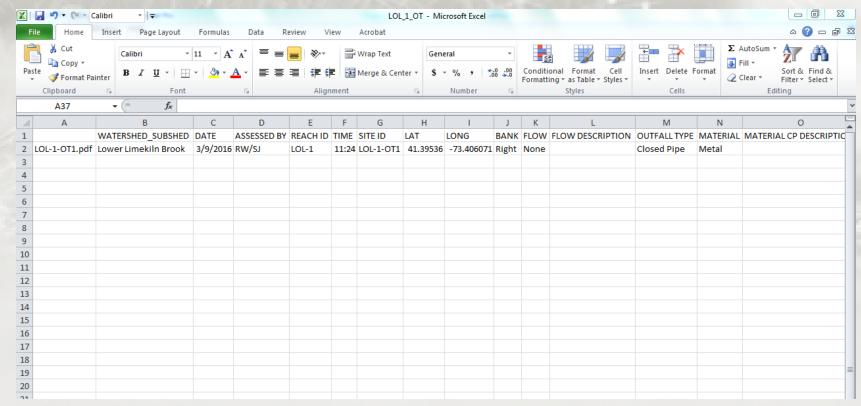
LOL-1-0T1

Subwatershed Code
LOL = Lower Limekiln Brook

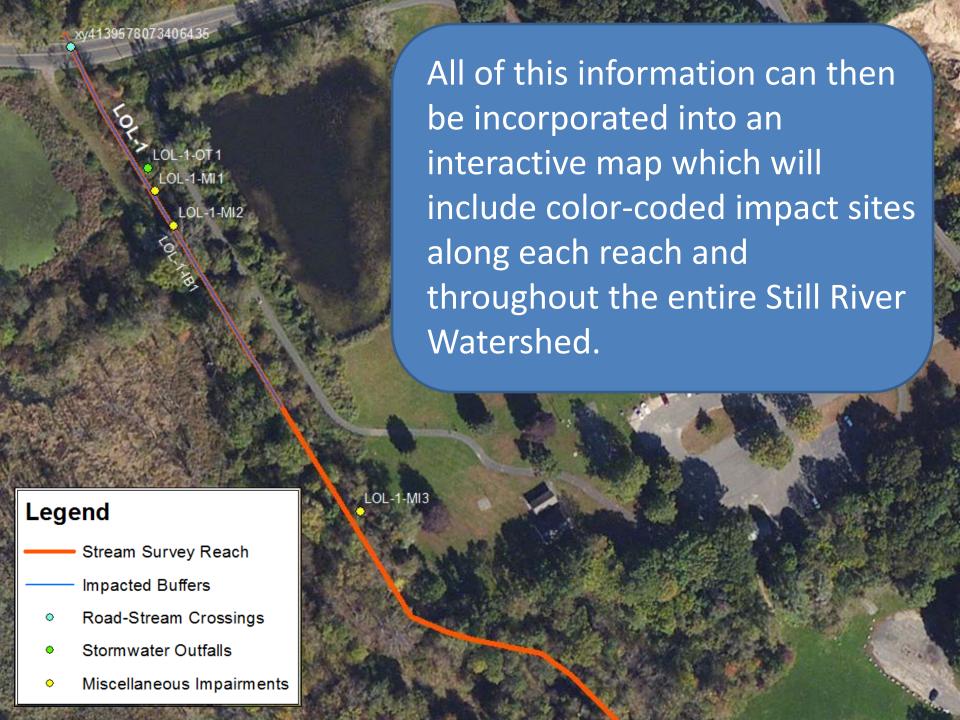
Impact Code
OT = Storm Water Outfall



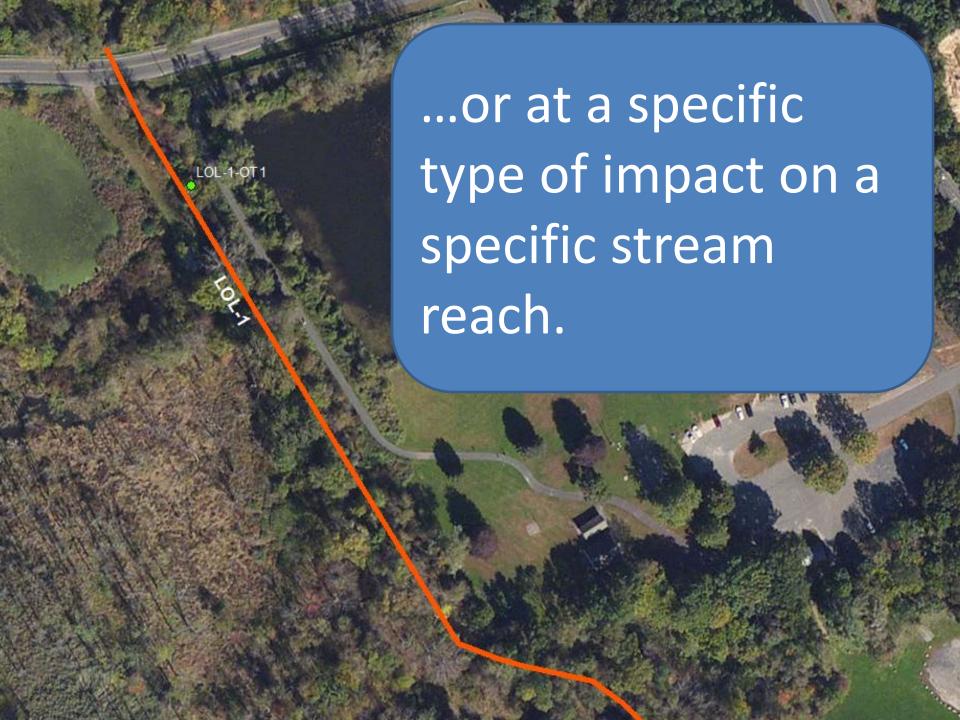
Data collected with these electronic field forms can then be easily exported into spreadsheets which can be linked with information collected with the GPS.

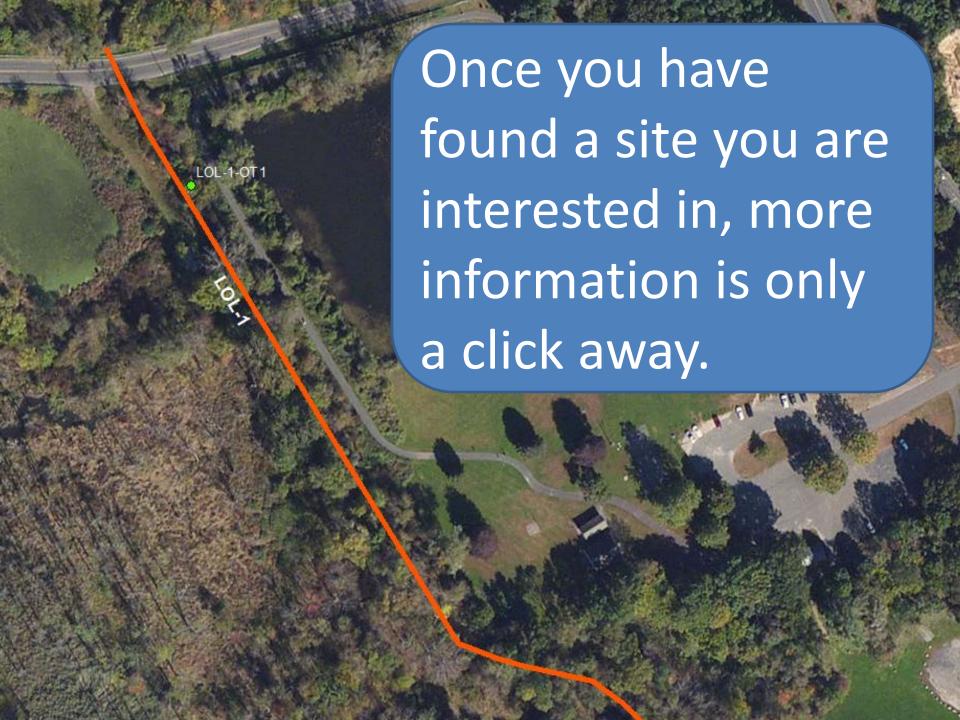


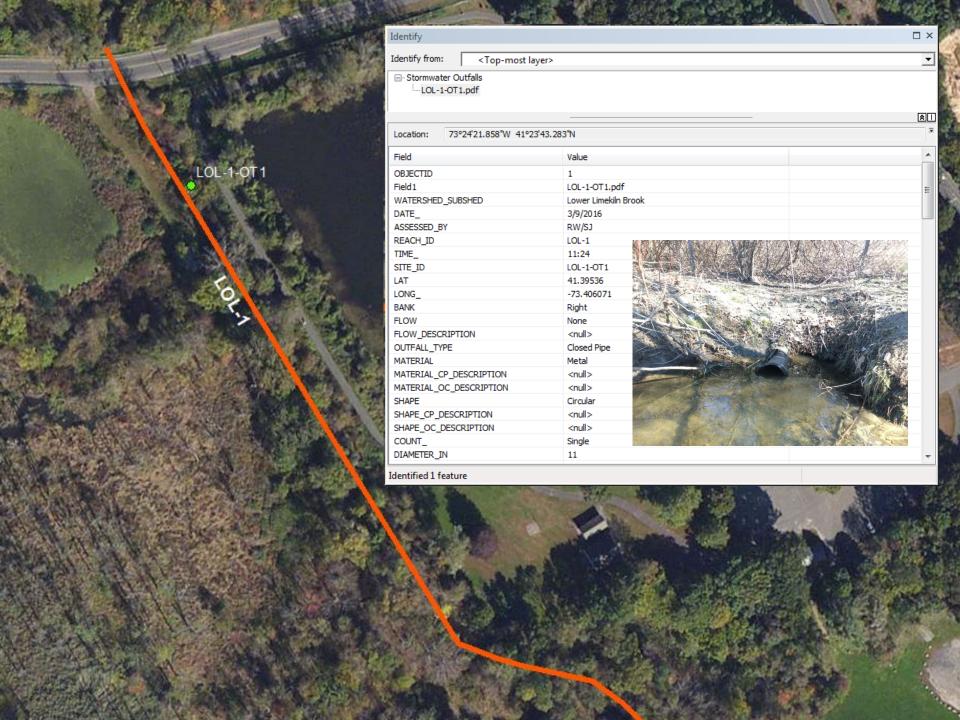














NEXT STEPS

- Based on what is discovered in the USA we will turn to the Unified Subwatershed and Site Reconnaissance (USSR) protocol also developed by CWP
- These assessments will look for potential sources of upland contributions to in stream pollution
- This will involve activities like the mapping of directly connected impervious area, depending on the impacts we identify during the USA





Looking Ahead: Draft ECR and Outreach, Vision and Goals, Implementation Strategy



Mike Jastremski, Housatonic Valley Association



Draft Existing Conditions Report

- Key milestone in planning process
- Major stakeholder and public outreach push





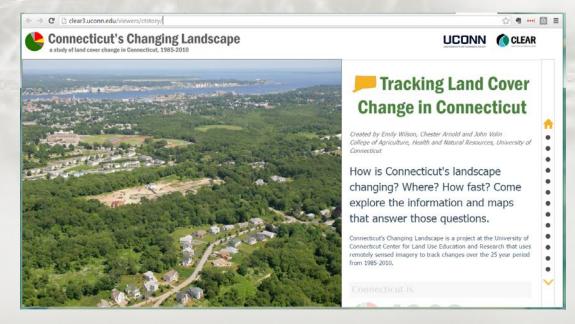


Draft Existing Conditions Report

- What does this look like?
 - ECR-based publications that are geared towards lay-people
 - Graphics-rich summary
 - Multi-media road-show
 - Story maps w/ opportunities for interaction and feedback

 Goal is to have Draft ECR late Fall 2016

http://clear3.uconn.edu/viewers/ctstory/





Watershed Vision and Goals

- Based on final ECR
- Developed by this group
- Will inform Implementation
 Strategy

