



## A G E N D A

Save the Sound and West River Watershed Coalition  
Stream Assessment Training Workshop

Common Ground School

June 22, 2015  
8:30 a.m. to 12:30 p.m.

8:30 a.m. - 8:40 a.m.	Welcome Kendall Barbery, Save the Sound
	Introductions and Schedule for the day David Askew, Fuss & O'Neill
8:40 a.m. - 10:00 a.m.	Indoor Training Session Seth Lerman and Todd Bobowick, Conn. NRCS
10:00 a.m. - 10:15 a.m.	Travel to Outdoor Training Site
10:15 a.m. - 12:00 noon	Outdoor Training Session: Wintergreen Brook
12:00 - 12:30 p.m.	Return to Common Ground School Lunch and Reach Assignments

## West River Watershed Stream Assessments Work Plan

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### Streams/Subwatersheds to Assess

Streams/subwatersheds with identified water quality issues (i.e., impairments) were selected for the stream assessments. Stream assessments are proposed in the more heavily-developed, lower half of the West River watershed (see attached maps). One reach was also selected in the upper part of the watershed, along the Sargent River, where water quality is very good. This reach will serve as a baseline or reference reach.

1. Lower West River: 6.67 miles
2. Wilmot Brook: 5.2 miles
  - a. Farm Brook: 3.8 miles
3. Belden Brook: 3.3 miles
4. Wintergreen Brook: 5.2 miles
5. Beaver Brook: 0.61 miles
6. Sargent River: 1.10 miles

### Assessment Reaches

Refer to attached maps and summary table for proposed stream reaches. Reaches were defined based on the following general criteria:

- At least one convenient access point from a road
- Located between major road crossings or a transition between significant land use change (generally include culverts with the associated downstream reach)
- Relatively homogeneous land use
- Separate reaches defined at confluence of two streams
- Reasonably accessible (check for private property)

### NRCS Stream Visual Assessment

#### Stream Assessment Elements

- Channel condition
- Hydrological alteration
- Bank conditions
- Riparian quantity
- Riparian quality
- Canopy cover
- Water appearance
- Presence of waste
- Pools
- Barriers to aquatic species migration

A "Reach Level Assessment" form will be completed for each reach. In addition, separate "Area of Concern" forms will be completed for problems observed in each reach, including:

- Degraded buffers
- Erosion
- Fish barriers
- Manipulated channel
- Stormwater outfalls
- Trash-debris
- Water conditions

Recommended Materials, Equipment, and Staffing

Item	Needed
Mapping	GIS subwatershed maps Street maps
Equipment	Waders Tape measure Digital camera, extra batteries GPS unit (Commercial grade) Pencils, notebook, clipboard Cell phone Spray paint Clippers
Data Forms	Impact Forms Reach Assessment Form Photo Inventory Notification Letter
Staffing	1 or more teams of 2 people

Survey Logistics

1. Where practical, start at downstream end of the reach and walk up the stream corridor.
2. Convention is to face downstream when determining problems for the left and right stream bank
3. As individual impact sites are encountered, they are mapped (sketched and GPS coordinates obtained) and photographed, and an appropriate "Area of Concern" form completed.
4. Draw the location and ID number for each impact site on the reach diagram located on the Reach Level Assessment form.
5. After team walks the entire survey reach, record the general impression of reach conditions on the Reach Level Assessment form.
6. When conditions vary considerably within a reach, the reach should be split up into more uniform segments

### General Safety and Responsibility

1. Plan each reach access location and vehicle drop off and pick up sites beforehand.
2. It is recommended to leave a volunteer letter on the dashboard of any cars left unattended while doing the stream survey.
3. Respect private property rights. If a landowner asks what you are doing, cordially inform them of your activities. If you are requested to leave the property, please do so. Information sheets with contact information are included in each packet for the landowner's information as needed.
4. The stream survey is intended to be informative and fun. If for any reason you are uncomfortable with landowner relations or stream conditions, move to another segment of the reach.

### West River Watershed Stream Assessment Reaches

Watercourse	Reach Name	Start - End	Miles	Total Reach Length/Notes
Lower West River				
	LW1	Confluence LIS to Spring Street	0.68	
	LW2	Spring Street to Route 1	0.95	
	LW3 (Reflecting Pool)	Just north of Route 1, east of river	0.88	Separate waterbody
	LW4	Just north of Route 1 to Derby	0.95	
	LW5	Derby Ave./Route 34 to Blake Street	1.27	
	LW6	Blake Street to Lily Pond	1.40	
	LW7	North confluence of Lily Pond to Konoids Pond	0.54	Total: 6.67
Un-named Tributary				
	ALW1	Confluence with Lower West River	0.28	
	ALW2	Confluence with ALW1: splits south	0.52	
	ALW3	Confluence with ALW1: splits north	0.86	Total: 1.65
Beaver Brook				
	BB1	North of Blake Street to Impoundment	0.61	Total: 0.61
Wilmot Brook				
	WLB1	East of Catherine's Way to Woodin St.	0.52	Extensive wetland with stream embedded. May not be walkable.
	WLB2	Woodin Street to North of Rt. 15	0.95	
	WLB3	Lane Street to Benham Street	0.57	
	WLB4	Benham Street to Howard Road	1.43	
	WLB5	Howard Road to end	.90	
	WLB5A	Hill Street to Impounment	.81	Total 5.20
Farm Brook				
	FB1	Morgan Lane to Benham Street	0.59	
	FB2	Benham Street to Autumn Ridge Rd.	1.31	
	FB3	Autumn Ridge Rd. to Farm Brook Reservoir	1.37	
	FB4	Farm Brook Reservoir to end.	0.48	Total: 3.7

West River Watershed Stream Assessment Reaches (continued)

Watercourse	Reach Name	Start - End	Miles	Total Reach Length/Notes
Belden Brook				
	BLB1	East of Winslow Field at Confluence of Wintergreen Brook to Woodin St.	0.39	
	BLB2	Woodin St. to Wintergreen Ave.	0.57	
	BLB3	Wintergreen Ave. to Benham St.	0.89	
	BLB4	Benham St. to Main Street	1.03	
	BLB5	Main Street to end	0.44	Total 3.34
Wintergreen Brook				
	WB1	Westville Village Apts. to Wintergreen Ave.	1.17	Confluence with West River may be inaccessible behind apartments. Start at Blake Street if necessary
	WB2	Wintergreen Ave. to Crossing at West Rock Nature Center	1.14	
	WB3	West Rock Nature Ctr. to Lake Wintergreen	0.53	
	WB4	North of Lake Wintergreen to Mountain Road	1.46	
	WB5	Mountain Road to end	0.93	Total 5.23
Sargent River	Reference		1.10	

# CT-NRCS Stream Assessment Sheet

Reach Level Assessment

Survey Basin Code:	Date(s):
Name of Stream:	Assessed By:
Reach Code:	
Designated Stream Type:	

Make All Observations Facing *Downstream*

Was the entire reach of stream surveyed?  Yes  No, Which section(s) were not surveyed? Why?

<b>Channel Morphology:</b> Mark the predominate condition(s), and indicate the average measurements.				
<input type="checkbox"/> Step-Pool	<input type="checkbox"/> Pool-Riffle	<input type="checkbox"/> Run	<input type="checkbox"/> Glide	* <input type="checkbox"/> Manipulated Channel (piped, lined, etc.)
Active Channel Width:			Glide Depth:	
Riffle Depth:			Step Height:	
Pool Depth:			Bank Height (Right Bank):	
Run Depth:			Bank Height (Left Bank):	

<b>Substrate Composition:</b> Mark approximate percentages for each substrate type observed.					
Silt or Clay	<input type="checkbox"/> <5%	<input type="checkbox"/> 5-25%	<input type="checkbox"/> 25-50%	<input type="checkbox"/> 50-75%	<input type="checkbox"/> >75%
Sand	<input type="checkbox"/> <5%	<input type="checkbox"/> 5-25%	<input type="checkbox"/> 25-50%	<input type="checkbox"/> 50-75%	<input type="checkbox"/> >75%
Gravel (0.1-2 inches)	<input type="checkbox"/> <5%	<input type="checkbox"/> 5-25%	<input type="checkbox"/> 25-50%	<input type="checkbox"/> 50-75%	<input type="checkbox"/> >75%
Cobble (2-10 inches)	<input type="checkbox"/> <5%	<input type="checkbox"/> 5-25%	<input type="checkbox"/> 25-50%	<input type="checkbox"/> 50-75%	<input type="checkbox"/> >75%
Boulder (>10 inches)	<input type="checkbox"/> <5%	<input type="checkbox"/> 5-25%	<input type="checkbox"/> 25-50%	<input type="checkbox"/> 50-75%	<input type="checkbox"/> >75%
Bedrock	<input type="checkbox"/> <5%	<input type="checkbox"/> 5-25%	<input type="checkbox"/> 25-50%	<input type="checkbox"/> 50-75%	<input type="checkbox"/> >75%

<b>Describe Water Conditions:</b> Mark all that apply.		
<input type="checkbox"/> Clear	<input type="checkbox"/> Stained ("iced tea")	* <input type="checkbox"/> Turbid (muddy / silty)
* <input type="checkbox"/> Green	* <input type="checkbox"/> Rusty-Red	* <input type="checkbox"/> Milky
* <input type="checkbox"/> Odors	* <input type="checkbox"/> Other (foam, dyes, chemicals)	

<b>Aquatic Plants in Stream:</b>			
Floating: (e.g. duck weed)	<input type="checkbox"/> Absent	<input type="checkbox"/> In Spots	* <input type="checkbox"/> Everywhere
Attached: (e.g. water lily)	<input type="checkbox"/> Absent	<input type="checkbox"/> In Spots	* <input type="checkbox"/> Everywhere

<b>Algae in Stream:</b>			
Floating: (e.g. planktonic)	<input type="checkbox"/> Absent	<input type="checkbox"/> In Spots	* <input type="checkbox"/> Everywhere
Attached: (e.g. filamentous)	<input type="checkbox"/> Absent	<input type="checkbox"/> In Spots	* <input type="checkbox"/> Everywhere

<b>Canopy Cover:</b> Mark approximate percentage of stream covered by tree canopy.			
<input type="checkbox"/> >75% covered	<input type="checkbox"/> 75-50% covered	<input type="checkbox"/> 50%-25% covered	<input type="checkbox"/> < 25% covered

**Area of Concern Worksheets**  
Indicate # and type of sheets completed for this reach assessment

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Erosion \_\_\_\_\_  
Fish Barrier \_\_\_\_\_  
Storm Water Outfall \_\_\_\_\_  
Modified Channel \_\_\_\_\_  
Impacted Buffer \_\_\_\_\_  
Trash / Debris \_\_\_\_\_  
Water Conditions \_\_\_\_\_

Note: Items marked with an asterisk (\*) indicate a potential area of concern. Please record all relevant information on the appropriate Area of Concern Worksheet(s).

# CT-NRCS Stream Assessment Sheet

## Reach Level Assessment

<b>Riparian Vegetation:</b> Characterize the average density of vegetation in the first 35 feet adjacent to the stream for both banks.						
	Left Bank	Right Bank	Left Bank	Right Bank	Left Bank	Right Bank
Turf Grass	<input type="checkbox"/> Low	<input type="checkbox"/> Low	<input type="checkbox"/> Moderate	<input type="checkbox"/> Moderate	<input type="checkbox"/> High	<input type="checkbox"/> High
Grass	<input type="checkbox"/> Low	<input type="checkbox"/> Low	<input type="checkbox"/> Moderate	<input type="checkbox"/> Moderate	<input type="checkbox"/> High	<input type="checkbox"/> High
Shrubs	<input type="checkbox"/> Low	<input type="checkbox"/> Low	<input type="checkbox"/> Moderate	<input type="checkbox"/> Moderate	<input type="checkbox"/> High	<input type="checkbox"/> High
Deciduous Trees	<input type="checkbox"/> Low	<input type="checkbox"/> Low	<input type="checkbox"/> Moderate	<input type="checkbox"/> Moderate	<input type="checkbox"/> High	<input type="checkbox"/> High
Coniferous Trees	<input type="checkbox"/> Low	<input type="checkbox"/> Low	<input type="checkbox"/> Moderate	<input type="checkbox"/> Moderate	<input type="checkbox"/> High	<input type="checkbox"/> High

<b>Surrounding Land Use:</b> Mark the dominate land use(s) for each "zone", if known or observed.					
<b>Immediately adjacent to stream</b>		<b>&lt; ¼ Mile from stream</b>		<b>&gt; ¼ Mile from stream</b>	
<input type="checkbox"/> Rural Residential	<input type="checkbox"/> Agricultural	<input type="checkbox"/> Rural Residential	<input type="checkbox"/> Agricultural	<input type="checkbox"/> Rural Residential	<input type="checkbox"/> Agricultural
<input type="checkbox"/> Suburban Residential	<input type="checkbox"/> Forested	<input type="checkbox"/> Suburban Residential	<input type="checkbox"/> Forested	<input type="checkbox"/> Suburban Residential	<input type="checkbox"/> Forested
<input type="checkbox"/> Urban Residential	<input type="checkbox"/> Recreational	<input type="checkbox"/> Urban Residential	<input type="checkbox"/> Recreational	<input type="checkbox"/> Urban Residential	<input type="checkbox"/> Recreational
<input type="checkbox"/> Industrial	<input type="checkbox"/> Other	<input type="checkbox"/> Industrial	<input type="checkbox"/> Other	<input type="checkbox"/> Industrial	<input type="checkbox"/> Other
<input type="checkbox"/> Commercial		<input type="checkbox"/> Commercial		<input type="checkbox"/> Commercial	

<b>Areas of Concern Checklist:</b> Marking "Yes" to any of the following questions indicates that an Area of Concern Worksheet should be filled out for the appropriate concern. For each occurrence observed, complete and area of concern sheet.		
Is there evidence of either stream bank erosion or streambed instability within the reach?	<input type="checkbox"/> Yes	<input type="checkbox"/> No
Are there any dams or any other possible natural or artificial barriers to fish migration?	<input type="checkbox"/> Yes	<input type="checkbox"/> No
Are there any storm water outfalls, discharge pipes or discharges within the reach? Indicate the number observed:_____.	<input type="checkbox"/> Yes	<input type="checkbox"/> No
Is there any portion of the channel that has been modified (not culvert) (channeled, piped, rip rap)?	<input type="checkbox"/> Yes	<input type="checkbox"/> No
Is there any portion of the reach where the riparian buffer has been compromised or is nonexistent?	<input type="checkbox"/> Yes	<input type="checkbox"/> No
Is there any portion of the reach that contains trash or other debris (cars, appliances, construction waste)?	<input type="checkbox"/> Yes	<input type="checkbox"/> No
Is there any portion of the reach that has a change in water conditions?	<input type="checkbox"/> Yes	<input type="checkbox"/> No

**Notes:** Use the space provided to record important observations otherwise not captured on the Reach Assessment Sheet or the Areas of Concern Worksheets.

# CT-NRCS Stream Assessment Sheet

## Reach Level Assessment

<b>Riparian Vegetation:</b> Characterize the average density of vegetation in the first 35 feet adjacent to the stream for both banks.						
	Left Bank	Right Bank	Left Bank	Right Bank	Left Bank	Right Bank
Turf Grass	<input type="checkbox"/> Low	<input type="checkbox"/> Low	<input type="checkbox"/> Moderate	<input type="checkbox"/> Moderate	<input type="checkbox"/> High	<input type="checkbox"/> High
Grass	<input type="checkbox"/> Low	<input type="checkbox"/> Low	<input type="checkbox"/> Moderate	<input type="checkbox"/> Moderate	<input type="checkbox"/> High	<input type="checkbox"/> High
Shrubs	<input type="checkbox"/> Low	<input type="checkbox"/> Low	<input type="checkbox"/> Moderate	<input type="checkbox"/> Moderate	<input type="checkbox"/> High	<input type="checkbox"/> High
Deciduous Trees	<input type="checkbox"/> Low	<input type="checkbox"/> Low	<input type="checkbox"/> Moderate	<input type="checkbox"/> Moderate	<input type="checkbox"/> High	<input type="checkbox"/> High
Coniferous Trees	<input type="checkbox"/> Low	<input type="checkbox"/> Low	<input type="checkbox"/> Moderate	<input type="checkbox"/> Moderate	<input type="checkbox"/> High	<input type="checkbox"/> High

<b>Surrounding Land Use:</b> Mark the dominate land use(s) for each "zone", if known or observed.					
Immediately adjacent to stream		< ¼ Mile from stream		> ¼ Mile from stream	
<input type="checkbox"/> Rural Residential	<input type="checkbox"/> Agricultural	<input type="checkbox"/> Rural Residential	<input type="checkbox"/> Agricultural	<input type="checkbox"/> Rural Residential	<input type="checkbox"/> Agricultural
<input type="checkbox"/> Suburban Residential	<input type="checkbox"/> Forested	<input type="checkbox"/> Suburban Residential	<input type="checkbox"/> Forested	<input type="checkbox"/> Suburban Residential	<input type="checkbox"/> Forested
<input type="checkbox"/> Urban Residential	<input type="checkbox"/> Recreational	<input type="checkbox"/> Urban Residential	<input type="checkbox"/> Recreational	<input type="checkbox"/> Urban Residential	<input type="checkbox"/> Recreational
<input type="checkbox"/> Industrial	<input type="checkbox"/> Other	<input type="checkbox"/> Industrial	<input type="checkbox"/> Other	<input type="checkbox"/> Industrial	<input type="checkbox"/> Other
<input type="checkbox"/> Commercial		<input type="checkbox"/> Commercial		<input type="checkbox"/> Commercial	

<b>Areas of Concern Checklist:</b> Marking "Yes" to any of the following questions indicates that an Area of Concern Worksheet should be filled out for the appropriate concern. For each occurrence observed, complete and area of concern sheet.		
Is there evidence of either stream bank erosion or streambed instability within the reach?	<input type="checkbox"/> Yes	<input type="checkbox"/> No
Are there any dams or any other possible natural or artificial barriers to fish migration?	<input type="checkbox"/> Yes	<input type="checkbox"/> No
Are there any storm water outfalls, discharge pipes or discharges within the reach? Indicate the number observed: _____.	<input type="checkbox"/> Yes	<input type="checkbox"/> No
Is there any portion of the channel that has been modified (not culvert) (channeled, piped, rip rap)?	<input type="checkbox"/> Yes	<input type="checkbox"/> No
Is there any portion of the reach where the riparian buffer has been compromised or is nonexistent?	<input type="checkbox"/> Yes	<input type="checkbox"/> No
Is there any portion of the reach that contains trash or other debris (cars, appliances, construction waste)?	<input type="checkbox"/> Yes	<input type="checkbox"/> No
Is there any portion of the reach that has a change in water conditions?	<input type="checkbox"/> Yes	<input type="checkbox"/> No

**Notes:** Use the space provided to record important observations otherwise not captured on the Reach Assessment Sheet or the Areas of Concern Worksheets.

# CT – NRCS Stream Assessment Worksheet

## Visual Water Conditions / Excessive Plant or Algae Growth

Survey Basin Code:	Date:
Name of Stream:	Assessed By:
Reach Code:	
Designated Stream Type:	
Site ID:	

Make All Observations Facing *Downstream*

**Location / Extent of Visual Water Conditions and/or Excessive Plant or Algae Growth:** 1) Mark and label the location on the map. 2) Briefly describe the location of the site relative to roads or other landmarks.

**Immediately Adjacent Land Use:** Mark the land use(s) immediately adjacent to the modified section.

<input type="checkbox"/> Rural Residential	<input type="checkbox"/> Urban Residential	<input type="checkbox"/> Commercial	<input type="checkbox"/> Forested
<input type="checkbox"/> Suburban Residential	<input type="checkbox"/> Industrial	<input type="checkbox"/> Agricultural	<input type="checkbox"/> Recreational

**Describe Water Conditions:** Mark all that apply.

<input type="checkbox"/> Clear	<input type="checkbox"/> Stained (“iced tea”)	<input type="checkbox"/> Turbid (muddy / silty)	<input type="checkbox"/> Odors
<input type="checkbox"/> Green	<input type="checkbox"/> Rusty-Red	<input type="checkbox"/> Milky	<input type="checkbox"/> Other (foam, dyes, chemicals)

**Canopy Cover:** Mark approximate percentage of stream covered by tree canopy.

<input type="checkbox"/> >75% covered	<input type="checkbox"/> 75-50% covered	<input type="checkbox"/> 50%-25% covered	<input type="checkbox"/> < 25% covered
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**Aquatic Plants in Stream:**

Floating: (e.g. duck weed)	<input type="checkbox"/> Absent	<input type="checkbox"/> In Spots	<input type="checkbox"/> Everywhere
Attached: (e.g. water lily)	<input type="checkbox"/> Absent	<input type="checkbox"/> In Spots	<input type="checkbox"/> Everywhere

**Algae in Stream:**

Floating: (e.g. planktonic)	<input type="checkbox"/> Absent	<input type="checkbox"/> In Spots	<input type="checkbox"/> Everywhere
Attached: (e.g. filamentous)	<input type="checkbox"/> Absent	<input type="checkbox"/> In Spots	<input type="checkbox"/> Everywhere

Is the change in water condition or excessive plant / algae growth located at or directly below a storm water outfall?	<input type="checkbox"/> Yes	<input type="checkbox"/> No
Is the change in water conditions or excessive plant / algae growth associated with a change in channel dimensions (depth & width)?	<input type="checkbox"/> Yes	<input type="checkbox"/> No
Is the change in water conditions or excessive plant / algae growth associated with an impoundment / dam on the stream?	<input type="checkbox"/> Yes	<input type="checkbox"/> No

**Notes:** Use the space provided to record important observations otherwise not captures on this sheet.

**CT – NRCS  
Stream Assessment Worksheet**

Trash / Debris

Survey Basin Code:	Date:
Name of Stream:	Assessed By:
Reach Code:	
Designated Stream Type:	
Site ID:	

Make All Observations Facing *Downstream*

**Location / Extent of Trash or Debris:** Mark and label the location of the trash or debris on the map and provide a brief description of the location relative to roads or other landmarks.

<input type="checkbox"/> Within Stream	<input type="checkbox"/> Riparian Area:	<input type="checkbox"/> Left Bank	<input type="checkbox"/> Right Bank
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<b>Type:</b>	<input type="checkbox"/> Residential	<input type="checkbox"/> Commercial	<input type="checkbox"/> Industrial	
<b>Material:</b>	<input type="checkbox"/> Plastic	<input type="checkbox"/> Tires	<input type="checkbox"/> Appliances	<input type="checkbox"/> Other
	<input type="checkbox"/> Paper	<input type="checkbox"/> Metal	<input type="checkbox"/> Automotive	
	<input type="checkbox"/> Yard Waste	<input type="checkbox"/> Construction	<input type="checkbox"/> Medical	
<b>Source:</b>	<input type="checkbox"/> Unknown	<input type="checkbox"/> Flooding	<input type="checkbox"/> Illegal Dumping	<input type="checkbox"/> Local Outfall
<b>Land Ownership:</b>	<input type="checkbox"/> Private	<input type="checkbox"/> Public	<input type="checkbox"/> Unknown	

**Notes:** Use the space provided to record important observations otherwise not captures on this sheet.

**CT – NRCS  
Stream Assessment Worksheet**

Degraded Buffer

Survey Basin Code:	Date:
Name of Stream:	Assessed By:
Reach Code:	
Designated Stream Type:	
Site ID:	

Make All Observations Facing *Downstream*

**Location / Extent of Degraded Buffer:** 1) Mark and label the location of the degraded buffer on the map. 2) Briefly describe the location of the site relative to roads or other landmarks.

**Mark where the degraded buffer occurs.**

<input type="checkbox"/> Meander Bend	<input type="checkbox"/> Straight Section	<input type="checkbox"/> Steep Slope/Valley Wall	<input type="checkbox"/> Other
<input type="checkbox"/> Left Bank	Estimate length of degraded buffer:                      ft.		
<input type="checkbox"/> Right Bank	Estimate length of degraded buffer:                      ft.		

**Type of Degradation:**

<b>Left Bank:</b>	<input type="checkbox"/> Minimal Vegetation	<input type="checkbox"/> Minimal Width	<input type="checkbox"/> Invasive Plants	<input type="checkbox"/> Other
<b>Right Bank:</b>	<input type="checkbox"/> Minimal Vegetation	<input type="checkbox"/> Minimal Width	<input type="checkbox"/> Invasive Plants	<input type="checkbox"/> Other

Dominate Land Cover	Paved	Bare Ground	Turf / Lawn	Tall Grass	Scrub / Shrub	Trees	Other
<b>Left Bank</b>	<input type="checkbox"/>						
<b>Right Bank</b>	<input type="checkbox"/>						

**Immediately Adjacent Land Use:** Mark the land use(s) immediately adjacent to the modified section.

<b>Left Bank:</b>	<input type="checkbox"/> Rural Residential	<input type="checkbox"/> Urban Residential	<input type="checkbox"/> Commercial	<input type="checkbox"/> Forested
	<input type="checkbox"/> Suburban Residential	<input type="checkbox"/> Industrial	<input type="checkbox"/> Agricultural	<input type="checkbox"/> Recreational
<b>Right Bank:</b>	<input type="checkbox"/> Rural Residential	<input type="checkbox"/> Urban Residential	<input type="checkbox"/> Commercial	<input type="checkbox"/> Forested
	<input type="checkbox"/> Suburban Residential	<input type="checkbox"/> Industrial	<input type="checkbox"/> Agricultural	<input type="checkbox"/> Recreational

**Existing Width of Riparian Vegetation:** Mark the average width of riparian vegetation to the modified section.

<b>Left Bank:</b>	<input type="checkbox"/> < 15 ft.	<input type="checkbox"/> 15 – 35 ft.	<input type="checkbox"/> 35 – 50 ft.	<input type="checkbox"/> 50 – 100 ft	<input type="checkbox"/> > 100 ft
<b>Right Bank:</b>	<input type="checkbox"/> < 15 ft.	<input type="checkbox"/> 15 – 35 ft.	<input type="checkbox"/> 35 – 50 ft.	<input type="checkbox"/> 50 – 100 ft	<input type="checkbox"/> > 100 ft

**Notes:** Use the space provided to record important observations otherwise not captures on this sheet.

**CT – NRCS  
Stream Assessment Worksheet**

Erosion Assessment

Survey Basin Code:	Date:
Name of Stream:	Assessed By:
Reach Code:	
Designated Stream Type:	
Site ID:	

Make All Observations Facing *Downstream*

**Location of Bank Erosion:** 1) Mark and label the location of the erosion on the map. 2) Briefly describe the location of the site relative to roads or other landmarks.

**Mark where erosion is occurring:**

<input type="checkbox"/> Meander Bend	<input type="checkbox"/> Straight Section	<input type="checkbox"/> Steep Slope/Valley Wall	<input type="checkbox"/> Other
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**Site Dimensions:** Indicate all applicable measurements associated with the erosion site

<b>Length:</b>	Left Bank:	ft.	Right Bank:	ft.
<b>Bank Height:</b>	Left Bank:	ft.	Right Bank:	ft.
<b>Bank Angle:</b>	Left Bank:	deg.	Right Bank:	deg.

**What is the proximity of the erosion site to infrastructure** (e.g. road, bridge, building, etc.)?

<input type="checkbox"/> < 15 ft.	<input type="checkbox"/> 15 - 30 ft	<input type="checkbox"/> 30 - 45 ft	<input type="checkbox"/> 45 - 60 ft	<input type="checkbox"/> 60 - 100 ft	<input type="checkbox"/> > 100 ft.
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**Immediately Adjacent Land Use:** Mark the land use(s) immediately adjacent to the erosion site.

<input type="checkbox"/> Rural Residential	<input type="checkbox"/> Urban Residential	<input type="checkbox"/> Commercial	<input type="checkbox"/> Forested
<input type="checkbox"/> Suburban Residential	<input type="checkbox"/> Industrial	<input type="checkbox"/> Agricultural	<input type="checkbox"/> Recreational

**Land Ownership:** Mark land ownership at the location of the erosion site.

<input type="checkbox"/> Public	<input type="checkbox"/> Private	<input type="checkbox"/> Unknown
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**Existing Width of Riparian Vegetation:** Mark the average width of riparian vegetation at the erosion site.

<input type="checkbox"/> < 15 ft.	<input type="checkbox"/> 15 - 35 ft.	<input type="checkbox"/> 35 - 50 ft.	<input type="checkbox"/> 50 - 100 ft	<input type="checkbox"/> > 100 ft
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**Notes:** Use the space provided to record important observations otherwise not captured on this sheet.

# CT – NRCS Stream Assessment Worksheet

Fish Barrier

Survey Basin Code:	Date:
Name of Stream:	Assessed By:
Reach Code:	
Designated Stream Type:	
Site ID:	

**Make All Observations Facing *Downstream***

**Location of Barrier:** Mark and label the location of the barrier on the map and provide a brief description of the location of the barrier relative to roads or other landmarks.

**Type of Barrier:** Mark the type of fish barrier.

<input type="checkbox"/> Dam	<input type="checkbox"/> Culvert	<input type="checkbox"/> Velocity Barrier	<input type="checkbox"/> Other
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**Dam Data:** Provide all relevant data.

<b>Height of Dam:</b> ft.	<b>Length of Spillway:</b> ft.	<b>Shape of Spillway:</b> <input type="checkbox"/> Straight <input type="checkbox"/> Crescent		
<b>Materials:</b> <input type="checkbox"/> Stone	<input type="checkbox"/> Concrete	<input type="checkbox"/> Stone & Concrete	<input type="checkbox"/> Timber-Crib	<input type="checkbox"/> Other
<b>Is there other infrastructure associated with the Dam?</b> <input type="checkbox"/> No <input type="checkbox"/> Yes (If yes mark the type below)				
<input type="checkbox"/> Factory	<input type="checkbox"/> Hydro Facility	<input type="checkbox"/> Mill	<input type="checkbox"/> Residence	<input type="checkbox"/> Other

**Culvert Data:** Provide all relevant data.

<b>Type of Culvert:</b>	<input type="checkbox"/> Box	<input type="checkbox"/> Pipe	<input type="checkbox"/> Pipe-Arch	<input type="checkbox"/> Arch
<b>Culvert Material:</b>	<input type="checkbox"/> Concrete	<input type="checkbox"/> Corrugated Metal	<input type="checkbox"/> Plastic	<input type="checkbox"/> Stone
<b>Culvert Outlet:</b>	<input type="checkbox"/> Perched:....._____ft.	<input type="checkbox"/> Ramped	<input type="checkbox"/> Submerged	
<b>Culvert Size:</b>	Diameter:             ft.	Height:                 ft.	Width:                 ft.	
<b># of Culverts:</b>	<b>Culvert Length:</b> ft.			

**Velocity Barrier Data:** Provide all relevant data.

<b>Nature of Barrier:</b>	<input type="checkbox"/> Grade Control Sill	<input type="checkbox"/> Concrete Apron	<input type="checkbox"/> Channel Cross-Section	<input type="checkbox"/> Other
<b>Length of Barrier:</b> ft.	<b>Approx. Vertical Rise:</b> ft.			

**Notes:** Use the space provided to record important observations otherwise not captured on this sheet.

**CT – NRCS  
Stream Assessment Worksheet**

Modified Channel

Survey Basin Code:	Date:
Name of Stream:	Assessed By:
Reach Code:	
Designated Stream Type:	
Site ID:	

Make All Observations Facing *Downstream*

**Location / Extent of Modified Channel:** Mark and label the location of the modified channel on the map and provide a brief description of the location of the channel section relative to roads or other landmarks.

**Mark where channel modification occurs:**

<input type="checkbox"/> Meander Bend	<input type="checkbox"/> Straight Section	<input type="checkbox"/> Steep Slope/Valley Wall	<input type="checkbox"/> Other
<b>Estimate length of channel modification:</b> ft.		<b>Estimate height of bank modification:</b> ft.	

<b>Type of Manipulation:</b>	<input type="checkbox"/> Channelization	<input type="checkbox"/> Bank Armoring	<input type="checkbox"/> Concrete Channel	<input type="checkbox"/> Other	
<b>Extent of Manipulation:</b>	<input type="checkbox"/> Right Bank	<input type="checkbox"/> Left Bank	<input type="checkbox"/> Channel Bottom		
<b>Channel / Bank Materials:</b>	<input type="checkbox"/> Natural	<input type="checkbox"/> Rip Rap	<input type="checkbox"/> Concrete	<input type="checkbox"/> Gabions	<input type="checkbox"/> Metal

**Immediately Adjacent Land Use:** Mark the land use(s) immediately adjacent to the modified section.

<input type="checkbox"/> Rural Residential	<input type="checkbox"/> Urban Residential	<input type="checkbox"/> Commercial	<input type="checkbox"/> Forested
<input type="checkbox"/> Suburban Residential	<input type="checkbox"/> Industrial	<input type="checkbox"/> Agricultural	<input type="checkbox"/> Recreational

**Existing Width of Riparian Vegetation:** Mark the average width of riparian vegetation to the modified section.

<input type="checkbox"/> < 15 ft.	<input type="checkbox"/> 15 – 35 ft.	<input type="checkbox"/> 35 – 50 ft.	<input type="checkbox"/> 50 – 100 ft	<input type="checkbox"/> > 100 ft
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Is there a change in the average width of the active channel?	<input type="checkbox"/> Yes / Estimate Width:      ft	<input type="checkbox"/> No
Is there evidence of sediment deposition in the channel?	<input type="checkbox"/> Yes	<input type="checkbox"/> No
Is the channel connected to a floodplain?	<input type="checkbox"/> Yes	<input type="checkbox"/> No

**Notes:** Use the space provided to record important observations otherwise not captures on this sheet.

# CT – NRCS Stream Assessment Worksheet

Storm Water Outfall

Survey Basin Code:	Date:
Name of Stream:	Assessed By:
Reach Code:	
Designated Stream Type:	
Site ID:	

**Make All Observations Facing *Downstream***

**Location of Outfall:**  Right Bank  Left Bank Mark and label the location of the outfall on the map and provide a brief description of the location of the outfall relative to roads or other landmarks.

<b>Outfall Type:</b>	<input type="checkbox"/> Pipe	<input type="checkbox"/> Leak Off	<input type="checkbox"/> Channel	
<b>Flow:</b>	<input type="checkbox"/> None	<input type="checkbox"/> Trickle	<input type="checkbox"/> Moderate	<input type="checkbox"/> Substantial
<b>Odor:</b>	<input type="checkbox"/> None	<input type="checkbox"/> Sewage	<input type="checkbox"/> Rancid / Sour	<input type="checkbox"/> Sulfur (rotten eggs)
<b>Deposits / Stains</b>	<input type="checkbox"/> None	<input type="checkbox"/> Sediment Delta	<input type="checkbox"/> Oily Stain	<input type="checkbox"/> Black
<b>Benthic Growth</b>	<input type="checkbox"/> None	<input type="checkbox"/> Brown	<input type="checkbox"/> Green	<input type="checkbox"/> Orange

**Pipe Data:** Provide all relevant data.

<b>Pipe Material:</b>	<input type="checkbox"/> Concrete	<input type="checkbox"/> Corrugated Metal	<input type="checkbox"/> Plastic	<input type="checkbox"/> Other
<b>Contributing Source(s):</b>	<input type="checkbox"/> Road	<input type="checkbox"/> Parking Lot	<input type="checkbox"/> Other	<input type="checkbox"/> Unknown
<b>Pipe Outlet:</b>	<input type="checkbox"/> Perched.....ft.	<input type="checkbox"/> Ramped	<input type="checkbox"/> At Stream Level	
<b>Pipe Size:</b>	Diameter:                      ft.			
<b># of Pipes:</b>	<input type="checkbox"/> 1	<input type="checkbox"/> 2	<input type="checkbox"/> 3 +	

**Leak-Off Data:** Provide all relevant data.

<b>Leak-Off Swale:</b>	<input type="checkbox"/> Concrete	<input type="checkbox"/> Asphalt	<input type="checkbox"/> Stone	<input type="checkbox"/> Earthen
<b>Contributing Source (s):</b>	<input type="checkbox"/> Road	<input type="checkbox"/> Parking Lot	<input type="checkbox"/> Recreational Field	<input type="checkbox"/> Other
<b>Length of Swale:      ft.</b>				
<b>Width of Swale:      ft.</b>				

**Channel Data:** Provide all relevant data.

<b>Channel Material:</b>	<input type="checkbox"/> Concrete	<input type="checkbox"/> Asphalt	<input type="checkbox"/> Stone	<input type="checkbox"/> Earthen
<b>Contributing Source (s):</b>	<input type="checkbox"/> Road	<input type="checkbox"/> Parking Lot	<input type="checkbox"/> Recreational Field	<input type="checkbox"/> Other <input type="checkbox"/> Unknown
<b>Channel Length:      ft.</b>				
<b>Channel Width:      ft.</b>				

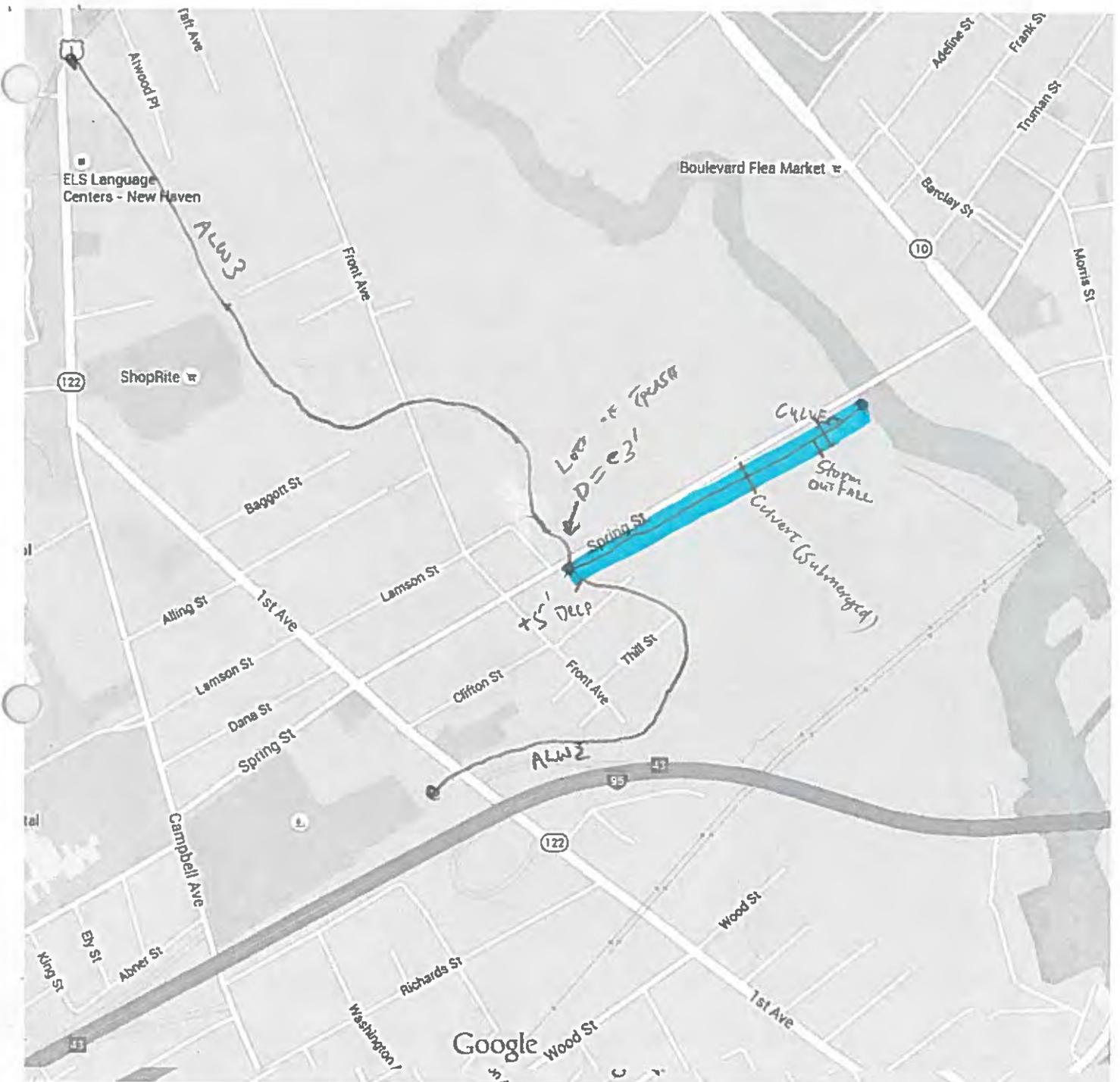
**Notes:** Use the space provided to record important observations otherwise not captures on this sheet.

Completed Stream Assessment Forms  
Un-named Tributary ALW

ALW 1

0.28 Mi

8 SPRING ST To



8 SPRING ST. To 46 SPRING ST.

# CT-NRCS Stream Assessment Sheet

Reach Level Assessment

Survey Basin Code:	Date(s): 7/28 8 30 - 9...
Name of Stream: UNNAMED TRIB	Assessed By: BH RE
Reach Code: ALW1	
Designated Stream Type:	

**Make All Observations Facing *Downstream***

Was the entire reach of stream surveyed?  Yes  No, Which section(s) were not surveyed? Why?

**Channel Morphology:** Mark the predominate condition(s), and indicate the average measurements.

<input type="checkbox"/> Step-Pool	<input type="checkbox"/> Pool-Riffle	<input type="checkbox"/> Run	<input checked="" type="checkbox"/> Glide	* <input type="checkbox"/> Manipulated Channel (piped, lined, etc.)
Active Channel Width: 15 ft		Glide Depth: 5 ft		
Riffle Depth:		Step Height:		
Pool Depth:		Bank Height (Right Bank): 0		
Run Depth:		Bank Height (Left Bank): 0		

**Substrate Composition:** Mark approximate percentages for each substrate type observed.

Silt or Clay	<input type="checkbox"/> <5%	<input checked="" type="checkbox"/> 5-25%	<input type="checkbox"/> 25-50%	<input type="checkbox"/> 50-75%	<input type="checkbox"/> >75%
Sand	<input type="checkbox"/> <5%	<input type="checkbox"/> 5-25%	<input type="checkbox"/> 25-50%	<input checked="" type="checkbox"/> 50-75%	<input type="checkbox"/> >75%
Gravel (0.1-2 inches)	<input checked="" type="checkbox"/> <5%	<input type="checkbox"/> 5-25%	<input type="checkbox"/> 25-50%	<input type="checkbox"/> 50-75%	<input type="checkbox"/> >75%
Cobble (2-10 inches)	<input type="checkbox"/> <5%	<input type="checkbox"/> 5-25%	<input type="checkbox"/> 25-50%	<input type="checkbox"/> 50-75%	<input type="checkbox"/> >75%
Boulder (>10 inches)	<input type="checkbox"/> <5%	<input type="checkbox"/> 5-25%	<input type="checkbox"/> 25-50%	<input type="checkbox"/> 50-75%	<input type="checkbox"/> >75%
Bedrock	<input type="checkbox"/> <5%	<input type="checkbox"/> 5-25%	<input type="checkbox"/> 25-50%	<input type="checkbox"/> 50-75%	<input type="checkbox"/> >75%

**Describe Water Conditions:** Mark all that apply.

<input type="checkbox"/> Clear	<input checked="" type="checkbox"/> Stained ("iced tea")	* <input type="checkbox"/> Turbid (muddy / silty)
* <input type="checkbox"/> Green	* <input type="checkbox"/> Rusty-Red	* <input type="checkbox"/> Milky
* <input checked="" type="checkbox"/> Odors	* <input type="checkbox"/> Other (foam, dyes, chemicals)	

**Aquatic Plants in Stream:**

Floating: (e.g. duck weed)	<input checked="" type="checkbox"/> Absent	<input type="checkbox"/> In Spots	* <input type="checkbox"/> Everywhere
Attached: (e.g. water lily)	<input checked="" type="checkbox"/> Absent	<input type="checkbox"/> In Spots	* <input type="checkbox"/> Everywhere

**Algae in Stream:**

Floating: (e.g. planktonic)	<input checked="" type="checkbox"/> Absent	<input type="checkbox"/> In Spots	* <input type="checkbox"/> Everywhere
Attached: (e.g. filamentous)	<input checked="" type="checkbox"/> Absent	<input type="checkbox"/> In Spots	* <input type="checkbox"/> Everywhere

**Canopy Cover:** Mark approximate percentage of stream covered by tree canopy.

<input type="checkbox"/> >75% covered	<input type="checkbox"/> 75-50% covered	<input type="checkbox"/> 50%-25% covered	<input checked="" type="checkbox"/> < 25% covered	None
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**Area of Concern Worksheets**  
Indicate # and type of sheets completed for this reach assessment

Erosion	_____
Fish Barrier	_____
Storm Water Outfall	_____
Modified Channel	_____
Impacted Buffer	_____
Trash / Debris	_____
Water Conditions	_____

**Note: Items marked with an asterisk (\*) indicate a potential area of concern. Please record all relevant information on the appropriate Area of Concern Worksheet(s).**

**CT-NRCS  
Stream Assessment Sheet**

Reach Level Assessment

<b>Riparian Vegetation:</b> Characterize the average density of vegetation in the first 35 feet adjacent to the stream for both banks.						
	Left Bank	Right Bank	Left Bank	Right Bank	Left Bank	Right Bank
Turf Grass	<input type="checkbox"/> Low	<input type="checkbox"/> Low	<input type="checkbox"/> Moderate	<input type="checkbox"/> Moderate	<input type="checkbox"/> High	<input type="checkbox"/> High
Grass	<input type="checkbox"/> Low	<input type="checkbox"/> Low	<input type="checkbox"/> Moderate	<input type="checkbox"/> Moderate	<input checked="" type="checkbox"/> High	<input checked="" type="checkbox"/> High
Shrubs	<input type="checkbox"/> Low	<input type="checkbox"/> Low	<input type="checkbox"/> Moderate	<input type="checkbox"/> Moderate	<input type="checkbox"/> High	<input type="checkbox"/> High
Deciduous Trees	<input type="checkbox"/> Low	<input type="checkbox"/> Low	<input type="checkbox"/> Moderate	<input type="checkbox"/> Moderate	<input type="checkbox"/> High	<input type="checkbox"/> High
Coniferous Trees	<input type="checkbox"/> Low	<input type="checkbox"/> Low	<input type="checkbox"/> Moderate	<input type="checkbox"/> Moderate	<input type="checkbox"/> High	<input type="checkbox"/> High

<b>Surrounding Land Use:</b> Mark the dominate land use(s) for each "zone", if known or observed.					
Immediately adjacent to stream		< 1/4 Mile from stream		> 1/4 Mile from stream	
<input type="checkbox"/> Rural Residential	<input type="checkbox"/> Agricultural	<input type="checkbox"/> Rural Residential	<input type="checkbox"/> Agricultural	<input type="checkbox"/> Rural Residential	<input type="checkbox"/> Agricultural
<input type="checkbox"/> Suburban Residential	<input type="checkbox"/> Forested	<input type="checkbox"/> Suburban Residential	<input type="checkbox"/> Forested	<input type="checkbox"/> Suburban Residential	<input type="checkbox"/> Forested
<input type="checkbox"/> Urban Residential	<input type="checkbox"/> Recreational	<input type="checkbox"/> Urban Residential	<input type="checkbox"/> Recreational	<input checked="" type="checkbox"/> Urban Residential	<input type="checkbox"/> Recreational
<input checked="" type="checkbox"/> Industrial	<input type="checkbox"/> Other	<input checked="" type="checkbox"/> Industrial	<input type="checkbox"/> Other	<input checked="" type="checkbox"/> Industrial	<input type="checkbox"/> Other
<input checked="" type="checkbox"/> Commercial		<input checked="" type="checkbox"/> Commercial		<input checked="" type="checkbox"/> Commercial	

<b>Areas of Concern Checklist:</b> Marking "Yes" to any of the following questions indicates that an Area of Concern Worksheet should be filled out for the appropriate concern. For each occurrence observed, complete and area of concern sheet.		
Is there evidence of either stream bank erosion or streambed instability within the reach?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Are there any dams or any other possible natural or artificial barriers to fish migration?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
Are there any storm water outfalls, discharge pipes or discharges within the reach? Indicate the number observed:	<input type="checkbox"/> Yes	<input type="checkbox"/> No
Is there any portion of the channel that has been modified (not culvert) (channeled, piped, rip rap)?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
Is there any portion of the reach where the riparian buffer has been compromised or is nonexistent?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
Is there any portion of the reach that contains trash or other debris (cars, appliances, construction waste)?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
Is there any portion of the reach that has a change in water conditions?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No

**Notes:** Use the space provided to record important observations otherwise not captured on the Reach Assessment Sheet or the Areas of Concern Worksheets.

# CT - NRCS Stream Assessment Worksheet

Modified Channel

Survey Basin Code:	Date: 7/28
Name of Stream: ALW-1	Assessed By: BH RE
Reach Code: UNNAMED	
Designated Stream Type:	
Site ID:	

**Make All Observations Facing *Downstream***

**Location / Extent of Modified Channel:** Mark and label the location of the modified channel on the map and provide a brief description of the location of the channel section relative to roads or other landmarks.

ENTIRE STRUCTURE LIKELY MODIFIED

**Mark where channel modification occurs:**

Meander Bend    
  Straight Section    
  Steep Slope/Valley Wall    
  Other

Estimate length of channel modification: ft. 0.284

Estimate height of bank modification: ft.

**Type of Manipulation:**    
  Channelization    
  Bank Armoring    
  Concrete Channel    
  Other

**Extent of Manipulation:**    
  Right Bank    
  Left Bank    
  Channel Bottom

**Channel / Bank Materials:**    
  Natural    
  Rip Rap    
  Concrete    
  Gabions    
  Metal

**Immediately Adjacent Land Use:** Mark the land use(s) immediately adjacent to the modified section.

Rural Residential    
  Urban Residential    
  Commercial    
  Forested

Suburban Residential    
  Industrial    
  Agricultural    
  Recreational

**Existing Width of Riparian Vegetation:** Mark the average width of riparian vegetation to the modified section.

< 15 ft.    
  15 - 35 ft.    
  35 - 50 ft.    
  50 - 100 ft.    
  > 100 ft. RIV LEFT

Is there a change in the average width of the active channel?    
  Yes / Estimate Width: ft    
  No

Is there evidence of sediment deposition in the channel?    
  Yes    
  No

Is the channel connected to a floodplain?    
  Yes    
  No

**Notes:** Use the space provided to record important observations otherwise not captures on this sheet.

NO ARMORING VISIBLE, DENSE BANK VEGETATION

**CT - NRCS  
Stream Assessment Worksheet**

Trash / Debris

Survey Basin Code:	Date: 7-28
Name of Stream:	Assessed By: BH RE
Reach Code: ALW-1	
Designated Stream Type:	
Site ID:	

**Make All Observations Facing *Downstream***

**Location / Extent of Trash or Debris:** Mark and label the location of the trash or debris on the map and provide a brief description of the location relative to roads or other landmarks.

THROUGHOUT REACH

<input checked="" type="checkbox"/> Within Stream	<input checked="" type="checkbox"/> Riparian Area:	<input type="checkbox"/> Left Bank	<input checked="" type="checkbox"/> Right Bank
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<b>Type:</b>	<input checked="" type="checkbox"/> Residential	<input type="checkbox"/> Commercial	<input type="checkbox"/> Industrial	
<b>Material:</b>	<input checked="" type="checkbox"/> Plastic	<input checked="" type="checkbox"/> Tires	<input checked="" type="checkbox"/> Appliances	<input type="checkbox"/> Other
	<input checked="" type="checkbox"/> Paper	<input checked="" type="checkbox"/> Metal	<input checked="" type="checkbox"/> Automotive	
	<input type="checkbox"/> Yard Waste	<input type="checkbox"/> Construction	<input type="checkbox"/> Medical	
<b>Source:</b>	<input type="checkbox"/> Unknown	<input checked="" type="checkbox"/> Flooding	<input checked="" type="checkbox"/> Illegal Dumping	<input type="checkbox"/> Local Outfall
<b>Land Ownership:</b>	<input type="checkbox"/> Private	<input type="checkbox"/> Public	<input checked="" type="checkbox"/> Unknown	

**Notes:** Use the space provided to record important observations otherwise not captures on this sheet.

**CT - NRCS  
Stream Assessment Worksheet**

Fish Barrier

Survey Basin Code:	Date: 7-28
Name of Stream: ALW-1	Assessed By: Bill RE
Reach Code:	
Designated Stream Type:	
Site ID:	

**Make All Observations Facing *Downstream***

**Location of Barrier:** Mark and label the location of the barrier on the map and provide a brief description of the location of the barrier relative to roads or other landmarks.

**Type of Barrier:** Mark the type of fish barrier.

<input type="checkbox"/> Dam	<input checked="" type="checkbox"/> Culvert	<input type="checkbox"/> Velocity Barrier	<input type="checkbox"/> Other
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**Dam Data:** Provide all relevant data.

Height of Dam: ft.	Length of Spillway: ft.	Shape of Spillway: <input type="checkbox"/> Straight <input type="checkbox"/> Crescent
Materials: <input type="checkbox"/> Stone	<input type="checkbox"/> Concrete	<input type="checkbox"/> Stone & Concrete <input type="checkbox"/> Timber-Crib <input type="checkbox"/> Other
Is there other infrastructure associated with the Dam? <input type="checkbox"/> No <input type="checkbox"/> Yes (If yes mark the type below)		
<input type="checkbox"/> Factory	<input type="checkbox"/> Hydro Facility	<input type="checkbox"/> Mill <input type="checkbox"/> Residence <input type="checkbox"/> Other

**Culvert Data:** Provide all relevant data.

Type of Culvert: <input type="checkbox"/> Box	<input type="checkbox"/> Pipe	<input type="checkbox"/> Pipe-Arch	<input type="checkbox"/> Arch
Culvert Material: <input type="checkbox"/> Concrete	<input type="checkbox"/> Corrugated Metal	<input type="checkbox"/> Plastic	<input type="checkbox"/> Stone
Culvert Outlet: <input type="checkbox"/> Perched:..... ft.	<input type="checkbox"/> Ramped	<input checked="" type="checkbox"/> Submerged	
Culvert Size: Diameter: ft.	Height: ft.	Width: ft.	
# of Culverts:	Culvert Length: ft.		

**Velocity Barrier Data:** Provide all relevant data.

Nature of Barrier: <input type="checkbox"/> Grade Control Sill	<input type="checkbox"/> Concrete Apron	<input type="checkbox"/> Channel Cross-Section	<input type="checkbox"/> Other
Length of Barrier: ft.	Approx. Vertical Rise: ft.		

**Notes:** Use the space provided to record important observations otherwise not captured on this sheet.

UNKNOWN - CULVERTS SUBMERGED  
2 IN REACH

**CT - NRCS  
Stream Assessment Worksheet**

Degraded Buffer

Survey Basin Code:	Date: 7-28
Name of Stream: ALW-1	Assessed By: BH RE
Reach Code:	
Designated Stream Type:	
Site ID:	

Make All Observations Facing *Downstream*

**Location / Extent of Degraded Buffer:** 1) Mark and label the location of the degraded buffer on the map. 2) Briefly describe the location of the site relative to roads or other landmarks.

**Mark where the degraded buffer occurs.**

<input type="checkbox"/> Meander Bend	<input checked="" type="checkbox"/> Straight Section	<input type="checkbox"/> Steep Slope/Valley Wall	<input type="checkbox"/> Other
<input type="checkbox"/> Left Bank	Estimate length of degraded buffer: ft.		
<input checked="" type="checkbox"/> Right Bank	Estimate length of degraded buffer: 0.287 miles		

**Type of Degradation:**

<b>Left Bank:</b>	<input type="checkbox"/> Minimal Vegetation	<input type="checkbox"/> Minimal Width	<input checked="" type="checkbox"/> Invasive Plants	<input type="checkbox"/> Other
<b>Right Bank:</b>	<input type="checkbox"/> Minimal Vegetation	<input checked="" type="checkbox"/> Minimal Width	<input checked="" type="checkbox"/> Invasive Plants	<input type="checkbox"/> Other

Dominate Land Cover	Paved	Bare Ground	Turf / Lawn	Tall Grass	Scrub / Shrub	Trees	Other
<b>Left Bank</b>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Right Bank</b>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

**Immediately Adjacent Land Use:** Mark the land use(s) immediately adjacent to the modified section.

<b>Left Bank:</b>	<input type="checkbox"/> Rural Residential	<input type="checkbox"/> Urban Residential	<input type="checkbox"/> Commercial	<input checked="" type="checkbox"/> Forested
	<input type="checkbox"/> Suburban Residential	<input type="checkbox"/> Industrial	<input type="checkbox"/> Agricultural	<input type="checkbox"/> Recreational
<b>Right Bank:</b>	<input type="checkbox"/> Rural Residential	<input type="checkbox"/> Urban Residential	<input checked="" type="checkbox"/> Commercial	<input type="checkbox"/> Forested
	<input type="checkbox"/> Suburban Residential	<input checked="" type="checkbox"/> Industrial	<input type="checkbox"/> Agricultural	<input type="checkbox"/> Recreational

**Existing Width of Riparian Vegetation:** Mark the average width of riparian vegetation to the modified section.

<b>Left Bank:</b>	<input type="checkbox"/> < 15 ft.	<input type="checkbox"/> 15 - 35 ft.	<input type="checkbox"/> 35 - 50 ft.	<input type="checkbox"/> 50 - 100 ft.	<input checked="" type="checkbox"/> > 100 ft.
<b>Right Bank:</b>	<input checked="" type="checkbox"/> < 15 ft.	<input type="checkbox"/> 15 - 35 ft.	<input type="checkbox"/> 35 - 50 ft.	<input type="checkbox"/> 50 - 100 ft.	<input type="checkbox"/> > 100 ft.

**Notes:** Use the space provided to record important observations otherwise not captures on this sheet.

PHRAGMITES ON BOTH SIDES

**CT – NRCS  
Stream Assessment Worksheet**

Storm Water Outfall

Survey Basin Code:	Date: 7-28
Name of Stream:	Assessed By: RE BII
Reach Code: ALW-1	
Designated Stream Type:	
Site ID:	

**Make All Observations Facing *Downstream***

**Location of Outfall:**  Right Bank  Left Bank Mark and label the location of the outfall on the map and provide a brief description of the location of the outfall relative to roads or other landmarks.

SUBMERGED, CATCH BASIN NEAR ROAD -

<b>Outfall Type:</b>	<input checked="" type="checkbox"/> Pipe	<input type="checkbox"/> Leak Off	<input type="checkbox"/> Channel	
<b>Flow:</b>	<input checked="" type="checkbox"/> None	<input type="checkbox"/> Trickle	<input type="checkbox"/> Moderate	<input type="checkbox"/> Substantial
<b>Odor:</b>	<input checked="" type="checkbox"/> None	<input type="checkbox"/> Sewage	<input type="checkbox"/> Rancid / Sour	<input type="checkbox"/> Sulfur (rotten eggs)
<b>Deposits / Stains</b>	<input checked="" type="checkbox"/> None	<input type="checkbox"/> Sediment Delta	<input type="checkbox"/> Oily Stain	<input type="checkbox"/> Black
<b>Benthic Growth</b>	<input checked="" type="checkbox"/> None	<input type="checkbox"/> Brown	<input type="checkbox"/> Green	<input type="checkbox"/> Orange

**Pipe Data:** Provide all relevant data.

<b>Pipe Material:</b>	<input checked="" type="checkbox"/> Concrete	<input type="checkbox"/> Corrugated Metal	<input type="checkbox"/> Plastic	<input type="checkbox"/> Other
<b>Contributing Source(s):</b>	<input checked="" type="checkbox"/> Road	<input type="checkbox"/> Parking Lot	<input type="checkbox"/> Other	<input type="checkbox"/> Unknown
<b>Pipe Outlet:</b>	<input type="checkbox"/> Perched ..... ft.	<input type="checkbox"/> Ramped	<input checked="" type="checkbox"/> At Stream Level	
<b>Pipe Size:</b>	Diameter: ? ft.			
<b># of Pipes:</b>	<input checked="" type="checkbox"/> 1	<input type="checkbox"/> 2	<input type="checkbox"/> 3 +	

**Leak-Off Data:** Provide all relevant data.

<b>Leak-Off Swale:</b>	<input type="checkbox"/> Concrete	<input type="checkbox"/> Asphalt	<input type="checkbox"/> Stone	<input type="checkbox"/> Earthen
<b>Contributing Source (s):</b>	<input type="checkbox"/> Road	<input type="checkbox"/> Parking Lot	<input type="checkbox"/> Recreational Field	<input type="checkbox"/> Other
<b>Length of Swale:</b>	ft.			
<b>Width of Swale:</b>	ft.			

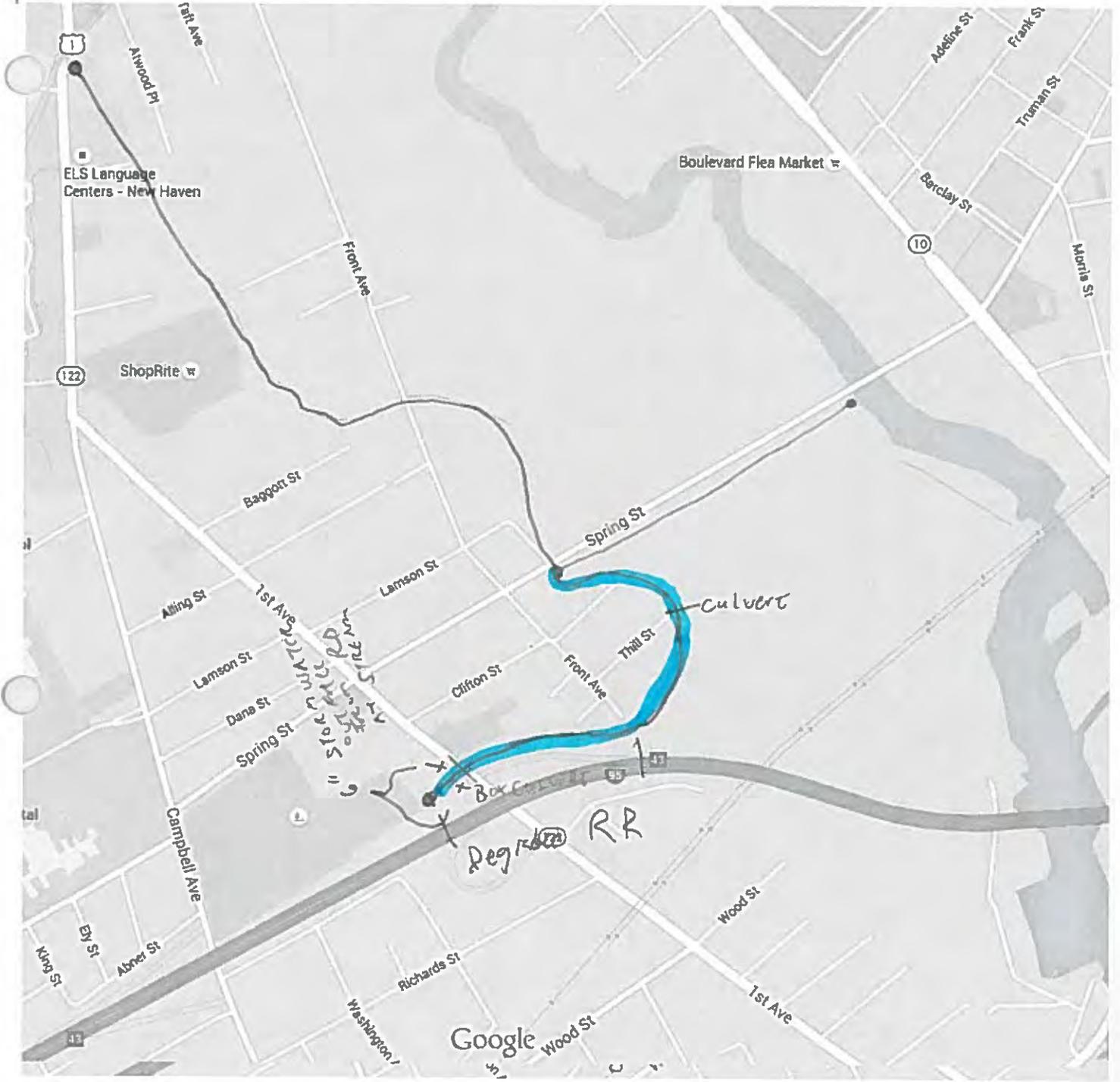
**Channel Data:** Provide all relevant data.

<b>Channel Material:</b>	<input type="checkbox"/> Concrete	<input type="checkbox"/> Asphalt	<input type="checkbox"/> Stone	<input type="checkbox"/> Earthen
<b>Contributing Source (s):</b>	<input type="checkbox"/> Road	<input type="checkbox"/> Parking Lot	<input type="checkbox"/> Recreational Field	<input type="checkbox"/> Other <input type="checkbox"/> Unknown
<b>Channel Length:</b>	ft.			
<b>Channel Width:</b>	ft.			

**Notes:** Use the space provided to record important observations otherwise not captures on this sheet.

ALW, C

0.52 mi



46 SPRING ST. TO 150 SPRING ST.

# CT-NRCS Stream Assessment Sheet

## Reach Level Assessment

Survey Basin Code:	Date(s): 7/28 9:30 - 10
Name of Stream:	Assessed By: BH RE
Reach Code: ALW2	
Designated Stream Type:	

**Make All Observations Facing *Downstream***

Was the entire reach of stream surveyed?  Yes  No, Which section(s) were not surveyed? Why?

OBSERVED FROM 6 LOCATIONS,  
START, 4 MIDDLE, END

**Channel Morphology:** Mark the predominate condition(s), and indicate the average measurements.

<input type="checkbox"/> Step-Pool	<input type="checkbox"/> Pool-Riffle	<input type="checkbox"/> Run	<input checked="" type="checkbox"/> Glide	* <input type="checkbox"/> Manipulated Channel (piped, lined, etc.)
Active Channel Width: 10ft		Glide Depth: 2.5		
Riffle Depth:		Step Height:		
Pool Depth:		Bank Height (Right Bank): 6"		
Run Depth:		Bank Height (Left Bank): 6"		

**Substrate Composition:** Mark approximate percentages for each substrate type observed.

Silt or Clay	<input type="checkbox"/> <5%	<input type="checkbox"/> 5-25%	<input checked="" type="checkbox"/> 25-50%	<input type="checkbox"/> 50-75%	<input type="checkbox"/> >75%
Sand	<input type="checkbox"/> <5%	<input type="checkbox"/> 5-25%	<input checked="" type="checkbox"/> 25-50%	<input type="checkbox"/> 50-75%	<input type="checkbox"/> >75%
Gravel (0.1-2 inches)	<input checked="" type="checkbox"/> <5%	<input type="checkbox"/> 5-25%	<input type="checkbox"/> 25-50%	<input type="checkbox"/> 50-75%	<input type="checkbox"/> >75%
Cobble (>10 inches)	<input type="checkbox"/> <5%	<input type="checkbox"/> 5-25%	<input type="checkbox"/> 25-50%	<input type="checkbox"/> 50-75%	<input type="checkbox"/> >75%
Boulder (>10 inches)	<input type="checkbox"/> <5%	<input type="checkbox"/> 5-25%	<input type="checkbox"/> 25-50%	<input type="checkbox"/> 50-75%	<input type="checkbox"/> >75%
Bedrock	<input type="checkbox"/> <5%	<input type="checkbox"/> 5-25%	<input type="checkbox"/> 25-50%	<input type="checkbox"/> 50-75%	<input type="checkbox"/> >75%

**Describe Water Conditions:** Mark all that apply.

<input type="checkbox"/> Clear	<input checked="" type="checkbox"/> Stained ("iced tea")	* <input type="checkbox"/> Turbid (muddy / silty)
* <input type="checkbox"/> Green	* <input checked="" type="checkbox"/> Rusty-Red	* <input type="checkbox"/> Milky
* <input type="checkbox"/> Odors	* <input type="checkbox"/> Other (foam, dyes, chemicals)	

**Aquatic Plants in Stream:**

Floating: (e.g. duck weed)	<input checked="" type="checkbox"/> Absent	<input type="checkbox"/> In Spots	* <input type="checkbox"/> Everywhere
Attached: (e.g. water lily)	<input checked="" type="checkbox"/> Absent	<input type="checkbox"/> In Spots	* <input type="checkbox"/> Everywhere

**Algae in Stream:**

Floating: (e.g. planktonic)	<input checked="" type="checkbox"/> Absent	<input type="checkbox"/> In Spots	* <input type="checkbox"/> Everywhere
Attached: (e.g. filamentous)	<input checked="" type="checkbox"/> Absent	<input type="checkbox"/> In Spots	* <input type="checkbox"/> Everywhere

**Canopy Cover:** Mark approximate percentage of stream covered by tree canopy.

<input type="checkbox"/> >75% covered	<input checked="" type="checkbox"/> 75-50% covered	<input type="checkbox"/> 50%-25% covered	<input type="checkbox"/> < 25% covered
---------------------------------------	--	--	--

**Area of Concern Worksheets**

Indicate # and type of sheets completed for this reach assessment

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Erosion \_\_\_\_\_

Fish Barrier \_\_\_\_\_

Storm Water Outfall

Modified Channel \_\_\_\_\_

Impacted Buffer

Trash / Debris

Water Conditions \_\_\_\_\_

Note: Items marked with an asterisk (\*) indicate a potential area of concern. Please record all relevant information on the appropriate Area of Concern Worksheet(s).

## CT-NRCS Stream Assessment Sheet

Reach Level Assessment

<b>Riparian Vegetation:</b> Characterize the average density of vegetation in the first 35 feet adjacent to the stream for both banks.						
	Left Bank	Right Bank	Left Bank	Right Bank	Left Bank	Right Bank
Turf Grass <del>X</del>	<input type="checkbox"/> Low	<input type="checkbox"/> Low	<input type="checkbox"/> Moderate	<input type="checkbox"/> Moderate	<input type="checkbox"/> High	<input type="checkbox"/> High
Grass	<input type="checkbox"/> Low	<input type="checkbox"/> Low	<input checked="" type="checkbox"/> Moderate	<input checked="" type="checkbox"/> Moderate	<input type="checkbox"/> High	<input type="checkbox"/> High
Shrubs	<input type="checkbox"/> Low	<input type="checkbox"/> Low	<input checked="" type="checkbox"/> Moderate	<input checked="" type="checkbox"/> Moderate	<input type="checkbox"/> High	<input type="checkbox"/> High
Deciduous Trees	<input checked="" type="checkbox"/> Low	<input checked="" type="checkbox"/> Low	<input type="checkbox"/> Moderate	<input type="checkbox"/> Moderate	<input type="checkbox"/> High	<input type="checkbox"/> High
Coniferous Trees <del>X</del>	<input type="checkbox"/> Low	<input type="checkbox"/> Low	<input type="checkbox"/> Moderate	<input type="checkbox"/> Moderate	<input type="checkbox"/> High	<input type="checkbox"/> High

<b>Surrounding Land Use:</b> Mark the dominate land use(s) for each "zone", if known or observed.					
<b>Immediately adjacent to stream</b>		<b>&lt; 1/4 Mile from stream</b>		<b>&gt; 1/4 Mile from stream</b>	
<input type="checkbox"/> Rural Residential	<input type="checkbox"/> Agricultural	<input type="checkbox"/> Rural Residential	<input type="checkbox"/> Agricultural	<input type="checkbox"/> Rural Residential	<input type="checkbox"/> Agricultural
<input type="checkbox"/> Suburban Residential	<input type="checkbox"/> Forested	<input type="checkbox"/> Suburban Residential	<input type="checkbox"/> Forested	<input type="checkbox"/> Suburban Residential	<input checked="" type="checkbox"/> Forested
<input checked="" type="checkbox"/> Urban Residential	<input type="checkbox"/> Recreational	<input checked="" type="checkbox"/> Urban Residential	<input type="checkbox"/> Recreational	<input checked="" type="checkbox"/> Urban Residential	<input type="checkbox"/> Recreational
<input checked="" type="checkbox"/> Industrial	<input type="checkbox"/> Other	<input checked="" type="checkbox"/> Industrial	<input type="checkbox"/> Other	<input checked="" type="checkbox"/> Industrial	<input type="checkbox"/> Other
<input checked="" type="checkbox"/> Commercial		<input checked="" type="checkbox"/> Commercial		<input checked="" type="checkbox"/> Commercial	

<b>Areas of Concern Checklist:</b> Marking "Yes" to any of the following questions indicates that an Area of Concern Worksheet should be filled out for the appropriate concern. For each occurrence observed, complete and area of concern sheet.		
Is there evidence of either stream bank erosion or streambed instability within the reach?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Are there any dams or any other possible natural or artificial barriers to fish migration?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
Are there any storm water outfalls, discharge pipes or discharges within the reach? Indicate the number observed: <u>2</u>	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
Is there any portion of the channel that has been modified (not culvert) (channeled, piped, rip rap)?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Is there any portion of the reach where the riparian buffer has been compromised or is nonexistent?	<input type="checkbox"/> Yes	<input type="checkbox"/> No
Is there any portion of the reach that contains trash or other debris (cars, appliances, construction waste)?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
Is there any portion of the reach that has a change in water conditions?	<input checked="" type="checkbox"/> Yes	<input checked="" type="checkbox"/> No

**Notes:** Use the space provided to record important observations otherwise not captured on the Reach Assessment Sheet or the Areas of Concern Worksheets.

**CT – NRCS  
Stream Assessment Worksheet**

Trash / Debris

Survey Basin Code:	Date: 7-28
Name of Stream: ALW2	Assessed By: B/R RC
Reach Code:	
Designated Stream Type:	
Site ID:	

Make All Observations Facing *Downstream*

**Location / Extent of Trash or Debris:** Mark and label the location of the trash or debris on the map and provide a brief description of the location relative to roads or other landmarks.

THROUGHOUT, ESP. AT CULVERT

<input checked="" type="checkbox"/> Within Stream	<input checked="" type="checkbox"/> Riparian Area: <input checked="" type="checkbox"/> Left Bank <input checked="" type="checkbox"/> Right Bank
---	---

<b>Type:</b>	<input checked="" type="checkbox"/> Residential	<input type="checkbox"/> Commercial	<input type="checkbox"/> Industrial	
<b>Material:</b>	<input checked="" type="checkbox"/> Plastic	<input checked="" type="checkbox"/> Tires	<input checked="" type="checkbox"/> Appliances	<input type="checkbox"/> Other
	<input checked="" type="checkbox"/> Paper	<input checked="" type="checkbox"/> Metal	<input checked="" type="checkbox"/> Automotive	
	<input checked="" type="checkbox"/> Yard Waste	<input checked="" type="checkbox"/> Construction	<input checked="" type="checkbox"/> Medical	
<b>Source:</b>	<input type="checkbox"/> Unknown	<input type="checkbox"/> Flooding	<input checked="" type="checkbox"/> Illegal Dumping	<input type="checkbox"/> Local Outfall
<b>Land Ownership:</b>	<input type="checkbox"/> Private	<input type="checkbox"/> Public	<input checked="" type="checkbox"/> Unknown	

**Notes:** Use the space provided to record important observations otherwise not captures on this sheet.

# CT - NRCS Stream Assessment Worksheet

Degraded Buffer

Survey Basin Code:	Date: 7-28
Name of Stream: ALW-2	Assessed By: BH RC
Reach Code:	
Designated Stream Type:	
Site ID:	

**Make All Observations Facing *Downstream***

**Location / Extent of Degraded Buffer:** 1) Mark and label the location of the degraded buffer on the map. 2) Briefly describe the location of the site relative to roads or other landmarks.

**Mark where the degraded buffer occurs.**

<input checked="" type="checkbox"/> Meander Bend	<input checked="" type="checkbox"/> Straight Section	<input type="checkbox"/> Steep Slope/Valley Wall	<input type="checkbox"/> Other
<input checked="" type="checkbox"/> Left Bank		Estimate length of degraded buffer: 0.52 ft. ~	
<input checked="" type="checkbox"/> Right Bank		Estimate length of degraded buffer:           ft.	

**Type of Degradation:**

Left Bank:	<input checked="" type="checkbox"/> Minimal Vegetation	<input checked="" type="checkbox"/> Minimal Width	<input checked="" type="checkbox"/> Invasive Plants	<input type="checkbox"/> Other
Right Bank:	<input checked="" type="checkbox"/> Minimal Vegetation	<input checked="" type="checkbox"/> Minimal Width	<input checked="" type="checkbox"/> Invasive Plants	<input type="checkbox"/> Other

Dominate Land Cover	Paved	Bare Ground	Turf / Lawn	Tall Grass	Scrub / Shrub	Trees	Other
Left Bank	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Right Bank	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

**Immediately Adjacent Land Use:** Mark the land use(s) immediately adjacent to the modified section.

Left Bank:	<input type="checkbox"/> Rural Residential	<input checked="" type="checkbox"/> Urban Residential	<input type="checkbox"/> Commercial	<input type="checkbox"/> Forested
	<input type="checkbox"/> Suburban Residential	<input type="checkbox"/> Industrial	<input type="checkbox"/> Agricultural	<input type="checkbox"/> Recreational
Right Bank:	<input type="checkbox"/> Rural Residential	<input type="checkbox"/> Urban Residential	<input checked="" type="checkbox"/> Commercial	<input checked="" type="checkbox"/> Forested
	<input type="checkbox"/> Suburban Residential	<input checked="" type="checkbox"/> Industrial	<input type="checkbox"/> Agricultural	<input type="checkbox"/> Recreational

**Existing Width of Riparian Vegetation:** Mark the average width of riparian vegetation to the modified section.

Left Bank:	<input type="checkbox"/> < 15 ft.	<input checked="" type="checkbox"/> 15 - 35 ft.	<input type="checkbox"/> 35 - 50 ft.	<input type="checkbox"/> 50 - 100 ft	<input type="checkbox"/> > 100 ft
Right Bank:	<input type="checkbox"/> < 15 ft.	<input checked="" type="checkbox"/> 15 - 35 ft.	<input type="checkbox"/> 35 - 50 ft.	<input type="checkbox"/> 50 - 100 ft	<input type="checkbox"/> > 100 ft

**Notes:** Use the space provided to record important observations otherwise not captures on this sheet.

**CT - NRCS  
Stream Assessment Worksheet**

Storm Water Outfall

Survey Basin Code:	Date: 7-28
Name of Stream: RLW 2	Assessed By: RE BH
Reach Code:	
Designated Stream Type:	
Site ID:	

**Make All Observations Facing *Downstream***

**Location of Outfall:**  Right Bank  Left Bank Mark and label the location of the outfall on the map and provide a brief description of the location of the outfall relative to roads or other landmarks.

<b>Outfall Type:</b>	<input checked="" type="checkbox"/> Pipe	<input type="checkbox"/> Leak Off	<input type="checkbox"/> Channel	
<b>Flow:</b>	<input checked="" type="checkbox"/> None	<input type="checkbox"/> Trickle	<input type="checkbox"/> Moderate	<input type="checkbox"/> Substantial
<b>Odor:</b>	<input checked="" type="checkbox"/> None	<input type="checkbox"/> Sewage	<input type="checkbox"/> Rancid / Sour	<input type="checkbox"/> Sulfur (rotten eggs)
<b>Deposits / Stains</b>	<input checked="" type="checkbox"/> None	<input type="checkbox"/> Sediment Delta	<input type="checkbox"/> Oily Stain	<input type="checkbox"/> Black
<b>Benthic Growth</b>	<input checked="" type="checkbox"/> None	<input type="checkbox"/> Brown	<input type="checkbox"/> Green	<input type="checkbox"/> Orange

**Pipe Data:** Provide all relevant data.

<b>Pipe Material:</b>	<input checked="" type="checkbox"/> Concrete	<input type="checkbox"/> Corrugated Metal	<input type="checkbox"/> Plastic	<input type="checkbox"/> Other
<b>Contributing Source(s):</b>	<input checked="" type="checkbox"/> Road	<input type="checkbox"/> Parking Lot	<input type="checkbox"/> Other	<input type="checkbox"/> Unknown
<b>Pipe Outlet:</b>	<input type="checkbox"/> Perched . . . . . ft.	<input type="checkbox"/> Ramped	<input checked="" type="checkbox"/> At Stream Level	
<b>Pipe Size:</b>	Diameter: 0.5 ft.			
<b># of Pipes:</b>	<input type="checkbox"/> 1	<input checked="" type="checkbox"/> 2	<input type="checkbox"/> 3 +	

**Leak-Off Data:** Provide all relevant data.

<b>Leak-Off Swale:</b>	<input type="checkbox"/> Concrete	<input type="checkbox"/> Asphalt	<input type="checkbox"/> Stone	<input type="checkbox"/> Earthen
<b>Contributing Source (s):</b>	<input type="checkbox"/> Road	<input type="checkbox"/> Parking Lot	<input type="checkbox"/> Recreational Field	<input type="checkbox"/> Other
<b>Length of Swale:</b>	ft.			
<b>Width of Swale:</b>	ft.			

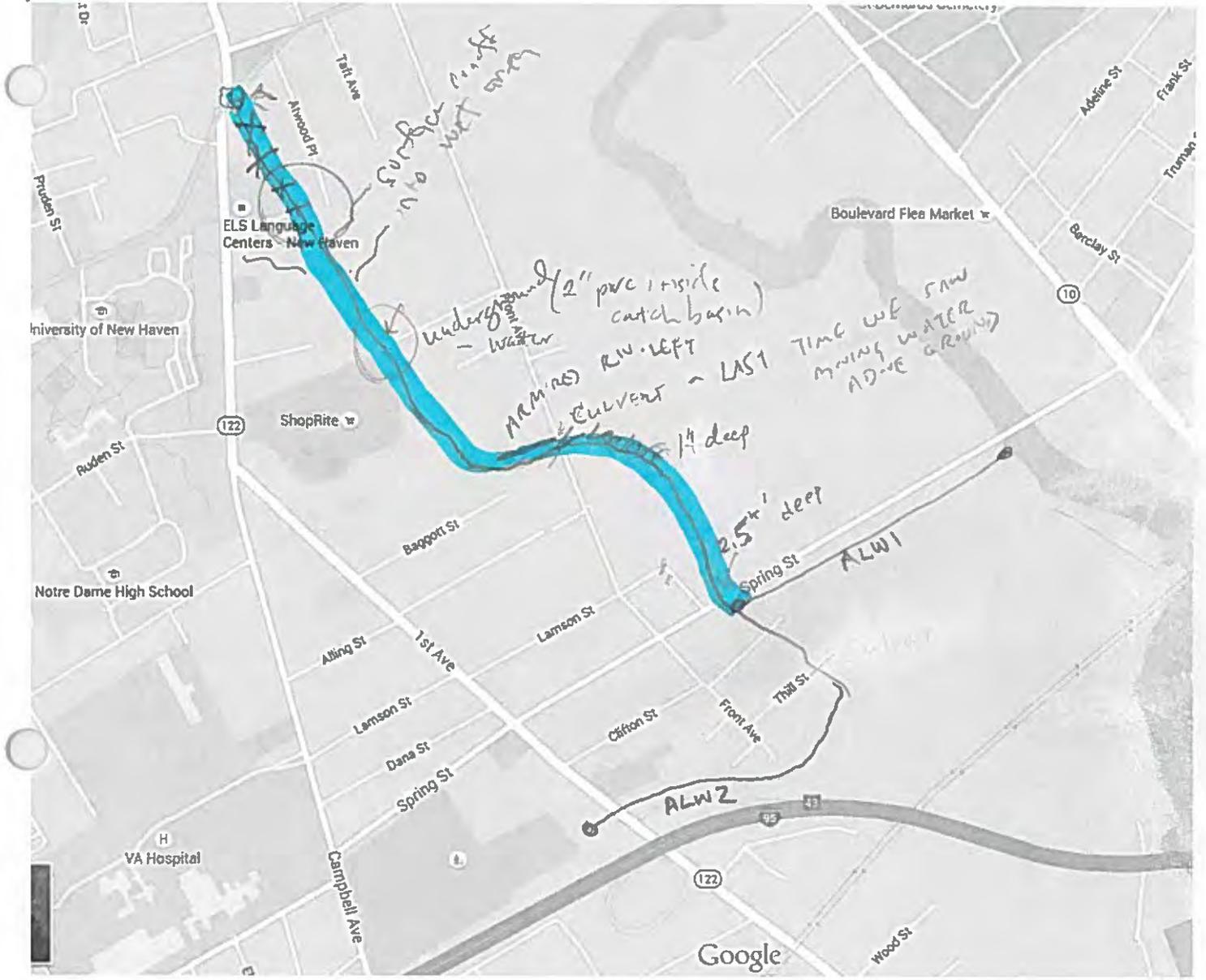
**Channel Data:** Provide all relevant data.

<b>Channel Material:</b>	<input type="checkbox"/> Concrete	<input type="checkbox"/> Asphalt	<input type="checkbox"/> Stone	<input type="checkbox"/> Earthen
<b>Contributing Source (s):</b>	<input type="checkbox"/> Road	<input type="checkbox"/> Parking Lot	<input type="checkbox"/> Recreational Field	<input type="checkbox"/> Other <input type="checkbox"/> Unknown
<b>Channel Length:</b>	ft.			
<b>Channel Width:</b>	ft.			

**Notes:** Use the space provided to record important observations otherwise not captures on this sheet.

ALW3

0.06 mi



46 SPRING ST TO 270 BOSTON POST RD. WEST HA'

# CT-NRCS Stream Assessment Sheet

## Reach Level Assessment

Survey Basin Code:	Date(s): 7/28 10'15 - 11'15
Name of Stream: Unnamed Trib	Assessed By: BH RE
Reach Code: ALW3	
Designated Stream Type:	

**Make All Observations Facing *Downstream***

Was the entire reach of stream surveyed?  Yes  No, Which section(s) were not surveyed? Why?

ONLY VISIBLE AT START + AT FRONT AVE -  
MUCH IS UNDERGROUND

**Channel Morphology:** Mark the predominate condition(s), and indicate the average measurements.

<input type="checkbox"/> Step-Pool	<input type="checkbox"/> Pool-Riffle	<input checked="" type="checkbox"/> Run	<input type="checkbox"/> Glide	<input checked="" type="checkbox"/> *Manipulated Channel (piped, lined, etc.)
Active Channel Width: 6'		Glide Depth:		
Riffle Depth:		Step Height:		
Pool Depth:		Bank Height (Right Bank): 6'		
Run Depth:		Bank Height (Left Bank): 6'		

**Substrate Composition:** Mark approximate percentages for each substrate type observed.

Silt or Clay	<input type="checkbox"/> <5%	<input type="checkbox"/> 5-25%	<input checked="" type="checkbox"/> 25-50%	<input type="checkbox"/> 50-75%	<input type="checkbox"/> >75%
Sand	<input type="checkbox"/> <5%	<input type="checkbox"/> 5-25%	<input checked="" type="checkbox"/> 25-50%	<input type="checkbox"/> 50-75%	<input type="checkbox"/> >75%
Gravel (0.1-2 inches)	<input checked="" type="checkbox"/> <5%	<input type="checkbox"/> 5-25%	<input type="checkbox"/> 25-50%	<input type="checkbox"/> 50-75%	<input type="checkbox"/> >75%
Cobble (2-10 inches)	<input type="checkbox"/> <5%	<input type="checkbox"/> 5-25%	<input type="checkbox"/> 25-50%	<input type="checkbox"/> 50-75%	<input type="checkbox"/> >75%
Boulder (>10 inches)	<input type="checkbox"/> <5%	<input type="checkbox"/> 5-25%	<input type="checkbox"/> 25-50%	<input type="checkbox"/> 50-75%	<input type="checkbox"/> >75%
Bedrock	<input type="checkbox"/> <5%	<input type="checkbox"/> 5-25%	<input type="checkbox"/> 25-50%	<input type="checkbox"/> 50-75%	<input type="checkbox"/> >75%

**Describe Water Conditions:** Mark all that apply.

<input type="checkbox"/> Clear	<input checked="" type="checkbox"/> Stained ("iced tea")	* <input type="checkbox"/> Turbid (muddy / silty)
* <input type="checkbox"/> Green	* <input checked="" type="checkbox"/> Rusty-Red	* <input type="checkbox"/> Milky
* <input type="checkbox"/> Odors	* <input type="checkbox"/> Other (foam, dyes, chemicals)	

**Aquatic Plants in Stream:**

Floating: (e.g. duck weed)	<input checked="" type="checkbox"/> Absent	<input type="checkbox"/> In Spots	* <input type="checkbox"/> Everywhere
Attached: (e.g. water lily)	<input checked="" type="checkbox"/> Absent	<input type="checkbox"/> In Spots	* <input type="checkbox"/> Everywhere

**Algae in Stream:**

Floating: (e.g. planktonic)	<input checked="" type="checkbox"/> Absent	<input type="checkbox"/> In Spots	* <input type="checkbox"/> Everywhere
Attached: (e.g. filamentous)	<input checked="" type="checkbox"/> Absent	<input type="checkbox"/> In Spots	* <input type="checkbox"/> Everywhere

**Canopy Cover:** Mark approximate percentage of stream covered by tree canopy.

>75% covered     75-50% covered     50%-25% covered     < 25% covered

### Area of Concern Worksheets

Indicate # and type of sheets completed for this reach assessment

Erosion	
Fish Barrier	
Storm Water Outfall	1
Modified Channel	1
Impacted Buffer	1
Trash / Debris	1
Water Conditions	

**Note:** Items marked with an asterisk (\*) indicate a potential area of concern. Please record all relevant information on the appropriate Area of Concern Worksheet(s).

## CT-NRCS Stream Assessment Sheet

### Reach Level Assessment

<b>Riparian Vegetation:</b> Characterize the average density of vegetation in the first 35 feet adjacent to the stream for both banks.						
	Left Bank	Right Bank	Left Bank	Right Bank	Left Bank	Right Bank
Turf Grass <input checked="" type="checkbox"/>	<input checked="" type="checkbox"/> Low	<input type="checkbox"/> Low	<input type="checkbox"/> Moderate	<input type="checkbox"/> Moderate	<input type="checkbox"/> High	<input type="checkbox"/> High
Grass	<input type="checkbox"/> Low	<input type="checkbox"/> Low	<input checked="" type="checkbox"/> Moderate	<input checked="" type="checkbox"/> Moderate	<input type="checkbox"/> High	<input type="checkbox"/> High
Shrubs	<input type="checkbox"/> Low	<input type="checkbox"/> Low	<input checked="" type="checkbox"/> Moderate	<input checked="" type="checkbox"/> Moderate	<input type="checkbox"/> High	<input type="checkbox"/> High
Deciduous Trees	<input checked="" type="checkbox"/> Low	<input checked="" type="checkbox"/> Low	<input type="checkbox"/> Moderate	<input type="checkbox"/> Moderate	<input type="checkbox"/> High	<input type="checkbox"/> High
Coniferous Trees <input checked="" type="checkbox"/>	<input type="checkbox"/> Low	<input type="checkbox"/> Low	<input type="checkbox"/> Moderate	<input type="checkbox"/> Moderate	<input type="checkbox"/> High	<input type="checkbox"/> High

<b>Surrounding Land Use:</b> Mark the dominate land use(s) for each "zone", if known or observed.					
Immediately adjacent to stream		< ¼ Mile from stream		> ¼ Mile from stream	
<input type="checkbox"/> Rural/Residential	<input type="checkbox"/> Agricultural	<input type="checkbox"/> Rural Residential	<input type="checkbox"/> Agricultural	<input type="checkbox"/> Rural Residential	<input type="checkbox"/> Agricultural
<input type="checkbox"/> Suburban Residential	<input type="checkbox"/> Forested	<input type="checkbox"/> Suburban Residential	<input type="checkbox"/> Forested	<input type="checkbox"/> Suburban Residential	<input type="checkbox"/> Forested
<input type="checkbox"/> Urban Residential	<input checked="" type="checkbox"/> Recreational	<input type="checkbox"/> Urban Residential	<input checked="" type="checkbox"/> Recreational	<input checked="" type="checkbox"/> Urban Residential	<input type="checkbox"/> Recreational
<input checked="" type="checkbox"/> Industrial	<input type="checkbox"/> Other	<input checked="" type="checkbox"/> Industrial	<input type="checkbox"/> Other	<input checked="" type="checkbox"/> Industrial	<input type="checkbox"/> Other
<input checked="" type="checkbox"/> Commercial		<input checked="" type="checkbox"/> Commercial		<input checked="" type="checkbox"/> Commercial	

<b>Areas of Concern Checklist:</b> Marking "Yes" to any of the following questions indicates that an Area of Concern Worksheet should be filled out for the appropriate concern. For each occurrence observed, complete and area of concern sheet.		
Is there evidence of either stream bank erosion or streambed instability within the reach?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Are there any dams or any other possible natural or artificial barriers to fish migration?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Are there any storm water outfalls, discharge pipes or discharges within the reach? Indicate the number observed: 1	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
Is there any portion of the channel that has been modified (not culvert) (channeled, piped, rip rap)?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
Is there any portion of the reach where the riparian buffer has been compromised or is nonexistent?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
Is there any portion of the reach that contains trash or other debris (cars, appliances, construction waste)?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
Is there any portion of the reach that has a change in water conditions?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No

**Notes:** Use the space provided to record important observations otherwise not captured on the Reach Assessment Sheet or the Areas of Concern Worksheets.

**CT - NRCS  
Stream Assessment Worksheet**

Modified Channel

Survey Basin Code:	Date: 7-28
Name of Stream: ALW-3	Assessed By: BH RC
Reach Code:	
Designated Stream Type:	
Site ID:	

**Make All Observations Facing *Downstream***

**Location / Extent of Modified Channel:** Mark and label the location of the modified channel on the map and provide a brief description of the location of the channel section relative to roads or other landmarks.

one section along parking lot - conc. block 4' x 2' x 2'

**Mark where channel modification occurs:**

Meander Bend     Straight Section     Steep Slope/Valley Wall     Other

Estimate length of channel modification: 100 ft.

Estimate height of bank modification: 4 ft.

Type of Manipulation:	<input type="checkbox"/> Channelization	<input checked="" type="checkbox"/> Bank Armoring	<input type="checkbox"/> Concrete Channel	<input type="checkbox"/> Other
Extent of Manipulation:	<input type="checkbox"/> Right Bank	<input checked="" type="checkbox"/> Left Bank	<input type="checkbox"/> Channel Bottom	
Channel / Bank Materials:	<input type="checkbox"/> Natural	<input type="checkbox"/> Rip Rap	<input checked="" type="checkbox"/> Concrete	<input type="checkbox"/> Gabions <input type="checkbox"/> Metal

**Immediately Adjacent Land Use:** Mark the land use(s) immediately adjacent to the modified section.

Rural Residential     Urban Residential     Commercial     Forested  
 Suburban Residential     Industrial     Agricultural     Recreational

**Existing Width of Riparian Vegetation:** Mark the average width of riparian vegetation to the modified section.

< 15 ft.     15 - 35 ft.     35 - 50 ft.     50 - 100 ft     > 100 ft

Is there a change in the average width of the active channel?	<input type="checkbox"/> Yes / Estimate Width:    ft	<input checked="" type="checkbox"/> No
Is there evidence of sediment deposition in the channel?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Is the channel connected to a floodplain?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No

**Notes:** Use the space provided to record important observations otherwise not captures on this sheet.

**CT - NRCS  
Stream Assessment Worksheet**

**Degraded Buffer**

Survey Basin Code:	Date: 7-28
Name of Stream: ALW-3	Assessed By: RE BIT
Reach Code:	
Designated Stream Type:	
Site ID:	

Make All Observations Facing *Downstream*

**Location / Extent of Degraded Buffer:** 1) Mark and label the location of the degraded buffer on the map. 2) Briefly describe the location of the site relative to roads or other landmarks.

Degraded buffer in modified section + at stream crossings  
AND MUCH PHRAGMITES THROUGHOUT

**Mark where the degraded buffer occurs.**

<input type="checkbox"/> Meander Bend	<input checked="" type="checkbox"/> Straight Section	<input type="checkbox"/> Steep Slope/Valley Wall	<input type="checkbox"/> Other
<input checked="" type="checkbox"/> Left Bank	Estimate length of degraded buffer: 100 ft.		
<input type="checkbox"/> Right Bank	Estimate length of degraded buffer: ft.		

**Type of Degradation:**

<b>Left Bank:</b>	<input checked="" type="checkbox"/> Minimal Vegetation	<input checked="" type="checkbox"/> Minimal Width	<input checked="" type="checkbox"/> Invasive Plants	<input type="checkbox"/> Other
<b>Right Bank:</b>	<input type="checkbox"/> Minimal Vegetation	<input type="checkbox"/> Minimal Width	<input checked="" type="checkbox"/> Invasive Plants	<input type="checkbox"/> Other

Dominate Land Cover	Paved	Bare Ground	Turf / Lawn	Tall Grass	Scrub / Shrub	Trees	Other
<b>Left Bank</b>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<b>Right Bank</b>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

**Immediately Adjacent Land Use:** Mark the land use(s) immediately adjacent to the modified section.

<b>Left Bank:</b>	<input type="checkbox"/> Rural Residential	<input type="checkbox"/> Urban Residential	<input checked="" type="checkbox"/> Commercial	<input type="checkbox"/> Forested
	<input type="checkbox"/> Suburban Residential	<input checked="" type="checkbox"/> Industrial	<input type="checkbox"/> Agricultural	<input type="checkbox"/> Recreational
<b>Right Bank:</b>	<input type="checkbox"/> Rural Residential	<input type="checkbox"/> Urban Residential	<input checked="" type="checkbox"/> Commercial	<input type="checkbox"/> Forested
	<input type="checkbox"/> Suburban Residential	<input checked="" type="checkbox"/> Industrial	<input type="checkbox"/> Agricultural	<input type="checkbox"/> Recreational

**Existing Width of Riparian Vegetation:** Mark the average width of riparian vegetation to the modified section.

<b>Left Bank:</b>	<input checked="" type="checkbox"/> < 15 ft.	<input type="checkbox"/> 15 - 35 ft.	<input type="checkbox"/> 35 - 50 ft.	<input type="checkbox"/> 50 - 100 ft.	<input type="checkbox"/> > 100 ft.
<b>Right Bank:</b>	<input type="checkbox"/> < 15 ft.	<input type="checkbox"/> 15 - 35 ft.	<input checked="" type="checkbox"/> 35 - 50 ft.	<input checked="" type="checkbox"/> 50 - 100 ft.	<input type="checkbox"/> > 100 ft.

**Notes:** Use the space provided to record important observations otherwise not captures on this sheet.

# CT - NRCS Stream Assessment Worksheet

Trash / Debris

Survey Basin Code:	Date: 7-28
Name of Stream: ALW-3	Assessed By: RE + BH
Reach Code:	
Designated Stream Type:	
Site ID:	

**Make All Observations Facing *Downstream***

**Location / Extent of Trash or Debris:** Mark and label the location of the trash or debris on the map and provide a brief description of the location relative to roads or other landmarks.

THROUGHOUT REACH

Within Stream       Riparian Area:     Left Bank     Right Bank

<b>Type:</b>	<input checked="" type="checkbox"/> Residential	<input checked="" type="checkbox"/> Commercial	<input type="checkbox"/> Industrial	
<b>Material:</b>	<input checked="" type="checkbox"/> Plastic	<input checked="" type="checkbox"/> Tires	<input checked="" type="checkbox"/> Appliances	<input type="checkbox"/> Other
	<input checked="" type="checkbox"/> Paper	<input checked="" type="checkbox"/> Metal	<input checked="" type="checkbox"/> Automotive	
	<input checked="" type="checkbox"/> Yard Waste	<input checked="" type="checkbox"/> Construction	<input type="checkbox"/> Medical	
<b>Source:</b>	<input type="checkbox"/> Unknown	<input type="checkbox"/> Flooding	<input checked="" type="checkbox"/> Illegal Dumping	<input type="checkbox"/> Local Outfall
<b>Land Ownership:</b>	<input type="checkbox"/> Private	<input type="checkbox"/> Public	<input checked="" type="checkbox"/> Unknown	

**Notes:** Use the space provided to record important observations otherwise not captures on this sheet.

**CT - NRCS  
Stream Assessment Worksheet**

**Storm Water Outfall**

Survey Basin Code:	Date: 7-28
Name of Stream: ALW-3	Assessed By: BH RG
Reach Code:	
Designated Stream Type:	
Site ID:	

**Make All Observations Facing *Downstream***

**Location of Outfall:**  Right Bank  Left Bank Mark and label the location of the outfall on the map and provide a brief description of the location of the outfall relative to roads or other landmarks.

LEAK OFF, ASPHALT PAVED, FROM ROAD

<b>Outfall Type:</b>	<input type="checkbox"/> Pipe	<input checked="" type="checkbox"/> Leak Off	<input type="checkbox"/> Channel	
<b>Flow:</b>	<input checked="" type="checkbox"/> None	<input type="checkbox"/> Trickle	<input type="checkbox"/> Moderate	<input type="checkbox"/> Substantial
<b>Odor:</b>	<input checked="" type="checkbox"/> None	<input type="checkbox"/> Sewage	<input type="checkbox"/> Rancid / Sour	<input type="checkbox"/> Sulfur (rotten eggs)
<b>Deposits / Stains</b>	<input checked="" type="checkbox"/> None	<input type="checkbox"/> Sediment Delta	<input type="checkbox"/> Oily Stain	<input type="checkbox"/> Black
<b>Benthic Growth</b>	<input checked="" type="checkbox"/> None	<input type="checkbox"/> Brown	<input type="checkbox"/> Green	<input type="checkbox"/> Orange

**Pipe Data:** Provide all relevant data.

<b>Pipe Material:</b>	<input type="checkbox"/> Concrete	<input type="checkbox"/> Corrugated Metal	<input type="checkbox"/> Plastic	<input type="checkbox"/> Other
<b>Contributing Source(s):</b>	<input type="checkbox"/> Road	<input type="checkbox"/> Parking Lot	<input type="checkbox"/> Other	<input type="checkbox"/> Unknown
<b>Pipe Outlet:</b>	<input type="checkbox"/> Perched..... ft.	<input type="checkbox"/> Ramped	<input type="checkbox"/> At Stream Level	
<b>Pipe Size:</b>	Diameter: ft.			
<b># of Pipes:</b>	<input type="checkbox"/> 1	<input type="checkbox"/> 2	<input type="checkbox"/> 3 +	

**Leak-Off Data:** Provide all relevant data.

<b>Leak-Off Swale:</b>	<input type="checkbox"/> Concrete	<input checked="" type="checkbox"/> Asphalt	<input type="checkbox"/> Stone	<input type="checkbox"/> Earthen
<b>Contributing Source (s):</b>	<input checked="" type="checkbox"/> Road	<input type="checkbox"/> Parking Lot	<input type="checkbox"/> Recreational Field	<input type="checkbox"/> Other
<b>Length of Swale:</b>	6 ft.			
<b>Width of Swale:</b>	2 ft.			

**Channel Data:** Provide all relevant data.

<b>Channel Material:</b>	<input type="checkbox"/> Concrete	<input type="checkbox"/> Asphalt	<input type="checkbox"/> Stone	<input type="checkbox"/> Earthen
<b>Contributing Source (s):</b>	<input type="checkbox"/> Road	<input type="checkbox"/> Parking Lot	<input type="checkbox"/> Recreational Field	<input type="checkbox"/> Other <input type="checkbox"/> Unknown
<b>Channel Length:</b>	ft.			
<b>Channel Width:</b>	ft.			

**Notes:** Use the space provided to record important observations otherwise not captures on this sheet.

Completed Stream Assessment Forms  
Beaver Brook



## CT-NRCS Stream Assessment Sheet

Reach Level Assessment

Survey Basin Code:	Date(s): 8-4-15
Name of Stream: BEAVER BROOK	Assessed By: BH + P. BEP
Reach Code: BB-1	830-1130
Designated Stream Type:	

**Make All Observations Facing *Downstream***

Was the entire reach of stream surveyed?  Yes  No, Which section(s) were not surveyed? Why?

**Channel Morphology:** Mark the predominate condition(s), and indicate the average measurements.

<input type="checkbox"/> Step-Pool	<input checked="" type="checkbox"/> Pool-Riffle	<input type="checkbox"/> Run	<input type="checkbox"/> Glide	* <input type="checkbox"/> Manipulated Channel (piped, lined, etc.)
Active Channel Width: 12-15' <small>Avg 12'</small>		Glide Depth: —		
Riffle Depth: 6"		Step Height: —		
Pool Depth: 1 1/2' to 2'		Bank Height (Right Bank): 6"		
Run Depth: —		Bank Height (Left Bank): 6"		

**Substrate Composition:** Mark approximate percentages for each substrate type observed.

Silt or Clay	<input type="checkbox"/> <5%	<input type="checkbox"/> 5-25%	<input checked="" type="checkbox"/> 25-50%	<input type="checkbox"/> 50-75%	<input type="checkbox"/> >75%
Sand	<input type="checkbox"/> <5%	<input type="checkbox"/> 5-25%	<input checked="" type="checkbox"/> 25-50%	<input type="checkbox"/> 50-75%	<input type="checkbox"/> >75%
Gravel (0.1-2 inches)	<input checked="" type="checkbox"/> <5%	<input type="checkbox"/> 5-25%	<input type="checkbox"/> 25-50%	<input type="checkbox"/> 50-75%	<input type="checkbox"/> >75%
Cobble (2-10 inches)	<input type="checkbox"/> <5%	<input checked="" type="checkbox"/> 5-25%	<input type="checkbox"/> 25-50%	<input type="checkbox"/> 50-75%	<input type="checkbox"/> >75%
Boulder (>10 inches)	<input checked="" type="checkbox"/> <5%	<input type="checkbox"/> 5-25%	<input type="checkbox"/> 25-50%	<input type="checkbox"/> 50-75%	<input type="checkbox"/> >75%
Bedrock	<input checked="" type="checkbox"/> <5%	<input type="checkbox"/> 5-25%	<input type="checkbox"/> 25-50%	<input type="checkbox"/> 50-75%	<input type="checkbox"/> >75%

**Describe Water Conditions:** Mark all that apply.

<input checked="" type="checkbox"/> Clear	<input type="checkbox"/> Stained ("iced tea")	* <input type="checkbox"/> Turbid (muddy / silty)
* <input type="checkbox"/> Green	* <input type="checkbox"/> Rusty-Red	* <input type="checkbox"/> Milky
* <input type="checkbox"/> Odors	* <input type="checkbox"/> Other (foam, dyes, chemicals)	

**Aquatic Plants in Stream:** *Few*

Floating: (e.g. duck weed)	<input checked="" type="checkbox"/> Absent	<input type="checkbox"/> In Spots	* <input type="checkbox"/> Everywhere
Attached: (e.g. water lily)	<input type="checkbox"/> Absent	<input checked="" type="checkbox"/> In Spots	* <input type="checkbox"/> Everywhere

**Algae in Stream:**

Floating: (e.g. planktonic)	<input checked="" type="checkbox"/> Absent	<input type="checkbox"/> In Spots	* <input type="checkbox"/> Everywhere
Attached: (e.g. filamentous)	<input type="checkbox"/> Absent	<input checked="" type="checkbox"/> In Spots	* <input type="checkbox"/> Everywhere

**Canopy Cover:** Mark approximate percentage of stream covered by tree canopy.

<input checked="" type="checkbox"/> >75% covered	<input type="checkbox"/> 75-50% covered	<input type="checkbox"/> 50%-25% covered	<input type="checkbox"/> < 25% covered
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**Area of Concern Worksheets**  
Indicate # and type of sheets completed for this reach assessment

Erosion	_____
Fish Barrier	_____
Storm Water Outfall	_____
Modified Channel	_____
Impacted Buffer	_____
Trash / Debris	_____
Water Conditions	_____

Note: Items marked with an asterisk (\*) indicate a potential area of concern. Please record all relevant information on the appropriate Area of Concern Worksheet(s).

**CT-NRCS  
Stream Assessment Sheet**

Reach Level Assessment

**Riparian Vegetation:** Characterize the average density of vegetation in the first 35 feet adjacent to the stream for both banks.

	Left Bank	Right Bank	Left Bank	Right Bank	Left Bank	Right Bank
Turf Grass	<input type="checkbox"/> Low	<input checked="" type="checkbox"/> Low	<input checked="" type="checkbox"/> Moderate	<input type="checkbox"/> Moderate	<input type="checkbox"/> High	<input type="checkbox"/> High
Grass	<input checked="" type="checkbox"/> Low	<input checked="" type="checkbox"/> Low	<input type="checkbox"/> Moderate	<input type="checkbox"/> Moderate	<input type="checkbox"/> High	<input type="checkbox"/> High
Shrubs	<input type="checkbox"/> Low	<input type="checkbox"/> Low	<input type="checkbox"/> Moderate	<input type="checkbox"/> Moderate	<input checked="" type="checkbox"/> High	<input checked="" type="checkbox"/> High
Deciduous Trees	<input type="checkbox"/> Low	<input type="checkbox"/> Low	<input type="checkbox"/> Moderate	<input type="checkbox"/> Moderate	<input checked="" type="checkbox"/> High	<input checked="" type="checkbox"/> High
<del>Coniferous Trees</del>	<input type="checkbox"/> Low	<input type="checkbox"/> Low	<input type="checkbox"/> Moderate	<input type="checkbox"/> Moderate	<input type="checkbox"/> High	<input type="checkbox"/> High

**Surrounding Land Use:** Mark the dominate land use(s) for each "zone", if known or observed.

Immediately adjacent to stream		< 1/4 Mile from stream		> 1/4 Mile from stream	
<input type="checkbox"/> Rural Residential	<input type="checkbox"/> Agricultural	<input type="checkbox"/> Rural Residential	<input type="checkbox"/> Agricultural	<input type="checkbox"/> Rural Residential	<input type="checkbox"/> Agricultural
<input type="checkbox"/> Suburban Residential	<input checked="" type="checkbox"/> Forested	<input type="checkbox"/> Suburban Residential	<input checked="" type="checkbox"/> Forested	<input type="checkbox"/> Suburban Residential	<input checked="" type="checkbox"/> Forested
<input checked="" type="checkbox"/> Urban Residential	<input checked="" type="checkbox"/> Recreational	<input checked="" type="checkbox"/> Urban Residential	<input type="checkbox"/> Recreational	<input checked="" type="checkbox"/> Urban Residential	<input type="checkbox"/> Recreational
<input type="checkbox"/> Industrial	<input type="checkbox"/> Other	<input type="checkbox"/> Industrial	<input type="checkbox"/> Other	<input checked="" type="checkbox"/> Industrial	<input checked="" type="checkbox"/> Other
<input type="checkbox"/> Commercial		<input type="checkbox"/> Commercial		<input checked="" type="checkbox"/> Commercial	

**Areas of Concern Checklist:** Marking "Yes" to any of the following questions indicates that an Area of Concern Worksheet should be filled out for the appropriate concern. For each occurrence observed, complete and area of concern sheet.

Is there evidence of either stream bank erosion or streambed instability within the reach?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Are there any dams or any other possible natural or artificial barriers to fish migration?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
Are there any storm water outfalls, discharge pipes or discharges within the reach? Indicate the number observed: _____	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
Is there any portion of the channel that has been modified (not culvert) (channeled, piped, rip rap)?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
Is there any portion of the reach where the riparian buffer has been compromised or is nonexistent?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
Is there any portion of the reach that contains trash or other debris (cars, appliances, construction waste)? <i>NOT SIGNIFICANT</i>	<input type="checkbox"/> Yes	<input type="checkbox"/> No
Is there any portion of the reach that has a change in water conditions?	<input checked="" type="checkbox"/> Yes	<input checked="" type="checkbox"/> No

**Notes:** Use the space provided to record important observations otherwise not captured on the Reach Assessment Sheet or the Areas of Concern Worksheets.

**CT - NRCS  
Stream Assessment Worksheet**

Fish Barrier

Survey Basin Code:	Date: 8-4-15
Name of Stream: BB-1	Assessed By: BH +
Reach Code:	
Designated Stream Type:	
Site ID:	

**Make All Observations Facing *Downstream***

**Location of Barrier:** Mark and label the location of the barrier on the map and provide a brief description of the location of the barrier relative to roads or other landmarks.

DAM/CULVERT AT START + FINISH

**Type of Barrier:** Mark the type of fish barrier.

<input checked="" type="checkbox"/> Dam	<input checked="" type="checkbox"/> Culvert	<input type="checkbox"/> Velocity Barrier	<input type="checkbox"/> Other
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**Dam Data:** Provide all relevant data.

Height of Dam: 4 ft.	Length of Spillway: 10 ft.	Shape of Spillway: <input checked="" type="checkbox"/> Straight	<input type="checkbox"/> Crescent	
Materials: <input type="checkbox"/> Stone	<input checked="" type="checkbox"/> Concrete	<input type="checkbox"/> Stone & Concrete	<input type="checkbox"/> Timber-Crib	<input type="checkbox"/> Other
Is there other infrastructure associated with the Dam? <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes (If yes mark the type below)				
<input type="checkbox"/> Factory	<input type="checkbox"/> Hydro Facility	<input type="checkbox"/> Mill	<input type="checkbox"/> Residence	<input type="checkbox"/> Other

**Culvert Data:** Provide all relevant data.

Type of Culvert: <input type="checkbox"/> Box	<input type="checkbox"/> Pipe	<input type="checkbox"/> Pipe-Arch	<input type="checkbox"/> Arch
Culvert Material: <input type="checkbox"/> Concrete	<input type="checkbox"/> Corrugated Metal	<input type="checkbox"/> Plastic	<input type="checkbox"/> Stone
Culvert Outlet: <input type="checkbox"/> Perched:..... ft.	<input type="checkbox"/> Ramped	<input type="checkbox"/> Submerged	
Culvert Size: Diameter: ft.	Height: ft.	Width: ft.	
# of Culverts:	Culvert Length: ft.		

**Velocity Barrier Data:** Provide all relevant data.

Nature of Barrier: <input type="checkbox"/> Grade Control Sill	<input type="checkbox"/> Concrete Apron	<input type="checkbox"/> Channel Cross-Section	<input type="checkbox"/> Other
Length of Barrier: ft.	Approx. Vertical Rise: ft.		

**Notes:** Use the space provided to record important observations otherwise not captured on this sheet.

# CT - NRCS Stream Assessment Worksheet

Storm Water Outfall

Survey Basin Code:	Date: 8-4-15
Name of Stream:	Assessed By: BH +
Reach Code: BB-1	
Designated Stream Type:	
Site ID:	

**Make All Observations Facing *Downstream***

**Location of Outfall:**  Right Bank  Left Bank Mark and label the location of the outfall on the map and provide a brief description of the location of the outfall relative to roads or other landmarks.

9 Total, see map

Outfall Type:	<input checked="" type="checkbox"/> Pipe	<input type="checkbox"/> Leak Off	<input type="checkbox"/> Channel	
Flow:	<input checked="" type="checkbox"/> None	<input type="checkbox"/> Trickle	<input type="checkbox"/> Moderate	<input type="checkbox"/> Substantial
Odor:	<input checked="" type="checkbox"/> None	<input type="checkbox"/> Sewage	<input type="checkbox"/> Rancid / Sour	<input type="checkbox"/> Sulfur (rotten eggs)
Deposits / Stains	<input checked="" type="checkbox"/> None	<input type="checkbox"/> Sediment Delta	<input type="checkbox"/> Oily Stain	<input type="checkbox"/> Black
Benthic Growth	<input checked="" type="checkbox"/> None	<input type="checkbox"/> Brown	<input type="checkbox"/> Green	<input type="checkbox"/> Orange

**Pipe Data:** Provide all relevant data.

Pipe Material:	<input checked="" type="checkbox"/> Concrete	<input checked="" type="checkbox"/> Corrugated Metal	<input type="checkbox"/> Plastic	<input type="checkbox"/> Other
Contributing Source(s):	<input checked="" type="checkbox"/> Road	<input checked="" type="checkbox"/> Parking Lot	<input type="checkbox"/> Other	<input checked="" type="checkbox"/> Unknown
Pipe Outlet:	<input checked="" type="checkbox"/> Perched 6'-2 ft.	<input type="checkbox"/> Ramped	<input checked="" type="checkbox"/> At Stream Level	
Pipe Size:	Diameter: 3' 2 ft.			
# of Pipes:	<input type="checkbox"/> 1	<input type="checkbox"/> 2	<input checked="" type="checkbox"/> 3+	9

**Leak-Off Data:** Provide all relevant data.

Leak-Off Swale:	<input type="checkbox"/> Concrete	<input type="checkbox"/> Asphalt	<input type="checkbox"/> Stone	<input type="checkbox"/> Earthen
Contributing Source (s):	<input type="checkbox"/> Road	<input type="checkbox"/> Parking Lot	<input type="checkbox"/> Recreational Field	<input type="checkbox"/> Other
Length of Swale:	ft.			
Width of Swale:	ft.			

**Channel Data:** Provide all relevant data.

Channel Material:	<input type="checkbox"/> Concrete	<input type="checkbox"/> Asphalt	<input type="checkbox"/> Stone	<input type="checkbox"/> Earthen
Contributing Source (s):	<input type="checkbox"/> Road	<input type="checkbox"/> Parking Lot	<input type="checkbox"/> Recreational Field	<input type="checkbox"/> Other <input type="checkbox"/> Unknown
Channel Length:	ft.			
Channel Width:	ft.			

**Notes:** Use the space provided to record important observations otherwise not captures on this sheet.

**CT - NRCS  
Stream Assessment Worksheet**

Modified Channel

Survey Basin Code:	Date: 8-4-15
Name of Stream:	Assessed By: BH + 4
Reach Code: BB-1	
Designated Stream Type:	
Site ID:	

**Make All Observations Facing *Downstream***

**Location / Extent of Modified Channel:** Mark and label the location of the modified channel on the map and provide a brief description of the location of the channel section relative to roads or other landmarks.

Armor + Rip RAP

**Mark where channel modification occurs:**

Meander Bend       Straight Section       Steep Slope/Valley Wall       Other

**Estimate length of channel modification:**      ft.      ① 1/2 OF REACH

**Estimate height of bank modification:**      6      ft.

<b>Type of Manipulation:</b>	<input type="checkbox"/> Channelization	<input checked="" type="checkbox"/> Bank Armoring	<input type="checkbox"/> Concrete Channel	<input type="checkbox"/> Other
<b>Extent of Manipulation:</b>	<input checked="" type="checkbox"/> Right Bank	<input checked="" type="checkbox"/> Left Bank	<input type="checkbox"/> Channel Bottom	
<b>Channel / Bank Materials:</b>	<input type="checkbox"/> Natural	<input checked="" type="checkbox"/> Rip Rap	<input checked="" type="checkbox"/> Concrete	<input type="checkbox"/> Gabions <input type="checkbox"/> Metal

**Immediately Adjacent Land Use:** Mark the land use(s) immediately adjacent to the modified section.

Rural Residential       Urban Residential       Commercial       Forested  
 Suburban Residential       Industrial       Agricultural       Recreational

**Existing Width of Riparian Vegetation:** Mark the average width of riparian vegetation to the modified section.

< 15 ft.       15 - 35 ft.       35 - 50 ft.       50 - 100 ft       > 100 ft

Is there a change in the average width of the active channel?	<input type="checkbox"/> Yes / Estimate Width:      ft	<input type="checkbox"/> No
Is there evidence of sediment deposition in the channel?	<input type="checkbox"/> Yes	<input type="checkbox"/> No
Is the channel connected to a floodplain?	<input type="checkbox"/> Yes	<input type="checkbox"/> No

**Notes:** Use the space provided to record important observations otherwise not captures on this sheet.

**CT - NRCS  
Stream Assessment Worksheet**

Degraded Buffer

Survey Basin Code:	Date: 8-14-15
Name of Stream:	Assessed By: BH KY
Reach Code: BB-1	
Designated Stream Type:	
Site ID:	

Make All Observations Facing *Downstream*

**Location / Extent of Degraded Buffer:** 1) Mark and label the location of the degraded buffer on the map. 2) Briefly describe the location of the site relative to roads or other landmarks.

**Mark where the degraded buffer occurs.**

<input type="checkbox"/> Meander Bend	<input checked="" type="checkbox"/> Straight Section	<input type="checkbox"/> Steep Slope/Valley Wall	<input type="checkbox"/> Other
<input checked="" type="checkbox"/> Left Bank	Estimate length of degraded buffer: 100 ft.		
<input type="checkbox"/> Right Bank	Estimate length of degraded buffer: ft.		

**Type of Degradation:**

Left Bank:	<input checked="" type="checkbox"/> Minimal Vegetation	<input checked="" type="checkbox"/> Minimal Width	<input checked="" type="checkbox"/> Invasive Plants	<input type="checkbox"/> Other
Right Bank:	<input checked="" type="checkbox"/> Minimal Vegetation	<input checked="" type="checkbox"/> Minimal Width	<input checked="" type="checkbox"/> Invasive Plants	<input type="checkbox"/> Other

Dominate Land Cover	Paved	Bare Ground	Turf / Lawn	Tall Grass	Scrub / Shrub	Trees	Other
Left Bank	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Right Bank	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

**Immediately Adjacent Land Use:** Mark the land use(s) immediately adjacent to the modified section.

Left Bank:	<input type="checkbox"/> Rural Residential	<input checked="" type="checkbox"/> Urban Residential	<input type="checkbox"/> Commercial	<input checked="" type="checkbox"/> Forested
	<input type="checkbox"/> Suburban Residential	<input type="checkbox"/> Industrial	<input type="checkbox"/> Agricultural	<input checked="" type="checkbox"/> Recreational
Right Bank:	<input type="checkbox"/> Rural Residential	<input checked="" type="checkbox"/> Urban Residential	<input type="checkbox"/> Commercial	<input checked="" type="checkbox"/> Forested
	<input type="checkbox"/> Suburban Residential	<input type="checkbox"/> Industrial	<input type="checkbox"/> Agricultural	<input checked="" type="checkbox"/> Recreational

**Existing Width of Riparian Vegetation:** Mark the average width of riparian vegetation to the modified section.

Left Bank:	<input checked="" type="checkbox"/> < 15 ft.	<input type="checkbox"/> 15 - 35 ft.	<input type="checkbox"/> 35 - 50 ft.	<input type="checkbox"/> 50 - 100 ft.	<input type="checkbox"/> > 100 ft.
Right Bank:	<input type="checkbox"/> < 15 ft.	<input type="checkbox"/> 15 - 35 ft.	<input type="checkbox"/> 35 - 50 ft.	<input type="checkbox"/> 50 - 100 ft.	<input type="checkbox"/> > 100 ft.

**Notes:** Use the space provided to record important observations otherwise not captures on this sheet.

JAPANESE KNOTWEED / MEXICAN BAMBOO  
 WYSTERIA  
 LITTLE NATIVE VEG  
 (NATIVE GRAPE / FOXGRAPE, BUTTARBUSH)

Completed Stream Assessment Forms  
Belden Brook

B-LB2

0.57m



B-LB1

0.39m

FRAG NENT START

6' W, 1' D

1' DANK...



# CT-NRCS Stream Assessment Sheet

Reach Level Assessment

Survey Basin Code: _____	Date(s): <u>7-9-15</u>
Name of Stream: <u>BELDEN BRDGM</u>	Assessed By: <u>BH AB RE</u>
Reach Code: <u>BLB-1</u>	<u>1000 - 1100</u>
Designated Stream Type: _____	

**Make All Observations Facing *Downstream***

Was the entire reach of stream surveyed?  Yes  No, Which section(s) were not surveyed? Why?

**Channel Morphology:** Mark the predominate condition(s), and indicate the average measurements.

<input type="checkbox"/> Step-Pool	<input checked="" type="checkbox"/> Pool-Riffle	<input type="checkbox"/> Run	<input type="checkbox"/> Glide	* <input type="checkbox"/> Manipulated Channel (piped, lined, etc.)
Active Channel Width: <u>12'</u>		Glide Depth: _____		
Riffle Depth: <u>@ 3"</u>		Step Height: _____		
Pool Depth: <u>1 1/2'</u>		Bank Height (Right Bank): <u>2'</u>		
Run Depth: _____		Bank Height (Left Bank): <u>2'</u>		

**Substrate Composition:** Mark approximate percentages for each substrate type observed.

Silt or Clay	<input checked="" type="checkbox"/> <5%	<input type="checkbox"/> 5-25%	<input type="checkbox"/> 25-50%	<input type="checkbox"/> 50-75%	<input type="checkbox"/> >75%
Sand	<input type="checkbox"/> <5%	<input type="checkbox"/> 5-25%	<input type="checkbox"/> 25-50%	<input type="checkbox"/> 50-75%	<input checked="" type="checkbox"/> >75%
Gravel (0.1-2 inches)	<input type="checkbox"/> <5%	<input checked="" type="checkbox"/> 5-25%	<input type="checkbox"/> 25-50%	<input type="checkbox"/> 50-75%	<input type="checkbox"/> >75%
obble (2-10 inches)	<input checked="" type="checkbox"/> <5%	<input type="checkbox"/> 5-25%	<input type="checkbox"/> 25-50%	<input type="checkbox"/> 50-75%	<input type="checkbox"/> >75%
Boulder (>10 inches)	<input checked="" type="checkbox"/> <5%	<input type="checkbox"/> 5-25%	<input type="checkbox"/> 25-50%	<input type="checkbox"/> 50-75%	<input type="checkbox"/> >75%
Bedrock	<input type="checkbox"/> <5%	<input type="checkbox"/> 5-25%	<input type="checkbox"/> 25-50%	<input type="checkbox"/> 50-75%	<input type="checkbox"/> >75%

**Describe Water Conditions:** Mark all that apply.

<input checked="" type="checkbox"/> Clear	<input type="checkbox"/> Stained ("iced tea")	* <input type="checkbox"/> Turbid (muddy / silty)
* <input type="checkbox"/> Green	* <input checked="" type="checkbox"/> Rusty-Red <u>VERY MINIMAL</u>	* <input type="checkbox"/> Milky
* <input type="checkbox"/> Odors	* <input type="checkbox"/> Other (foam, dyes, chemicals)	

**Aquatic Plants in Stream:**

Floating: (e.g. duck weed)	<input checked="" type="checkbox"/> Absent	<input type="checkbox"/> In Spots	* <input type="checkbox"/> Everywhere
Attached: (e.g. water lily)	<input checked="" type="checkbox"/> Absent	<input type="checkbox"/> In Spots	* <input type="checkbox"/> Everywhere

**Algae in Stream:**

Floating: (e.g. planktonic)	<input checked="" type="checkbox"/> Absent	<input type="checkbox"/> In Spots	* <input type="checkbox"/> Everywhere
Attached: (e.g. filamentous)	<input checked="" type="checkbox"/> Absent	<input type="checkbox"/> In Spots	* <input type="checkbox"/> Everywhere

**Canopy Cover:** Mark approximate percentage of stream covered by tree canopy.

<input type="checkbox"/> >75% covered	<input checked="" type="checkbox"/> 75-50% covered	<input type="checkbox"/> 50%-25% covered	<input type="checkbox"/> < 25% covered
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50%

**Area of Concern Worksheets**  
Indicate # and type of sheets completed for this reach assessment

Erosion \_\_\_\_\_

Fish Barrier \_\_\_\_\_

Storm Water Outfall 3

Modified Channel \_\_\_\_\_

Impacted Buffer \_\_\_\_\_

Trash / Debris 1

Water Conditions \_\_\_\_\_

**Note:** Items marked with an asterisk (\*) indicate a potential area of concern. Please record all relevant information on the appropriate Area of Concern Worksheet(s).

# CT-NRCS Stream Assessment Sheet

## Reach Level Assessment

**Riparian Vegetation:** Characterize the average density of vegetation in the first 35 feet adjacent to the stream for both banks.

	Left Bank	Right Bank	Left Bank	Right Bank	Left Bank	Right Bank
Turf Grass <input checked="" type="checkbox"/>	<input checked="" type="checkbox"/> Low	<input type="checkbox"/> Low	<input type="checkbox"/> Moderate	<input type="checkbox"/> Moderate	<input type="checkbox"/> High	<input type="checkbox"/> High
Grass	<input type="checkbox"/> Low	<input type="checkbox"/> Low	<input checked="" type="checkbox"/> Moderate	<input checked="" type="checkbox"/> Moderate	<input type="checkbox"/> High	<input type="checkbox"/> High
Shrubs	<input type="checkbox"/> Low	<input type="checkbox"/> Low	<input type="checkbox"/> Moderate	<input type="checkbox"/> Moderate	<input type="checkbox"/> High	<input type="checkbox"/> High
Deciduous Trees	<input type="checkbox"/> Low	<input type="checkbox"/> Low	<input type="checkbox"/> Moderate	<input checked="" type="checkbox"/> Moderate	<input checked="" type="checkbox"/> High	<input type="checkbox"/> High
Coniferous Trees <input checked="" type="checkbox"/>	<input type="checkbox"/> Low	<input type="checkbox"/> Low	<input type="checkbox"/> Moderate	<input type="checkbox"/> Moderate	<input type="checkbox"/> High	<input type="checkbox"/> High

**Surrounding Land Use:** Mark the dominate land use(s) for each "zone", if known or observed. *Check w/ GWS & M-JR*

Immediately adjacent to stream		< 1/4 Mile from stream		> 1/4 Mile from stream	
<input type="checkbox"/> Rural Residential	<input type="checkbox"/> Agricultural	<input type="checkbox"/> Rural Residential	<input type="checkbox"/> Agricultural	<input type="checkbox"/> Rural Residential	<input type="checkbox"/> Agricultural
<input checked="" type="checkbox"/> Suburban Residential	<input type="checkbox"/> Forested	<input checked="" type="checkbox"/> Suburban Residential	<input type="checkbox"/> Forested	<input checked="" type="checkbox"/> Suburban Residential	<input type="checkbox"/> Forested
<input type="checkbox"/> Urban Residential	<input type="checkbox"/> Recreational	<input type="checkbox"/> Urban Residential	<input type="checkbox"/> Recreational	<input type="checkbox"/> Urban Residential	<input checked="" type="checkbox"/> Recreational
<input type="checkbox"/> Industrial	<input type="checkbox"/> Other	<input type="checkbox"/> Industrial	<input type="checkbox"/> Other	<input checked="" type="checkbox"/> Industrial	<input type="checkbox"/> Other
<input checked="" type="checkbox"/> Commercial		<input type="checkbox"/> Commercial		<input checked="" type="checkbox"/> Commercial	

**Areas of Concern Checklist:** Marking "Yes" to any of the following questions indicates that an Area of Concern Worksheet should be filled out for the appropriate concern. For each occurrence observed, complete and area of concern sheet.

Is there evidence of either stream bank erosion or streambed instability within the reach?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
Are there any dams or any other possible natural or artificial barriers to fish migration?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
Are there any storm water outfalls, discharge pipes or discharges within the reach? Indicate the number observed: _____	<input type="checkbox"/> Yes	<input type="checkbox"/> No
Is there any portion of the channel that has been modified (not culvert) (channeled, piped, rip rap)?	<input type="checkbox"/> Yes	<input type="checkbox"/> No
Is there any portion of the reach where the riparian buffer has been compromised or is nonexistent?	<input type="checkbox"/> Yes	<input type="checkbox"/> No
Is there any portion of the reach that contains trash or other debris (cars, appliances, construction waste)?	<input type="checkbox"/> Yes	<input type="checkbox"/> No
Is there any portion of the reach that has a change in water conditions?	<input type="checkbox"/> Yes	<input type="checkbox"/> No

**Notes:** Use the space provided to record important observations otherwise not captured on the Reach Assessment Sheet or the Areas of Concern Worksheets.

Dam was Natural - Downed Tree, Brush, Trash, leaves -  
see Trash/Debris sheet

# CT - NRCS Stream Assessment Worksheet

Trash / Debris

Survey Basin Code:	Date: 7-9-15
Name of Stream: Belle Brook	Assessed By: BH AB RE
Reach Code: BLB-1	
Designated Stream Type:	
Site ID:	

**Make All Observations Facing *Downstream***

**Location / Extent of Trash or Debris:** Mark and label the location of the trash or debris on the map and provide a brief description of the location relative to roads or other landmarks.

FLOOD DEBRIS - LUMBER, LOGS, BRANCHES, LEAVES  
PIN PROBED, PID-TO

<input checked="" type="checkbox"/> Within Stream	<input type="checkbox"/> Riparian Area: <input type="checkbox"/> Left Bank <input type="checkbox"/> Right Bank
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<b>Type:</b>	<input checked="" type="checkbox"/> Residential	<input type="checkbox"/> Commercial	<input type="checkbox"/> Industrial	
<b>Material:</b>	<input checked="" type="checkbox"/> Plastic	<input type="checkbox"/> Tires	<input type="checkbox"/> Appliances	<input checked="" type="checkbox"/> Other
	<input type="checkbox"/> Paper	<input type="checkbox"/> Metal	<input type="checkbox"/> Automotive	LOGS
	<input type="checkbox"/> Yard Waste	<input checked="" type="checkbox"/> Construction	<input type="checkbox"/> Medical	
<b>Source:</b>	<input type="checkbox"/> Unknown	<input checked="" type="checkbox"/> Flooding	<input type="checkbox"/> Illegal Dumping	<input type="checkbox"/> Local Outfall
<b>Land Ownership:</b>	<input type="checkbox"/> Private	<input type="checkbox"/> Public	<input checked="" type="checkbox"/> Unknown	

**Notes:** Use the space provided to record important observations otherwise not captures on this sheet.

LOG JAM FROM FLOODING  
BROOK WIDER - 12'  
1 1/2 - 2' BANK

New Construction River Left -  
New Outfall @ 100' from Brook

Natural Flood Debris causing Fish Barrier  
Trash, Downed tree, logs, leaves

River Forks - BOTH SIDES BLOCKED

Riv L, 2' Corr. metal Disch. Pipe, Conc. Rubble.  
Riv R 1' Corr. Metal Disch. Pipe

Woodin

X Fish Barrier

Bridge/Culvert Under Woodin St -

3 Disch. Pipes -

2' Conc

1' Conc.

1' metal in Bridge Abutment.

# CT - NRCS Stream Assessment Worksheet

## Erosion Assessment

Survey Basin Code:	Date: 7-19-15
Name of Stream: Belden Brook	Assessed By: SAZ AB RE
Reach Code: BLB-1	
Designated Stream Type:	
Site ID:	

### Make All Observations Facing *Downstream*

**Location of Bank Erosion:** 1) Mark and label the location of the erosion on the map. 2) Briefly describe the location of the site relative to roads or other landmarks.

Behind Large Industrial Bldg

**Mark where erosion is occurring:**

<input type="checkbox"/> Meander Bend	<input type="checkbox"/> Straight Section	<input checked="" type="checkbox"/> Steep Slope/Valley Wall	<input type="checkbox"/> Other
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**Site Dimensions:** Indicate all applicable measurements associated with the erosion site

<b>Length:</b>	Left Bank: 75 ft.	Right Bank: <del>X</del> ft.
<b>Bank Height:</b>	Left Bank: 30' ft.	Right Bank: 2' ft.
<b>Bank Angle:</b>	Left Bank: 60 deg.	Right Bank: 13' deg.

**What is the proximity of the erosion site to infrastructure** (e.g. road, bridge, building, etc.)?

<input type="checkbox"/> < 15 ft.	<input checked="" type="checkbox"/> 15 - 30 ft	<input type="checkbox"/> 30 - 45 ft	<input type="checkbox"/> 45 - 60 ft	<input type="checkbox"/> 60 - 100 ft	<input type="checkbox"/> > 100 ft.
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**Immediately Adjacent Land Use:** Mark the land use(s) immediately adjacent to the erosion site.

<input type="checkbox"/> Rural Residential	<input type="checkbox"/> Urban Residential	<input checked="" type="checkbox"/> Commercial	<input type="checkbox"/> Forested
<input checked="" type="checkbox"/> Suburban Residential	<input type="checkbox"/> Industrial	<input type="checkbox"/> Agricultural	<input type="checkbox"/> Recreational

**Land Ownership:** Mark land ownership at the location of the erosion site.

<input type="checkbox"/> Public	<input type="checkbox"/> Private	<input checked="" type="checkbox"/> Unknown
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**Existing Width of Riparian Vegetation:** Mark the average width of riparian vegetation at the erosion site.

<input type="checkbox"/> < 15 ft.	<input checked="" type="checkbox"/> 15 - 35 ft.	<input type="checkbox"/> 35 - 50 ft.	<input type="checkbox"/> 50 - 100 ft	<input type="checkbox"/> > 100 ft
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**Notes:** Use the space provided to record important observations otherwise not captured on this sheet.

Steep slope, Bldg/Fence near top of slope,  
erosion due to slope more than brock  
No shrubs/grasses on slope, exposed root structure

# CT - NRCS Stream Assessment Worksheet

Storm Water Outfall

Survey Basin Code:	Date: 7-7-15
Name of Stream: BELDEN BROOK	Assessed By: DH AB RE
Reach Code: 029-1	
Designated Stream Type:	
Site ID:	

**Make All Observations Facing *Downstream***

**Location of Outfall:**  Right Bank  Left Bank Mark and label the location of the outfall on the map and provide a brief description of the location of the outfall relative to roads or other landmarks.

<b>Outfall Type:</b>	<input checked="" type="checkbox"/> Pipe	<input type="checkbox"/> Leak Off	<input type="checkbox"/> Channel	
<b>Flow:</b>	<input checked="" type="checkbox"/> None	<input type="checkbox"/> Trickle	<input type="checkbox"/> Moderate	<input type="checkbox"/> Substantial
<b>Odor:</b>	<input checked="" type="checkbox"/> None	<input type="checkbox"/> Sewage	<input type="checkbox"/> Rancid / Sour	<input type="checkbox"/> Sulfur (rotten eggs)
<b>Deposits / Stains</b>	<input checked="" type="checkbox"/> None	<input type="checkbox"/> Sediment Delta	<input type="checkbox"/> Oily Stain	<input type="checkbox"/> Black
<b>Benthic Growth</b>	<input checked="" type="checkbox"/> None	<input type="checkbox"/> Brown	<input type="checkbox"/> Green	<input type="checkbox"/> Orange

**Pipe Data:** Provide all relevant data.

<b>Pipe Material:</b>	<input checked="" type="checkbox"/> Concrete	<input type="checkbox"/> Corrugated Metal	<input type="checkbox"/> Plastic	<input type="checkbox"/> Other
<b>Contributing Source(s):</b>	<input checked="" type="checkbox"/> Road	<input type="checkbox"/> Parking Lot	<input type="checkbox"/> Other	<input type="checkbox"/> Unknown
<b>Pipe Outlet:</b>	<input checked="" type="checkbox"/> Perched..... 5 ft.	<input type="checkbox"/> Ramped	<input type="checkbox"/> At Stream Level	
<b>Pipe Size:</b>	Diameter: 2 ft.			
<b># of Pipes:</b>	<input checked="" type="checkbox"/> 1	<input type="checkbox"/> 2	<input type="checkbox"/> 3 +	

**Leak-Off Data:** Provide all relevant data.

<b>Leak-Off Swale:</b>	<input type="checkbox"/> Concrete	<input type="checkbox"/> Asphalt	<input type="checkbox"/> Stone	<input checked="" type="checkbox"/> Earthen
<b>Contributing Source (s):</b>	<input checked="" type="checkbox"/> Road	<input type="checkbox"/> Parking Lot	<input type="checkbox"/> Recreational Field	<input type="checkbox"/> Other
<b>Length of Swale:</b> ft.	None - NEW CONSTRUCTION			
<b>Width of Swale:</b> ft.	None - NEW CONSTRUCTION			

**Channel Data:** Provide all relevant data.

<b>Channel Material:</b>	<input type="checkbox"/> Concrete	<input type="checkbox"/> Asphalt	<input type="checkbox"/> Stone	<input type="checkbox"/> Earthen	
<b>Contributing Source (s):</b>	<input type="checkbox"/> Road	<input type="checkbox"/> Parking Lot	<input type="checkbox"/> Recreational Field	<input type="checkbox"/> Other	<input type="checkbox"/> Unknown
<b>Channel Length:</b> ft.					
<b>Channel Width:</b> ft.					

**Notes:** Use the space provided to record important observations otherwise not captures on this sheet.

WAS @ 75' From stream - Brand New Construction

# CT - NRCS Stream Assessment Worksheet

Storm Water Outfall

Survey Basin Code:	Date: 7-9-15
Name of Stream: Belden Brook	Assessed By: BH AB RE
Reach Code: BLB-1	
Designated Stream Type:	
Site ID:	

**Make All Observations Facing *Downstream***

**Location of Outfall:**  Right Bank  Left Bank Mark and label the location of the outfall on the map and provide a brief description of the location of the outfall relative to roads or other landmarks.

<b>Outfall Type:</b>	<input checked="" type="checkbox"/> Pipe	<input type="checkbox"/> Leak Off	<input type="checkbox"/> Channel	
<b>Flow:</b>	<input checked="" type="checkbox"/> None	<input type="checkbox"/> Trickle	<input type="checkbox"/> Moderate	<input type="checkbox"/> Substantial
<b>Odor:</b>	<input checked="" type="checkbox"/> None	<input type="checkbox"/> Sewage	<input type="checkbox"/> Rancid / Sour	<input type="checkbox"/> Sulfur (rotten eggs)
<b>Deposits / Stains</b>	<input checked="" type="checkbox"/> None	<input type="checkbox"/> Sediment Delta	<input type="checkbox"/> Oily Stain	<input type="checkbox"/> Black
<b>Benthic Growth</b>	<input checked="" type="checkbox"/> None	<input type="checkbox"/> Brown	<input type="checkbox"/> Green	<input type="checkbox"/> Orange

**Pipe Data:** Provide all relevant data.

<b>Pipe Material:</b>	<input type="checkbox"/> Concrete	<input checked="" type="checkbox"/> Corrugated Metal	<input type="checkbox"/> Plastic	<input type="checkbox"/> Other
<b>Contributing Source(s):</b>	<input type="checkbox"/> Road	<input type="checkbox"/> Parking Lot	<input type="checkbox"/> Other	<input type="checkbox"/> Unknown
<b>Pipe Outlet:</b>	<input type="checkbox"/> Perched..... ft.	<input type="checkbox"/> Ramped	<input type="checkbox"/> At Stream Level	
<b>Pipe Size:</b>	Diameter: ft.			
<b># of Pipes:</b>	<input type="checkbox"/> 1	<input type="checkbox"/> 2	<input type="checkbox"/> 3 +	

**Leak-Off Data:** Provide all relevant data.

<b>Leak-Off Swale:</b>	<input type="checkbox"/> Concrete	<input type="checkbox"/> Asphalt	<input type="checkbox"/> Stone	<input type="checkbox"/> Earthen
<b>Contributing Source (s):</b>	<input type="checkbox"/> Road	<input type="checkbox"/> Parking Lot	<input type="checkbox"/> Recreational Field	<input type="checkbox"/> Other
<b>Length of Swale:</b>	ft.			
<b>Width of Swale:</b>	ft.			

**Channel Data:** Provide all relevant data.

<b>Channel Material:</b>	<input type="checkbox"/> Concrete	<input type="checkbox"/> Asphalt	<input type="checkbox"/> Stone	<input type="checkbox"/> Earthen
<b>Contributing Source (s):</b>	<input type="checkbox"/> Road	<input type="checkbox"/> Parking Lot	<input type="checkbox"/> Recreational Field	<input type="checkbox"/> Other <input type="checkbox"/> Unknown
<b>Channel Length:</b>	ft.			
<b>Channel Width:</b>	ft.			

**Notes:** Use the space provided to record important observations otherwise not captures on this sheet.

Riv, R = Small Corr. Metal from Cemetery @ 1' D. 2' above water.

Riv L = metal, @ 2' D. // 10' V off stream from Steep Bank, Broken steps beneath.

# CT - NRCS Stream Assessment Worksheet

Storm Water Outfall

Survey Basin Code:	Date: 7-9-15
Name of Stream: BELDEN Brook	Assessed By: BH AB RE
Reach Code: BLB1	
Designated Stream Type:	
Site ID:	

**Make All Observations Facing *Downstream***

**Location of Outfall:**  Right Bank  Left Bank Mark and label the location of the outfall on the map and provide a brief description of the location of the outfall relative to roads or other landmarks.

AT WOODIN ST. BRIDGE

<b>Outfall Type:</b>	<input checked="" type="checkbox"/> Pipe	<input type="checkbox"/> Leak Off	<input type="checkbox"/> Channel	
<b>Flow:</b>	<input checked="" type="checkbox"/> None	<input type="checkbox"/> Trickle	<input type="checkbox"/> Moderate	<input type="checkbox"/> Substantial
<b>Odor:</b>	<input checked="" type="checkbox"/> None	<input type="checkbox"/> Sewage	<input type="checkbox"/> Rancid / Sour	<input type="checkbox"/> Sulfur (rotten eggs)
<b>Deposits / Stains</b>	<input checked="" type="checkbox"/> None	<input type="checkbox"/> Sediment Delta	<input type="checkbox"/> Oily Stain	<input type="checkbox"/> Black
<b>Benthic Growth</b>	<input checked="" type="checkbox"/> None	<input type="checkbox"/> Brown	<input type="checkbox"/> Green	<input type="checkbox"/> Orange

**Pipe Data:** Provide all relevant data.

<b>Pipe Material:</b>	<input checked="" type="checkbox"/> Concrete	<input type="checkbox"/> Corrugated Metal	<input type="checkbox"/> Plastic	<input type="checkbox"/> Other
<b>Contributing Source(s):</b>	<input checked="" type="checkbox"/> Road	<input type="checkbox"/> Parking Lot	<input type="checkbox"/> Other	<input type="checkbox"/> Unknown
<b>Pipe Outlet:</b>	<input checked="" type="checkbox"/> Perched. 2.0 ft.	<input type="checkbox"/> Ramped	<input checked="" type="checkbox"/> At Stream Level /	
<b>Pipe Size:</b>	Diameter: 2, 3 ft.			
<b># of Pipes:</b>	<input type="checkbox"/> 1	<input type="checkbox"/> 2	<input checked="" type="checkbox"/> 3 + 3	

**Leak-Off Data:** Provide all relevant data.

<b>Leak-Off Swale:</b>	<input type="checkbox"/> Concrete	<input type="checkbox"/> Asphalt	<input type="checkbox"/> Stone	<input type="checkbox"/> Earthen
<b>Contributing Source (s):</b>	<input checked="" type="checkbox"/> Road	<input type="checkbox"/> Parking Lot	<input type="checkbox"/> Recreational Field	<input type="checkbox"/> Other
<b>Length of Swale:</b> ft.				
<b>Width of Swale:</b> ft.				

**Channel Data:** Provide all relevant data.

<b>Channel Material:</b>	<input type="checkbox"/> Concrete	<input checked="" type="checkbox"/> Asphalt	<input type="checkbox"/> Stone	<input type="checkbox"/> Earthen
<b>Contributing Source (s):</b>	<input type="checkbox"/> Road	<input type="checkbox"/> Parking Lot	<input type="checkbox"/> Recreational Field	<input type="checkbox"/> Other <input type="checkbox"/> Unknown
<b>Channel Length:</b> ft.				
<b>Channel Width:</b> ft.				

**Notes:** Use the space provided to record important observations otherwise not captures on this sheet.

2' CONC  
1' CONC.  
1' metal? IN Abutment -  
ALL DITCH. DIRECT TO BROOK

# CT-NRCS Stream Assessment Sheet

Reach Level Assessment

Survey Basin Code:	Date(s): 7-9-15
Name of Stream: BELDEN BROOK	Assessed By: BH RE AB
Reach Code: BLB-2	START 1200
Designated Stream Type:	END 1330

Make All Observations Facing *Downstream*

Was the entire reach of stream surveyed?  Yes  No, Which section(s) were not surveyed? Why?

**Channel Morphology:** Mark the predominate condition(s), and indicate the average measurements.

<input type="checkbox"/> Step-Pool	<input checked="" type="checkbox"/> Pool-Riffle	<input type="checkbox"/> Run	<input type="checkbox"/> Glide	* <input type="checkbox"/> Manipulated Channel (piped, lined, etc.)
Active Channel Width: 12'	Glide Depth:			
Riffle Depth: 3"	Step Height:			
Pool Depth: 1 1/2 to 2	Bank Height (Right Bank): 1'		Bank Height (Left Bank): 1'	
Run Depth:				

**Substrate Composition:** Mark approximate percentages for each substrate type observed.

Silt or Clay	<input type="checkbox"/> <5%	<input type="checkbox"/> 5-25%	<input type="checkbox"/> 25-50%	<input type="checkbox"/> 50-75%	<input type="checkbox"/> >75%
Sand	<input type="checkbox"/> <5%	<input type="checkbox"/> 5-25%	<input type="checkbox"/> 25-50%	<input checked="" type="checkbox"/> 50-75%	<input type="checkbox"/> >75%
Gravel (0.1-2 inches)	<input type="checkbox"/> <5%	<input type="checkbox"/> 5-25%	<input checked="" type="checkbox"/> 25-50%	<input type="checkbox"/> 50-75%	<input type="checkbox"/> >75%
Tobble (2-10 inches)	<input type="checkbox"/> <5%	<input checked="" type="checkbox"/> 5-25%	<input type="checkbox"/> 25-50%	<input type="checkbox"/> 50-75%	<input type="checkbox"/> >75%
Boulder (>10 inches)	<input checked="" type="checkbox"/> <5%	<input type="checkbox"/> 5-25%	<input type="checkbox"/> 25-50%	<input type="checkbox"/> 50-75%	<input type="checkbox"/> >75%
Bedrock	<input type="checkbox"/> <5%	<input type="checkbox"/> 5-25%	<input type="checkbox"/> 25-50%	<input type="checkbox"/> 50-75%	<input type="checkbox"/> >75%

**Describe Water Conditions:** Mark all that apply.

<input checked="" type="checkbox"/> Clear	<input type="checkbox"/> Stained ("iced tea")	* <input type="checkbox"/> Turbid (muddy / silty)
* <input type="checkbox"/> Green	* <input type="checkbox"/> Rusty-Red	* <input type="checkbox"/> Milky
* <input type="checkbox"/> Odors	* <input type="checkbox"/> Other (foam, dyes, chemicals)	

**Aquatic Plants in Stream:**

Floating: (e.g. duck weed)	<input checked="" type="checkbox"/> Absent	<input type="checkbox"/> In Spots	* <input type="checkbox"/> Everywhere
Attached: (e.g. water lily)	<input checked="" type="checkbox"/> Absent	<input type="checkbox"/> In Spots	* <input type="checkbox"/> Everywhere

**Algae in Stream:**

Floating: (e.g. planktonic)	<input checked="" type="checkbox"/> Absent	<input type="checkbox"/> In Spots	* <input type="checkbox"/> Everywhere
Attached: (e.g. filamentous)	<input type="checkbox"/> Absent	<input checked="" type="checkbox"/> In Spots	* <input type="checkbox"/> Everywhere

**Canopy Cover:** Mark approximate percentage of stream covered by tree canopy.

<input type="checkbox"/> >75% covered	<input checked="" type="checkbox"/> 75-50% covered	<input type="checkbox"/> 50%-25% covered	<input type="checkbox"/> < 25% covered
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**Area of Concern Worksheets**  
Indicate # and type of sheets completed for this reach assessment

Erosion \_\_\_\_\_

Fish Barrier 2

Storm Water Outfall 3

Modified Channel 1

Impacted Buffer \_\_\_\_\_

Trash / Debris \_\_\_\_\_

Water Conditions \_\_\_\_\_

Note: Items marked with an asterisk (\*) indicate a potential area of concern. Please record all relevant information on the appropriate Area of Concern Worksheet(s).

# CT-NRCS Stream Assessment Sheet

## Reach Level Assessment

**Riparian Vegetation:** Characterize the average density of vegetation in the first 35 feet adjacent to the stream for both banks.

	Left Bank	Right Bank	Left Bank	Right Bank	Left Bank	Right Bank
Turf Grass	<input type="checkbox"/> Low	<input type="checkbox"/> Low	<input checked="" type="checkbox"/> Moderate	<input type="checkbox"/> Moderate	<input checked="" type="checkbox"/> High	<input checked="" type="checkbox"/> High
Grass	<input checked="" type="checkbox"/> Low	<input checked="" type="checkbox"/> Low	<input type="checkbox"/> Moderate	<input type="checkbox"/> Moderate	<input type="checkbox"/> High	<input type="checkbox"/> High
Shrubs	<input checked="" type="checkbox"/> Low	<input checked="" type="checkbox"/> Low	<input type="checkbox"/> Moderate	<input type="checkbox"/> Moderate	<input type="checkbox"/> High	<input type="checkbox"/> High
Deciduous Trees	<input type="checkbox"/> Low	<input type="checkbox"/> Low	<input type="checkbox"/> Moderate	<input type="checkbox"/> Moderate	<input checked="" type="checkbox"/> High	<input checked="" type="checkbox"/> High
Coniferous Trees	<input type="checkbox"/> Low	<input type="checkbox"/> Low	<input type="checkbox"/> Moderate	<input type="checkbox"/> Moderate	<input type="checkbox"/> High	<input type="checkbox"/> High

**Surrounding Land Use:** Mark the dominate land use(s) for each "zone", if known or observed.

Immediately adjacent to stream		< 1/4 Mile from stream		> 1/4 Mile from stream	
<input type="checkbox"/> Rural Residential	<input type="checkbox"/> Agricultural	<input type="checkbox"/> Rural Residential	<input checked="" type="checkbox"/> Agricultural	<input type="checkbox"/> Rural Residential	<input type="checkbox"/> Agricultural
<input checked="" type="checkbox"/> Suburban Residential	<input checked="" type="checkbox"/> Forested	<input checked="" type="checkbox"/> Suburban Residential	<input type="checkbox"/> Forested	<input checked="" type="checkbox"/> Suburban Residential	<input type="checkbox"/> Forested
<input checked="" type="checkbox"/> Urban Residential	<input type="checkbox"/> Recreational	<input type="checkbox"/> Urban Residential	<input type="checkbox"/> Recreational	<input type="checkbox"/> Urban Residential	<input type="checkbox"/> Recreational
<input type="checkbox"/> Industrial	<input type="checkbox"/> Other	<input type="checkbox"/> Industrial	<input type="checkbox"/> Other	<input type="checkbox"/> Industrial	<input type="checkbox"/> Other
<input type="checkbox"/> Commercial		<input type="checkbox"/> Commercial		<input type="checkbox"/> Commercial	

**Areas of Concern Checklist:** Marking "Yes" to any of the following questions indicates that an Area of Concern Worksheet should be filled out for the appropriate concern. For each occurrence observed, complete an area of concern sheet.

Is there evidence of either stream bank erosion or streambed instability within the reach?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
Are there any dams or any other possible natural or artificial barriers to fish migration?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
Are there any storm water outfalls, discharge pipes or discharges within the reach? Indicate the number observed: _____.	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
Is there any portion of the channel that has been modified (not culvert) (channeled, piped, rip rap)?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
Is there any portion of the reach where the riparian buffer has been compromised or is nonexistent?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
Is there any portion of the reach that contains trash or other debris (cars, appliances, construction waste)?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
Is there any portion of the reach that has a change in water conditions?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No

**Notes:** Use the space provided to record important observations otherwise not captured on the Reach Assessment Sheet or the Areas of Concern Worksheets.

SCATTERED TRASH THROUGHOUT  
FIRST 3/4 ALL MODIFIED CHANNEL - RIP RAP

081 - 21  
11 - 01

# CT - NRCS Stream Assessment Worksheet

Fish Barrier

Survey Basin Code:	Date: 7-9-15
Name of Stream: BELDEN	Assessed By: BH AB RE
Reach Code: BLB-2	
Designated Stream Type:	
Site ID:	

**Make All Observations Facing *Downstream***

**Location of Barrier:** Mark and label the location of the barrier on the map and provide a brief description of the location of the barrier relative to roads or other landmarks.

AT      STANLEY      RP

**Type of Barrier:** Mark the type of fish barrier.

<input type="checkbox"/> Dam	<input checked="" type="checkbox"/> Culvert	<input type="checkbox"/> Velocity Barrier	<input type="checkbox"/> Other
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**Dam Data:** Provide all relevant data.

<b>Height of Dam:</b> ft.	<b>Length of Spillway:</b> ft.	<b>Shape of Spillway:</b> <input type="checkbox"/> Straight <input type="checkbox"/> Crescent		
<b>Materials:</b>	<input type="checkbox"/> Stone	<input type="checkbox"/> Concrete	<input type="checkbox"/> Stone & Concrete	<input type="checkbox"/> Timber-Crib <input type="checkbox"/> Other
<b>Is there other infrastructure associated with the Dam?</b> <input type="checkbox"/> No <input type="checkbox"/> Yes (If yes mark the type below)				
<input type="checkbox"/> Factory	<input type="checkbox"/> Hydro Facility	<input type="checkbox"/> Mill	<input type="checkbox"/> Residence	<input type="checkbox"/> Other

**Culvert Data:** Provide all relevant data.

<b>Type of Culvert:</b>	<input type="checkbox"/> Box	<input checked="" type="checkbox"/> Pipe	<input type="checkbox"/> Pipe-Arch	<input type="checkbox"/> Arch
<b>Culvert Material:</b>	<input checked="" type="checkbox"/> Concrete	<input type="checkbox"/> Corrugated Metal	<input type="checkbox"/> Plastic	<input type="checkbox"/> Stone
<b>Culvert Outlet:</b>	<input checked="" type="checkbox"/> Perched:..... 3 ft.	<input type="checkbox"/> Ramped	<input type="checkbox"/> Submerged	
<b>Culvert Size:</b>	Diameter: 4 ft.	Height: ft.	Width: ft.	
<b># of Culverts:</b> 2	<b>Culvert Length:</b> ft.			

**Velocity Barrier Data:** Provide all relevant data.

<b>Nature of Barrier:</b>	<input type="checkbox"/> Grade Control Sill	<input type="checkbox"/> Concrete Apron	<input type="checkbox"/> Channel Cross-Section	<input type="checkbox"/> Other
<b>Length of Barrier:</b> ft.	<b>Approx. Vertical Rise:</b> ft.			

**Notes:** Use the space provided to record important observations otherwise not captured on this sheet.

# CT - NRCS Stream Assessment Worksheet

Fish Barrier

Survey Basin Code:	Date: 7-9-15
Name of Stream: BELDEN Cr.	Assessed By: BH AB RE
Reach Code: BLB-2	
Designated Stream Type:	
Site ID:	

**Make All Observations Facing *Downstream***

**Location of Barrier:** Mark and label the location of the barrier on the map and provide a brief description of the location of the barrier relative to roads or other landmarks.

UNDER MERCITT PKWY

**Type of Barrier:** Mark the type of fish barrier.

<input checked="" type="checkbox"/> Dam	<input checked="" type="checkbox"/> Culvert	<input type="checkbox"/> Velocity Barrier	<input type="checkbox"/> Other
---	---	---	--------------------------------

**Dam Data:** Provide all relevant data.

Height of Dam: 4 ft.	Length of Spillway: ft.	Shape of Spillway: <input checked="" type="checkbox"/> Straight <input type="checkbox"/> Crescent	
Materials: <input type="checkbox"/> Stone	<input type="checkbox"/> Concrete	<input checked="" type="checkbox"/> Stone & Concrete	<input type="checkbox"/> Timber-Crib <input type="checkbox"/> Other
Is there other infrastructure associated with the Dam? <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes (If yes mark the type below)			
<input type="checkbox"/> Factory	<input type="checkbox"/> Hydro Facility	<input type="checkbox"/> Mill	<input checked="" type="checkbox"/> Residence <i>Falmouth</i> <input type="checkbox"/> Other

**Culvert Data:** Provide all relevant data.

Type of Culvert:	<input checked="" type="checkbox"/> Box	<input type="checkbox"/> Pipe	<input type="checkbox"/> Pipe-Arch	<input type="checkbox"/> Arch
Culvert Material:	<input checked="" type="checkbox"/> Concrete	<input type="checkbox"/> Corrugated Metal	<input type="checkbox"/> Plastic	<input type="checkbox"/> Stone
Culvert Outlet:	<input checked="" type="checkbox"/> Perched:..... ft.	<input type="checkbox"/> Ramped	<input type="checkbox"/> Submerged	
Culvert Size:	Diameter: ft.	Height: 6 ft.	Width: 6 ft.	
# of Culverts: 2	Culvert Length: 225 ft.			

**Velocity Barrier Data:** Provide all relevant data.

Nature of Barrier:	<input type="checkbox"/> Grade Control Sill	<input type="checkbox"/> Concrete Apron	<input type="checkbox"/> Channel Cross-Section	<input type="checkbox"/> Other
Length of Barrier: ft.	Approx. Vertical Rise: ft.			

**Notes:** Use the space provided to record important observations otherwise not captured on this sheet.

VERY SIMILAR TO 1-95 - NORTON CULVERT

# CT - NRCS Stream Assessment Worksheet

Storm Water Outfall

Survey Basin Code:	Date: 7-9-15
Name of Stream:	Assessed By: BH AB RE
Reach Code: BLB2	
Designated Stream Type:	
Site ID:	

**Make All Observations Facing *Downstream***

**Location of Outfall:**  Right Bank  Left Bank. Mark and label the location of the outfall on the map and provide a brief description of the location of the outfall relative to roads or other landmarks.

<b>Outfall Type:</b>	<input checked="" type="checkbox"/> Pipe	<input type="checkbox"/> Leak Off	<input type="checkbox"/> Channel	
<b>Flow:</b>	<input checked="" type="checkbox"/> None	<input type="checkbox"/> Trickle	<input type="checkbox"/> Moderate	<input type="checkbox"/> Substantial
<b>Odor:</b>	<input checked="" type="checkbox"/> None	<input type="checkbox"/> Sewage	<input type="checkbox"/> Rancid / Sour	<input type="checkbox"/> Sulfur (rotten eggs)
<b>Deposits / Stains</b>	<input checked="" type="checkbox"/> None	<input type="checkbox"/> Sediment Delta	<input type="checkbox"/> Oily Stain	<input type="checkbox"/> Black
<b>Benthic Growth</b>	<input checked="" type="checkbox"/> None	<input type="checkbox"/> Brown	<input type="checkbox"/> Green	<input type="checkbox"/> Orange

**Pipe Data:** Provide all relevant data.

<b>Pipe Material:</b>	<input type="checkbox"/> Concrete	<input checked="" type="checkbox"/> Corrugated Metal	<input type="checkbox"/> Plastic	<input type="checkbox"/> Other m
<b>Contributing Source(s):</b>	<input checked="" type="checkbox"/> Road ?	<input type="checkbox"/> Parking Lot	<input type="checkbox"/> Other	<input checked="" type="checkbox"/> Unknown
<b>Pipe Outlet:</b>	<input type="checkbox"/> Perched..... ft.	<input type="checkbox"/> Ramped	<input checked="" type="checkbox"/> At Stream Level	
<b>Pipe Size:</b>	Diameter: 1.5 ft.			
<b># of Pipes:</b>	<input checked="" type="checkbox"/> 1	<input type="checkbox"/> 2	<input type="checkbox"/> 3 +	

**Leak-Off Data:** Provide all relevant data.

<b>Leak-Off Swale:</b>	<input type="checkbox"/> Concrete	<input type="checkbox"/> Asphalt	<input type="checkbox"/> Stone	<input type="checkbox"/> Earthen
<b>Contributing Source (s):</b>	<input type="checkbox"/> Road	<input type="checkbox"/> Parking Lot	<input type="checkbox"/> Recreational Field	<input type="checkbox"/> Other
<b>Length of Swale:</b> ft.				
<b>Width of Swale:</b> ft.				

**Channel Data:** Provide all relevant data.

<b>Channel Material:</b>	<input type="checkbox"/> Concrete	<input type="checkbox"/> Asphalt	<input type="checkbox"/> Stone	<input type="checkbox"/> Earthen
<b>Contributing Source (s):</b>	<input type="checkbox"/> Road	<input type="checkbox"/> Parking Lot	<input type="checkbox"/> Recreational Field	<input type="checkbox"/> Other <input type="checkbox"/> Unknown
<b>Channel Length:</b> ft.				
<b>Channel Width:</b> ft.				

**Notes:** Use the space provided to record important observations otherwise not captures on this sheet.

Metal Pipe in Conc Block.  
From Residential Area, Likely street runoff.

## CT - NRCS Stream Assessment Worksheet

Storm Water Outfall

Survey Basin Code:	Date: 7-9-15
Name of Stream: BELDEN BROOK	Assessed By: BH AB RE
Reach Code: BRBZ	
Designated Stream Type:	
Site ID:	

**Make All Observations Facing *Downstream***

**Location of Outfall:**  Right Bank  Left Bank Mark and label the location of the outfall on the map and provide a brief description of the location of the outfall relative to roads or other landmarks.

<b>Outfall Type:</b>	<input checked="" type="checkbox"/> Pipe	<input type="checkbox"/> Leak Off	<input type="checkbox"/> Channel	
<b>Flow:</b>	<input type="checkbox"/> None	<input type="checkbox"/> Trickle	<input checked="" type="checkbox"/> Moderate	<input type="checkbox"/> Substantial
<b>Odor:</b>	<input checked="" type="checkbox"/> None	<input type="checkbox"/> Sewage	<input type="checkbox"/> Rancid / Sour	<input type="checkbox"/> Sulfur (rotten eggs)
<b>Deposits / Stains</b>	<input checked="" type="checkbox"/> None	<input type="checkbox"/> Sediment Delta	<input type="checkbox"/> Oily Stain	<input type="checkbox"/> Black
<b>Benthic Growth</b>	<input checked="" type="checkbox"/> None	<input type="checkbox"/> Brown	<input type="checkbox"/> Green	<input type="checkbox"/> Orange

**Pipe Data:** Provide all relevant data.

<b>Pipe Material:</b>	<input checked="" type="checkbox"/> Concrete	<input type="checkbox"/> Corrugated Metal	<input type="checkbox"/> Plastic	<input type="checkbox"/> Other
<b>Contributing Source(s):</b>	<input checked="" type="checkbox"/> Road	<input type="checkbox"/> Parking Lot	<input type="checkbox"/> Other	<input type="checkbox"/> Unknown
<b>Pipe Outlet:</b>	<input checked="" type="checkbox"/> Perched..... 8 ft.	<input type="checkbox"/> Ramped	<input type="checkbox"/> At Stream Level	
<b>Pipe Size:</b>	Diameter: 2 ft.			
<b># of Pipes:</b>	<input checked="" type="checkbox"/> 1	<input type="checkbox"/> 2	<input type="checkbox"/> 3 +	

**Leak-Off Data:** Provide all relevant data.

<b>Leak-Off Swale:</b>	<input checked="" type="checkbox"/> Concrete	<input type="checkbox"/> Asphalt	<input checked="" type="checkbox"/> Stone	<input type="checkbox"/> Earthen
<b>Contributing Source (s):</b>	<input type="checkbox"/> Road	<input type="checkbox"/> Parking Lot	<input type="checkbox"/> Recreational Field	<input type="checkbox"/> Other
<b>Length of Swale:</b> 35 ft.	RIP RAP SWALE TO BROOK			
<b>Width of Swale:</b> 6 ft.				

**Channel Data:** Provide all relevant data.

<b>Channel Material:</b>	<input type="checkbox"/> Concrete	<input type="checkbox"/> Asphalt	<input type="checkbox"/> Stone	<input type="checkbox"/> Earthen
<b>Contributing Source (s):</b>	<input type="checkbox"/> Road	<input type="checkbox"/> Parking Lot	<input type="checkbox"/> Recreational Field	<input type="checkbox"/> Other <input type="checkbox"/> Unknown
<b>Channel Length:</b> ft.				
<b>Channel Width:</b> ft.				

**Notes:** Use the space provided to record important observations otherwise not captures on this sheet.

# CT - NRCS Stream Assessment Worksheet

Storm Water Outfall

Survey Basin Code:	Date: 7-9-15
Name of Stream: BELDEN CR	Assessed By: BH AB RE
Reach Code: BLB 2	
Designated Stream Type:	
Site ID:	

**Make All Observations Facing *Downstream***

**Location of Outfall:**  Right Bank  Left Bank Mark and label the location of the outfall on the map and provide a brief description of the location of the outfall relative to roads or other landmarks.

AT SOUTH SIDE OF MERRITT RIVER R.

<b>Outfall Type:</b>	<input checked="" type="checkbox"/> Pipe	<input type="checkbox"/> Leak Off	<input type="checkbox"/> Channel	
<b>Flow:</b>	<input type="checkbox"/> None	<input checked="" type="checkbox"/> Trickle	<input type="checkbox"/> Moderate	<input type="checkbox"/> Substantial
<b>Odor:</b>	<input checked="" type="checkbox"/> None	<input type="checkbox"/> Sewage	<input type="checkbox"/> Rancid / Sour	<input type="checkbox"/> Sulfur (rotten eggs)
<b>Deposits / Stains</b>	<input checked="" type="checkbox"/> None	<input type="checkbox"/> Sediment Delta	<input type="checkbox"/> Oily Stain	<input type="checkbox"/> Black
<b>Benthic Growth</b>	<input checked="" type="checkbox"/> None	<input type="checkbox"/> Brown	<input type="checkbox"/> Green	<input type="checkbox"/> Orange

**Pipe Data:** Provide all relevant data.

<b>Pipe Material:</b>	<input type="checkbox"/> Concrete	<input checked="" type="checkbox"/> Corrugated Metal	<input type="checkbox"/> Plastic	<input type="checkbox"/> Other
<b>Contributing Source(s):</b>	<input checked="" type="checkbox"/> Road	<input type="checkbox"/> Parking Lot	<input type="checkbox"/> Other	<input type="checkbox"/> Unknown
<b>Pipe Outlet:</b>	<input checked="" type="checkbox"/> Perched..... 5 ft.	<input type="checkbox"/> Ramped	<input type="checkbox"/> At Stream Level	
<b>Pipe Size:</b>	Diameter: 1.5 ft.			
<b># of Pipes:</b>	<input checked="" type="checkbox"/> 1	<input type="checkbox"/> 2	<input type="checkbox"/> 3 +	

**Leak-Off Data:** Provide all relevant data.

<b>Leak-Off Swale:</b>	<input checked="" type="checkbox"/> Concrete	<input type="checkbox"/> Asphalt	<input checked="" type="checkbox"/> Stone	<input type="checkbox"/> Earthen
<b>Contributing Source (s):</b>	<input checked="" type="checkbox"/> Road	<input type="checkbox"/> Parking Lot	<input type="checkbox"/> Recreational Field	<input type="checkbox"/> Other
<b>Length of Swale:</b> 12 ft.				
<b>Width of Swale:</b> 5 ft.				

**Channel Data:** Provide all relevant data.

<b>Channel Material:</b>	<input type="checkbox"/> Concrete	<input type="checkbox"/> Asphalt	<input type="checkbox"/> Stone	<input type="checkbox"/> Earthen
<b>Contributing Source (s):</b>	<input type="checkbox"/> Road	<input type="checkbox"/> Parking Lot	<input type="checkbox"/> Recreational Field	<input type="checkbox"/> Other <input type="checkbox"/> Unknown
<b>Channel Length:</b> ft.				
<b>Channel Width:</b> ft.				

**Notes:** Use the space provided to record important observations otherwise not captures on this sheet.

STONEWORK SWALE, RAMPED.

# CT - NRCS Stream Assessment Worksheet

Modified Channel

Survey Basin Code:	Date: 7-9-15
Name of Stream: <i>DELDEN</i>	Assessed By: <i>GH AB RE</i>
Reach Code: <i>BLB-2</i>	
Designated Stream Type:	
Site ID:	

**Make All Observations Facing *Downstream***

**Location / Extent of Modified Channel:** Mark and label the location of the modified channel on the map and provide a brief description of the location of the channel section relative to roads or other landmarks.

*DOWNSTREAM 3/4*

**Mark where channel modification occurs:**

<input type="checkbox"/> Meander Bend	<input checked="" type="checkbox"/> Straight Section	<input type="checkbox"/> Steep Slope/Valley Wall	<input type="checkbox"/> Other
Estimate length of channel modification: <i>in 0.4 MILES</i>			
Estimate height of bank modification: <i>6</i> ft.			

<b>Type of Manipulation:</b>	<input type="checkbox"/> Channelization	<input checked="" type="checkbox"/> Bank Armoring	<input type="checkbox"/> Concrete Channel	<input type="checkbox"/> Other
<b>Extent of Manipulation:</b>	<input checked="" type="checkbox"/> Right Bank	<input checked="" type="checkbox"/> Left Bank	<input type="checkbox"/> Channel Bottom	
<b>Channel / Bank Materials:</b>	<input type="checkbox"/> Natural	<input checked="" type="checkbox"/> Rip Rap	<input checked="" type="checkbox"/> Concrete	<input type="checkbox"/> Gabions <input type="checkbox"/> Metal

**Immediately Adjacent Land Use:** Mark the land use(s) immediately adjacent to the modified section.

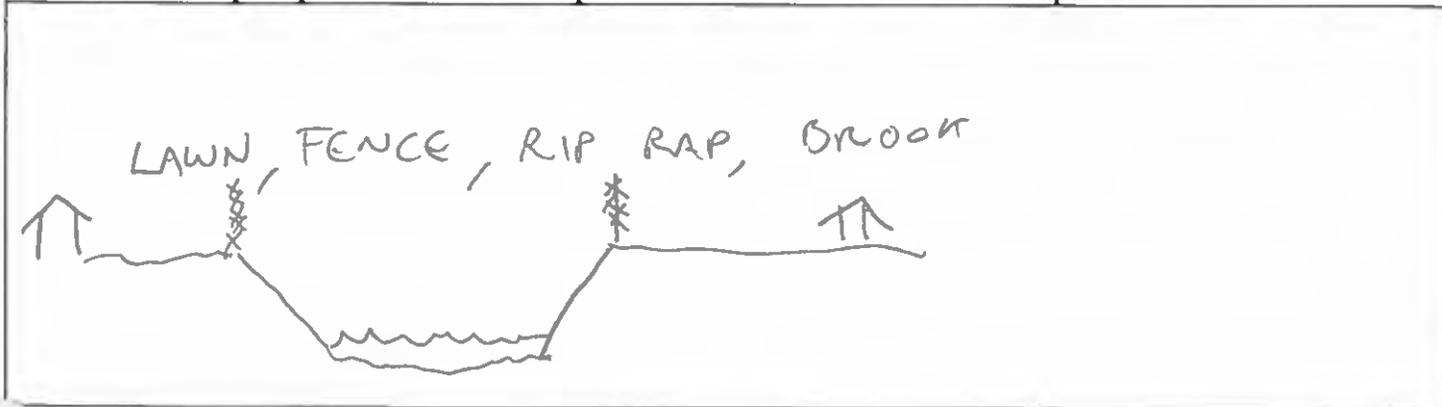
<input type="checkbox"/> Rural Residential	<input type="checkbox"/> Urban Residential	<input type="checkbox"/> Commercial	<input type="checkbox"/> Forested
<input checked="" type="checkbox"/> Suburban Residential	<input type="checkbox"/> Industrial	<input type="checkbox"/> Agricultural	<input type="checkbox"/> Recreational

**Existing Width of Riparian Vegetation:** Mark the average width of riparian vegetation to the modified section.

<input checked="" type="checkbox"/> < 15 ft.	<input type="checkbox"/> 15 - 35 ft.	<input type="checkbox"/> 35 - 50 ft.	<input type="checkbox"/> 50 - 100 ft	<input type="checkbox"/> > 100 ft
--	--------------------------------------	--------------------------------------	--------------------------------------	-----------------------------------

Is there a change in the average width of the active channel?	<input type="checkbox"/> Yes / Estimate Width:    ft	<input checked="" type="checkbox"/> No
Is there evidence of sediment deposition in the channel? <i>NA</i>	<input type="checkbox"/> Yes	<input type="checkbox"/> No
Is the channel connected to a floodplain?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No

**Notes:** Use the space provided to record important observations otherwise not captures on this sheet.



# CT - NRCS Stream Assessment Worksheet

Degraded Buffer

Survey Basin Code:	Date: 7-9-15
Name of Stream: BELDEN	Assessed By: BH AB RE
Reach Code: BLB-2	
Designated Stream Type:	
Site ID:	

**Make All Observations Facing *Downstream***

**Location / Extent of Degraded Buffer:** 1) Mark and label the location of the degraded buffer on the map. 2) Briefly describe the location of the site relative to roads or other landmarks.

DOWNSTREAM 3/4 OF REACH

**Mark where the degraded buffer occurs.**

<input type="checkbox"/> Meander Bend	<input checked="" type="checkbox"/> Straight Section	<input type="checkbox"/> Steep Slope/Valley Wall	<input type="checkbox"/> Other
<input checked="" type="checkbox"/> Left Bank	Estimate length of degraded buffer: ft.		
<input checked="" type="checkbox"/> Right Bank	Estimate length of degraded buffer: ft.		

**Type of Degradation:**

<b>Left Bank:</b>	<input checked="" type="checkbox"/> Minimal Vegetation	<input checked="" type="checkbox"/> Minimal Width	<input type="checkbox"/> Invasive Plants	<input type="checkbox"/> Other
<b>Right Bank:</b>	<input checked="" type="checkbox"/> Minimal Vegetation	<input checked="" type="checkbox"/> Minimal Width	<input type="checkbox"/> Invasive Plants	<input type="checkbox"/> Other

Dominate Land Cover	Paved	Bare Ground	Turf / Lawn	Tall Grass	Scrub / Shrub	Trees	Other
<b>Left Bank</b>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Right Bank</b>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

**Immediately Adjacent Land Use:** Mark the land use(s) immediately adjacent to the modified section.

<b>Left Bank:</b>	<input type="checkbox"/> Rural Residential	<input type="checkbox"/> Urban Residential	<input type="checkbox"/> Commercial	<input type="checkbox"/> Forested
	<input checked="" type="checkbox"/> Suburban Residential	<input type="checkbox"/> Industrial	<input type="checkbox"/> Agricultural	<input type="checkbox"/> Recreational
<b>Right Bank:</b>	<input type="checkbox"/> Rural Residential	<input type="checkbox"/> Urban Residential	<input type="checkbox"/> Commercial	<input type="checkbox"/> Forested
	<input checked="" type="checkbox"/> Suburban Residential	<input type="checkbox"/> Industrial	<input type="checkbox"/> Agricultural	<input type="checkbox"/> Recreational

**Existing Width of Riparian Vegetation:** Mark the average width of riparian vegetation to the modified section.

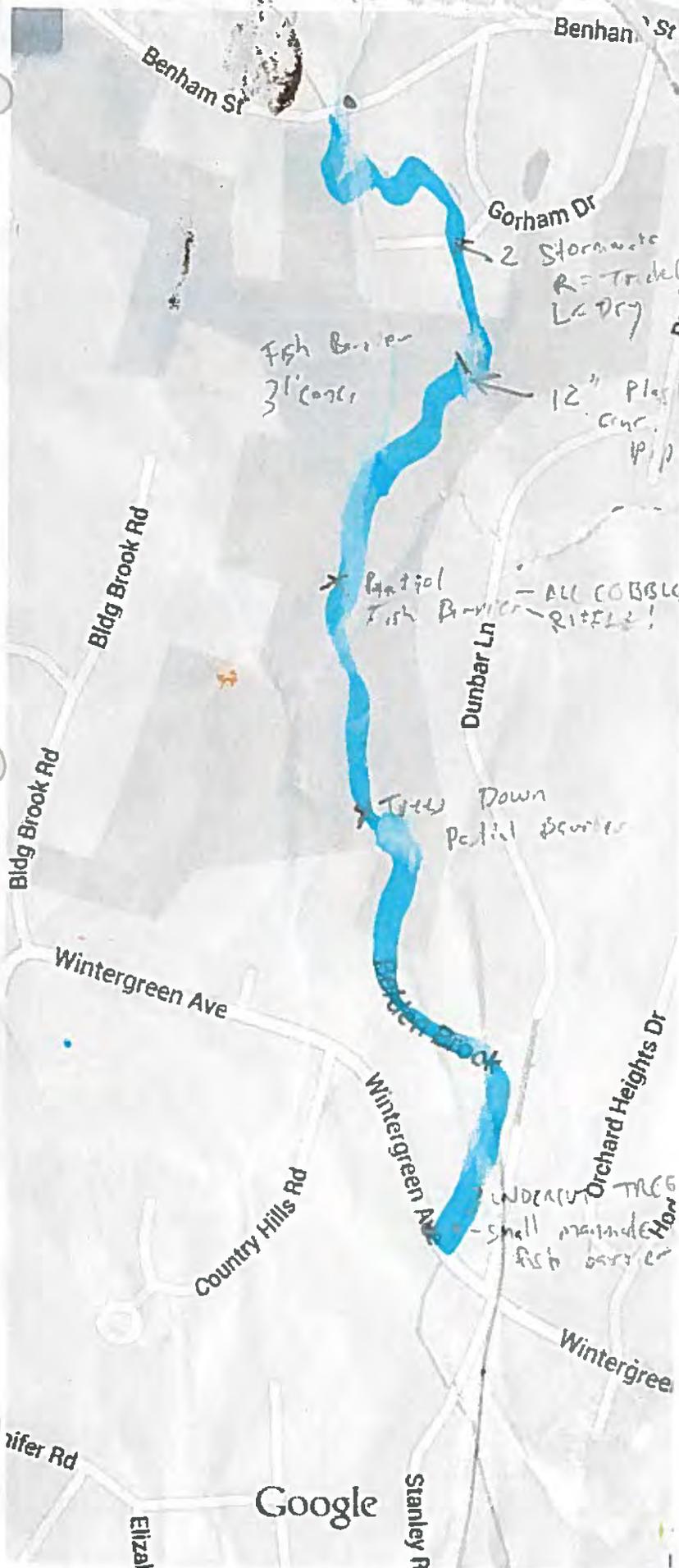
<b>Left Bank:</b>	<input checked="" type="checkbox"/> < 15 ft.	<input type="checkbox"/> 15 - 35 ft.	<input type="checkbox"/> 35 - 50 ft.	<input type="checkbox"/> 50 - 100 ft.	<input type="checkbox"/> > 100 ft.
<b>Right Bank:</b>	<input checked="" type="checkbox"/> < 15 ft.	<input type="checkbox"/> 15 - 35 ft.	<input type="checkbox"/> 35 - 50 ft.	<input type="checkbox"/> 50 - 100 ft.	<input type="checkbox"/> > 100 ft.

**Notes:** Use the space provided to record important observations otherwise not captures on this sheet.

MODIFIED CHANNEL -  
LAWN, FENCE, STEEP BANK/RIP MP, BROOK

**BCB3**

0.89 m



2 Stormwater Pipes 12"  
 R = Trade  
 L = Dry

Fish Barrier  
 3' concrete

12" Plastic  
 concrete Drain  
 pipe

Partial  
 Fish Barrier - ALL COBBLES  
 - RITZLE!

Take Down  
 Partial Barrier

WINTERGREEN TRACE  
 - small manmade flow  
 fish barrier

126675

Google

Stanley R

ifer Rd

Elizal

**CT - NRCS  
Stream Assessment Worksheet**

Fish Barrier

Survey Basin Code:	Date: 7-14-15
Name of Stream: BELDEN	Assessed By: BH, KIS
Reach Code: BLB-3	
Designated Stream Type:	
Site ID:	

**Make All Observations Facing *Downstream***

**Location of Barrier:** Mark and label the location of the barrier on the map and provide a brief description of the location of the barrier relative to roads or other landmarks.

AT @ 1/2 WAY THROUGH REACH

**Type of Barrier:** Mark the type of fish barrier.

<input checked="" type="checkbox"/> Dam	<input type="checkbox"/> Culvert	<input type="checkbox"/> Velocity Barrier	<input type="checkbox"/> Other
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**Dam Data:** Provide all relevant data.

Height of Dam: 8 ft.	Length of Spillway: 8 ft.	Shape of Spillway: <input checked="" type="checkbox"/> Straight	<input type="checkbox"/> Crescent	
Materials: <input checked="" type="checkbox"/> Stone	<input type="checkbox"/> Concrete	<input type="checkbox"/> Stone & Concrete	<input type="checkbox"/> Timber-Crib	<input type="checkbox"/> Other
Is there other infrastructure associated with the Dam? <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes (If yes mark the type below)				
<input type="checkbox"/> Factory	<input type="checkbox"/> Hydro Facility	<input type="checkbox"/> Mill	<input type="checkbox"/> Residence	<input type="checkbox"/> Other

**Culvert Data:** Provide all relevant data.

Type of Culvert:	<input type="checkbox"/> Box	<input type="checkbox"/> Pipe	<input type="checkbox"/> Pipe-Arch	<input type="checkbox"/> Arch
Culvert Material:	<input type="checkbox"/> Concrete	<input type="checkbox"/> Corrugated Metal	<input type="checkbox"/> Plastic	<input type="checkbox"/> Stone
Culvert Outlet:	<input type="checkbox"/> Perched:..... ft.	<input type="checkbox"/> Ramped	<input type="checkbox"/> Submerged	
Culvert Size:	Diameter: ft.	Height: ft.	Width: ft.	
# of Culverts:	Culvert Length: ft.			

**Velocity Barrier Data:** Provide all relevant data.

Nature of Barrier:	<input type="checkbox"/> Grade Control Sill	<input type="checkbox"/> Concrete Apron	<input type="checkbox"/> Channel Cross-Section	<input type="checkbox"/> Other
Length of Barrier:	ft.	Approx. Vertical Rise:	ft.	

**Notes:** Use the space provided to record important observations otherwise not captured on this sheet.

MAN MADE, LOW STONE ONLY

BELDEN  
BLB-3

7-14-15  
BH + ASHA

2 OUTFALLS

- 1 AT MAIN ST. BRIDGE RIV R - ROAD RUNOFF  
12" CONC.
- 1 1/10 m South RIV R 8" PVC LAWN  
DRAINAGE

BH PERCHED @ 6"

**CT - NRCS  
Stream Assessment Worksheet**

Storm Water Outfall

Survey Basin Code:	Date: 7-14-15
Name of Stream: BELDEN CR	Assessed By: BRIAN + ASHA
Reach Code: BLB-3	
Designated Stream Type:	
Site ID:	

**Make All Observations Facing *Downstream***

**Location of Outfall:**  Right Bank  Left Bank Mark and label the location of the outfall on the map and provide a brief description of the location of the outfall relative to roads or other landmarks.

1 OUTFALL AT DAM - 12" CONC IN PASTIC - L, DRY  
2 AT BRIDGE NEAR BORTHAM DR. R = TRICKLE  
L = DRY

<b>Outfall Type:</b>	<input checked="" type="checkbox"/> Pipe	<input type="checkbox"/> Leak Off	<input type="checkbox"/> Channel	
<b>Flow:</b>	<input checked="" type="checkbox"/> None	<input checked="" type="checkbox"/> Trickle	<input type="checkbox"/> Moderate	<input type="checkbox"/> Substantial
<b>Odor:</b>	<input checked="" type="checkbox"/> None	<input type="checkbox"/> Sewage	<input type="checkbox"/> Rancid / Sour	<input type="checkbox"/> Sulfur (rotten eggs)
<b>Deposits / Stains</b>	<input checked="" type="checkbox"/> None	<input type="checkbox"/> Sediment Delta	<input type="checkbox"/> Oily Stain	<input type="checkbox"/> Black
<b>Benthic Growth</b>	<input checked="" type="checkbox"/> None	<input type="checkbox"/> Brown	<input type="checkbox"/> Green	<input type="checkbox"/> Orange

**Pipe Data: Provide all relevant data.**

<b>Pipe Material:</b>	<input checked="" type="checkbox"/> Concrete	<input type="checkbox"/> Corrugated Metal	<input checked="" type="checkbox"/> Plastic	<input type="checkbox"/> Other
<b>Contributing Source(s):</b>	<input checked="" type="checkbox"/> Road	<input type="checkbox"/> Parking Lot	<input type="checkbox"/> Other	<input type="checkbox"/> Unknown
<b>Pipe Outlet:</b>	<input checked="" type="checkbox"/> Perched..... 1 ft.	<input type="checkbox"/> Ramped	<input type="checkbox"/> At Stream Level	
<b>Pipe Size:</b>	Diameter: 1 ft.			
<b># of Pipes:</b>	<input type="checkbox"/> 1	<input type="checkbox"/> 2	<input checked="" type="checkbox"/> 3+	

**Leak-Off Data: Provide all relevant data.**

<b>Leak-Off Swale:</b>	<input type="checkbox"/> Concrete	<input type="checkbox"/> Asphalt	<input type="checkbox"/> Stone	<input type="checkbox"/> Earthen
<b>Contributing Source (s):</b>	<input type="checkbox"/> Road	<input type="checkbox"/> Parking Lot	<input type="checkbox"/> Recreational Field	<input type="checkbox"/> Other
<b>Length of Swale:</b>	ft.			
<b>Width of Swale:</b>	ft.			

**Channel Data: Provide all relevant data.**

<b>Channel Material:</b>	<input type="checkbox"/> Concrete	<input type="checkbox"/> Asphalt	<input type="checkbox"/> Stone	<input type="checkbox"/> Earthen
<b>Contributing Source (s):</b>	<input type="checkbox"/> Road	<input type="checkbox"/> Parking Lot	<input type="checkbox"/> Recreational Field	<input type="checkbox"/> Other <input type="checkbox"/> Unknown
<b>Channel Length:</b>	ft.			
<b>Channel Width:</b>	ft.			

**Notes:** Use the space provided to record important observations otherwise not captures on this sheet.

SEE MAP

## CT-NRCS Stream Assessment Sheet

Reach Level Assessment

Survey Basin Code:	Date(s): 7-14
Name of Stream: BELDEN BROOK	Assessed By: ASHA + BRIAN
Reach Code: BLB-3	1130 - 130 (INCL. PAPERS AT END)
Designated Stream Type:	

**Make All Observations Facing *Downstream***

Was the entire reach of stream surveyed?  Yes  No, Which section(s) were not surveyed? Why?

<b>Channel Morphology:</b> Mark the predominate condition(s), and indicate the average measurements.	
<input checked="" type="checkbox"/> Step-Pool	<input checked="" type="checkbox"/> Pool-Riffle <input type="checkbox"/> Run <input type="checkbox"/> Glide <input type="checkbox"/> *Manipulated Channel (piped, lined, etc.)
Active Channel Width: 10'	Glide Depth:
Riffle Depth: 1"	Step Height: 6"
Pool Depth: 12"	Bank Height (Right Bank): 12"
Run Depth:	Bank Height (Left Bank): 12"

<b>Substrate Composition:</b> Mark approximate percentages for each substrate type observed.					
Silt or Clay <input checked="" type="checkbox"/>	<input type="checkbox"/> <5%	<input type="checkbox"/> 5-25%	<input type="checkbox"/> 25-50%	<input type="checkbox"/> 50-75%	<input type="checkbox"/> >75%
Sand <input checked="" type="checkbox"/>	<input type="checkbox"/> <5%	<input checked="" type="checkbox"/> 5-25%	<input type="checkbox"/> 25-50%	<input type="checkbox"/> 50-75%	<input type="checkbox"/> >75%
Gravel (0.1-2 inches) <input checked="" type="checkbox"/>	<input type="checkbox"/> <5%	<input checked="" type="checkbox"/> 5-25%	<input type="checkbox"/> 25-50%	<input type="checkbox"/> 50-75%	<input type="checkbox"/> >75%
Cobble (2-10 inches) <input checked="" type="checkbox"/>	<input type="checkbox"/> <5%	<input type="checkbox"/> 5-25%	<input checked="" type="checkbox"/> 25-50%	<input type="checkbox"/> 50-75%	<input type="checkbox"/> >75%
Boulder (>10 inches) <input checked="" type="checkbox"/>	<input type="checkbox"/> <5%	<input checked="" type="checkbox"/> 5-25%	<input type="checkbox"/> 25-50%	<input type="checkbox"/> 50-75%	<input type="checkbox"/> >75%
Bedrock <input checked="" type="checkbox"/>	<input type="checkbox"/> <5%	<input checked="" type="checkbox"/> 5-25%	<input type="checkbox"/> 25-50%	<input type="checkbox"/> 50-75%	<input type="checkbox"/> >75%

<b>Describe Water Conditions:</b> Mark all that apply.		
<input checked="" type="checkbox"/> Clear	<input type="checkbox"/> Stained ("iced tea")	<input type="checkbox"/> *Turbid (muddy / silty)
<input type="checkbox"/> *Green	<input type="checkbox"/> *Rusty-Red	<input type="checkbox"/> *Milky
<input type="checkbox"/> *Odors	<input type="checkbox"/> *Other (foam, dyes, chemicals)	

<b>Aquatic Plants in Stream:</b>			
Floating: (e.g. duck weed)	<input checked="" type="checkbox"/> Absent	<input type="checkbox"/> In Spots	<input type="checkbox"/> *Everywhere
Attached: (e.g. water lily)	<input checked="" type="checkbox"/> Absent	<input type="checkbox"/> In Spots	<input type="checkbox"/> *Everywhere

<b>Algae in Stream:</b>			
Floating: (e.g. planktonic)	<input checked="" type="checkbox"/> Absent	<input type="checkbox"/> In Spots	<input type="checkbox"/> *Everywhere
Attached: (e.g. filamentous)	<input type="checkbox"/> Absent	<input checked="" type="checkbox"/> In Spots	<input type="checkbox"/> *Everywhere

<b>Canopy Cover:</b> Mark approximate percentage of stream covered by tree canopy.			
<input checked="" type="checkbox"/> >75% covered	<input type="checkbox"/> 75-50% covered	<input type="checkbox"/> 50%-25% covered	<input type="checkbox"/> < 25% covered

**Area of Concern Worksheets**  
Indicate # and type of sheets completed for this reach assessment

Erosion	_____
Fish Barrier	_____
Storm Water Outfall	_____
Modified Channel	_____
Impacted Buffer	_____
Trash / Debris	_____
Water Conditions	_____

Note: Items marked with an asterisk (\*) indicate a potential area of concern. Please record all relevant information on the appropriate Area of Concern Worksheet(s).

## CT-NRCS Stream Assessment Sheet

Reach Level Assessment

Riparian Vegetation: Characterize the average density of vegetation in the first 35 feet adjacent to the stream for both banks.						
	Left Bank	Right Bank	Left Bank	Right Bank	Left Bank	Right Bank
Turf Grass <input checked="" type="checkbox"/>	<input type="checkbox"/> Low	<input type="checkbox"/> Low	<input type="checkbox"/> Moderate	<input type="checkbox"/> Moderate	<input type="checkbox"/> High	<input type="checkbox"/> High
Grass	<input checked="" type="checkbox"/> Low	<input checked="" type="checkbox"/> Low	<input type="checkbox"/> Moderate	<input type="checkbox"/> Moderate	<input type="checkbox"/> High	<input type="checkbox"/> High
Shrubs	<input checked="" type="checkbox"/> Low	<input checked="" type="checkbox"/> Low	<input type="checkbox"/> Moderate	<input type="checkbox"/> Moderate	<input type="checkbox"/> High	<input type="checkbox"/> High
Deciduous Trees	<input type="checkbox"/> Low	<input type="checkbox"/> Low	<input type="checkbox"/> Moderate	<input type="checkbox"/> Moderate	<input checked="" type="checkbox"/> High	<input checked="" type="checkbox"/> High
Coniferous Trees	<input checked="" type="checkbox"/> Low	<input checked="" type="checkbox"/> Low	<input type="checkbox"/> Moderate	<input type="checkbox"/> Moderate	<input type="checkbox"/> High	<input type="checkbox"/> High

Surrounding Land Use: Mark the dominate land use(s) for each "zone", if known or observed.					
Immediately adjacent to stream		< 1/4 Mile from stream		> 1/4 Mile from stream	
<input type="checkbox"/> Rural Residential	<input type="checkbox"/> Agricultural	<input checked="" type="checkbox"/> Rural Residential	<input type="checkbox"/> Agricultural	<input checked="" type="checkbox"/> Rural Residential	<input type="checkbox"/> Agricultural
<input type="checkbox"/> Suburban Residential	<input checked="" type="checkbox"/> Forested	<input type="checkbox"/> Suburban Residential	<input checked="" type="checkbox"/> Forested	<input type="checkbox"/> Suburban Residential	<input checked="" type="checkbox"/> Forested
<input type="checkbox"/> Urban Residential	<input type="checkbox"/> Recreational	<input type="checkbox"/> Urban Residential	<input type="checkbox"/> Recreational	<input type="checkbox"/> Urban Residential	<input type="checkbox"/> Recreational
<input type="checkbox"/> Industrial	<input type="checkbox"/> Other	<input type="checkbox"/> Industrial	<input type="checkbox"/> Other	<input type="checkbox"/> Industrial	<input type="checkbox"/> Other
<input type="checkbox"/> Commercial		<input type="checkbox"/> Commercial		<input type="checkbox"/> Commercial	

Areas of Concern Checklist: Marking "Yes" to any of the following questions indicates that an Area of Concern Worksheet should be filled out for the appropriate concern. For each occurrence observed, complete and area of concern sheet.		
Is there evidence of either stream bank erosion or streambed instability within the reach?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
Are there any dams or any other possible natural or artificial barriers to fish migration?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
Are there any storm water outfalls, discharge pipes or discharges within the reach? Indicate the number observed: <u>3</u>	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
Is there any portion of the channel that has been modified (not culvert) (channeled, piped, rip rap)?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Is there any portion of the reach where the riparian buffer has been compromised or is nonexistent?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Is there any portion of the reach that contains trash or other debris (cars, appliances, construction waste)?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Is there any portion of the reach that has a change in water conditions?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No

**Notes:** Use the space provided to record important observations otherwise not captured on the Reach Assessment Sheet or the Areas of Concern Worksheets.

NATURAL EROSION BUT NOT NEAR INFRASTRUCTURE,  
ALL NATURALLY OCCURRING

MINIMAL TRASH, ONE CAR

**CT - NRCS  
Stream Assessment Worksheet**

Fish Barrier

Survey Basin Code:	Date:
Name of Stream: <i>BLB-3</i>	Assessed By:
Reach Code: <i>BELDEN BR</i>	
Designated Stream Type:	
Site ID:	

**Make All Observations Facing *Downstream***

**Location of Barrier:** Mark and label the location of the barrier on the map and provide a brief description of the location of the barrier relative to roads or other landmarks.

**Type of Barrier:** Mark the type of fish barrier.

<input checked="" type="checkbox"/> Dam	<input type="checkbox"/> Culvert	<input type="checkbox"/> Velocity Barrier	<input type="checkbox"/> Other
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**Dam Data:** Provide all relevant data.

Height of Dam: <i>4</i> ft.	Length of Spillway: <i>8</i> ft.	Shape of Spillway: <input checked="" type="checkbox"/> Straight	<input type="checkbox"/> Crescent	
Materials: <input type="checkbox"/> Stone	<input checked="" type="checkbox"/> Concrete	<input type="checkbox"/> Stone & Concrete	<input type="checkbox"/> Timber-Crib	<input type="checkbox"/> Other
Is there other infrastructure associated with the Dam? <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes (If yes mark the type below)				
<input type="checkbox"/> Factory	<input type="checkbox"/> Hydro Facility	<input type="checkbox"/> Mill	<input type="checkbox"/> Residence	<input type="checkbox"/> Other

**Culvert Data:** Provide all relevant data.

Type of Culvert:	<input type="checkbox"/> Box	<input type="checkbox"/> Pipe	<input type="checkbox"/> Pipe-Arch	<input type="checkbox"/> Arch
Culvert Material:	<input type="checkbox"/> Concrete	<input type="checkbox"/> Corrugated Metal	<input type="checkbox"/> Plastic	<input type="checkbox"/> Stone
Culvert Outlet:	<input type="checkbox"/> Perched:..... ft.	<input type="checkbox"/> Ramped	<input type="checkbox"/> Submerged	
Culvert Size:	Diameter: ft.	Height: ft.	Width: ft.	
# of Culverts:	Culvert Length: ft.			

**Velocity Barrier Data:** Provide all relevant data.

Nature of Barrier:	<input type="checkbox"/> Grade Control Sill	<input type="checkbox"/> Concrete Apron	<input type="checkbox"/> Channel Cross-Section	<input type="checkbox"/> Other
Length of Barrier:	ft.	Approx. Vertical Rise:	ft.	

**Notes:** Use the space provided to record important observations otherwise not captured on this sheet.

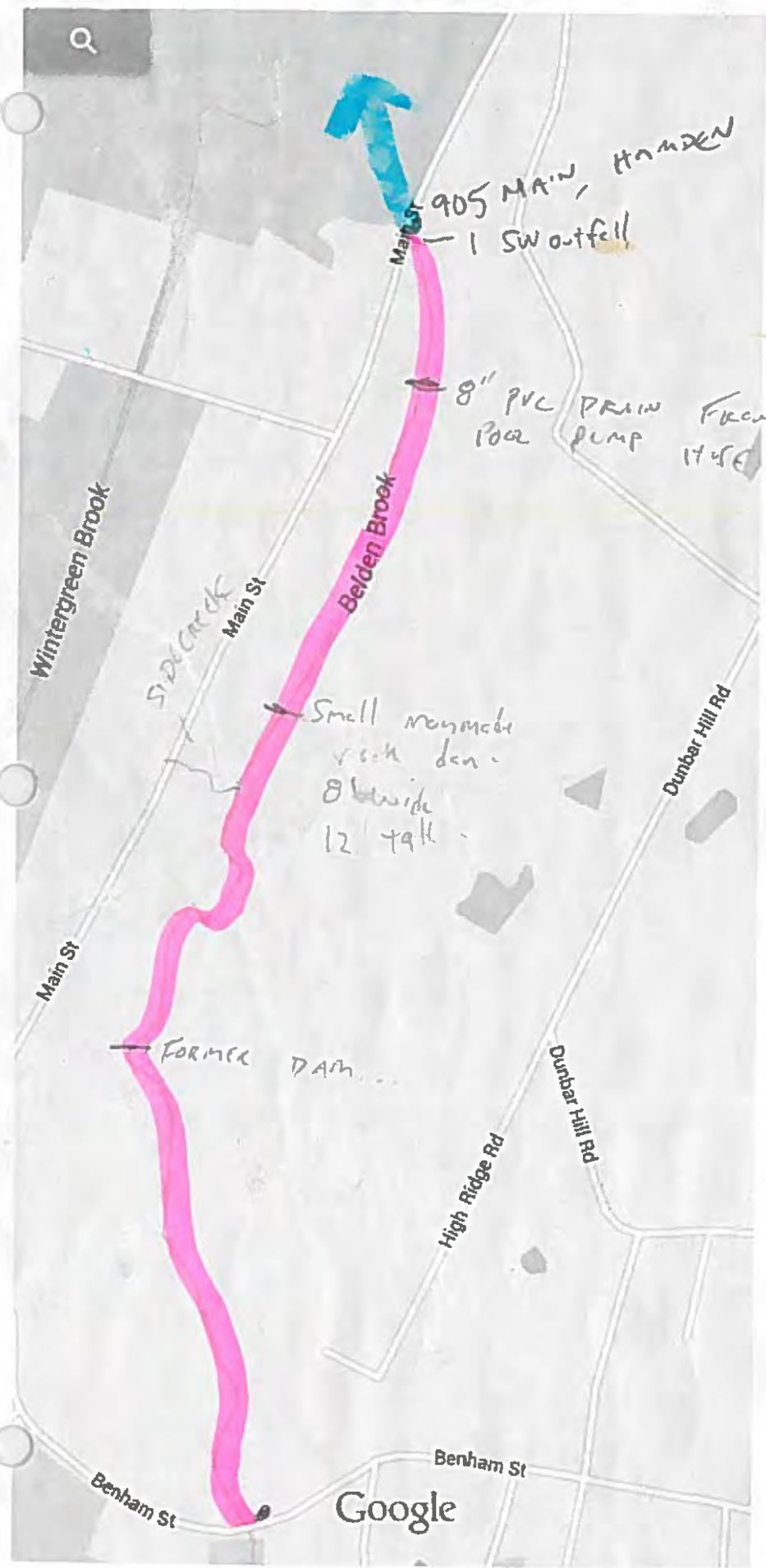
*Two steps - 6", 3.5'  
poured conc. structure*

BLB5

0.44<sup>?</sup>

BLB4

1.03m



905 MAIN, HANDEN  
- 1 SW outfall

8" PVC PIPING FROM LAWN  
POOL PUMP USE TOO

Small manmade  
rock den -  
8' wide  
12' tall

FORMER DAM

915 BENHAM



**CT-NRCS  
Stream Assessment Sheet**

Reach Level Assessment

Survey Basin Code:	Date(s):
Name of Stream: <u>BELDEN</u>	Assessed By: <u>ASHA, BRIAN</u>
Reach Code: <u>BLB-4</u>	<u>2 PM - 3:00</u>
Designated Stream Type:	

Make All Observations Facing *Downstream*

Was the entire reach of stream surveyed?  Yes  No, Which section(s) were not surveyed? Why?

<b>Channel Morphology:</b> Mark the predominate condition(s), and indicate the average measurements.	
<input checked="" type="checkbox"/> Step-Pool	<input checked="" type="checkbox"/> Pool-Riffle <input type="checkbox"/> Run <input type="checkbox"/> Glide * <input type="checkbox"/> Manipulated Channel (piped, lined, etc.)
Active Channel Width: <u>5' (1-8')</u>	Glide Depth:
Riffle Depth: <u>1'</u>	Step Height: <u>4"</u>
Pool Depth: <u>1'</u>	Bank Height (Right Bank): <u>1.5'</u>
Run Depth:	Bank Height (Left Bank): <u>1.5'</u>

<b>Substrate Composition:</b> Mark approximate percentages for each substrate type observed.					
Silt or Clay <input checked="" type="checkbox"/>	<input type="checkbox"/> <5%	<input type="checkbox"/> 5-25%	<input type="checkbox"/> 25-50%	<input type="checkbox"/> 50-75%	<input type="checkbox"/> >75%
Sand	<input type="checkbox"/> <5%	<input checked="" type="checkbox"/> 5-25%	<input type="checkbox"/> 25-50%	<input type="checkbox"/> 50-75%	<input type="checkbox"/> >75%
Gravel (0.1-2 inches)	<input type="checkbox"/> <5%	<input checked="" type="checkbox"/> 5-25%	<input type="checkbox"/> 25-50%	<input type="checkbox"/> 50-75%	<input type="checkbox"/> >75%
Cobble (2-10 inches)	<input type="checkbox"/> <5%	<input type="checkbox"/> 5-25%	<input checked="" type="checkbox"/> 25-50%	<input type="checkbox"/> 50-75%	<input type="checkbox"/> >75%
Boulder (>10 inches)	<input type="checkbox"/> <5%	<input checked="" type="checkbox"/> 5-25%	<input type="checkbox"/> 25-50%	<input type="checkbox"/> 50-75%	<input type="checkbox"/> >75%
Bedrock	<input type="checkbox"/> <5%	<input type="checkbox"/> 5-25%	<input checked="" type="checkbox"/> 25-50%	<input type="checkbox"/> 50-75%	<input type="checkbox"/> >75%

<b>Describe Water Conditions:</b> Mark all that apply.		
<input checked="" type="checkbox"/> Clear	<input type="checkbox"/> Stained ("iced tea")	* <input type="checkbox"/> Turbid (muddy / silty)
* <input type="checkbox"/> Green	* <input type="checkbox"/> Rusty-Red	* <input type="checkbox"/> Milky
* <input type="checkbox"/> Odors	* <input type="checkbox"/> Other (foam, dyes, chemicals)	

<b>Aquatic Plants in Stream:</b>			
Floating: (e.g. duck weed)	<input checked="" type="checkbox"/> Absent	<input type="checkbox"/> In Spots	* <input type="checkbox"/> Everywhere
Attached: (e.g. water lily)	<input type="checkbox"/> Absent	<input checked="" type="checkbox"/> In Spots	* <input type="checkbox"/> Everywhere

<b>Algae in Stream:</b>			
Floating: (e.g. planktonic)	<input checked="" type="checkbox"/> Absent	<input type="checkbox"/> In Spots	* <input type="checkbox"/> Everywhere
Attached: (e.g. filamentous)	<input type="checkbox"/> Absent	<input checked="" type="checkbox"/> In Spots	* <input type="checkbox"/> Everywhere

<b>Canopy Cover:</b> Mark approximate percentage of stream covered by tree canopy.			
<input checked="" type="checkbox"/> >75% covered	<input type="checkbox"/> 75-50% covered	<input type="checkbox"/> 50%-25% covered	<input type="checkbox"/> < 25% covered

**Area of Concern Worksheets**  
Indicate # and type of sheets completed for this reach assessment

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Erosion \_\_\_\_\_

Fish Barrier \_\_\_\_\_

Storm Water Outfall \_\_\_\_\_

Modified Channel \_\_\_\_\_

Impacted Buffer \_\_\_\_\_

Trash / Debris \_\_\_\_\_

Water Conditions \_\_\_\_\_

**Note:** Items marked with an asterisk (\*) indicate a potential area of concern. Please record all relevant information on the appropriate Area of Concern Worksheet(s).

# CT-NRCS Stream Assessment Sheet

Reach Level Assessment

**Riparian Vegetation:** Characterize the average density of vegetation in the first 35 feet adjacent to the stream for both banks.

	Left Bank	Right Bank	Left Bank	Right Bank	Left Bank	Right Bank
Turf Grass <i>None L</i>	<input checked="" type="checkbox"/> Low	<input checked="" type="checkbox"/> Low	<input type="checkbox"/> Moderate	<input type="checkbox"/> Moderate	<input type="checkbox"/> High	<input type="checkbox"/> High
Grass <i>X</i>	<input type="checkbox"/> Low	<input type="checkbox"/> Low	<input type="checkbox"/> Moderate	<input type="checkbox"/> Moderate	<input type="checkbox"/> High	<input type="checkbox"/> High
Shrubs	<input checked="" type="checkbox"/> Low	<input checked="" type="checkbox"/> Low	<input type="checkbox"/> Moderate	<input type="checkbox"/> Moderate	<input type="checkbox"/> High	<input type="checkbox"/> High
Deciduous Trees	<input type="checkbox"/> Low	<input type="checkbox"/> Low	<input type="checkbox"/> Moderate	<input type="checkbox"/> Moderate	<input checked="" type="checkbox"/> High	<input checked="" type="checkbox"/> High
Coniferous Trees <i>X</i>	<input type="checkbox"/> Low	<input type="checkbox"/> Low	<input type="checkbox"/> Moderate	<input type="checkbox"/> Moderate	<input type="checkbox"/> High	<input type="checkbox"/> High

**Surrounding Land Use:** Mark the dominate land use(s) for each "zone", if known or observed.

Immediately adjacent to stream		< 1/4 Mile from stream		> 1/4 Mile from stream	
<input checked="" type="checkbox"/> Rural Residential	<input type="checkbox"/> Agricultural	<input checked="" type="checkbox"/> Rural Residential	<input type="checkbox"/> Agricultural	<input checked="" type="checkbox"/> Rural Residential	<input type="checkbox"/> Agricultural
<input type="checkbox"/> Suburban Residential	<input checked="" type="checkbox"/> Forested	<input type="checkbox"/> Suburban Residential	<input checked="" type="checkbox"/> Forested	<input checked="" type="checkbox"/> Suburban Residential	<input checked="" type="checkbox"/> Forested
<input type="checkbox"/> Urban Residential	<input type="checkbox"/> Recreational	<input type="checkbox"/> Urban Residential	<input type="checkbox"/> Recreational	<input type="checkbox"/> Urban Residential	<input type="checkbox"/> Recreational
<input type="checkbox"/> Industrial	<input type="checkbox"/> Other	<input type="checkbox"/> Industrial	<input type="checkbox"/> Other	<input type="checkbox"/> Industrial	<input type="checkbox"/> Other
<input type="checkbox"/> Commercial		<input type="checkbox"/> Commercial		<input type="checkbox"/> Commercial	

**Areas of Concern Checklist:** Marking "Yes" to any of the following questions indicates that an Area of Concern Worksheet should be filled out for the appropriate concern. For each occurrence observed, complete and area of concern sheet.

Is there evidence of either stream bank erosion or streambed instability within the reach?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Are there any dams or any other possible natural or artificial barriers to fish migration?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
Are there any storm water outfalls, discharge pipes or discharges within the reach? Indicate the number observed: <i>2</i>	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
Is there any portion of the channel that has been modified (not culvert) (channeled, piped, rip rap)?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Is there any portion of the reach where the riparian buffer has been compromised or is nonexistent?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
Is there any portion of the reach that contains trash or other debris (cars, appliances, construction waste)?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Is there any portion of the reach that has a change in water conditions?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No

**Notes:** Use the space provided to record important observations otherwise not captured on the Reach Assessment Sheet or the Areas of Concern Worksheets.

**CT-NRCS  
Stream Assessment Sheet**

Reach Level Assessment

Survey Basin Code:	Date(s): 7-14-15
Name of Stream: BELDEN	Assessed By: R, A
Reach Code: RLB-5	3-330 PM
Designated Stream Type:	

Make All Observations Facing *Downstream*

Was the entire reach of stream surveyed?  Yes?  No, Which section(s) were not surveyed? Why?  
 STREAM WIDTH < 12", DEPTH @ 2-3", HARD TO TRACK, VCLY MARSHY, THICK UNDERSTORY - NO NEED TO REVISIT

**Channel Morphology:** Mark the predominate condition(s), and indicate the average measurements. *MARSHY TRICKLE!*

<input type="checkbox"/> Step-Pool	<input type="checkbox"/> Pool-Riffle	<input type="checkbox"/> Run	<input type="checkbox"/> Glide	* <input type="checkbox"/> Manipulated Channel (piped, lined, etc.)
Active Channel Width: 12'		Glide Depth:		
Riffle Depth: 2"-3"		Step Height:		
Pool Depth: 2"-3"		Bank Height (Right Bank): < 3"		
Run Depth:		Bank Height (Left Bank): < 3"		

**Substrate Composition:** Mark approximate percentages for each substrate type observed.

Silt or Clay	<input type="checkbox"/> <5%	<input type="checkbox"/> 5-25%	<input checked="" type="checkbox"/> 25-50%	<input type="checkbox"/> 50-75%	<input type="checkbox"/> >75%
Sand	<input type="checkbox"/> <5%	<input type="checkbox"/> 5-25%	<input checked="" type="checkbox"/> 25-50%	<input type="checkbox"/> 50-75%	<input type="checkbox"/> >75%
Gravel (0.1-2 inches)	<input type="checkbox"/> <5%	<input type="checkbox"/> 5-25%	<input type="checkbox"/> 25-50%	<input type="checkbox"/> 50-75%	<input type="checkbox"/> >75%
Cobble (2-10 inches)	<input type="checkbox"/> <5%	<input type="checkbox"/> 5-25%	<input type="checkbox"/> 25-50%	<input type="checkbox"/> 50-75%	<input type="checkbox"/> >75%
Boulder (>10 inches)	<input type="checkbox"/> <5%	<input type="checkbox"/> 5-25%	<input type="checkbox"/> 25-50%	<input type="checkbox"/> 50-75%	<input type="checkbox"/> >75%
Bedrock	<input type="checkbox"/> <5%	<input type="checkbox"/> 5-25%	<input type="checkbox"/> 25-50%	<input type="checkbox"/> 50-75%	<input type="checkbox"/> >75%

*LOT OF ORGANIC MUCK.*

**Describe Water Conditions:** Mark all that apply.

<input checked="" type="checkbox"/> Clear	<input type="checkbox"/> Stained ("iced tea")	* <input type="checkbox"/> Turbid (muddy / silty)
* <input type="checkbox"/> Green	* <input type="checkbox"/> Rusty-Red	* <input type="checkbox"/> Milky
* <input type="checkbox"/> Odors	* <input type="checkbox"/> Other (foam, dyes, chemicals)	

**Aquatic Plants in Stream:**

Floating: (e.g. duck weed)	<input checked="" type="checkbox"/> Absent	<input type="checkbox"/> In Spots	* <input type="checkbox"/> Everywhere
Attached: (e.g. water lily)	<input checked="" type="checkbox"/> Absent	<input type="checkbox"/> In Spots	* <input type="checkbox"/> Everywhere

**Algae in Stream:**

Floating: (e.g. planktonic)	<input checked="" type="checkbox"/> Absent	<input type="checkbox"/> In Spots	* <input type="checkbox"/> Everywhere
Attached: (e.g. filamentous)	<input checked="" type="checkbox"/> Absent	<input type="checkbox"/> In Spots	* <input type="checkbox"/> Everywhere

**Canopy Cover:** Mark approximate percentage of stream covered by tree canopy.

<input checked="" type="checkbox"/> >75% covered	<input type="checkbox"/> 75-50% covered	<input type="checkbox"/> 50%-25% covered	<input type="checkbox"/> < 25% covered
--	---	--	--

**Area of Concern Worksheets**  
 Indicate # and type of sheets completed for this reach assessment

Erosion	_____
Fish Barrier	_____
Storm Water Outfall	_____
Modified Channel	_____
Impacted Buffer	_____
Trash / Debris	_____
Water Conditions	_____

**Note:** Items marked with an asterisk (\*) indicate a potential area of concern. Please record all relevant information on the appropriate Area of Concern Worksheet(s).

**CT-NRCS  
Stream Assessment Sheet**

Reach Level Assessment

**Riparian Vegetation:** Characterize the average density of vegetation in the first 35 feet adjacent to the stream for both banks.

	Left Bank	Right Bank	Left Bank	Right Bank	Left Bank	Right Bank
Turf Grass <input checked="" type="checkbox"/>	<input type="checkbox"/> Low	<input type="checkbox"/> Low	<input type="checkbox"/> Moderate	<input type="checkbox"/> Moderate	<input type="checkbox"/> High	<input type="checkbox"/> High
Grass	<input type="checkbox"/> Low	<input type="checkbox"/> Low	<input type="checkbox"/> Moderate	<input type="checkbox"/> Moderate	<input checked="" type="checkbox"/> High	<input checked="" type="checkbox"/> High
Shrubs	<input type="checkbox"/> Low	<input type="checkbox"/> Low	<input type="checkbox"/> Moderate	<input type="checkbox"/> Moderate	<input checked="" type="checkbox"/> High	<input checked="" type="checkbox"/> High
Deciduous Trees	<input type="checkbox"/> Low	<input type="checkbox"/> Low	<input checked="" type="checkbox"/> Moderate	<input checked="" type="checkbox"/> Moderate	<input type="checkbox"/> High	<input type="checkbox"/> High
Coniferous Trees <input checked="" type="checkbox"/>	<input type="checkbox"/> Low	<input type="checkbox"/> Low	<input type="checkbox"/> Moderate	<input type="checkbox"/> Moderate	<input type="checkbox"/> High	<input type="checkbox"/> High

**Surrounding Land Use:** Mark the dominate land use(s) for each "zone", if known or observed.

Immediately adjacent to stream		< ¼ Mile from stream		> ¼ Mile from stream	
<input type="checkbox"/> Rural Residential	<input type="checkbox"/> Agricultural	<input checked="" type="checkbox"/> Rural Residential	<input type="checkbox"/> Agricultural	<input checked="" type="checkbox"/> Rural Residential	<input type="checkbox"/> Agricultural
<input type="checkbox"/> Suburban Residential	<input checked="" type="checkbox"/> Forested	<input type="checkbox"/> Suburban Residential	<input checked="" type="checkbox"/> Forested	<input type="checkbox"/> Suburban Residential	<input checked="" type="checkbox"/> Forested
<input type="checkbox"/> Urban Residential	<input type="checkbox"/> Recreational	<input type="checkbox"/> Urban Residential	<input type="checkbox"/> Recreational	<input type="checkbox"/> Urban Residential	<input type="checkbox"/> Recreational
<input type="checkbox"/> Industrial	<input type="checkbox"/> Other	<input type="checkbox"/> Industrial	<input type="checkbox"/> Other	<input type="checkbox"/> Industrial	<input type="checkbox"/> Other
<input type="checkbox"/> Commercial		<input type="checkbox"/> Commercial		<input type="checkbox"/> Commercial	

**Areas of Concern Checklist:** Marking "Yes" to any of the following questions indicates that an Area of Concern Worksheet should be filled out for the appropriate concern. For each occurrence observed, complete an area of concern sheet.

Is there evidence of either stream bank erosion or streambed instability within the reach?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Are there any dams or any other possible natural or artificial barriers to fish migration?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Are there any storm water outfalls, discharge pipes or discharges within the reach? Indicate the number observed: _____	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Is there any portion of the channel that has been modified (not culvert) (channeled, piped, rip rap)?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Is there any portion of the reach where the riparian buffer has been compromised or is nonexistent?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Is there any portion of the reach that contains trash or other debris (cars, appliances, construction waste)?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Is there any portion of the reach that has a change in water conditions?	<input checked="" type="checkbox"/> Yes	<input checked="" type="checkbox"/> No

**Notes:** Use the space provided to record important observations otherwise not captured on the Reach Assessment Sheet or the Areas of Concern Worksheets.

Completed Stream Assessment Forms  
Farm Brook



**CT-NRCS  
Stream Assessment Sheet**

Reach Level Assessment

Survey Basin Code:	Date(s): 8/13/15 10-11:30
Name of Stream: Farm Brook	Assessed By: RE/ZB/LCH
Reach Code: FB1	
Designated Stream Type:	

Make All Observations Facing *Downstream*

Was the entire reach of stream surveyed?  Yes  No, Which section(s) were not surveyed? Why?

**Channel Morphology:** Mark the predominate condition(s), and indicate the average measurements.

Step-Pool  Pool-Riffle  Run  Glide  \*Manipulated Channel (piped, lined, etc.)

Active Channel Width: 6' Glide Depth: 6"

Riffle Depth: Step Height:

Pool Depth: Bank Height (Right Bank):

Run Depth: Bank Height (Left Bank):

**Substrate Composition:** Mark approximate percentages for each substrate type observed.

Silt or Clay	<input checked="" type="checkbox"/> <5%	<input type="checkbox"/> 5-25%	<input type="checkbox"/> 25-50%	<input type="checkbox"/> 50-75%	<input type="checkbox"/> >75%
Sand	<input type="checkbox"/> <5%	<input type="checkbox"/> 5-25%	<input type="checkbox"/> 25-50%	<input checked="" type="checkbox"/> 50-75%	<input type="checkbox"/> >75%
Gravel (0.1-2 inches)	<input type="checkbox"/> <5%	<input checked="" type="checkbox"/> 5-25%	<input type="checkbox"/> 25-50%	<input type="checkbox"/> 50-75%	<input type="checkbox"/> >75%
Cobble (2-10 inches)	<input type="checkbox"/> <5%	<input checked="" type="checkbox"/> 5-25%	<input type="checkbox"/> 25-50%	<input type="checkbox"/> 50-75%	<input type="checkbox"/> >75%
Boulder (>10 inches)	<input checked="" type="checkbox"/> <5%	<input type="checkbox"/> 5-25%	<input type="checkbox"/> 25-50%	<input type="checkbox"/> 50-75%	<input type="checkbox"/> >75%
Bedrock	<input type="checkbox"/> <5%	<input type="checkbox"/> 5-25%	<input type="checkbox"/> 25-50%	<input type="checkbox"/> 50-75%	<input type="checkbox"/> >75%

**Describe Water Conditions:** Mark all that apply.

Clear  Stained ("iced tea")  \*Turbid (muddy / silty)  
 \*Green  \*Rusty-Red  \*Milky  
 \*Odors  \*Other (foam, dyes, chemicals)

**Aquatic Plants in Stream:**

Floating: (e.g. duck weed)  Absent  In Spots  \*Everywhere  
Attached: (e.g. water lily)  Absent  In Spots  \*Everywhere

**Algae in Stream:**

Floating: (e.g. planktonic)  Absent  In Spots  \*Everywhere  
Attached: (e.g. filamentous)  Absent  In Spots  \*Everywhere

**Canopy Cover:** Mark approximate percentage of stream covered by tree canopy.

>75% covered  75-50% covered  50%-25% covered  < 25% covered

**Area of Concern Worksheets**

Indicate # and type of sheets completed for this reach assessment

Erosion \_\_\_\_\_  
Fish Barrier \_\_\_\_\_  
Storm Water Outfall \_\_\_\_\_  
Modified Channel \_\_\_\_\_  
Impacted Buffer \_\_\_\_\_  
Trash / Debris \_\_\_\_\_  
Water Conditions \_\_\_\_\_

**Note:** Items marked with an asterisk (\*) indicate a potential area of concern. Please record all relevant information on the appropriate Area of Concern Worksheet(s).

**CT-NRCS  
Stream Assessment Sheet**

Reach Level Assessment

<b>Riparian Vegetation:</b> Characterize the average density of vegetation in the first 35 feet adjacent to the stream for both banks.						
	Left Bank	Right Bank	Left Bank	Right Bank	Left Bank	Right Bank
Turf Grass	<input type="checkbox"/> Low	<input type="checkbox"/> Low	<input type="checkbox"/> Moderate	<input type="checkbox"/> Moderate	<input checked="" type="checkbox"/> High	<input checked="" type="checkbox"/> High
Grass	<input type="checkbox"/> Low	<input type="checkbox"/> Low	<input type="checkbox"/> Moderate	<input type="checkbox"/> Moderate	<input type="checkbox"/> High	<input type="checkbox"/> High
Shrubs	<input type="checkbox"/> Low	<input type="checkbox"/> Low	<input checked="" type="checkbox"/> Moderate	<input checked="" type="checkbox"/> Moderate	<input type="checkbox"/> High	<input type="checkbox"/> High
Deciduous Trees	<input type="checkbox"/> Low	<input type="checkbox"/> Low	<input checked="" type="checkbox"/> Moderate	<input checked="" type="checkbox"/> Moderate	<input type="checkbox"/> High	<input type="checkbox"/> High
Coniferous Trees	<input type="checkbox"/> Low	<input type="checkbox"/> Low	<input type="checkbox"/> Moderate	<input type="checkbox"/> Moderate	<input type="checkbox"/> High	<input type="checkbox"/> High

<b>Surrounding Land Use:</b> Mark the dominate land use(s) for each "zone", if known or observed.					
Immediately adjacent to stream		< ¼ Mile from stream		> ¼ Mile from stream	
<input type="checkbox"/> Rural/Residential	<input type="checkbox"/> Agricultural	<input type="checkbox"/> Rural Residential	<input type="checkbox"/> Agricultural	<input type="checkbox"/> Rural/Residential	<input type="checkbox"/> Agricultural
<input checked="" type="checkbox"/> Suburban Residential	<input type="checkbox"/> Forested	<input checked="" type="checkbox"/> Suburban Residential	<input type="checkbox"/> Forested	<input checked="" type="checkbox"/> Suburban Residential	<input type="checkbox"/> Forested
<input type="checkbox"/> Urban/Residential	<input type="checkbox"/> Recreational	<input type="checkbox"/> Urban Residential	<input checked="" type="checkbox"/> Recreational	<input type="checkbox"/> Urban Residential	<input checked="" type="checkbox"/> Recreational
<input type="checkbox"/> Industrial	<input type="checkbox"/> Other	<input type="checkbox"/> Industrial	<input type="checkbox"/> Other	<input checked="" type="checkbox"/> Industrial	<input type="checkbox"/> Other
<input checked="" type="checkbox"/> Commercial		<input checked="" type="checkbox"/> Commercial		<input checked="" type="checkbox"/> Commercial	

<b>Areas of Concern Checklist:</b> Marking "Yes" to any of the following questions indicates that an Area of Concern Worksheet should be filled out for the appropriate concern. For each occurrence observed, complete an area of concern sheet.		
Is there evidence of either stream bank erosion or streambed instability within the reach?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
Are there any dams or any other possible natural or artificial barriers to fish migration?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
Are there any storm water outfalls, discharge pipes or discharges within the reach? Indicate the number observed: _____	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
Is there any portion of the channel that has been modified (not culvert) (channeled, piped, rip rap)?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
Is there any portion of the reach where the riparian buffer has been compromised or is nonexistent?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
Is there any portion of the reach that contains trash or other debris (cars, appliances, construction waste)?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Is there any portion of the reach that has a change in water conditions?	<input checked="" type="checkbox"/> Yes	<input checked="" type="checkbox"/> No

**Notes:** Use the space provided to record important observations otherwise not captured on the Reach Assessment Sheet or the Areas of Concern Worksheets.

**CT – NRCS  
Stream Assessment Worksheet**

Trash / Debris

Survey Basin Code:	Date:
Name of Stream:	Assessed By:
Reach Code:	
Designated Stream Type:	
Site ID:	

**Make All Observations Facing *Downstream***

**Location / Extent of Trash or Debris:** Mark and label the location of the trash or debris on the map and provide a brief description of the location relative to roads or other landmarks.

<input type="checkbox"/> Within Stream	<input type="checkbox"/> Riparian Area: <input type="checkbox"/> Left Bank <input type="checkbox"/> Right Bank
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<b>Type:</b>	<input type="checkbox"/> Residential	<input type="checkbox"/> Commercial	<input type="checkbox"/> Industrial	
<b>Material:</b>	<input type="checkbox"/> Plastic	<input type="checkbox"/> Tires	<input type="checkbox"/> Appliances	<input type="checkbox"/> Other
	<input type="checkbox"/> Paper	<input type="checkbox"/> Metal	<input type="checkbox"/> Automotive	
	<input type="checkbox"/> Yard Waste	<input type="checkbox"/> Construction	<input type="checkbox"/> Medical	
<b>Source:</b>	<input type="checkbox"/> Unknown	<input type="checkbox"/> Flooding	<input type="checkbox"/> Illegal Dumping	<input type="checkbox"/> Local Outfall
<b>Land Ownership:</b>	<input type="checkbox"/> Private	<input type="checkbox"/> Public	<input type="checkbox"/> Unknown	

**Notes:** Use the space provided to record important observations otherwise not captures on this sheet.

**CT - NRCS  
Stream Assessment Worksheet**

**Erosion Assessment**

Survey Basin Code:	Date:
Name of Stream:	Assessed By:
Reach Code:	
Designated Stream Type:	
Site ID:	

**Make All Observations Facing *Downstream***

**Location of Bank Erosion:** 1) Mark and label the location of the erosion on the map. 2) Briefly describe the location of the site relative to roads or other landmarks.

**Mark where erosion is occurring:**

<input type="checkbox"/> Meander Bend	<input type="checkbox"/> Straight Section	<input type="checkbox"/> Steep Slope/Valley Wall	<input type="checkbox"/> Other
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**Site Dimensions:** Indicate all applicable measurements associated with the erosion site

<b>Length:</b>	Left Bank:	ft.	Right Bank:	ft.
<b>Bank Height:</b>	Left Bank:	ft.	Right Bank:	ft.
<b>Bank Angle:</b>	Left Bank:	deg.	Right Bank:	deg.

**What is the proximity of the erosion site to infrastructure (e.g. road, bridge, building, etc.)?**

<input type="checkbox"/> < 15 ft.	<input type="checkbox"/> 15 - 30 ft	<input type="checkbox"/> 30 - 45 ft	<input type="checkbox"/> 45 - 60 ft	<input type="checkbox"/> 60 - 100 ft	<input type="checkbox"/> > 100 ft.
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**Immediately Adjacent Land Use:** Mark the land use(s) immediately adjacent to the erosion site.

<input type="checkbox"/> Rural Residential	<input type="checkbox"/> Urban Residential	<input type="checkbox"/> Commercial	<input type="checkbox"/> Forested
<input type="checkbox"/> Suburban Residential	<input type="checkbox"/> Industrial	<input type="checkbox"/> Agricultural	<input type="checkbox"/> Recreational

**Land Ownership:** Mark land ownership at the location of the erosion site.

<input type="checkbox"/> Public	<input type="checkbox"/> Private	<input type="checkbox"/> Unknown
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**Existing Width of Riparian Vegetation:** Mark the average width of riparian vegetation at the erosion site.

<input type="checkbox"/> < 15 ft.	<input type="checkbox"/> 15 - 35 ft.	<input type="checkbox"/> 35 - 50 ft.	<input type="checkbox"/> 50 - 100 ft	<input type="checkbox"/> > 100 ft
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**Notes:** Use the space provided to record important observations otherwise not captured on this sheet.

**CT - NRCS  
Stream Assessment Worksheet**

**Visual Water Conditions /  
Excessive Plant or Algae Growth**

Survey Basin Code:	Date:
Name of Stream:	Assessed By:
Reach Code:	
Designated Stream Type:	
Site ID:	

**Make All Observations Facing Downstream**

**Location / Extent of Visual Water Conditions and/or Excessive Plant or Algae Growth:** 1) Mark and label the location on the map. 2) Briefly describe the location of the site relative to roads or other landmarks.

**Immediately Adjacent Land Use:** Mark the land use(s) immediately adjacent to the modified section.

<input type="checkbox"/> Rural Residential	<input type="checkbox"/> Urban Residential	<input type="checkbox"/> Commercial	<input type="checkbox"/> Forested
<input type="checkbox"/> Suburban Residential	<input type="checkbox"/> Industrial	<input type="checkbox"/> Agricultural	<input type="checkbox"/> Recreational

**Describe Water Conditions:** Mark all that apply.

<input type="checkbox"/> Clear	<input type="checkbox"/> Stained ("iced tea")	<input type="checkbox"/> Turbid (muddy / silty)	<input type="checkbox"/> Odors
<input type="checkbox"/> Green	<input type="checkbox"/> Rusty-Red	<input type="checkbox"/> Milky	<input type="checkbox"/> Other (foam, dyes, chemicals)

**Canopy Cover:** Mark approximate percentage of stream covered by tree canopy.

<input type="checkbox"/> >75% covered	<input type="checkbox"/> 75-50% covered	<input type="checkbox"/> 50%-25% covered	<input type="checkbox"/> < 25% covered
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**Aquatic Plants in Stream:**

Floating: (e.g. duck weed)	<input type="checkbox"/> Absent	<input type="checkbox"/> In Spots	<input type="checkbox"/> Everywhere
Attached: (e.g. water lily)	<input type="checkbox"/> Absent	<input type="checkbox"/> In Spots	<input type="checkbox"/> Everywhere

**Algae in Stream:**

Floating: (e.g. planktonic)	<input type="checkbox"/> Absent	<input type="checkbox"/> In Spots	<input type="checkbox"/> Everywhere
Attached: (e.g. filamentous)	<input type="checkbox"/> Absent	<input type="checkbox"/> In Spots	<input type="checkbox"/> Everywhere

Is the change in water condition or excessive plant / algae growth located at or directly below a storm water outfall?	<input type="checkbox"/> Yes	<input type="checkbox"/> No
Is the change in water conditions or excessive plant / algae growth associated with a change in channel dimensions (depth & width)?	<input type="checkbox"/> Yes	<input type="checkbox"/> No
Is the change in water conditions or excessive plant / algae growth associated with an impoundment / dam on the stream?	<input type="checkbox"/> Yes	<input type="checkbox"/> No

**Notes:** Use the space provided to record important observations otherwise not captures on this sheet.

**CT - NRCS  
Stream Assessment Worksheet**

Storm Water Outfall

Survey Basin Code:	Date: 8/17/15 10-1130
Name of Stream: Farm Brook	Assessed By: PE / ZB / LCD
Reach Code: FB1	
Designated Stream Type:	
Site ID:	

**Make All Observations Facing *Downstream***

**Location of Outfall:**  Right Bank  Left Bank Mark and label the location of the outfall on the map and provide a brief description of the location of the outfall relative to roads or other landmarks.

*Our falls are marked on map as STD - there are at least 23 throughout the reach. Mostly street or lawn drainage*

<b>Outfall Type:</b>	<input checked="" type="checkbox"/> Pipe	<input type="checkbox"/> Leak Off	<input type="checkbox"/> Channel	
<b>Flow:</b>	<input checked="" type="checkbox"/> None	<input checked="" type="checkbox"/> Trickle	<input checked="" type="checkbox"/> Moderate	<input type="checkbox"/> Substantial
<b>Odor:</b>	<input checked="" type="checkbox"/> None	<input type="checkbox"/> Sewage	<input type="checkbox"/> Rancid / Sour	<input type="checkbox"/> Sulfur (rotten eggs)
<b>Deposits / Stains</b>	<input checked="" type="checkbox"/> None	<input type="checkbox"/> Sediment Delta	<input type="checkbox"/> Oily Stain	<input type="checkbox"/> Black
<b>Benthic Growth</b>	<input checked="" type="checkbox"/> None	<input type="checkbox"/> Brown	<input type="checkbox"/> Green	<input type="checkbox"/> Orange

**Pipe Data: Provide all relevant data.**

<b>Pipe Material:</b>	<input checked="" type="checkbox"/> Concrete	<input type="checkbox"/> Corrugated Metal	<input checked="" type="checkbox"/> Plastic	<input checked="" type="checkbox"/> Other
<b>Contributing Source(s):</b>	<input checked="" type="checkbox"/> Road	<input type="checkbox"/> Parking Lot	<input checked="" type="checkbox"/> Other	<input checked="" type="checkbox"/> Unknown
<b>Pipe Outlet:</b>	<input checked="" type="checkbox"/> Perched..... ft.	<input type="checkbox"/> Ramped	<input checked="" type="checkbox"/> At Stream Level	
<b>Pipe Size:</b>	Diameter: 1" - 3 ft.			
<b># of Pipes:</b>	<input type="checkbox"/> 1	<input type="checkbox"/> 2	<input checked="" type="checkbox"/> 3+ (23)	

**Leak-Off Data: Provide all relevant data.**

<b>Leak-Off Swale:</b>	<input type="checkbox"/> Concrete	<input type="checkbox"/> Asphalt	<input type="checkbox"/> Stone	<input type="checkbox"/> Earthen
<b>Contributing Source (s):</b>	<input type="checkbox"/> Road	<input type="checkbox"/> Parking Lot	<input type="checkbox"/> Recreational Field	<input type="checkbox"/> Other
<b>Length of Swale:</b> ft.				
<b>Width of Swale:</b> ft.				

**Channel Data: Provide all relevant data.**

<b>Channel Material:</b>	<input type="checkbox"/> Concrete	<input type="checkbox"/> Asphalt	<input type="checkbox"/> Stone	<input type="checkbox"/> Earthen	
<b>Contributing Source (s):</b>	<input type="checkbox"/> Road	<input type="checkbox"/> Parking Lot	<input type="checkbox"/> Recreational Field	<input type="checkbox"/> Other	<input type="checkbox"/> Unknown
<b>Channel Length:</b> ft.					
<b>Channel Width:</b> ft.					

**Notes:** Use the space provided to record important observations otherwise not captures on this sheet.

**CT - NRCS  
Stream Assessment Worksheet**

**Degraded Buffer**

Survey Basin Code:	Date: 8/13/15 10:00 - 1:30
Name of Stream: Farm Brook	Assessed By: ps/28/LCD
Reach Code: FB1	
Designated Stream Type:	
Site ID:	

**Make All Observations Facing *Downstream***

**Location / Extent of Degraded Buffer:** 1) Mark and label the location of the degraded buffer on the map. 2) Briefly describe the location of the site relative to roads or other landmarks.

*Entire Reach*

**Mark where the degraded buffer occurs.**

<input type="checkbox"/> Meander Bend	<input type="checkbox"/> Straight Section	<input type="checkbox"/> Steep Slope/Valley Wall	<input type="checkbox"/> Other
<input checked="" type="checkbox"/> Left Bank	Estimate length of degraded buffer: ft. .59 m.		
<input checked="" type="checkbox"/> Right Bank	Estimate length of degraded buffer: ft. .59 m.		

**Type of Degradation:**

<b>Left Bank:</b>	<input type="checkbox"/> Minimal Vegetation	<input checked="" type="checkbox"/> Minimal Width	<input type="checkbox"/> Invasive Plants	<input type="checkbox"/> Other
<b>Right Bank:</b>	<input type="checkbox"/> Minimal Vegetation	<input checked="" type="checkbox"/> Minimal Width	<input type="checkbox"/> Invasive Plants	<input type="checkbox"/> Other

Dominate Land Cover	Paved	Bare Ground	Turf / Lawn	Tall Grass	Scrub / Shrub	Trees	Other
<b>Left Bank</b>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<b>Right Bank</b>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

**Immediately Adjacent Land Use:** Mark the land use(s) immediately adjacent to the modified section.

<b>Left Bank:</b>	<input type="checkbox"/> Rural Residential	<input type="checkbox"/> Urban Residential	<input type="checkbox"/> Commercial	<input type="checkbox"/> Forested
	<input checked="" type="checkbox"/> Suburban Residential	<input type="checkbox"/> Industrial	<input type="checkbox"/> Agricultural	<input type="checkbox"/> Recreational
<b>Right Bank:</b>	<input type="checkbox"/> Rural Residential	<input type="checkbox"/> Urban Residential	<input type="checkbox"/> Commercial	<input type="checkbox"/> Forested
	<input checked="" type="checkbox"/> Suburban Residential	<input type="checkbox"/> Industrial	<input type="checkbox"/> Agricultural	<input type="checkbox"/> Recreational

**Existing Width of Riparian Vegetation:** Mark the average width of riparian vegetation to the modified section.

<b>Left Bank:</b>	<input checked="" type="checkbox"/> < 15 ft.	<input type="checkbox"/> 15 - 35 ft.	<input type="checkbox"/> 35 - 50 ft.	<input type="checkbox"/> 50 - 100 ft.	<input type="checkbox"/> > 100 ft.
<b>Right Bank:</b>	<input checked="" type="checkbox"/> < 15 ft.	<input type="checkbox"/> 15 - 35 ft.	<input type="checkbox"/> 35 - 50 ft.	<input type="checkbox"/> 50 - 100 ft.	<input type="checkbox"/> > 100 ft.

**Notes:** Use the space provided to record important observations otherwise not captured on this sheet.

**CT - NRCS  
Stream Assessment Worksheet**

Fish Barrier

Survey Basin Code:	Date: 8/13/15 10-11-30
Name of Stream: <i>Faxon Brook</i>	Assessed By: <i>RE / ZB / LCD</i>
Reach Code: <i>FBI</i>	
Designated Stream Type:	
Site ID:	

**Make All Observations Facing *Downstream***

**Location of Barrier:** Mark and label the location of the barrier on the map and provide a brief description of the location of the barrier relative to roads or other landmarks.

*2 Fish Barriers : 1 Dam , 1 Culvert*

**Type of Barrier:** Mark the type of fish barrier.

<input checked="" type="checkbox"/> Dam	<input checked="" type="checkbox"/> Culvert	<input type="checkbox"/> Velocity Barrier	<input type="checkbox"/> Other
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**Dam Data:** Provide all relevant data.

Height of Dam: <i>2</i> ft.	Length of Spillway: _____ ft.	Shape of Spillway: <input type="checkbox"/> Straight <input type="checkbox"/> Crescent
Materials: <input type="checkbox"/> Stone	<input type="checkbox"/> Concrete	<input type="checkbox"/> Stone & Concrete
		<input checked="" type="checkbox"/> Timber-Crib <input type="checkbox"/> Other
Is there other infrastructure associated with the Dam? <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes (If yes mark the type below)		
<input type="checkbox"/> Factory	<input type="checkbox"/> Hydro Facility	<input type="checkbox"/> Mill
		<input type="checkbox"/> Residence <input type="checkbox"/> Other

**Culvert Data:** Provide all relevant data.

Type of Culvert: <input type="checkbox"/> Box	<input checked="" type="checkbox"/> Pipe	<input type="checkbox"/> Pipe-Arch	<input type="checkbox"/> Arch
Culvert Material: <input checked="" type="checkbox"/> Concrete	<input type="checkbox"/> Corrugated Metal	<input type="checkbox"/> Plastic	<input type="checkbox"/> Stone
Culvert Outlet: <input type="checkbox"/> Perched:..... ft.	<input checked="" type="checkbox"/> Ramped	<input type="checkbox"/> Submerged	
Culvert Size: Diameter: <i>4</i> ft.	Height: _____ ft.	Width: _____ ft.	
# of Culverts: <i>2</i>	Culvert Length: <i>60</i> ft.		

**Velocity Barrier Data:** Provide all relevant data.

Nature of Barrier: <input type="checkbox"/> Grade Control Sill	<input type="checkbox"/> Concrete Apron	<input type="checkbox"/> Channel Cross-Section	<input type="checkbox"/> Other
Length of Barrier: _____ ft.	Approx. Vertical Rise: _____ ft.		

**Notes:** Use the space provided to record important observations otherwise not captured on this sheet.

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**CT-NRCS  
Stream Assessment Worksheet**

Modified Channel

Survey Basin Code:	Date: 8/13/15 10-11'30
Name of Stream: Farm Brook	Assessed By: RE/ZB/LCD
Reach Code: FBI	
Designated Stream Type:	
Site ID:	

**Make All Observations Facing *Downstream***

**Location / Extent of Modified Channel:** Mark and label the location of the modified channel on the map and provide a brief description of the location of the channel section relative to roads or other landmarks.

*Entire Reach*

**Mark where channel modification occurs:**

Meander Bend       Straight Section       Steep Slope/Valley Wall       Other

**Estimate length of channel modification:** .59 ~~ft~~ miles

**Estimate height of bank modification:** 2 ft.

**Type of Manipulation:**     Channelization     Bank Armoring     Concrete Channel     Other

**Extent of Manipulation:**     Right Bank     Left Bank     Channel Bottom

**Channel / Bank Materials:**     Natural     Rip Rap     Concrete     Gabions     Metal

**Immediately Adjacent Land Use:** Mark the land use(s) immediately adjacent to the modified section.

Rural Residential     Urban Residential     Commercial     Forested  
 Suburban Residential     Industrial     Agricultural     Recreational

**Existing Width of Riparian Vegetation:** Mark the average width of riparian vegetation to the modified section.

< 15 ft.     15 - 35 ft.     35 - 50 ft.     50 - 100 ft     > 100 ft

Is there a change in the average width of the active channel?     Yes / Estimate Width:    ft     No

Is there evidence of sediment deposition in the channel?     Yes     No

Is the channel connected to a floodplain?     Yes     No

**Notes:** Use the space provided to record important observations otherwise not captures on this sheet.

*One Section 6 ft wall (R Bank) mostly rip rap*



**CT-NRCS  
Stream Assessment Sheet**

Reach Level Assessment

Survey Basin Code:	Date(s): 8/13/15 115-230
Name of Stream: Farm Brook	Assessed By: RE/ZB/LCD
Reach Code: FB2	
Designated Stream Type:	

**Make All Observations Facing *Downstream***

Was the entire reach of stream surveyed?  Yes  No, Which section(s) were not surveyed? Why?

Large patches of marsh, impassible - appears to be mostly wetland

**Channel Morphology:** Mark the predominate condition(s), and indicate the average measurements.

<input type="checkbox"/> Step-Pool	<input type="checkbox"/> Pool-Riffle	<input type="checkbox"/> Run	<input checked="" type="checkbox"/> Glide	* <input type="checkbox"/> Manipulated Channel (piped, lined, etc.)
Active Channel Width: 3'	Glide Depth: 4-6"			
Riffle Depth:	Step Height:			
Pool Depth:	Bank Height (Right Bank):			
Run Depth:	Bank Height (Left Bank):			

**Substrate Composition:** Mark approximate percentages for each substrate type observed.

Silt or Clay	<input type="checkbox"/> <5%	<input type="checkbox"/> 5-25%	<input type="checkbox"/> 25-50%	<input checked="" type="checkbox"/> 50-75%	<input type="checkbox"/> >75%
Sand	<input type="checkbox"/> <5%	<input type="checkbox"/> 5-25%	<input checked="" type="checkbox"/> 25-50%	<input type="checkbox"/> 50-75%	<input type="checkbox"/> >75%
Gravel (0.1-2 inches)	<input checked="" type="checkbox"/> <5%	<input type="checkbox"/> 5-25%	<input type="checkbox"/> 25-50%	<input type="checkbox"/> 50-75%	<input type="checkbox"/> >75%
Cobble (2-10 inches)	<input checked="" type="checkbox"/> <5%	<input type="checkbox"/> 5-25%	<input type="checkbox"/> 25-50%	<input type="checkbox"/> 50-75%	<input type="checkbox"/> >75%
Boulder (>10 inches)	<input type="checkbox"/> <5%	<input type="checkbox"/> 5-25%	<input type="checkbox"/> 25-50%	<input type="checkbox"/> 50-75%	<input type="checkbox"/> >75%
Bedrock	<input type="checkbox"/> <5%	<input type="checkbox"/> 5-25%	<input type="checkbox"/> 25-50%	<input type="checkbox"/> 50-75%	<input type="checkbox"/> >75%

**Describe Water Conditions:** Mark all that apply.

<input checked="" type="checkbox"/> Clear	<input type="checkbox"/> Stained ("iced tea")	* <input type="checkbox"/> Turbid (muddy / silty)
* <input type="checkbox"/> Green	* <input checked="" type="checkbox"/> Rusty-Red	* <input type="checkbox"/> Milky
* <input type="checkbox"/> Odors	* <input type="checkbox"/> Other (foam, dyes, chemicals)	

**Aquatic Plants in Stream:**

Floating: (e.g. duck weed)	<input type="checkbox"/> Absent	<input checked="" type="checkbox"/> In Spots	* <input type="checkbox"/> Everywhere
Attached: (e.g. water lily)	<input type="checkbox"/> Absent	<input checked="" type="checkbox"/> In Spots	* <input type="checkbox"/> Everywhere

**Algae in Stream:**

Floating: (e.g. planktonic)	<input type="checkbox"/> Absent	<input checked="" type="checkbox"/> In Spots	* <input type="checkbox"/> Everywhere
Attached: (e.g. filamentous)	<input type="checkbox"/> Absent	<input checked="" type="checkbox"/> In Spots	* <input type="checkbox"/> Everywhere

**Canopy Cover:** Mark approximate percentage of stream covered by tree canopy.

<input type="checkbox"/> >75% covered	<input checked="" type="checkbox"/> 75-50% covered	<input type="checkbox"/> 50%-25% covered	<input type="checkbox"/> < 25% covered
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**Area of Concern Worksheets**

Indicate # and type of sheets completed for this reach assessment

Erosion	_____
Fish Barrier	_____
Storm Water Outfall	_____
Modified Channel	_____
Impacted Buffer	_____
Trash / Debris	_____
Water Conditions	_____

**Note:** Items marked with an asterisk (\*) indicate a potential area of concern. Please record all relevant information on the appropriate Area of Concern Worksheet(s).

**CT-NRCS  
Stream Assessment Sheet**

Reach Level Assessment

**Riparian Vegetation:** Characterize the average density of vegetation in the first 35 feet adjacent to the stream for both banks.

	Left Bank	Right Bank	Left Bank	Right Bank	Left Bank	Right Bank
Turf Grass	<input checked="" type="checkbox"/> Low	<input checked="" type="checkbox"/> Low	<input type="checkbox"/> Moderate	<input type="checkbox"/> Moderate	<input type="checkbox"/> High	<input type="checkbox"/> High
Grass	<input type="checkbox"/> Low	<input type="checkbox"/> Low	<input type="checkbox"/> Moderate	<input type="checkbox"/> Moderate	<input checked="" type="checkbox"/> High	<input checked="" type="checkbox"/> High
Shrubs	<input type="checkbox"/> Low	<input type="checkbox"/> Low	<input type="checkbox"/> Moderate	<input type="checkbox"/> Moderate	<input checked="" type="checkbox"/> High	<input checked="" type="checkbox"/> High
Deciduous Trees	<input type="checkbox"/> Low	<input type="checkbox"/> Low	<input type="checkbox"/> Moderate	<input type="checkbox"/> Moderate	<input checked="" type="checkbox"/> High	<input checked="" type="checkbox"/> High
Coniferous Trees	<input type="checkbox"/> Low	<input type="checkbox"/> Low	<input type="checkbox"/> Moderate	<input type="checkbox"/> Moderate	<input type="checkbox"/> High	<input type="checkbox"/> High

**Surrounding Land Use:** Mark the dominate land use(s) for each "zone", if known or observed.

Immediately adjacent to stream		< 1/4 Mile from stream		> 1/4 Mile from stream	
<input type="checkbox"/> Rural Residential	<input type="checkbox"/> Agricultural	<input type="checkbox"/> Rural Residential	<input checked="" type="checkbox"/> Agricultural	<input type="checkbox"/> Rural Residential	<input checked="" type="checkbox"/> Agricultural
<input checked="" type="checkbox"/> Suburban Residential	<input checked="" type="checkbox"/> Forested	<input checked="" type="checkbox"/> Suburban Residential	<input checked="" type="checkbox"/> Forested	<input checked="" type="checkbox"/> Suburban Residential	<input checked="" type="checkbox"/> Forested
<input type="checkbox"/> Urban Residential	<input type="checkbox"/> Recreational	<input type="checkbox"/> Urban Residential	<input checked="" type="checkbox"/> Recreational	<input checked="" type="checkbox"/> Urban Residential	<input checked="" type="checkbox"/> Recreational
<input type="checkbox"/> Industrial	<input type="checkbox"/> Other	<input type="checkbox"/> Industrial	<input type="checkbox"/> Other	<input type="checkbox"/> Industrial	<input type="checkbox"/> Other
<input type="checkbox"/> Commercial		<input checked="" type="checkbox"/> Commercial		<input checked="" type="checkbox"/> Commercial	

**Areas of Concern Checklist:** Marking "Yes" to any of the following questions indicates that an Area of Concern Worksheet should be filled out for the appropriate concern. For each occurrence observed, complete an area of concern sheet.

Is there evidence of either stream bank erosion or streambed instability within the reach?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Are there any dams or any other possible natural or artificial barriers to fish migration?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
Are there any storm water outfalls, discharge pipes or discharges within the reach? Indicate the number observed: _____	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
Is there any portion of the channel that has been modified (not culvert) (channeled, piped, rip rap)?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Is there any portion of the reach where the riparian buffer has been compromised or is nonexistent?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Is there any portion of the reach that contains trash or other debris (cars, appliances, construction waste)?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Is there any portion of the reach that has a change in water conditions?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No

**Notes:** Use the space provided to record important observations otherwise not captured on the Reach Assessment Sheet or the Areas of Concern Worksheets.

**CT - NRCS  
Stream Assessment Worksheet**

**Erosion Assessment**

Survey Basin Code:	Date:
Name of Stream:	Assessed By:
Reach Code:	
Designated Stream Type:	
Site ID:	

**Make All Observations Facing *Downstream***

**Location of Bank Erosion:** 1) Mark and label the location of the erosion on the map. 2) Briefly describe the location of the site relative to roads or other landmarks.

**Mark where erosion is occurring:**

<input type="checkbox"/> Meander Bend	<input type="checkbox"/> Straight Section	<input type="checkbox"/> Steep Slope/Valley Wall	<input type="checkbox"/> Other
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**Site Dimensions:** Indicate all applicable measurements associated with the erosion site

<b>Length:</b>	Left Bank:	ft.	Right Bank:	ft.
<b>Bank Height:</b>	Left Bank:	ft.	Right Bank:	ft.
<b>Bank Angle:</b>	Left Bank:	deg.	Right Bank:	deg.

**What is the proximity of the erosion site to infrastructure (e.g. road, bridge, building, etc.)?**

<input type="checkbox"/> < 15 ft.	<input type="checkbox"/> 15 - 30 ft	<input type="checkbox"/> 30 - 45 ft	<input type="checkbox"/> 45 - 60 ft	<input type="checkbox"/> 60 - 100 ft	<input type="checkbox"/> > 100 ft.
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**Immediately Adjacent Land Use:** Mark the land use(s) immediately adjacent to the erosion site.

<input type="checkbox"/> Rural Residential	<input type="checkbox"/> Urban Residential	<input type="checkbox"/> Commercial	<input type="checkbox"/> Forested
<input type="checkbox"/> Suburban Residential	<input type="checkbox"/> Industrial	<input type="checkbox"/> Agricultural	<input type="checkbox"/> Recreational

**Land Ownership:** Mark land ownership at the location of the erosion site.

<input type="checkbox"/> Public	<input type="checkbox"/> Private	<input type="checkbox"/> Unknown
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**Existing Width of Riparian Vegetation:** Mark the average width of riparian vegetation at the erosion site.

<input type="checkbox"/> < 15 ft.	<input type="checkbox"/> 15 - 35 ft.	<input type="checkbox"/> 35 - 50 ft.	<input type="checkbox"/> 50 - 100 ft	<input type="checkbox"/> > 100 ft
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**Notes:** Use the space provided to record important observations otherwise not captured on this sheet.

**CT – NRCS  
Stream Assessment Worksheet**

**Visual Water Conditions /  
Excessive Plant or Algae Growth**

Survey Basin Code:	Date: 8/13/15 1:15 - 2:30
Name of Stream: Farm Brook	Assessed By: PE / ZB / LCD
Reach Code: FB 2	
Designated Stream Type:	
Site ID:	

**Make All Observations Facing Downstream**

**Location / Extent of Visual Water Conditions and/or Excessive Plant or Algae Growth:** 1) Mark and label the location on the map. 2) Briefly describe the location of the site relative to roads or other landmarks.

Farm Brook Reservoir

**Immediately Adjacent Land Use:** Mark the land use(s) immediately adjacent to the modified section.

<input type="checkbox"/> Rural Residential	<input type="checkbox"/> Urban Residential	<input type="checkbox"/> Commercial	<input checked="" type="checkbox"/> Forested
<input type="checkbox"/> Suburban Residential	<input type="checkbox"/> Industrial	<input type="checkbox"/> Agricultural	<input type="checkbox"/> Recreational

**Describe Water Conditions:** Mark all that apply.

<input type="checkbox"/> Clear	<input type="checkbox"/> Stained ("iced tea")	<input type="checkbox"/> Turbid (muddy / silty)	<input type="checkbox"/> Odors
<input type="checkbox"/> Green	<input checked="" type="checkbox"/> Rusty-Red	<input type="checkbox"/> Milky	<input type="checkbox"/> Other (foam, dyes, chemicals)

**Canopy Cover:** Mark approximate percentage of stream covered by tree canopy.

<input type="checkbox"/> >75% covered	<input type="checkbox"/> 75-50% covered	<input type="checkbox"/> 50%-25% covered	<input checked="" type="checkbox"/> < 25% covered
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**Aquatic Plants in Stream:**

Floating: (e.g. duck weed)	<input type="checkbox"/> Absent	<input type="checkbox"/> In Spots	<input checked="" type="checkbox"/> Everywhere
Attached: (e.g. water lily)	<input type="checkbox"/> Absent	<input type="checkbox"/> In Spots	<input checked="" type="checkbox"/> Everywhere

**Algae in Stream:**

Floating: (e.g. planktonic)	<input type="checkbox"/> Absent	<input checked="" type="checkbox"/> In Spots	<input type="checkbox"/> Everywhere
Attached: (e.g. filamentous)	<input checked="" type="checkbox"/> Absent	<input type="checkbox"/> In Spots	<input type="checkbox"/> Everywhere

Is the change in water condition or excessive plant / algae growth located at or directly below a storm water outfall?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
Is the change in water conditions or excessive plant / algae growth associated with a change in channel dimensions (depth & width)?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
Is the change in water conditions or excessive plant / algae growth associated with an impoundment / dam on the stream?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No

**Notes:** Use the space provided to record important observations otherwise not captures on this sheet.

Rusty Red bacteria near culvert

**CT – NRCS  
Stream Assessment Worksheet**

Modified Channel

Survey Basin Code:	Date:
Name of Stream:	Assessed By:
Reach Code:	
Designated Stream Type:	
Site ID:	

**Make All Observations Facing *Downstream***

**Location / Extent of Modified Channel:** Mark and label the location of the modified channel on the map and provide a brief description of the location of the channel section relative to roads or other landmarks.

**Mark where channel modification occurs:**

<input type="checkbox"/> Meander Bend	<input type="checkbox"/> Straight Section	<input type="checkbox"/> Steep Slope/Valley Wall	<input type="checkbox"/> Other
<b>Estimate length of channel modification:</b> ft.			
<b>Estimate height of bank modification:</b> ft.			

<b>Type of Manipulation:</b>	<input type="checkbox"/> Channelization	<input type="checkbox"/> Bank Armoring	<input type="checkbox"/> Concrete Channel	<input type="checkbox"/> Other	
<b>Extent of Manipulation:</b>	<input type="checkbox"/> Right Bank	<input type="checkbox"/> Left Bank	<input type="checkbox"/> Channel Bottom		
<b>Channel / Bank Materials:</b>	<input type="checkbox"/> Natural	<input type="checkbox"/> Rip Rap	<input type="checkbox"/> Concrete	<input type="checkbox"/> Gabions	<input type="checkbox"/> Metal

**Immediately Adjacent Land Use:** Mark the land use(s) immediately adjacent to the modified section.

<input type="checkbox"/> Rural Residential	<input type="checkbox"/> Urban Residential	<input type="checkbox"/> Commercial	<input type="checkbox"/> Forested
<input type="checkbox"/> Suburban Residential	<input type="checkbox"/> Industrial	<input type="checkbox"/> Agricultural	<input type="checkbox"/> Recreational

**Existing Width of Riparian Vegetation:** Mark the average width of riparian vegetation to the modified section.

<input type="checkbox"/> < 15 ft.	<input type="checkbox"/> 15 – 35 ft.	<input type="checkbox"/> 35 – 50 ft.	<input type="checkbox"/> 50 – 100 ft	<input type="checkbox"/> > 100 ft
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Is there a change in the average width of the active channel?	<input type="checkbox"/> Yes / Estimate Width:          ft	<input type="checkbox"/> No
Is there evidence of sediment deposition in the channel?	<input type="checkbox"/> Yes	<input type="checkbox"/> No
Is the channel connected to a floodplain?	<input type="checkbox"/> Yes	<input type="checkbox"/> No

**Notes:** Use the space provided to record important observations otherwise not captures on this sheet.

**CT - NRCS  
Stream Assessment Worksheet**

Fish Barrier

Survey Basin Code:	Date: 6/17/15 1:15 - 2:30
Name of Stream: Farm Brook	Assessed By: RE/ZB/LCO
Reach Code: F32	
Designated Stream Type:	
Site ID:	

**Make All Observations Facing *Downstream***

**Location of Barrier:** Mark and label the location of the barrier on the map and provide a brief description of the location of the barrier relative to roads or other landmarks.

**Type of Barrier:** Mark the type of fish barrier.

Dam       Culvert       Velocity Barrier       Other

**Dam Data:** Provide all relevant data.

Height of Dam: 25 ft.    Length of Spillway:    ft.    Shape of Spillway:  Straight     Crescent

Materials:     Stone     Concrete     Stone & Concrete     Timber-Crib     Other

Is there other infrastructure associated with the Dam?  No     Yes (If yes mark the type below)

Factory     Hydro Facility     Mill     Residence     Other

**Culvert Data:** Provide all relevant data.

Type of Culvert:     Box     Pipe     Pipe-Arch     Arch

Culvert Material:     Concrete     Corrugated Metal     Plastic     Stone

Culvert Outlet:     Perched:..... ft.     Ramped     Submerged

Culvert Size:    Diameter: 3 ft.    Height:    ft.    Width:    ft.

# of Culverts:    Culvert Length: 50 ft.

**Velocity Barrier Data:** Provide all relevant data.

Nature of Barrier:     Grade Control Sill     Concrete Apron     Channel Cross-Section     Other

Length of Barrier: 250 ft.    Approx. Vertical Rise: 30 ft.

**Notes:** Use the space provided to record important observations otherwise not captured on this sheet.

Large Reservoir

**CT - NRCS  
Stream Assessment Worksheet**

Storm Water Outfall

Survey Basin Code:	Date: 8/13/15 1:15-2:30
Name of Stream: Farm Brook	Assessed By: RE / ZB / LCD
Reach Code: FB2	
Designated Stream Type:	
Site ID:	

**Make All Observations Facing *Downstream***

**Location of Outfall:**  Right Bank  Left Bank Mark and label the location of the outfall on the map and provide a brief description of the location of the outfall relative to roads or other landmarks.

<b>Outfall Type:</b>	<input checked="" type="checkbox"/> Pipe	<input type="checkbox"/> Leak Off	<input type="checkbox"/> Channel	
<b>Flow:</b>	<input checked="" type="checkbox"/> None	<input type="checkbox"/> Trickle	<input type="checkbox"/> Moderate	<input type="checkbox"/> Substantial
<b>Odor:</b>	<input checked="" type="checkbox"/> None	<input type="checkbox"/> Sewage	<input type="checkbox"/> Rancid / Sour	<input type="checkbox"/> Sulfur (rotten eggs)
<b>Deposits / Stains</b>	<input checked="" type="checkbox"/> None	<input type="checkbox"/> Sediment Delta	<input type="checkbox"/> Oily Stain	<input type="checkbox"/> Black
<b>Benthic Growth</b>	<input checked="" type="checkbox"/> None	<input type="checkbox"/> Brown	<input type="checkbox"/> Green	<input type="checkbox"/> Orange

**Pipe Data:** Provide all relevant data.

<b>Pipe Material:</b>	<input checked="" type="checkbox"/> Concrete	<input type="checkbox"/> Corrugated Metal	<input type="checkbox"/> Plastic	<input type="checkbox"/> Other
<b>Contributing Source(s):</b>	<input checked="" type="checkbox"/> Road	<input type="checkbox"/> Parking Lot	<input type="checkbox"/> Other	<input type="checkbox"/> Unknown
<b>Pipe Outlet:</b>	<input checked="" type="checkbox"/> Perched..... ft.	<input type="checkbox"/> Ramped	<input type="checkbox"/> At Stream Level	
<b>Pipe Size:</b>	Diameter: 2 ft.			
<b># of Pipes:</b>	<input checked="" type="checkbox"/> 1	<input type="checkbox"/> 2	<input type="checkbox"/> 3 +	

**Leak-Off Data:** Provide all relevant data.

<b>Leak-Off Swale:</b>	<input type="checkbox"/> Concrete	<input type="checkbox"/> Asphalt	<input type="checkbox"/> Stone	<input type="checkbox"/> Earthen
<b>Contributing Source (s):</b>	<input type="checkbox"/> Road	<input type="checkbox"/> Parking Lot	<input type="checkbox"/> Recreational Field	<input type="checkbox"/> Other
<b>Length of Swale:</b> ft.				
<b>Width of Swale:</b> ft.				

**Channel Data:** Provide all relevant data.

<b>Channel Material:</b>	<input type="checkbox"/> Concrete	<input type="checkbox"/> Asphalt	<input type="checkbox"/> Stone	<input type="checkbox"/> Earthen
<b>Contributing Source (s):</b>	<input type="checkbox"/> Road	<input type="checkbox"/> Parking Lot	<input type="checkbox"/> Recreational Field	<input type="checkbox"/> Other <input type="checkbox"/> Unknown
<b>Channel Length:</b> ft.				
<b>Channel Width:</b> ft.				

**Notes:** Use the space provided to record important observations otherwise not captures on this sheet.

**CT - NRCS  
Stream Assessment Worksheet**

Trash / Debris

Survey Basin Code:	Date:
Name of Stream:	Assessed By:
Reach Code:	
Designated Stream Type:	
Site ID:	

**Make All Observations Facing *Downstream***

**Location / Extent of Trash or Debris:** Mark and label the location of the trash or debris on the **map** and provide a brief description of the location relative to roads or other landmarks.

Within Stream       Riparian Area:    Left Bank    Right Bank

<b>Type:</b>	<input type="checkbox"/> Residential	<input type="checkbox"/> Commercial	<input type="checkbox"/> Industrial	
<b>Material:</b>	<input type="checkbox"/> Plastic	<input type="checkbox"/> Tires	<input type="checkbox"/> Appliances	<input type="checkbox"/> Other
	<input type="checkbox"/> Paper	<input type="checkbox"/> Metal	<input type="checkbox"/> Automotive	
	<input type="checkbox"/> Yard Waste	<input type="checkbox"/> Construction	<input type="checkbox"/> Medical	
<b>Source:</b>	<input type="checkbox"/> Unknown	<input type="checkbox"/> Flooding	<input type="checkbox"/> Illegal Dumping	<input type="checkbox"/> Local Outfall
<b>Land Ownership:</b>	<input type="checkbox"/> Private	<input type="checkbox"/> Public	<input type="checkbox"/> Unknown	

**Notes:** Use the space provided to record important observations otherwise not captures on this sheet.

**CT – NRCS  
Stream Assessment Worksheet**

**Degraded Buffer**

Survey Basin Code:	Date:
Name of Stream:	Assessed By:
Reach Code:	
Designated Stream Type:	
Site ID:	

**Make All Observations Facing *Downstream***

**Location / Extent of Degraded Buffer:** 1) Mark and label the location of the degraded buffer on the map. 2) Briefly describe the location of the site relative to roads or other landmarks.

**Mark where the degraded buffer occurs.**

<input type="checkbox"/> Meander Bend	<input type="checkbox"/> Straight Section	<input type="checkbox"/> Steep Slope/Valley Wall	<input type="checkbox"/> Other
<input type="checkbox"/> Left Bank	Estimate length of degraded buffer:          ft.		
<input type="checkbox"/> Right Bank	Estimate length of degraded buffer:          ft.		

**Type of Degradation:**

<b>Left Bank:</b>	<input type="checkbox"/> Minimal Vegetation	<input type="checkbox"/> Minimal Width	<input type="checkbox"/> Invasive Plants	<input type="checkbox"/> Other
<b>Right Bank:</b>	<input type="checkbox"/> Minimal Vegetation	<input type="checkbox"/> Minimal Width	<input type="checkbox"/> Invasive Plants	<input type="checkbox"/> Other

Dominate Land Cover	Paved	Bare Ground	Turf / Lawn	Tall Grass	Scrub / Shrub	Trees	Other
<b>Left Bank</b>	<input type="checkbox"/>						
<b>Right Bank</b>	<input type="checkbox"/>						

**Immediately Adjacent Land Use:** Mark the land use(s) immediately adjacent to the modified section.

<b>Left Bank:</b>	<input type="checkbox"/> Rural Residential	<input type="checkbox"/> Urban Residential	<input type="checkbox"/> Commercial	<input type="checkbox"/> Forested
	<input type="checkbox"/> Suburban Residential	<input type="checkbox"/> Industrial	<input type="checkbox"/> Agricultural	<input type="checkbox"/> Recreational
<b>Right Bank:</b>	<input type="checkbox"/> Rural Residential	<input type="checkbox"/> Urban Residential	<input type="checkbox"/> Commercial	<input type="checkbox"/> Forested
	<input type="checkbox"/> Suburban Residential	<input type="checkbox"/> Industrial	<input type="checkbox"/> Agricultural	<input type="checkbox"/> Recreational

**Existing Width of Riparian Vegetation:** Mark the average width of riparian vegetation to the modified section.

<b>Left Bank:</b>	<input type="checkbox"/> < 15 ft.	<input type="checkbox"/> 15 – 35 ft.	<input type="checkbox"/> 35 – 50 ft.	<input type="checkbox"/> 50 – 100 ft	<input type="checkbox"/> > 100 ft
<b>Right Bank:</b>	<input type="checkbox"/> < 15 ft.	<input type="checkbox"/> 15 – 35 ft.	<input type="checkbox"/> 35 – 50 ft.	<input type="checkbox"/> 50 – 100 ft	<input type="checkbox"/> > 100 ft

**Notes:** Use the space provided to record important observations otherwise not captures on this sheet.

33 .137m

1430 DUNBAR HILL RD



16 AUTUMN RIDGE RD. HAMDEN

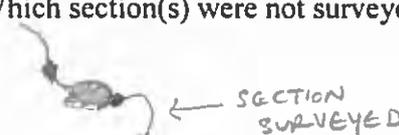
**CT-NRCS  
Stream Assessment Sheet**

Reach Level Assessment

Survey Basin Code:	Date(s): 7/21/15 9-10:15 AM 8/18/15
Name of Stream: FARM BROOK	Assessed By: AB RE 9:30-11:20
Reach Code: FB3	RE / LCD
Designated Stream Type:	

Make All Observations Facing *Downstream*

Was the entire reach of stream surveyed?  Yes  No, Which section(s) were not surveyed? Why?



**Channel Morphology:** Mark the predominate condition(s), and indicate the average measurements.

<input type="checkbox"/> Step-Pool	<input checked="" type="checkbox"/> Pool-Riffle	<input type="checkbox"/> Run	<input type="checkbox"/> Glide	* <input type="checkbox"/> Manipulated Channel (piped, lined, etc.)
Active Channel Width: 6'	Glide Depth:			
Riffle Depth: 2'	Step Height:			
Pool Depth: 1 1/2'	Bank Height (Right Bank): 1 1/2'			
Run Depth:	Bank Height (Left Bank): 1 1/2'			

**Substrate Composition:** Mark approximate percentages for each substrate type observed.

Silt or Clay	<input type="checkbox"/> <5%	<input type="checkbox"/> 5-25%	<input checked="" type="checkbox"/> 25-50%	<input type="checkbox"/> 50-75%	<input type="checkbox"/> >75%
Sand	<input type="checkbox"/> <5%	<input type="checkbox"/> 5-25%	<input checked="" type="checkbox"/> 25-50%	<input type="checkbox"/> 50-75%	<input type="checkbox"/> >75%
Gravel (0.1-2 inches)	<input type="checkbox"/> <5%	<input checked="" type="checkbox"/> 5-25%	<input type="checkbox"/> 25-50%	<input type="checkbox"/> 50-75%	<input type="checkbox"/> >75%
Cobble (2-10 inches)	<input type="checkbox"/> <5%	<input type="checkbox"/> 5-25%	<input checked="" type="checkbox"/> 25-50%	<input type="checkbox"/> 50-75%	<input type="checkbox"/> >75%
Boulder (>10 inches)	<input type="checkbox"/> <5%	<input checked="" type="checkbox"/> 5-25%	<input type="checkbox"/> 25-50%	<input type="checkbox"/> 50-75%	<input type="checkbox"/> >75%
Bedrock	<input type="checkbox"/> <5%	<input type="checkbox"/> 5-25%	<input checked="" type="checkbox"/> 25-50%	<input type="checkbox"/> 50-75%	<input type="checkbox"/> >75%

**Describe Water Conditions:** Mark all that apply.

<input checked="" type="checkbox"/> Clear	<input type="checkbox"/> Stained ("iced tea")	* <input type="checkbox"/> Turbid (muddy / silty)
* <input type="checkbox"/> Green	* <input checked="" type="checkbox"/> Rusty-Red	* <input checked="" type="checkbox"/> Milky
* <input type="checkbox"/> Odors	* <input type="checkbox"/> Other (foam, dyes, chemicals)	

**Aquatic Plants in Stream:**

Floating: (e.g. duck weed)	<input type="checkbox"/> Absent	<input checked="" type="checkbox"/> In Spots	* <input type="checkbox"/> Everywhere
Attached: (e.g. water lily)	<input type="checkbox"/> Absent	<input checked="" type="checkbox"/> In Spots	* <input type="checkbox"/> Everywhere

**Algae in Stream:**

Floating: (e.g. planktonic)	<input type="checkbox"/> Absent	<input checked="" type="checkbox"/> In Spots	* <input type="checkbox"/> Everywhere
Attached: (e.g. filamentous)	<input type="checkbox"/> Absent	<input checked="" type="checkbox"/> In Spots	* <input type="checkbox"/> Everywhere

**Canopy Cover:** Mark approximate percentage of stream covered by tree canopy.

<input type="checkbox"/> >75% covered	<input checked="" type="checkbox"/> 75-50% covered	<input type="checkbox"/> 50%-25% covered	<input type="checkbox"/> < 25% covered
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**Area of Concern Worksheets**  
Indicate # and type of sheets completed for this reach assessment

Erosion	
Fish Barrier	X
Storm Water Outfall	X
Modified Channel	
Impacted Buffer	X
Trash / Debris	
Water Conditions	X

Note: Items marked with an asterisk (\*) indicate a potential area of concern. Please record all relevant information on the appropriate Area of Concern Worksheet(s).

## CT-NRCS Stream Assessment Sheet

### Reach Level Assessment

<b>Riparian Vegetation:</b> Characterize the average density of vegetation in the first 35 feet adjacent to the stream for both banks.						
	<del>Left</del> Bank	<del>Right</del> Bank	Left Bank	Right Bank	<del>Left</del> Bank	<del>Right</del> Bank
Turf Grass	<input checked="" type="checkbox"/> Low	<input checked="" type="checkbox"/> Low	<input type="checkbox"/> Moderate	<input type="checkbox"/> Moderate	<input type="checkbox"/> High	<input type="checkbox"/> High
Grass	<input type="checkbox"/> Low	<input type="checkbox"/> Low	<input checked="" type="checkbox"/> Moderate	<input checked="" type="checkbox"/> Moderate	<input type="checkbox"/> High	<input type="checkbox"/> High
Shrubs	<input type="checkbox"/> Low	<input type="checkbox"/> Low	<input checked="" type="checkbox"/> Moderate	<input checked="" type="checkbox"/> Moderate	<input type="checkbox"/> High	<input type="checkbox"/> High
Deciduous Trees	<input type="checkbox"/> Low	<input type="checkbox"/> Low	<input checked="" type="checkbox"/> Moderate	<input checked="" type="checkbox"/> Moderate	<input type="checkbox"/> High	<input type="checkbox"/> High
Coniferous Trees	<input checked="" type="checkbox"/> Low	<input checked="" type="checkbox"/> Low	<input type="checkbox"/> Moderate	<input type="checkbox"/> Moderate	<input type="checkbox"/> High	<input type="checkbox"/> High

<b>Surrounding Land Use:</b> Mark the dominate land use(s) for each "zone", if known or observed.					
<b>Immediately adjacent to stream</b>		<b>&lt; 1/4 Mile from stream</b>		<b>&gt; 1/4 Mile from stream</b>	
<input type="checkbox"/> Rural Residential	<input type="checkbox"/> Agricultural	<input type="checkbox"/> Rural Residential	<input type="checkbox"/> Agricultural	<input type="checkbox"/> Rural Residential	<input type="checkbox"/> Agricultural
<input checked="" type="checkbox"/> Suburban Residential	<input checked="" type="checkbox"/> Forested	<input checked="" type="checkbox"/> Suburban Residential	<input checked="" type="checkbox"/> Forested	<input checked="" type="checkbox"/> Suburban Residential	<input type="checkbox"/> Forested
<input type="checkbox"/> Urban Residential	<input type="checkbox"/> Recreational	<input type="checkbox"/> Urban Residential	<input checked="" type="checkbox"/> Recreational	<input type="checkbox"/> Urban Residential	<input checked="" type="checkbox"/> Recreational
<input type="checkbox"/> Industrial	<input type="checkbox"/> Other	<input type="checkbox"/> Industrial	<input type="checkbox"/> Other	<input type="checkbox"/> Industrial	<input type="checkbox"/> Other
<input type="checkbox"/> Commercial		<input type="checkbox"/> Commercial		<input type="checkbox"/> Commercial	

<b>Areas of Concern Checklist:</b> Marking "Yes" to any of the following questions indicates that an Area of Concern Worksheet should be filled out for the appropriate concern. For each occurrence observed, complete an area of concern sheet.		
Is there evidence of either stream bank erosion or streambed instability within the reach?	<input type="checkbox"/> Yes	<input type="checkbox"/> No
Are there any dams or any other possible natural or artificial barriers to fish migration?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
Are there any storm water outfalls, discharge pipes or discharges within the reach? Indicate the number observed: _____	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
Is there any portion of the channel that has been modified (not culvert) (channeled, piped, rip rap)?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Is there any portion of the reach where the riparian buffer has been compromised or is nonexistent?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
Is there any portion of the reach that contains trash or other debris (cars, appliances, construction waste)?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Is there any portion of the reach that has a change in water conditions?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No

**Notes:** Use the space provided to record important observations otherwise not captured on the Reach Assessment Sheet or the Areas of Concern Worksheets.

**CT - NRCS  
Stream Assessment Worksheet**

Storm Water Outfall

Survey Basin Code:	Date: 7/21/15 / 8/18/15
Name of Stream: FARMBROOK	Assessed By: AB RE / RE LED
Reach Code: FB3	
Designated Stream Type:	
Site ID:	

**Make All Observations Facing *Downstream***

**Location of Outfall:**  Right Bank  Left Bank Mark and label the location of the outfall on the map and provide a brief description of the location of the outfall relative to roads or other landmarks.

- ① IN INITIAL BEND OF REACH, LEADING INTO GARDEN  
 ② AT CULVERT BEFORE POND (outfalls are labeled STO on map)

<b>Outfall Type:</b>	<input checked="" type="checkbox"/> Pipe	<input checked="" type="checkbox"/> Leak Off	<input type="checkbox"/> Channel	
<b>Flow:</b>	<input type="checkbox"/> None	<input checked="" type="checkbox"/> Trickle (Red discharge)	<input type="checkbox"/> Moderate	<input type="checkbox"/> Substantial
<b>Odor:</b>	<input type="checkbox"/> None	<input type="checkbox"/> Sewage	<input type="checkbox"/> Rancid / Sour	<input type="checkbox"/> Sulfur (rotten eggs)
<b>Deposits / Stains</b>	<input type="checkbox"/> None	<input type="checkbox"/> Sediment Delta	<input type="checkbox"/> Oily Stain	<input type="checkbox"/> Black
<b>Benthic Growth</b>	<input type="checkbox"/> None	<input type="checkbox"/> Brown	<input type="checkbox"/> Green	<input type="checkbox"/> Orange

**Pipe Data: Provide all relevant data.**

<b>Pipe Material:</b>	<input checked="" type="checkbox"/> Concrete	<input checked="" type="checkbox"/> Corrugated Metal	<input checked="" type="checkbox"/> Plastic	<input type="checkbox"/> Other
<b>Contributing Source(s):</b>	<input checked="" type="checkbox"/> Road	<input type="checkbox"/> Parking Lot	<input checked="" type="checkbox"/> Other (GARDEN)	<input type="checkbox"/> Unknown
<b>Pipe Outlet:</b>	<input checked="" type="checkbox"/> Perched..... ft.	<input type="checkbox"/> Ramped	<input checked="" type="checkbox"/> At Stream Level	
<b>Pipe Size:</b>	Diameter: 2'-2" ft.			
<b># of Pipes:</b>	<input type="checkbox"/> 1	<input type="checkbox"/> 2	<input checked="" type="checkbox"/> 3 + 19	

**Leak-Off Data: Provide all relevant data.**

<b>Leak-Off Swale:</b>	<input type="checkbox"/> Concrete	<input checked="" type="checkbox"/> Asphalt	<input type="checkbox"/> Stone	<input type="checkbox"/> Earthen
<b>Contributing Source (s):</b>	<input checked="" type="checkbox"/> Road	<input type="checkbox"/> Parking Lot	<input type="checkbox"/> Recreational Field	<input type="checkbox"/> Other
<b>Length of Swale:</b> ft.	10'			
<b>Width of Swale:</b> ft.	2'			

**Channel Data: Provide all relevant data.**

<b>Channel Material:</b>	<input type="checkbox"/> Concrete	<input type="checkbox"/> Asphalt	<input type="checkbox"/> Stone	<input type="checkbox"/> Earthen
<b>Contributing Source (s):</b>	<input type="checkbox"/> Road	<input type="checkbox"/> Parking Lot	<input type="checkbox"/> Recreational Field	<input type="checkbox"/> Other <input type="checkbox"/> Unknown
<b>Channel Length:</b> ft.				
<b>Channel Width:</b> ft.				

**Notes:** Use the space provided to record important observations otherwise not captures on this sheet.

PLASTIC HOSES USED TO WATER GARDEN

- Large BOX culvert under Hunter's Way had many small STOs draining into culvert - 12 in total
- Last STO before the Reservoir had rusty red discharge

**CT - NRCS  
Stream Assessment Worksheet**

Fish Barrier

Survey Basin Code:	Date: 7/21/15 9-10.15
Name of Stream: FARMBROOK	Assessed By: AB RE
Reach Code: FB3	
Designated Stream Type:	8/18/15 - RE LCD
Site ID:	

**Make All Observations Facing *Downstream***

**Location of Barrier:** Mark and label the location of the barrier on the map and provide a brief description of the location of the barrier relative to roads or other landmarks.

BRIDGE AT AUTUMN RIDGE AVE. LEFT CULVERT TOO SHALLOW  
RIGHT CULVERT BLOCKED WITH ROCKS

**Type of Barrier:** Mark the type of fish barrier.

<input checked="" type="checkbox"/> Dam	<input checked="" type="checkbox"/> Culvert	<input type="checkbox"/> Velocity Barrier	<input type="checkbox"/> Other
---	---	---	--------------------------------

**Dam Data:** Provide all relevant data.

Height of Dam: 20 ft.	Length of Spillway: 10 ft.	Shape of Spillway: <input checked="" type="checkbox"/> Straight <input type="checkbox"/> Crescent
Materials: <input checked="" type="checkbox"/> Stone	<input type="checkbox"/> Concrete	<input type="checkbox"/> Stone & Concrete <input type="checkbox"/> Timber-Crib <input type="checkbox"/> Other
Is there other infrastructure associated with the Dam? <input type="checkbox"/> No <input checked="" type="checkbox"/> Yes (If yes mark the type below)		
<input type="checkbox"/> Factory	<input type="checkbox"/> Hydro Facility	<input type="checkbox"/> Mill <input checked="" type="checkbox"/> Residence <input type="checkbox"/> Other

**Culvert Data:** Provide all relevant data.

Type of Culvert:	<input checked="" type="checkbox"/> Box (3)	<input checked="" type="checkbox"/> Pipe	<input type="checkbox"/> Pipe-Arch	<input type="checkbox"/> Arch
Culvert Material:	<input checked="" type="checkbox"/> Concrete	<input type="checkbox"/> Corrugated Metal	<input type="checkbox"/> Plastic	<input type="checkbox"/> Stone
Culvert Outlet:	<input type="checkbox"/> Perched:..... ft.	<input type="checkbox"/> Ramped	<input checked="" type="checkbox"/> Submerged	
Culvert Size:	Diameter: ✓ ft.	Height: 6 1/2 - 12 ft.	Width: 25	ft.
# of Culverts: 2	Culvert Length: 45 ft.			

**Velocity Barrier Data:** Provide all relevant data.

Nature of Barrier:	<input type="checkbox"/> Grade Control Sill	<input type="checkbox"/> Concrete Apron	<input type="checkbox"/> Channel Cross-Section	<input type="checkbox"/> Other
Length of Barrier:	ft.	Approx. Vertical Rise:	ft.	

**Notes:** Use the space provided to record important observations otherwise not captured on this sheet.

Several cobble dams  
Bedrock slopes

**CT - NRCS  
Stream Assessment Worksheet**

Degraded Buffer

Survey Basin Code:	Date: 7/22/15
Name of Stream: FARMBROOK	Assessed By: AB PE
Reach Code: FLB3	
Designated Stream Type:	
Site ID:	

**Make All Observations Facing *Downstream***

**Location / Extent of Degraded Buffer:** 1) Mark and label the location of the degraded buffer on the map. 2) Briefly describe the location of the site relative to roads or other landmarks.  
LAWN OF HOUSE ON LEFT BANK

**Mark where the degraded buffer occurs.**

<input type="checkbox"/> Meander Bend	<input checked="" type="checkbox"/> Straight Section	<input type="checkbox"/> Steep Slope/Valley Wall	<input type="checkbox"/> Other
<input checked="" type="checkbox"/> Left Bank	Estimate length of degraded buffer: 100 ft.		
<input type="checkbox"/> Right Bank	Estimate length of degraded buffer:       ft.		

**Type of Degradation:**

<b>Left Bank:</b>	<input type="checkbox"/> Minimal Vegetation	<input checked="" type="checkbox"/> Minimal Width	<input type="checkbox"/> Invasive Plants	<input type="checkbox"/> Other
<b>Right Bank:</b>	<input type="checkbox"/> Minimal Vegetation	<input type="checkbox"/> Minimal Width	<input type="checkbox"/> Invasive Plants	<input type="checkbox"/> Other

Dominate Land Cover	Paved	Bare Ground	Turf / Lawn	Tall Grass	Scrub / Shrub	Trees	Other
<b>Left Bank</b>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Right Bank</b>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

**Immediately Adjacent Land Use:** Mark the land use(s) immediately adjacent to the modified section.

<b>Left Bank:</b>	<input type="checkbox"/> Rural Residential	<input type="checkbox"/> Urban Residential	<input type="checkbox"/> Commercial	<input type="checkbox"/> Forested
	<input checked="" type="checkbox"/> Suburban Residential	<input type="checkbox"/> Industrial	<input type="checkbox"/> Agricultural	<input type="checkbox"/> Recreational
<b>Right Bank:</b>	<input type="checkbox"/> Rural Residential	<input type="checkbox"/> Urban Residential	<input type="checkbox"/> Commercial	<input type="checkbox"/> Forested
	<input type="checkbox"/> Suburban Residential	<input type="checkbox"/> Industrial	<input type="checkbox"/> Agricultural	<input type="checkbox"/> Recreational

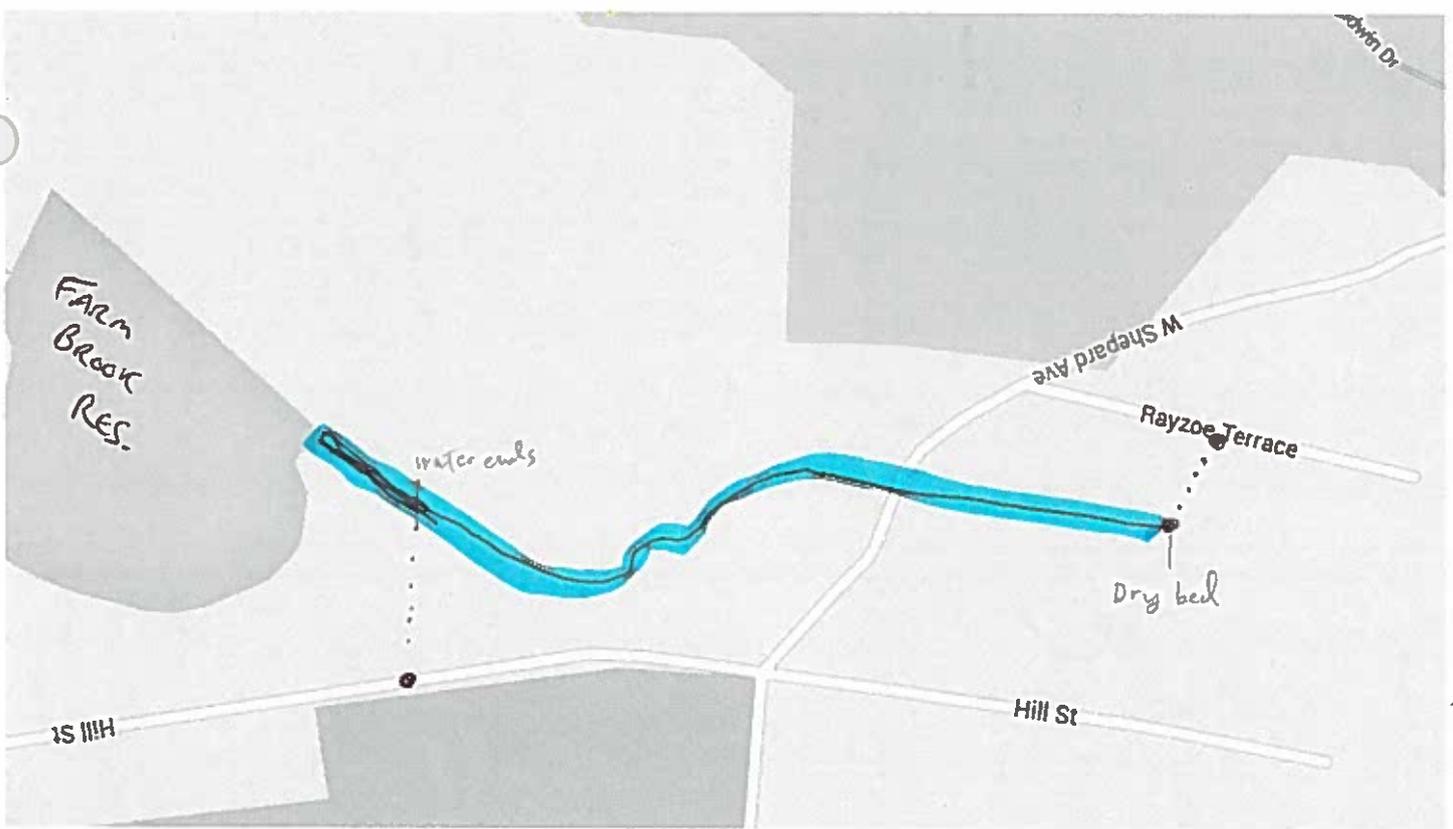
**Existing Width of Riparian Vegetation:** Mark the average width of riparian vegetation to the modified section.

<b>Left Bank:</b>	<input checked="" type="checkbox"/> < 15 ft.	<input type="checkbox"/> 15 - 35 ft.	<input type="checkbox"/> 35 - 50 ft.	<input type="checkbox"/> 50 - 100 ft.	<input type="checkbox"/> > 100 ft.
<b>Right Bank:</b>	<input type="checkbox"/> < 15 ft.	<input type="checkbox"/> 15 - 35 ft.	<input type="checkbox"/> 35 - 50 ft.	<input type="checkbox"/> 50 - 100 ft.	<input type="checkbox"/> > 100 ft.

**Notes:** Use the space provided to record important observations otherwise not captures on this sheet.

B 4 0.48 mi

7  
11  
12



29 RAYZOE TERRACE, HAMDEN

**CT-NRCS  
Stream Assessment Sheet**

Reach Level Assessment

Survey Basin Code:	Date(s): 8-18-15 11:45-12:00
Name of Stream: FARM BROOK	Assessed By: RE LEO
Reach Code: FB 4	
Designated Stream Type:	

**Make All Observations Facing *Downstream***

Was the entire reach of stream surveyed?  Yes  No, Which section(s) were not surveyed? Why?

*The stream bed was dry.*

<b>Channel Morphology:</b> Mark the predominate condition(s), and indicate the average measurements.	
<input type="checkbox"/> Step-Pool	<input type="checkbox"/> Pool-Riffle
<input type="checkbox"/> Run	<input type="checkbox"/> Glide
<input type="checkbox"/> *Manipulated Channel (piped, lined, etc.)	
Active Channel Width:	Glide Depth:
Riffle Depth:	Step Height:
Pool Depth:	Bank Height (Right Bank):
Run Depth:	Bank Height (Left Bank):

<b>Substrate Composition:</b> Mark approximate percentages for each substrate type observed.					
Silt or Clay	<input type="checkbox"/> <5%	<input type="checkbox"/> 5-25%	<input type="checkbox"/> 25-50%	<input type="checkbox"/> 50-75%	<input type="checkbox"/> >75%
Sand	<input type="checkbox"/> <5%	<input type="checkbox"/> 5-25%	<input type="checkbox"/> 25-50%	<input type="checkbox"/> 50-75%	<input type="checkbox"/> >75%
Gravel (0.1-2 inches)	<input type="checkbox"/> <5%	<input type="checkbox"/> 5-25%	<input type="checkbox"/> 25-50%	<input type="checkbox"/> 50-75%	<input type="checkbox"/> >75%
Cobble (2-10 inches)	<input type="checkbox"/> <5%	<input type="checkbox"/> 5-25%	<input type="checkbox"/> 25-50%	<input type="checkbox"/> 50-75%	<input type="checkbox"/> >75%
Boulder (>10 inches)	<input type="checkbox"/> <5%	<input type="checkbox"/> 5-25%	<input type="checkbox"/> 25-50%	<input type="checkbox"/> 50-75%	<input type="checkbox"/> >75%
Bedrock	<input type="checkbox"/> <5%	<input type="checkbox"/> 5-25%	<input type="checkbox"/> 25-50%	<input type="checkbox"/> 50-75%	<input type="checkbox"/> >75%

<b>Describe Water Conditions:</b> Mark all that apply.		
<input type="checkbox"/> Clear	<input type="checkbox"/> Stained ("iced tea")	<input type="checkbox"/> *Turbid (muddy / silty)
<input type="checkbox"/> *Green	<input type="checkbox"/> *Rusty-Red	<input type="checkbox"/> *Milky
<input type="checkbox"/> *Odors	<input type="checkbox"/> *Other (foam, dyes, chemicals)	

<b>Aquatic Plants in Stream:</b>			
Floating: (e.g. duck weed)	<input type="checkbox"/> Absent	<input type="checkbox"/> In Spots	<input type="checkbox"/> *Everywhere
Attached: (e.g. water lily)	<input type="checkbox"/> Absent	<input type="checkbox"/> In Spots	<input type="checkbox"/> *Everywhere

<b>Algae in Stream:</b>			
Floating: (e.g. planktonic)	<input type="checkbox"/> Absent	<input type="checkbox"/> In Spots	<input type="checkbox"/> *Everywhere
Attached: (e.g. filamentous)	<input type="checkbox"/> Absent	<input type="checkbox"/> In Spots	<input type="checkbox"/> *Everywhere

<b>Canopy Cover:</b> Mark approximate percentage of stream covered by tree canopy.			
<input type="checkbox"/> >75% covered	<input type="checkbox"/> 75-50% covered	<input type="checkbox"/> 50%-25% covered	<input type="checkbox"/> < 25% covered

**Area of Concern Worksheets**  
Indicate # and type of sheets completed for this reach assessment

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Erosion \_\_\_\_\_

Fish Barrier \_\_\_\_\_

Storm Water Outfall \_\_\_\_\_

Modified Channel \_\_\_\_\_

Impacted Buffer \_\_\_\_\_

Trash / Debris \_\_\_\_\_

Water Conditions \_\_\_\_\_

**Note:** Items marked with an asterisk (\*) indicate a potential area of concern. Please record all relevant information on the appropriate Area of Concern Worksheet(s).

## CT-NRCS Stream Assessment Sheet

Reach Level Assessment

<b>Riparian Vegetation:</b> Characterize the average density of vegetation in the first 35 feet adjacent to the stream for both banks.						
	Left Bank	Right Bank	Left Bank	Right Bank	Left Bank	Right Bank
Turf Grass	<input type="checkbox"/> Low	<input type="checkbox"/> Low	<input type="checkbox"/> Moderate	<input type="checkbox"/> Moderate	<input type="checkbox"/> High	<input type="checkbox"/> High
Grass	<input type="checkbox"/> Low	<input type="checkbox"/> Low	<input type="checkbox"/> Moderate	<input type="checkbox"/> Moderate	<input type="checkbox"/> High	<input type="checkbox"/> High
Shrubs	<input type="checkbox"/> Low	<input type="checkbox"/> Low	<input type="checkbox"/> Moderate	<input type="checkbox"/> Moderate	<input type="checkbox"/> High	<input type="checkbox"/> High
Deciduous Trees	<input type="checkbox"/> Low	<input type="checkbox"/> Low	<input type="checkbox"/> Moderate	<input type="checkbox"/> Moderate	<input type="checkbox"/> High	<input type="checkbox"/> High
Coniferous Trees	<input type="checkbox"/> Low	<input type="checkbox"/> Low	<input type="checkbox"/> Moderate	<input type="checkbox"/> Moderate	<input type="checkbox"/> High	<input type="checkbox"/> High

<b>Surrounding Land Use:</b> Mark the dominate land use(s) for each "zone", if known or observed.					
Immediately adjacent to stream		< 1/4 Mile from stream		> 1/4 Mile from stream	
<input type="checkbox"/> Rural Residential	<input type="checkbox"/> Agricultural	<input type="checkbox"/> Rural Residential	<input type="checkbox"/> Agricultural	<input type="checkbox"/> Rural Residential	<input type="checkbox"/> Agricultural
<input type="checkbox"/> Suburban Residential	<input type="checkbox"/> Forested	<input type="checkbox"/> Suburban Residential	<input type="checkbox"/> Forested	<input type="checkbox"/> Suburban Residential	<input type="checkbox"/> Forested
<input type="checkbox"/> Urban Residential	<input type="checkbox"/> Recreational	<input type="checkbox"/> Urban Residential	<input type="checkbox"/> Recreational	<input type="checkbox"/> Urban Residential	<input type="checkbox"/> Recreational
<input type="checkbox"/> Industrial	<input type="checkbox"/> Other	<input type="checkbox"/> Industrial	<input type="checkbox"/> Other	<input type="checkbox"/> Industrial	<input type="checkbox"/> Other
<input type="checkbox"/> Commercial		<input type="checkbox"/> Commercial		<input type="checkbox"/> Commercial	

<b>Areas of Concern Checklist:</b> Marking "Yes" to any of the following questions indicates that an Area of Concern Worksheet should be filled out for the appropriate concern. For each occurrence observed, complete and area of concern sheet.		
Is there evidence of either stream bank erosion or streambed instability within the reach?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
Are there any dams or any other possible natural or artificial barriers to fish migration?	<input type="checkbox"/> Yes	<input type="checkbox"/> No
Are there any storm water outfalls, discharge pipes or discharges within the reach? Indicate the number observed:	<input type="checkbox"/> Yes	<input type="checkbox"/> No
Is there any portion of the channel that has been modified (not culvert) (channeled, piped, rip rap)?	<input type="checkbox"/> Yes	<input type="checkbox"/> No
Is there any portion of the reach where the riparian buffer has been compromised or is nonexistent?	<input type="checkbox"/> Yes	<input type="checkbox"/> No
Is there any portion of the reach that contains trash or other debris (cars, appliances, construction waste)?	<input type="checkbox"/> Yes	<input type="checkbox"/> No
Is there any portion of the reach that has a change in water conditions?	<input type="checkbox"/> Yes	<input type="checkbox"/> No

**Notes:** Use the space provided to record important observations otherwise not captured on the Reach Assessment Sheet or the Areas of Concern Worksheets.

**CT - NRCS  
Stream Assessment Worksheet**

**Visual Water Conditions /  
Excessive Plant or Algae Growth**

Survey Basin Code:	Date: 8/15/15
Name of Stream: Farm Brook	Assessed By: RE LCD
Reach Code: FB3	
Designated Stream Type:	
Site ID:	

**Make All Observations Facing Downstream**

**Location / Extent of Visual Water Conditions and/or Excessive Plant or Algae Growth:** 1) Mark and label the location on the map. 2) Briefly describe the location of the site relative to roads or other landmarks.

**Immediately Adjacent Land Use:** Mark the land use(s) immediately adjacent to the modified section.

<input type="checkbox"/> Rural Residential	<input type="checkbox"/> Urban Residential	<input type="checkbox"/> Commercial	<input type="checkbox"/> Forested
<input checked="" type="checkbox"/> Suburban Residential	<input type="checkbox"/> Industrial	<input type="checkbox"/> Agricultural	<input type="checkbox"/> Recreational

**Describe Water Conditions:** Mark all that apply.

<input type="checkbox"/> Clear	<input type="checkbox"/> Stained ("iced tea")	<input type="checkbox"/> Turbid (muddy / silty)	<input type="checkbox"/> Odors
<input type="checkbox"/> Green	<input checked="" type="checkbox"/> Rusty-Red	<input checked="" type="checkbox"/> Milky	<input type="checkbox"/> Other (foam, dyes, chemicals)

**Canopy Cover:** Mark approximate percentage of stream covered by tree canopy.

<input type="checkbox"/> >75% covered	<input checked="" type="checkbox"/> 75-50% covered	<input type="checkbox"/> 50%-25% covered	<input type="checkbox"/> < 25% covered
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**Aquatic Plants in Stream:**

Floating: (e.g. duck weed)	<input checked="" type="checkbox"/> Absent	<input type="checkbox"/> In Spots	<input type="checkbox"/> Everywhere
Attached: (e.g. water lily)	<input type="checkbox"/> Absent	<input checked="" type="checkbox"/> In Spots	<input type="checkbox"/> Everywhere

**Algae in Stream:**

Floating: (e.g. planktonic)	<input type="checkbox"/> Absent	<input checked="" type="checkbox"/> In Spots	<input type="checkbox"/> Everywhere
Attached: (e.g. filamentous)	<input type="checkbox"/> Absent	<input type="checkbox"/> In Spots	<input checked="" type="checkbox"/> Everywhere

Is the change in water condition or excessive plant / algae growth located at or directly below a storm water outfall?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
Is the change in water conditions or excessive plant / algae growth associated with a change in channel dimensions (depth & width)?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Is the change in water conditions or excessive plant / algae growth associated with an impoundment / dam on the stream?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No

**Notes:** Use the space provided to record important observations otherwise not captures on this sheet.

Change is downstream of Farm Brook Reservoir

Completed Stream Assessment Forms  
Lower West River

**CT – NRCS  
Stream Assessment Worksheet**

Storm Water Outfall

Survey Basin Code:	Date: <u>8/19/15</u>
Name of Stream: <u>West River</u>	Assessed By: <u>Gary Zrelak</u>
Reach Code:	<u>Frank DeLeo</u>
Designated Stream Type:	<u>Frank Cochran</u>
Site ID: <u>#1</u>	

Make All Observations Facing **Downstream**

**Location of Outfall:**  Right Bank  Left Bank Mark and label the location of the outfall on the map and provide a brief description of the location of the outfall relative to roads or other landmarks.  
 Latitude 41.293° Longitude -72.9495°  
#1 on Map Drainage thru Rip Rap

<b>Outfall Type:</b>	<input type="checkbox"/> Pipe	<input type="checkbox"/> Leak Off	<input type="checkbox"/> Channel	<u>Flow thru Rip Rap</u>
<b>Flow:</b>	<input type="checkbox"/> None	<input type="checkbox"/> Trickle	<input checked="" type="checkbox"/> Moderate	<input type="checkbox"/> Substantial
<b>Odor:</b>	<input checked="" type="checkbox"/> None	<input type="checkbox"/> Sewage	<input type="checkbox"/> Rancid / Sour	<input type="checkbox"/> Sulfur (rotten eggs)
<b>Deposits / Stains</b>	<input checked="" type="checkbox"/> None	<input type="checkbox"/> Sediment Delta	<input type="checkbox"/> Oily Stain	<input type="checkbox"/> Black
<b>Benthic Growth</b>	<input checked="" type="checkbox"/> None	<input type="checkbox"/> Brown	<input type="checkbox"/> Green	<input type="checkbox"/> Orange

**Pipe Data:** Provide all relevant data.

<b>Pipe Material:</b>	<input type="checkbox"/> Concrete	<input type="checkbox"/> Corrugated Metal	<input type="checkbox"/> Plastic	<input type="checkbox"/> Other
<b>Contributing Source(s):</b>	<input type="checkbox"/> Road	<input type="checkbox"/> Parking Lot	<input type="checkbox"/> Other	<input type="checkbox"/> Unknown
<b>Pipe Outlet:</b>	<input type="checkbox"/> Perched..... ft.	<input type="checkbox"/> Ramped	<input type="checkbox"/> At Stream Level	
<b>Pipe Size:</b>	Diameter: ft.			
<b># of Pipes:</b>	<input type="checkbox"/> 1	<input type="checkbox"/> 2	<input type="checkbox"/> 3 +	

**Leak-Off Data:** Provide all relevant data.

<b>Leak-Off Swale:</b>	<input type="checkbox"/> Concrete	<input type="checkbox"/> Asphalt	<input type="checkbox"/> Stone	<input type="checkbox"/> Earthen
<b>Contributing Source (s):</b>	<input checked="" type="checkbox"/> Road	<input checked="" type="checkbox"/> Parking Lot	<input type="checkbox"/> Recreational Field	<input checked="" type="checkbox"/> Other <u>Construction Area</u>
<b>Length of Swale:</b> ft.				
<b>Width of Swale:</b> ft.				

**Channel Data:** Provide all relevant data.

<b>Channel Material:</b>	<input type="checkbox"/> Concrete	<input type="checkbox"/> Asphalt	<input type="checkbox"/> Stone	<input type="checkbox"/> Earthen
<b>Contributing Source (s):</b>	<input type="checkbox"/> Road	<input type="checkbox"/> Parking Lot	<input type="checkbox"/> Recreational Field	<input type="checkbox"/> Other <input type="checkbox"/> Unknown
<b>Channel Length:</b> ft.				
<b>Channel Width:</b> ft.				

**Notes:** Use the space provided to record important observations otherwise not captures on this sheet.

Bank has rip rap, flow from above area has construction material storage.

**CT - NRCS  
Stream Assessment Worksheet**

Storm Water Outfall

Survey Basin Code:	Date: <i>8/19/15</i>
Name of Stream: <i>West River</i>	Assessed By: <i>Gary Zrelak</i>
Reach Code:	<i>Frank DeLeo</i>
Designated Stream Type:	<i>Frank Conchrau</i>
Site ID: <i>#2</i>	

Make All Observations Facing **Downstream**

**Location of Outfall:**  Right Bank  Left Bank Mark and label the location of the outfall on the map and provide a brief description of the location of the outfall relative to roads or other landmarks.  
*Latitude - 46.29351° Longitude - 72.95009°*  
*#2 on Map - Appears to be a line behind the rip rap.*

<b>Outfall Type:</b>	<input type="checkbox"/> Pipe	<input type="checkbox"/> Leak Off	<input type="checkbox"/> Channel	<i>Flow thru rip rap</i>
<b>Flow:</b>	<input type="checkbox"/> None	<input type="checkbox"/> Trickle	<input checked="" type="checkbox"/> Moderate	<input type="checkbox"/> Substantial
<b>Odor:</b>	<input type="checkbox"/> None	<input checked="" type="checkbox"/> Sewage	<input type="checkbox"/> Rancid / Sour	<input type="checkbox"/> Sulfur (rotten eggs)
<b>Deposits / Stains</b>	<input checked="" type="checkbox"/> None	<input type="checkbox"/> Sediment Delta	<input type="checkbox"/> Oily Stain	<input type="checkbox"/> Black
<b>Benthic Growth</b>	<input checked="" type="checkbox"/> None	<input type="checkbox"/> Brown	<input type="checkbox"/> Green	<input type="checkbox"/> Orange

**Pipe Data:** Provide all relevant data.

<b>Pipe Material:</b>	<input type="checkbox"/> Concrete	<input type="checkbox"/> Corrugated Metal	<input type="checkbox"/> Plastic	<input type="checkbox"/> Other
<b>Contributing Source(s):</b>	<input type="checkbox"/> Road	<input type="checkbox"/> Parking Lot	<input type="checkbox"/> Other	<input type="checkbox"/> Unknown
<b>Pipe Outlet:</b>	<input type="checkbox"/> Perched..... ft.	<input type="checkbox"/> Ramped	<input type="checkbox"/> At Stream Level	
<b>Pipe Size:</b>	Diameter: ft.			
<b># of Pipes:</b>	<input type="checkbox"/> 1	<input type="checkbox"/> 2	<input type="checkbox"/> 3 +	

**Leak-Off Data:** Provide all relevant data.

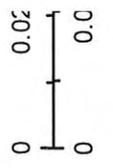
<b>Leak-Off Swale:</b>	<input type="checkbox"/> Concrete	<input type="checkbox"/> Asphalt	<input type="checkbox"/> Stone	<input type="checkbox"/> Earthen
<b>Contributing Source (s):</b>	<input type="checkbox"/> Road	<input type="checkbox"/> Parking Lot	<input type="checkbox"/> Recreational Field	<input type="checkbox"/> Other
<b>Length of Swale:</b> ft.				
<b>Width of Swale:</b> ft.				

**Channel Data:** Provide all relevant data.

<b>Channel Material:</b>	<input type="checkbox"/> Concrete	<input type="checkbox"/> Asphalt	<input type="checkbox"/> Stone	<input type="checkbox"/> Earthen	
<b>Contributing Source (s):</b>	<input type="checkbox"/> Road	<input type="checkbox"/> Parking Lot	<input type="checkbox"/> Recreational Field	<input type="checkbox"/> Other	<input type="checkbox"/> Unknown
<b>Channel Length:</b> ft.					
<b>Channel Width:</b> ft.					

**Notes:** Use the space provided to record important observations otherwise not captures on this sheet.

*Cloudy discharge and odorous, discharge is in line with Printers Lane, storm sewer from 2 catch basins is shown on GIS map.*



GNHWPCA\_GIS.DBO.sewermanholeForm

- Active
- Cross Connections**
- Abandoned

- Private Mains
- Force main
- Gravity main
- Drain Manhole
- Drain Lateral
- Drain Line

- Gravity Main
- Force main
- Assure Sewer

**CT - NRCS  
Stream Assessment Worksheet**

Storm Water Outfall

Survey Basin Code:	Date: <u>8/19/15</u>
Name of Stream: <u>West River</u>	Assessed By: <u>Gary Zwelub</u>
Reach Code:	<u>Frank DeLeo</u>
Designated Stream Type:	<u>Frank Cochran</u>
Site ID: <u># 3</u>	

Make All Observations Facing **Downstream**

**Location of Outfall:**  Right Bank  Left Bank Mark and label the location of the outfall on the map and provide a brief description of the location of the outfall relative to roads or other landmarks.  
Latitude - 41.29524° Longitude - 72.95091°  
#3 on Map - Appears to drainage from Flea Market Parking Lot

<b>Outfall Type:</b>	<input type="checkbox"/> Pipe	<input type="checkbox"/> Leak Off	<input type="checkbox"/> Channel	<u>Thru Rip Rap</u>
<b>Flow:</b>	<input type="checkbox"/> None	<input checked="" type="checkbox"/> Trickle	<input type="checkbox"/> Moderate	<input type="checkbox"/> Substantial
<b>Odor:</b>	<input checked="" type="checkbox"/> None	<input type="checkbox"/> Sewage	<input type="checkbox"/> Rancid / Sour	<input type="checkbox"/> Sulfur (rotten eggs)
<b>Deposits / Stains</b>	<input checked="" type="checkbox"/> None	<input type="checkbox"/> Sediment Delta	<input type="checkbox"/> Oily Stain	<input type="checkbox"/> Black
<b>Benthic Growth</b>	<input checked="" type="checkbox"/> None	<input type="checkbox"/> Brown	<input type="checkbox"/> Green	<input type="checkbox"/> Orange

**Pipe Data:** Provide all relevant data.

<b>Pipe Material:</b>	<input type="checkbox"/> Concrete	<input type="checkbox"/> Corrugated Metal	<input type="checkbox"/> Plastic	<input type="checkbox"/> Other
<b>Contributing Source(s):</b>	<input type="checkbox"/> Road	<input type="checkbox"/> Parking Lot	<input type="checkbox"/> Other	<input type="checkbox"/> Unknown
<b>Pipe Outlet:</b>	<input type="checkbox"/> Perched..... ft.	<input type="checkbox"/> Ramped	<input type="checkbox"/> At Stream Level	
<b>Pipe Size:</b>	Diameter: ft.			
<b># of Pipes:</b>	<input type="checkbox"/> 1	<input type="checkbox"/> 2	<input type="checkbox"/> 3 +	

**Leak-Off Data:** Provide all relevant data.

<b>Leak-Off Swale:</b>	<input type="checkbox"/> Concrete	<input type="checkbox"/> Asphalt	<input type="checkbox"/> Stone	<input type="checkbox"/> Earthen
<b>Contributing Source (s):</b>	<input type="checkbox"/> Road	<input checked="" type="checkbox"/> Parking Lot	<input type="checkbox"/> Recreational Field	<input type="checkbox"/> Other
<b>Length of Swale:</b> ft.				
<b>Width of Swale:</b> ft.				

**Channel Data:** Provide all relevant data.

<b>Channel Material:</b>	<input type="checkbox"/> Concrete	<input type="checkbox"/> Asphalt	<input type="checkbox"/> Stone	<input type="checkbox"/> Earthen	
<b>Contributing Source (s):</b>	<input type="checkbox"/> Road	<input type="checkbox"/> Parking Lot	<input type="checkbox"/> Recreational Field	<input type="checkbox"/> Other	<input type="checkbox"/> Unknown
<b>Channel Length:</b> ft.					
<b>Channel Width:</b> ft.					

**Notes:** Use the space provided to record important observations otherwise not captures on this sheet.

**CT – NRCS  
Stream Assessment Worksheet**

Storm Water Outfall

Survey Basin Code:	Date: <u>8/19/15</u>
Name of Stream: <u>West River</u>	Assessed By: <u>Gary Zolot</u>
Reach Code:	<u>Frank Deleo</u>
Designated Stream Type:	<u>Frank Cochran</u>
Site ID: <u># 4</u>	

Make All Observations Facing **Downstream**

**Location of Outfall:**  Right Bank  Left Bank Mark and label the location of the outfall on the **map** and provide a brief description of the location of the outfall relative to roads or other landmarks.  
Latitude - 41.29703° Longitude - 72.9506°  
#4 on Map Tide Gate on West side has loose gasket,

<b>Outfall Type:</b>	<input type="checkbox"/> Pipe	<input type="checkbox"/> Leak Off	<input type="checkbox"/> Channel	
<b>Flow:</b>	<input type="checkbox"/> None	<input type="checkbox"/> Trickle	<input type="checkbox"/> Moderate	<input type="checkbox"/> Substantial
<b>Odor:</b>	<input type="checkbox"/> None	<input type="checkbox"/> Sewage	<input type="checkbox"/> Rancid / Sour	<input type="checkbox"/> Sulfur (rotten eggs)
<b>Deposits / Stains</b>	<input type="checkbox"/> None	<input type="checkbox"/> Sediment Delta	<input type="checkbox"/> Oily Stain	<input type="checkbox"/> Black
<b>Benthic Growth</b>	<input type="checkbox"/> None	<input type="checkbox"/> Brown	<input type="checkbox"/> Green	<input type="checkbox"/> Orange

**Pipe Data:** Provide all relevant data.

<b>Pipe Material:</b>	<input type="checkbox"/> Concrete	<input type="checkbox"/> Corrugated Metal	<input type="checkbox"/> Plastic	<input type="checkbox"/> Other
<b>Contributing Source(s):</b>	<input type="checkbox"/> Road	<input type="checkbox"/> Parking Lot	<input type="checkbox"/> Other	<input type="checkbox"/> Unknown
<b>Pipe Outlet:</b>	<input type="checkbox"/> Perched..... ft.	<input type="checkbox"/> Ramped	<input type="checkbox"/> At Stream Level	
<b>Pipe Size:</b>	Diameter: ft.			
<b># of Pipes:</b>	<input type="checkbox"/> 1	<input type="checkbox"/> 2	<input type="checkbox"/> 3 +	

**Leak-Off Data:** Provide all relevant data.

<b>Leak-Off Swale:</b>	<input type="checkbox"/> Concrete	<input type="checkbox"/> Asphalt	<input type="checkbox"/> Stone	<input type="checkbox"/> Earthen
<b>Contributing Source (s):</b>	<input type="checkbox"/> Road	<input type="checkbox"/> Parking Lot	<input type="checkbox"/> Recreational Field	<input type="checkbox"/> Other
<b>Length of Swale:</b> ft.				
<b>Width of Swale:</b> ft.				

**Channel Data:** Provide all relevant data.

<b>Channel Material:</b>	<input type="checkbox"/> Concrete	<input type="checkbox"/> Asphalt	<input type="checkbox"/> Stone	<input type="checkbox"/> Earthen	
<b>Contributing Source (s):</b>	<input type="checkbox"/> Road	<input type="checkbox"/> Parking Lot	<input type="checkbox"/> Recreational Field	<input type="checkbox"/> Other	<input type="checkbox"/> Unknown
<b>Channel Length:</b> ft.					
<b>Channel Width:</b> ft.					

**Notes:** Use the space provided to record important observations otherwise not captures on this sheet.

**CT – NRCS  
Stream Assessment Worksheet**

Storm Water Outfall

Survey Basin Code:	Date: <u>8/19/15</u>
Name of Stream:	Assessed By: <u>Gary Zwickel</u>
Reach Code:	<u>Frank DeLeo</u>
Designated Stream Type:	<u>Frank Cochran</u>
Site ID:	

**Make All Observations Facing *Downstream***

**Location of Outfall:**  Right Bank  Left Bank Mark and label the location of the outfall on the map and provide a brief description of the location of the outfall relative to roads or other landmarks.  
Latitude 41.29262° Longitude -72.94602°  
# 5 on Map Parking Lot drainage from HL Academy

<b>Outfall Type:</b>	<input type="checkbox"/> Pipe	<input type="checkbox"/> Leak Off	<input checked="" type="checkbox"/> Channel	
<b>Flow:</b>	<input checked="" type="checkbox"/> None	<input type="checkbox"/> Trickle	<input type="checkbox"/> Moderate	<input type="checkbox"/> Substantial
<b>Odor:</b>	<input checked="" type="checkbox"/> None	<input type="checkbox"/> Sewage	<input type="checkbox"/> Rancid / Sour	<input type="checkbox"/> Sulfur (rotten eggs)
<b>Deposits / Stains</b>	<input checked="" type="checkbox"/> None	<input type="checkbox"/> Sediment Delta	<input type="checkbox"/> Oily Stain	<input type="checkbox"/> Black
<b>Benthic Growth</b>	<input checked="" type="checkbox"/> None	<input type="checkbox"/> Brown	<input type="checkbox"/> Green	<input type="checkbox"/> Orange

**Pipe Data:** Provide all relevant data.

<b>Pipe Material:</b>	<input type="checkbox"/> Concrete	<input type="checkbox"/> Corrugated Metal	<input type="checkbox"/> Plastic	<input type="checkbox"/> Other
<b>Contributing Source(s):</b>	<input type="checkbox"/> Road	<input type="checkbox"/> Parking Lot	<input type="checkbox"/> Other	<input type="checkbox"/> Unknown
<b>Pipe Outlet:</b>	<input type="checkbox"/> Perched..... ft.	<input type="checkbox"/> Ramped	<input type="checkbox"/> At Stream Level	
<b>Pipe Size:</b>	Diameter: ft.			
<b># of Pipes:</b>	<input type="checkbox"/> 1	<input type="checkbox"/> 2	<input type="checkbox"/> 3 +	

**Leak-Off Data:** Provide all relevant data.

<b>Leak-Off Swale:</b>	<input type="checkbox"/> Concrete	<input type="checkbox"/> Asphalt	<input type="checkbox"/> Stone	<input checked="" type="checkbox"/> Earthen
<b>Contributing Source (s):</b>	<input type="checkbox"/> Road	<input checked="" type="checkbox"/> Parking Lot	<input type="checkbox"/> Recreational Field	<input type="checkbox"/> Other
<b>Length of Swale:</b>	ft.			
<b>Width of Swale:</b>	ft.			

**Channel Data:** Provide all relevant data.

<b>Channel Material:</b>	<input type="checkbox"/> Concrete	<input type="checkbox"/> Asphalt	<input type="checkbox"/> Stone	<input checked="" type="checkbox"/> Earthen	
<b>Contributing Source (s):</b>	<input type="checkbox"/> Road	<input checked="" type="checkbox"/> Parking Lot	<input type="checkbox"/> Recreational Field	<input type="checkbox"/> Other	<input type="checkbox"/> Unknown
<b>Channel Length:</b>	ft.				
<b>Channel Width:</b>	ft.				

**Notes:** Use the space provided to record important observations otherwise not captures on this sheet.



## CT-NRCS Stream Assessment Sheet

Reach Level Assessment

Survey Basin Code:	Date(s): 8/13/15
Name of Stream: WEST TOWER	Assessed By: GP TEAM - JC GM BH
Reach Code: LW-1	AP KB
Designated Stream Type:	

Make All Observations Facing *Downstream*

Was the entire reach of stream surveyed?  Yes  No, Which section(s) were not surveyed? Why?

**Channel Morphology:** Mark the predominate condition(s), and indicate the average measurements.

<input type="checkbox"/> Step-Pool	<input type="checkbox"/> Pool-Riffle	<input checked="" type="checkbox"/> Run	<input type="checkbox"/> Glide	* <input type="checkbox"/> Manipulated Channel (piped, lined, etc.)
Active Channel Width: 200'		Glide Depth:		
Riffle Depth:		Step Height:		
Pool Depth:		Bank Height (Right Bank): 6"		
Run Depth: > 5'		Bank Height (Left Bank): 6"		

**Substrate Composition:** Mark approximate percentages for each substrate type observed.

Silt or Clay	<input type="checkbox"/> <5%	<input type="checkbox"/> 5-25%	<input type="checkbox"/> 25-50%	<input checked="" type="checkbox"/> 50-75%	<input type="checkbox"/> >75%
Sand	<input type="checkbox"/> <5%	<input type="checkbox"/> 5-25%	<input checked="" type="checkbox"/> 25-50%	<input type="checkbox"/> 50-75%	<input type="checkbox"/> >75%
Gravel (0.1-2 inches)	<input type="checkbox"/> <5%	<input checked="" type="checkbox"/> 5-25%	<input type="checkbox"/> 25-50%	<input type="checkbox"/> 50-75%	<input type="checkbox"/> >75%
Cobble (2-10 inches)	<input checked="" type="checkbox"/> <5%	<input type="checkbox"/> 5-25%	<input type="checkbox"/> 25-50%	<input type="checkbox"/> 50-75%	<input type="checkbox"/> >75%
Boulder (>10 inches)	<input checked="" type="checkbox"/> <5%	<input type="checkbox"/> 5-25%	<input type="checkbox"/> 25-50%	<input type="checkbox"/> 50-75%	<input type="checkbox"/> >75%
Bedrock	<input checked="" type="checkbox"/> <5%	<input type="checkbox"/> 5-25%	<input type="checkbox"/> 25-50%	<input type="checkbox"/> 50-75%	<input type="checkbox"/> >75%

**Describe Water Conditions:** Mark all that apply.

<input checked="" type="checkbox"/> Clear	<input type="checkbox"/> Stained ("iced tea")	* <input type="checkbox"/> Turbid (muddy / silty)
* <input type="checkbox"/> Green	* <input type="checkbox"/> Rusty-Red	* <input type="checkbox"/> Milky
* <input type="checkbox"/> Odors	* <input type="checkbox"/> Other (foam, dyes, chemicals)	

**Aquatic Plants in Stream:**

Floating: (e.g. duck weed)	<input checked="" type="checkbox"/> Absent	<input type="checkbox"/> In Spots	* <input type="checkbox"/> Everywhere
Attached: (e.g. water lily)	<input checked="" type="checkbox"/> Absent	<input type="checkbox"/> In Spots	* <input type="checkbox"/> Everywhere

**Algae in Stream:**

Floating: (e.g. planktonic)	<input checked="" type="checkbox"/> Absent	<input type="checkbox"/> In Spots	* <input type="checkbox"/> Everywhere
Attached: (e.g. filamentous)	<input checked="" type="checkbox"/> Absent	<input type="checkbox"/> In Spots	* <input type="checkbox"/> Everywhere

**Canopy Cover:** Mark approximate percentage of stream covered by tree canopy.

<input type="checkbox"/> >75% covered	<input type="checkbox"/> 75-50% covered	<input type="checkbox"/> 50%-25% covered	<input checked="" type="checkbox"/> < 25% covered
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Note: Items marked with an asterisk (\*) indicate a potential area of concern. Please record all relevant information on the appropriate Area of Concern Worksheet(s).

### Area of Concern Worksheets

Indicate # and type of sheets completed for this reach assessment

Erosion	<input checked="" type="checkbox"/>
Fish Barrier	<input checked="" type="checkbox"/>
Storm Water Outfall	<input type="checkbox"/>
Modified Channel	<input checked="" type="checkbox"/>
Impacted Buffer	<input type="checkbox"/>
Trash / Debris	<input checked="" type="checkbox"/>
Water Conditions	<input checked="" type="checkbox"/>

**CT-NRCS  
Stream Assessment Sheet**

Reach Level Assessment

<b>Riparian Vegetation:</b> Characterize the average density of vegetation in the first 35 feet adjacent to the stream for both banks.						
	Left Bank	Right Bank	Left Bank	Right Bank	Left Bank	Right Bank
Turf Grass	<input type="checkbox"/> Low	<input checked="" type="checkbox"/> Low	<input type="checkbox"/> Moderate	<input type="checkbox"/> Moderate	<input type="checkbox"/> High	<input type="checkbox"/> High
Grass	<input type="checkbox"/> Low	<input type="checkbox"/> Low	<input type="checkbox"/> Moderate	<input checked="" type="checkbox"/> Moderate	<input checked="" type="checkbox"/> High	<input checked="" type="checkbox"/> High
Shrubs	<input type="checkbox"/> Low	<input type="checkbox"/> Low	<input type="checkbox"/> Moderate	<input checked="" type="checkbox"/> Moderate	<input type="checkbox"/> High	<input checked="" type="checkbox"/> High
Deciduous Trees	<input type="checkbox"/> Low	<input type="checkbox"/> Low	<input type="checkbox"/> Moderate	<input type="checkbox"/> Moderate	<input type="checkbox"/> High	<input type="checkbox"/> High
Coniferous Trees	<input type="checkbox"/> Low	<input type="checkbox"/> Low	<input type="checkbox"/> Moderate	<input type="checkbox"/> Moderate	<input type="checkbox"/> High	<input type="checkbox"/> High

<b>Surrounding Land Use:</b> Mark the dominate land use(s) for each "zone", if known or observed.					
Immediately adjacent to stream		< 1/4 Mile from stream		> 1/4 Mile from stream	
<input type="checkbox"/> Rural Residential	<input type="checkbox"/> Agricultural	<input type="checkbox"/> Rural Residential	<input type="checkbox"/> Agricultural	<input type="checkbox"/> Rural Residential	<input type="checkbox"/> Agricultural
<input type="checkbox"/> Suburban Residential	<input checked="" type="checkbox"/> Forested	<input type="checkbox"/> Suburban Residential	<input checked="" type="checkbox"/> Forested	<input type="checkbox"/> Suburban Residential	<input checked="" type="checkbox"/> Forested
<input type="checkbox"/> Urban Residential	<input type="checkbox"/> Recreational	<input type="checkbox"/> Urban Residential	<input type="checkbox"/> Recreational	<input type="checkbox"/> Urban Residential	<input type="checkbox"/> Recreational
<input type="checkbox"/> Industrial	<input checked="" type="checkbox"/> Other	<input type="checkbox"/> Industrial	<input checked="" type="checkbox"/> Other	<input type="checkbox"/> Industrial	<input checked="" type="checkbox"/> Other
<input checked="" type="checkbox"/> Commercial		<input checked="" type="checkbox"/> Commercial		<input checked="" type="checkbox"/> Commercial	

<b>Areas of Concern Checklist:</b> Marking "Yes" to any of the following questions indicates that an Area of Concern Worksheet should be filled out for the appropriate concern. For each occurrence observed, complete an area of concern sheet.		
Is there evidence of either stream bank erosion or streambed instability within the reach?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Are there any dams or any other possible natural or artificial barriers to fish migration?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Are there any storm water outfalls, discharge pipes or discharges within the reach? Indicate the number observed: <i>DOZENS - 2 NOT AT BRIDGES</i>	<input type="checkbox"/> Yes	<input type="checkbox"/> No
Is there any portion of the channel that has been modified (not culvert) (channeled, piped, rip rap)?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
Is there any portion of the reach where the riparian buffer has been compromised or is nonexistent?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
Is there any portion of the reach that contains trash or other debris (cars, appliances, construction waste)?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Is there any portion of the reach that has a change in water conditions?	<input checked="" type="checkbox"/> Yes	<input checked="" type="checkbox"/> No

**Notes:** Use the space provided to record important observations otherwise not captured on the Reach Assessment Sheet or the Areas of Concern Worksheets.

**CT - NRCS  
Stream Assessment Worksheet**

Degraded Buffer

Survey Basin Code:	Date: 8/13/15
Name of Stream: WEST RIVER	Assessed By: GP TEAM
Reach Code: LW-1	
Designated Stream Type:	
Site ID:	

**Make All Observations Facing *Downstream***

**Location / Extent of Degraded Buffer:** 1) Mark and label the location of the degraded buffer on the map. 2) Briefly describe the location of the site relative to roads or other landmarks.

BANKS HAVE SPARTINA IMMEDIATELY AT BANK, WITH PHRAGMITES FURTHER INLAND. SOME RIPRAP + ANIMAL WIDTH

**Mark where the degraded buffer occurs.**

<input checked="" type="checkbox"/> Meander Bend	<input type="checkbox"/> Straight Section	<input type="checkbox"/> Steep Slope/Valley Wall	<input type="checkbox"/> Other
<input checked="" type="checkbox"/> Left Bank	Estimate length of degraded buffer: _____ ft.		
<input checked="" type="checkbox"/> Right Bank	Estimate length of degraded buffer: _____ ft.		

**Type of Degradation:**

<b>Left Bank:</b>	<input type="checkbox"/> Minimal Vegetation	<input checked="" type="checkbox"/> Minimal Width	<input checked="" type="checkbox"/> Invasive Plants	<input type="checkbox"/> Other
<b>Right Bank:</b>	<input type="checkbox"/> Minimal Vegetation	<input checked="" type="checkbox"/> Minimal Width	<input checked="" type="checkbox"/> Invasive Plants	<input type="checkbox"/> Other

Dominate Land Cover	Paved	Bare Ground	Turf / Lawn	Tall Grass	Scrub / Shrub	Trees	Other
<b>Left Bank</b>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Right Bank</b>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

**Immediately Adjacent Land Use:** Mark the land use(s) immediately adjacent to the modified section.

<b>Left Bank:</b>	<input type="checkbox"/> Rural Residential	<input type="checkbox"/> Urban Residential	<input type="checkbox"/> Commercial	<input checked="" type="checkbox"/> Forested
	<input type="checkbox"/> Suburban Residential	<input type="checkbox"/> Industrial	<input type="checkbox"/> Agricultural	<input type="checkbox"/> Recreational
<b>Right Bank:</b>	<input type="checkbox"/> Rural Residential	<input type="checkbox"/> Urban Residential	<input checked="" type="checkbox"/> Commercial	<input checked="" type="checkbox"/> Forested
	<input type="checkbox"/> Suburban Residential	<input checked="" type="checkbox"/> Industrial	<input type="checkbox"/> Agricultural	<input type="checkbox"/> Recreational

**Existing Width of Riparian Vegetation:** Mark the average width of riparian vegetation to the modified section.

<b>Left Bank:</b>	<input type="checkbox"/> < 15 ft.	<input checked="" type="checkbox"/> 15 - 35 ft.	<input type="checkbox"/> 35 - 50 ft.	<input type="checkbox"/> 50 - 100 ft	<input type="checkbox"/> > 100 ft
<b>Right Bank:</b>	<input type="checkbox"/> < 15 ft.	<input type="checkbox"/> 15 - 35 ft.	<input type="checkbox"/> 35 - 50 ft.	<input type="checkbox"/> 50 - 100 ft	<input checked="" type="checkbox"/> > 100 ft

**Notes:** Use the space provided to record important observations otherwise not captures on this sheet.

**CT - NRCS  
Stream Assessment Worksheet**

Storm Water Outfall

Survey Basin Code:	Date: 8/13/15
Name of Stream: WEST RIVER	Assessed By: GP TEAM
Reach Code: LW-1	
Designated Stream Type:	
Site ID:	

Make All Observations Facing *Downstream*

**Location of Outfall:**  Right Bank  Left Bank Mark and label the location of the outfall on the map and provide a brief description of the location of the outfall relative to roads or other landmarks.

Multiple PVC outfalls at Spring St + 1-95 - ALL DRY  
 2 15' CONC outfalls at Spring St. - 1 TRICKLE, 1 DRY  
 ONE LEAK OFF- RIV L. NEAR RR BRIDGE

<b>Outfall Type:</b>	<input checked="" type="checkbox"/> Pipe	<input checked="" type="checkbox"/> Leak Off	<input type="checkbox"/> Channel	
<b>Flow:</b>	<input checked="" type="checkbox"/> None	<input checked="" type="checkbox"/> Trickle	<input type="checkbox"/> Moderate	<input type="checkbox"/> Substantial
<b>Odor:</b>	<input checked="" type="checkbox"/> None	<input type="checkbox"/> Sewage	<input type="checkbox"/> Rancid / Sour	<input type="checkbox"/> Sulfur (rotten eggs)
<b>Deposits / Stains</b>	<input checked="" type="checkbox"/> None	<input type="checkbox"/> Sediment Delta	<input type="checkbox"/> Oily Stain	<input type="checkbox"/> Black
<b>Benthic Growth</b>	<input checked="" type="checkbox"/> None	<input type="checkbox"/> Brown	<input type="checkbox"/> Green	<input type="checkbox"/> Orange

**Pipe Data:** Provide all relevant data.

<b>Pipe Material:</b>	<input type="checkbox"/> Concrete	<input type="checkbox"/> Corrugated Metal	<input checked="" type="checkbox"/> Plastic	<input type="checkbox"/> Other
<b>Contributing Source(s):</b>	<input checked="" type="checkbox"/> Road	<input type="checkbox"/> Parking Lot	<input type="checkbox"/> Other	<input type="checkbox"/> Unknown
<b>Pipe Outlet:</b>	<input checked="" type="checkbox"/> Perched 48.70' to 40' ft.	<input type="checkbox"/> Ramped	<input checked="" type="checkbox"/> At Stream Level	
<b>Pipe Size:</b>	Diameter: 0.5 to 1.25' ft.			
<b># of Pipes:</b>	<input type="checkbox"/> 1	<input type="checkbox"/> 2	<input checked="" type="checkbox"/> 3+ MANY	

**Leak-Off Data:** Provide all relevant data.

<b>Leak-Off Swale:</b>	<input type="checkbox"/> Concrete	<input checked="" type="checkbox"/> Asphalt	<input type="checkbox"/> Stone	<input type="checkbox"/> Earthen
<b>Contributing Source (s):</b>	<input type="checkbox"/> Road	<input checked="" type="checkbox"/> Parking Lot	<input type="checkbox"/> Recreational Field	<input type="checkbox"/> Other
<b>Length of Swale:</b> 15 ft.				
<b>Width of Swale:</b> 6 ft.				

**Channel Data:** Provide all relevant data.

<b>Channel Material:</b>	<input type="checkbox"/> Concrete	<input type="checkbox"/> Asphalt	<input type="checkbox"/> Stone	<input type="checkbox"/> Earthen	
<b>Contributing Source (s):</b>	<input type="checkbox"/> Road	<input type="checkbox"/> Parking Lot	<input type="checkbox"/> Recreational Field	<input type="checkbox"/> Other	<input type="checkbox"/> Unknown
<b>Channel Length:</b> ft.					
<b>Channel Width:</b> ft.					

**Notes:** Use the space provided to record important observations otherwise not captures on this sheet.

**CT - NRCS  
Stream Assessment Worksheet**

Modified Channel

Survey Basin Code:	Date: 8/13/15
Name of Stream: WEST RIVER	Assessed By: GP TEAM
Reach Code: LW-1	
Designated Stream Type:	
Site ID:	

Make All Observations Facing Downstream

**Location / Extent of Modified Channel:** Mark and label the location of the modified channel on the map and provide a brief description of the location of the channel section relative to roads or other landmarks.

RIP RAP ARMORING ALONG RIVER L BANK -  
RAILROAD TO SPRING ST.

**Mark where channel modification occurs:**

<input type="checkbox"/> Meander Bend	<input checked="" type="checkbox"/> Straight Section	<input type="checkbox"/> Steep Slope/Valley Wall	<input type="checkbox"/> Other
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Estimate length of channel modification: 2000 ft.

Estimate height of bank modification: 3 ft.

<b>Type of Manipulation:</b>	<input type="checkbox"/> Channelization	<input checked="" type="checkbox"/> Bank Armoring	<input type="checkbox"/> Concrete Channel	<input type="checkbox"/> Other	
<b>Extent of Manipulation:</b>	<input type="checkbox"/> Right Bank	<input checked="" type="checkbox"/> Left Bank	<input type="checkbox"/> Channel Bottom		
<b>Channel / Bank Materials:</b>	<input type="checkbox"/> Natural	<input checked="" type="checkbox"/> Rip Rap	<input type="checkbox"/> Concrete	<input type="checkbox"/> Gabions	<input type="checkbox"/> Metal

**Immediately Adjacent Land Use:** Mark the land use(s) immediately adjacent to the modified section.

<input type="checkbox"/> Rural Residential	<input type="checkbox"/> Urban Residential	<input checked="" type="checkbox"/> Commercial	<input type="checkbox"/> Forested
<input type="checkbox"/> Suburban Residential	<input type="checkbox"/> Industrial	<input type="checkbox"/> Agricultural	<input type="checkbox"/> Recreational

**Existing Width of Riparian Vegetation:** Mark the average width of riparian vegetation to the modified section.

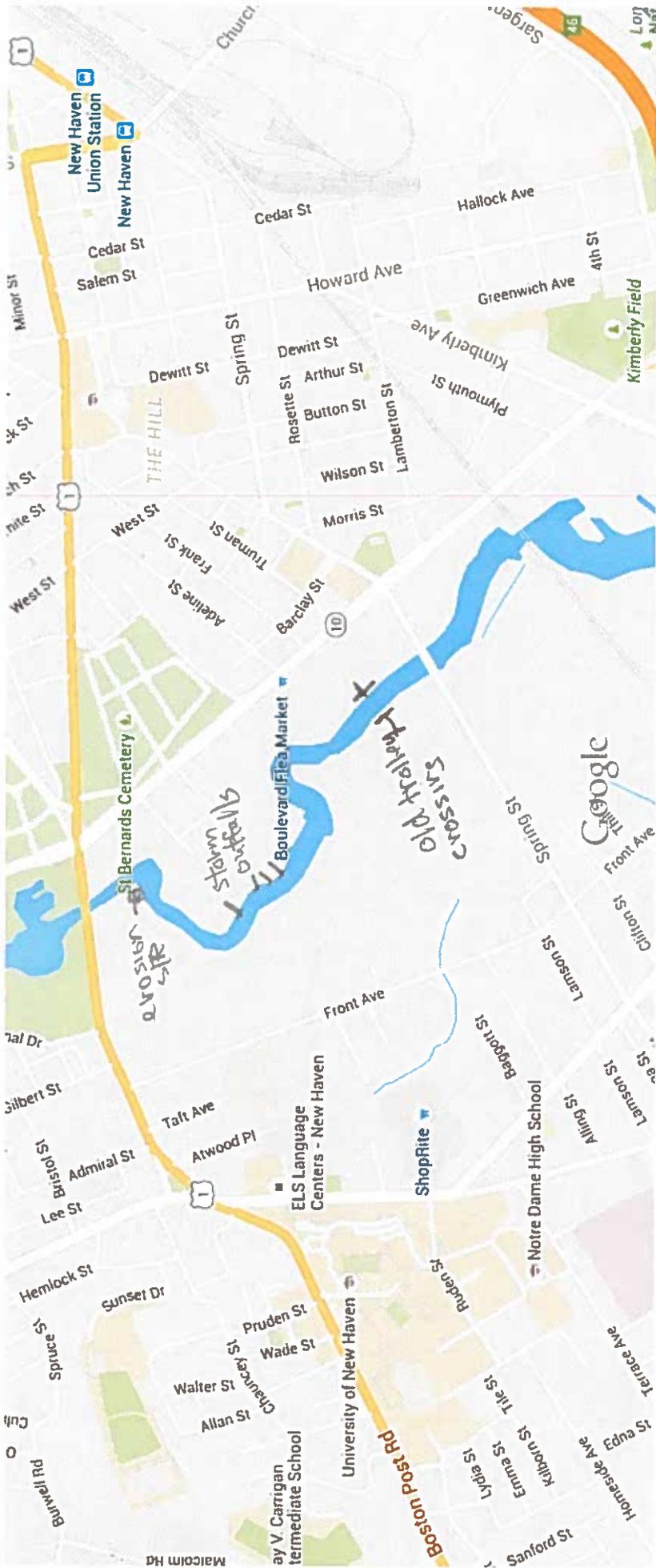
<input type="checkbox"/> < 15 ft.	<input checked="" type="checkbox"/> 15 - 35 ft.	<input type="checkbox"/> 35 - 50 ft.	<input type="checkbox"/> 50 - 100 ft.	<input type="checkbox"/> > 100 ft.
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Is there a change in the average width of the active channel?	<input type="checkbox"/> Yes / Estimate Width:    ft	<input checked="" type="checkbox"/> No
Is there evidence of sediment deposition in the channel?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Is the channel connected to a floodplain?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No

**Notes:** Use the space provided to record important observations otherwise not captures on this sheet.



Google Maps



Map data ©2015 Google 1000 ft

**CT-NRCS  
Stream Assessment Sheet**

Reach Level Assessment

Survey Basin Code: <u>LW2</u>	Date(s): <u>8/19/2015</u>
Name of Stream: <u>West River</u>	Assessed By: <u>Frank Cochran, Frank Dilro</u>
Reach Code: <u>LW2</u>	<u>Gary Zrelak</u>
Designated Stream Type:	

Make All Observations Facing *Downstream*

Was the entire reach of stream surveyed?  Yes  No, Which section(s) were not surveyed? Why?

**Channel Morphology:** Mark the predominate condition(s), and indicate the average measurements.

<input type="checkbox"/> Step-Pool	<input type="checkbox"/> Pool-Riffle	<input type="checkbox"/> Run	<input checked="" type="checkbox"/> Glide	* <input type="checkbox"/> Manipulated Channel (piped, lined, etc.)
Active Channel Width: <u>80' - 120'</u>		Glide Depth: <u>3'</u>		
Riffle Depth:		Step Height:		
Pool Depth:		Bank Height (Right Bank): <u>3' - 5'</u>		
Run Depth:		Bank Height (Left Bank): <u>6' +</u>		

**Substrate Composition:** Mark approximate percentages for each substrate type observed.

Silt or Clay	<input type="checkbox"/> <5%	<input type="checkbox"/> 5-25%	<input type="checkbox"/> 25-50%	<input checked="" type="checkbox"/> 50-75%	<input type="checkbox"/> >75%
Sand	<input type="checkbox"/> <5%	<input type="checkbox"/> 5-25%	<input type="checkbox"/> 25-50%	<input type="checkbox"/> 50-75%	<input type="checkbox"/> >75%
Gravel (0.1-2 inches)	<input type="checkbox"/> <5%	<input checked="" type="checkbox"/> 5-25%	<input type="checkbox"/> 25-50%	<input type="checkbox"/> 50-75%	<input type="checkbox"/> >75%
Cobble (2-10 inches)	<input type="checkbox"/> <5%	<input type="checkbox"/> 5-25%	<input type="checkbox"/> 25-50%	<input type="checkbox"/> 50-75%	<input type="checkbox"/> >75%
Boulder (>10 inches)	<input type="checkbox"/> <5%	<input type="checkbox"/> 5-25%	<input type="checkbox"/> 25-50%	<input type="checkbox"/> 50-75%	<input type="checkbox"/> >75%
Bedrock	<input type="checkbox"/> <5%	<input type="checkbox"/> 5-25%	<input type="checkbox"/> 25-50%	<input type="checkbox"/> 50-75%	<input type="checkbox"/> >75%

**Describe Water Conditions:** Mark all that apply.

<input type="checkbox"/> Clear	<input type="checkbox"/> Stained ("iced tea")	* <input checked="" type="checkbox"/> Turbid (muddy / silty)
* <input type="checkbox"/> Green	* <input type="checkbox"/> Rusty-Red	* <input type="checkbox"/> Milky
* <input type="checkbox"/> Odors	* <input type="checkbox"/> Other (foam, dyes, chemicals)	

**Aquatic Plants in Stream:**

Floating: (e.g. duck weed)	<input checked="" type="checkbox"/> Absent	<input type="checkbox"/> In Spots	* <input type="checkbox"/> Everywhere
Attached: (e.g. water lily)	<input checked="" type="checkbox"/> Absent	<input type="checkbox"/> In Spots	* <input type="checkbox"/> Everywhere

**Algae in Stream:**

Floating: (e.g. planktonic)	<input checked="" type="checkbox"/> Absent	<input type="checkbox"/> In Spots	* <input type="checkbox"/> Everywhere
Attached: (e.g. filamentous)	<input checked="" type="checkbox"/> Absent	<input type="checkbox"/> In Spots	* <input type="checkbox"/> Everywhere

**Canopy Cover:** Mark approximate percentage of stream covered by tree canopy.

<input type="checkbox"/> >75% covered	<input type="checkbox"/> 75-50% covered	<input type="checkbox"/> 50%-25% covered	<input checked="" type="checkbox"/> < 25% covered
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**Area of Concern Worksheets**  
Indicate # and type of sheets completed for this reach assessment

Erosion	✓
Fish Barrier	✓
Storm Water Outfall	✓
Modified Channel	
Impacted Buffer	
Trash / Debris	✓
Water Conditions	

**Note: Items marked with an asterisk (\*) indicate a potential area of concern. Please record all relevant information on the appropriate Area of Concern Worksheet(s).**

**CT-NRCS  
Stream Assessment Sheet**

Reach Level Assessment

<b>Riparian Vegetation:</b> Characterize the average density of vegetation in the first 35 feet adjacent to the stream for both banks.						
	Left Bank	Right Bank	Left Bank	Right Bank	Left Bank	Right Bank
Turf Grass	<input type="checkbox"/> Low	<input type="checkbox"/> Low	<input type="checkbox"/> Moderate	<input type="checkbox"/> Moderate	<input type="checkbox"/> High	<input type="checkbox"/> High
Grass	<input type="checkbox"/> Low	<input type="checkbox"/> Low	<input type="checkbox"/> Moderate	<input type="checkbox"/> Moderate	<input type="checkbox"/> High	<input type="checkbox"/> High
Shrubs	<input type="checkbox"/> Low	<input type="checkbox"/> Low	<input type="checkbox"/> Moderate	<input type="checkbox"/> Moderate	<input type="checkbox"/> High	<input type="checkbox"/> High
Deciduous Trees	<input type="checkbox"/> Low	<input type="checkbox"/> Low	<input type="checkbox"/> Moderate	<input type="checkbox"/> Moderate	<input type="checkbox"/> High	<input type="checkbox"/> High
Coniferous Trees	<input type="checkbox"/> Low	<input type="checkbox"/> Low	<input type="checkbox"/> Moderate	<input type="checkbox"/> Moderate	<input type="checkbox"/> High	<input type="checkbox"/> High

<b>Surrounding Land Use:</b> Mark the dominate land use(s) for each "zone", if known or observed.					
Immediately adjacent to stream		< ¼ Mile from stream		> ¼ Mile from stream	
<input type="checkbox"/> Rural Residential	<input type="checkbox"/> Agricultural	<input type="checkbox"/> Rural Residential	<input type="checkbox"/> Agricultural	<input type="checkbox"/> Rural Residential	<input type="checkbox"/> Agricultural
<input type="checkbox"/> Suburban Residential	<input type="checkbox"/> Forested	<input type="checkbox"/> Suburban Residential	<input type="checkbox"/> Forested	<input type="checkbox"/> Suburban Residential	<input type="checkbox"/> Forested
<input type="checkbox"/> Urban Residential	<input type="checkbox"/> Recreational	<input checked="" type="checkbox"/> Urban Residential	<input type="checkbox"/> Recreational	<input type="checkbox"/> Urban Residential	<input type="checkbox"/> Recreational
<input type="checkbox"/> Industrial	<input type="checkbox"/> Other	<input checked="" type="checkbox"/> Industrial	<input type="checkbox"/> Other	<input checked="" type="checkbox"/> Industrial	<input checked="" type="checkbox"/> Other
<input type="checkbox"/> Commercial		<input checked="" type="checkbox"/> Commercial		<input checked="" type="checkbox"/> Commercial	

<b>Areas of Concern Checklist:</b> Marking "Yes" to any of the following questions indicates that an Area of Concern Worksheet should be filled out for the appropriate concern. For each occurrence observed, complete an area of concern sheet.		
Is there evidence of either stream bank erosion or streambed instability within the reach?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Are there any dams or any other possible natural or artificial barriers to fish migration?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
Are there any storm water outfalls, discharge pipes or discharges within the reach? Indicate the number observed: _____	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
Is there any portion of the channel that has been modified (not culvert) (channeled, piped, rip rap)?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
Is there any portion of the reach where the riparian buffer has been compromised or is nonexistent?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
Is there any portion of the reach that contains trash or other debris (cars, appliances, construction waste)?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
Is there any portion of the reach that has a change in water conditions?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No

**Notes:** Use the space provided to record important observations otherwise not captured on the Reach Assessment Sheet or the Areas of Concern Worksheets.

1. Much of the buffer and ~~surrounding~~ abutting land on the right hand (westerly side) is tidal wetland

2. As to stream bank erosion, there was evidence in many places of previous efforts to address and a few where more may be needed

3. Fish barrier = tide gates

4. Much of the "riparian buffer" consists of old rip rap with vegetated infill

## CT-NRCS Stream Assessment Sheet

### Reach Level Assessment

<b>Riparian Vegetation:</b> Characterize the average density of vegetation in the first 35 feet adjacent to the stream for both banks.						
	Left Bank	Right Bank	Left Bank	Right Bank	Left Bank	Right Bank
Turf Grass	<input type="checkbox"/> Low	<input type="checkbox"/> Low	<input type="checkbox"/> Moderate	<input type="checkbox"/> Moderate	<input type="checkbox"/> High	<input type="checkbox"/> High
Grass	<input type="checkbox"/> Low	<input type="checkbox"/> Low	<input type="checkbox"/> Moderate	<input type="checkbox"/> Moderate	<input type="checkbox"/> High	<input type="checkbox"/> High
Shrubs	<input type="checkbox"/> Low	<input type="checkbox"/> Low	<input type="checkbox"/> Moderate	<input type="checkbox"/> Moderate	<input type="checkbox"/> High	<input type="checkbox"/> High
Deciduous Trees	<input type="checkbox"/> Low	<input type="checkbox"/> Low	<input type="checkbox"/> Moderate	<input type="checkbox"/> Moderate	<input type="checkbox"/> High	<input type="checkbox"/> High
Coniferous Trees	<input type="checkbox"/> Low	<input type="checkbox"/> Low	<input type="checkbox"/> Moderate	<input type="checkbox"/> Moderate	<input type="checkbox"/> High	<input type="checkbox"/> High

<b>Surrounding Land Use:</b> Mark the dominate land use(s) for each "zone", if known or observed.					
Immediately adjacent to stream		< ¼ Mile from stream		> ¼ Mile from stream	
<input type="checkbox"/> Rural Residential	<input type="checkbox"/> Agricultural	<input type="checkbox"/> Rural Residential	<input type="checkbox"/> Agricultural	<input type="checkbox"/> Rural Residential	<input type="checkbox"/> Agricultural
<input type="checkbox"/> Suburban Residential	<input type="checkbox"/> Forested	<input type="checkbox"/> Suburban Residential	<input type="checkbox"/> Forested	<input type="checkbox"/> Suburban Residential	<input type="checkbox"/> Forested
<input type="checkbox"/> Urban Residential	<input type="checkbox"/> Recreational	<input type="checkbox"/> Urban Residential	<input type="checkbox"/> Recreational	<input type="checkbox"/> Urban Residential	<input type="checkbox"/> Recreational
<input type="checkbox"/> Industrial	<input type="checkbox"/> Other	<input type="checkbox"/> Industrial	<input type="checkbox"/> Other	<input type="checkbox"/> Industrial	<input type="checkbox"/> Other
<input type="checkbox"/> Commercial		<input type="checkbox"/> Commercial		<input type="checkbox"/> Commercial	

<b>Areas of Concern Checklist:</b> Marking "Yes" to any of the following questions indicates that an Area of Concern Worksheet should be filled out for the appropriate concern. For each occurrence observed, complete an area of concern sheet.		
Is there evidence of either stream bank erosion or streambed instability within the reach?	<input type="checkbox"/> Yes	<input type="checkbox"/> No
Are there any dams or any other possible natural or artificial barriers to fish migration?	<input type="checkbox"/> Yes	<input type="checkbox"/> No
Are there any storm water outfalls, discharge pipes or discharges within the reach? Indicate the number observed: _____	<input type="checkbox"/> Yes	<input type="checkbox"/> No
Is there any portion of the channel that has been modified (not culvert) (channeled, piped, rip rap)?	<input type="checkbox"/> Yes	<input type="checkbox"/> No
Is there any portion of the reach where the riparian buffer has been compromised or is nonexistent?	<input type="checkbox"/> Yes	<input type="checkbox"/> No
Is there any portion of the reach that contains trash or other debris (cars, appliances, construction waste)?	<input type="checkbox"/> Yes	<input type="checkbox"/> No
Is there any portion of the reach that has a change in water conditions?	<input type="checkbox"/> Yes	<input type="checkbox"/> No

**Notes:** Use the space provided to record important observations otherwise not captured on the Reach Assessment Sheet or the Areas of Concern Worksheets.

## General Notes

1. Behind Riverside Academy, our launch site, there is a vegetative buffer, believed to be spartina, and half of it mowed, but seemingly healthy. We launched over the mud flat adjoining it, at low tide, disturbing some of the vast quantity of fiddler crabs seen throughout our survey. A formal boat launch should be constructed at that site for kayaks + canoes.
2. The water turbidity was general: one could not see the substrate more than a foot. While most of this was probably silt, some may have been fecal material which "bounces" on tide changes.
3. Whatever the water quality issues, the birds are doing well. We saw waders of all sizes, jumping fish and literally thousands of crabs as well as mussels, oysters (some growing on chunks of asphalt.)
4. Probably most noticeable is the salt marsh to the west (right) of this reach. It is extensive and appears to serve as buffer for the several uses beyond. Also notable is a deteriorated trolley bridge; pilings remain there and for two docking or viewing facilities in this reach.

**CT – NRCS  
Stream Assessment Worksheet**

Storm Water Outfall

Survey Basin Code:	Date:
Name of Stream:	Assessed By:
Reach Code:	
Designated Stream Type:	
Site ID:	

**Make All Observations Facing *Downstream***

**Location of Outfall:**  Right Bank  Left Bank Mark and label the location of the outfall on the map and provide a brief description of the location of the outfall relative to roads or other landmarks.

<b>Outfall Type:</b>	<input type="checkbox"/> Pipe	<input type="checkbox"/> Leak Off	<input type="checkbox"/> Channel	
<b>Flow:</b>	<input type="checkbox"/> None	<input type="checkbox"/> Trickle	<input type="checkbox"/> Moderate	<input type="checkbox"/> Substantial
<b>Odor:</b>	<input type="checkbox"/> None	<input type="checkbox"/> Sewage	<input type="checkbox"/> Rancid / Sour	<input type="checkbox"/> Sulfur (rotten eggs)
<b>Deposits / Stains</b>	<input type="checkbox"/> None	<input type="checkbox"/> Sediment Delta	<input type="checkbox"/> Oily Stain	<input type="checkbox"/> Black
<b>Benthic Growth</b>	<input type="checkbox"/> None	<input type="checkbox"/> Brown	<input type="checkbox"/> Green	<input type="checkbox"/> Orange

**Pipe Data:** Provide all relevant data.

<b>Pipe Material:</b>	<input type="checkbox"/> Concrete	<input type="checkbox"/> Corrugated Metal	<input type="checkbox"/> Plastic	<input type="checkbox"/> Other
<b>Contributing Source(s):</b>	<input type="checkbox"/> Road	<input type="checkbox"/> Parking Lot	<input type="checkbox"/> Other	<input type="checkbox"/> Unknown
<b>Pipe Outlet:</b>	<input type="checkbox"/> Perched..... ft.	<input type="checkbox"/> Ramped	<input type="checkbox"/> At Stream Level	
<b>Pipe Size:</b>	Diameter: ft.			
<b># of Pipes:</b>	<input type="checkbox"/> 1	<input type="checkbox"/> 2	<input type="checkbox"/> 3 +	

**Leak-Off Data:** Provide all relevant data.

<b>Leak-Off Swale:</b>	<input type="checkbox"/> Concrete	<input type="checkbox"/> Asphalt	<input type="checkbox"/> Stone	<input type="checkbox"/> Earthen
<b>Contributing Source (s):</b>	<input type="checkbox"/> Road	<input type="checkbox"/> Parking Lot	<input type="checkbox"/> Recreational Field	<input type="checkbox"/> Other
<b>Length of Swale:</b>	ft.			
<b>Width of Swale:</b>	ft.			

**Channel Data:** Provide all relevant data.

<b>Channel Material:</b>	<input type="checkbox"/> Concrete	<input type="checkbox"/> Asphalt	<input type="checkbox"/> Stone	<input type="checkbox"/> Earthen
<b>Contributing Source (s):</b>	<input type="checkbox"/> Road	<input type="checkbox"/> Parking Lot	<input type="checkbox"/> Recreational Field	<input type="checkbox"/> Other <input type="checkbox"/> Unknown
<b>Channel Length:</b>	ft.			
<b>Channel Width:</b>	ft.			

**Notes:** Use the space provided to record important observations otherwise not captures on this sheet.

**CT - NRCS  
Stream Assessment Worksheet**

Erosion Assessment

Survey Basin Code:	Date: 8/19/2015
Name of Stream: West River	Assessed By: Frank Cochran, Frank Dillon
Reach Code: LW 2	Gary Zrelak
Designated Stream Type:	
Site ID:	

**Make All Observations Facing *Downstream***

**Location of Bank Erosion:** 1) Mark and label the location of the erosion on the map. 2) Briefly describe the location of the site relative to roads or other landmarks.

Right hand side perhaps 150 yds below tide gates

**Mark where erosion is occurring:**

<input checked="" type="checkbox"/> Meander Bend	<input type="checkbox"/> Straight Section	<input type="checkbox"/> Steep Slope/Valley Wall	<input type="checkbox"/> Other
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**Site Dimensions:** Indicate all applicable measurements associated with the erosion site

<b>Length:</b>	Left Bank:	ft.	Right Bank:	20'	ft.
<b>Bank Height:</b>	Left Bank:	ft.	Right Bank:	6'	ft.
<b>Bank Angle:</b>	Left Bank:	deg.	Right Bank:		deg.

**What is the proximity of the erosion site to infrastructure (e.g. road, bridge, building, etc.)?**

<input type="checkbox"/> < 15 ft.	<input type="checkbox"/> 15 - 30 ft	<input type="checkbox"/> 30 - 45 ft	<input type="checkbox"/> 45 - 60 ft	<input type="checkbox"/> 60 - 100 ft	<input checked="" type="checkbox"/> > 100 ft.
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**Immediately Adjacent Land Use:** Mark the land use(s) immediately adjacent to the erosion site.

<input type="checkbox"/> Rural Residential	<input type="checkbox"/> Urban Residential	<input type="checkbox"/> Commercial	<input type="checkbox"/> Forested
<input type="checkbox"/> Suburban Residential	<input checked="" type="checkbox"/> Industrial	<input type="checkbox"/> Agricultural	<input type="checkbox"/> Recreational

**Land Ownership:** Mark land ownership at the location of the erosion site.

<input type="checkbox"/> Public	<input checked="" type="checkbox"/> Private	<input type="checkbox"/> Unknown
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**Existing Width of Riparian Vegetation:** Mark the average width of riparian vegetation at the erosion site.

<input type="checkbox"/> < 15 ft.	<input type="checkbox"/> 15 - 35 ft.	<input type="checkbox"/> 35 - 50 ft.	<input type="checkbox"/> 50 - 100 ft	<input type="checkbox"/> > 100 ft
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**Notes:** Use the space provided to record important observations otherwise not captured on this sheet.

Someone had cut a trail through vegetation - erosion created mud/sand bar much favored by small shore birds  
 N.B. There were numerous points, particularly along the left side with evidence of old erosion remedied by (formal and informal) "rip rap" composed of stones, old blacktop tires and in one instance, an engine block. We do not advise disturbing this pattern.

**CT – NRCS  
Stream Assessment Worksheet**

Degraded Buffer

Survey Basin Code:	Date:
Name of Stream:	Assessed By:
Reach Code:	
Designated Stream Type:	
Site ID:	

**Make All Observations Facing *Downstream***

**Location / Extent of Degraded Buffer:** 1) Mark and label the location of the degraded buffer on the map. 2) Briefly describe the location of the site relative to roads or other landmarks.

**Mark where the degraded buffer occurs.**

<input type="checkbox"/> Meander Bend	<input type="checkbox"/> Straight Section	<input type="checkbox"/> Steep Slope/Valley Wall	<input type="checkbox"/> Other
<input type="checkbox"/> Left Bank	Estimate length of degraded buffer:          ft.		
<input type="checkbox"/> Right Bank	Estimate length of degraded buffer:          ft.		

**Type of Degradation:**

<b>Left Bank:</b>	<input type="checkbox"/> Minimal Vegetation	<input type="checkbox"/> Minimal Width	<input type="checkbox"/> Invasive Plants	<input type="checkbox"/> Other
<b>Right Bank:</b>	<input type="checkbox"/> Minimal Vegetation	<input type="checkbox"/> Minimal Width	<input type="checkbox"/> Invasive Plants	<input type="checkbox"/> Other

Dominate Land Cover	Paved	Bare Ground	Turf / Lawn	Tall Grass	Scrub / Shrub	Trees	Other
<b>Left Bank</b>	<input type="checkbox"/>						
<b>Right Bank</b>	<input type="checkbox"/>						

**Immediately Adjacent Land Use:** Mark the land use(s) immediately adjacent to the modified section.

<b>Left Bank:</b>	<input type="checkbox"/> Rural Residential	<input type="checkbox"/> Urban Residential	<input type="checkbox"/> Commercial	<input type="checkbox"/> Forested
	<input type="checkbox"/> Suburban Residential	<input type="checkbox"/> Industrial	<input type="checkbox"/> Agricultural	<input type="checkbox"/> Recreational
<b>Right Bank:</b>	<input type="checkbox"/> Rural Residential	<input type="checkbox"/> Urban Residential	<input type="checkbox"/> Commercial	<input type="checkbox"/> Forested
	<input type="checkbox"/> Suburban Residential	<input type="checkbox"/> Industrial	<input type="checkbox"/> Agricultural	<input type="checkbox"/> Recreational

**Existing Width of Riparian Vegetation:** Mark the average width of riparian vegetation to the modified section.

<b>Left Bank:</b>	<input type="checkbox"/> < 15 ft.	<input type="checkbox"/> 15 – 35 ft.	<input type="checkbox"/> 35 – 50 ft.	<input type="checkbox"/> 50 – 100 ft.	<input type="checkbox"/> > 100 ft.
<b>Right Bank:</b>	<input type="checkbox"/> < 15 ft.	<input type="checkbox"/> 15 – 35 ft.	<input type="checkbox"/> 35 – 50 ft.	<input type="checkbox"/> 50 – 100 ft.	<input type="checkbox"/> > 100 ft.

**Notes:** Use the space provided to record important observations otherwise not captures on this sheet.

**CT - NRCS  
Stream Assessment Worksheet**

Modified Channel

Survey Basin Code:	Date: 8/19/2015
Name of Stream: West River	Assessed By: Frank Cochran, Frank
Reach Code: LW2	Dileo, Gary Zrelak
Designated Stream Type:	
Site ID:	

**Make All Observations Facing *Downstream***

**Location / Extent of Modified Channel:** Mark and label the location of the modified channel on the map and provide a brief description of the location of the channel section relative to roads or other landmarks.  
*most of left hand side bank of this reach - banks had been raised by fill etc (old) and modified by a variety of forms of rip rap*

**Mark where channel modification occurs:**

<input checked="" type="checkbox"/> Meander Bend	<input checked="" type="checkbox"/> Straight Section	<input checked="" type="checkbox"/> Steep Slope/Valley Wall	<input type="checkbox"/> Other
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**Estimate length of channel modification:** 4000 ft.  
**Estimate height of bank modification:** 6 ft. - 12ft (variable)

<b>Type of Manipulation:</b>	<input type="checkbox"/> Channelization	<input checked="" type="checkbox"/> Bank Armoring	<input type="checkbox"/> Concrete Channel	<input type="checkbox"/> Other
<b>Extent of Manipulation:</b>	<input type="checkbox"/> Right Bank	<input checked="" type="checkbox"/> Left Bank	<input type="checkbox"/> Channel Bottom	
<b>Channel / Bank Materials:</b>	<input type="checkbox"/> Natural	<input checked="" type="checkbox"/> Rip Rap	<input type="checkbox"/> Concrete	<input type="checkbox"/> Gabions <input type="checkbox"/> Metal

**Immediately Adjacent Land Use:** Mark the land use(s) immediately adjacent to the modified section.

<input type="checkbox"/> Rural Residential	<input type="checkbox"/> Urban Residential	<input checked="" type="checkbox"/> Commercial	<input type="checkbox"/> Forested
<input type="checkbox"/> Suburban Residential	<input checked="" type="checkbox"/> Industrial	<input type="checkbox"/> Agricultural	<input type="checkbox"/> Recreational

**Existing Width of Riparian Vegetation:** Mark the average width of riparian vegetation to the modified section.

<input checked="" type="checkbox"/> < 15 ft.	<input type="checkbox"/> 15 - 35 ft.	<input type="checkbox"/> 35 - 50 ft.	<input type="checkbox"/> 50 - 100 ft.	<input type="checkbox"/> > 100 ft.
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Is there a change in the average width of the active channel?	<input type="checkbox"/> Yes / Estimate Width:    ft	<input checked="" type="checkbox"/> No
Is there evidence of sediment deposition in the channel?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
Is the channel connected to a floodplain?	<input type="checkbox"/> Yes	<input type="checkbox"/> No

**Notes:** Use the space provided to record important observations otherwise not captures on this sheet.

*1. Although there is little space for riparian vegetation above the rip rap slopes due to use of land for parking etc, there was "most though not all places," invasive" and other riparian vegetation growing in/on rip rap*

**CT - NRCS  
Stream Assessment Worksheet**

Fish Barrier

Survey Basin Code:	Date: 8/19/2015
Name of Stream: West River	Assessed By: Frank Pochran, Frank Dileo, Gary Zrelak
Reach Code: LW2	
Designated Stream Type:	
Site ID:	

**Make All Observations Facing *Downstream***

**Location of Barrier:** Mark and label the location of the barrier on the map and provide a brief description of the location of the barrier relative to roads or other landmarks.

Just down from Route 1. Tide gates

**Type of Barrier:** Mark the type of fish barrier.

<input type="checkbox"/> Dam	<input type="checkbox"/> Culvert	<input type="checkbox"/> Velocity Barrier	<input checked="" type="checkbox"/> Other
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**Dam Data:** Provide all relevant data.

<b>Height of Dam:</b> ft.	<b>Length of Spillway:</b> ft.	<b>Shape of Spillway:</b> <input type="checkbox"/> Straight <input type="checkbox"/> Crescent		
<b>Materials:</b>	<input type="checkbox"/> Stone	<input type="checkbox"/> Concrete	<input type="checkbox"/> Stone & Concrete	<input type="checkbox"/> Timber-Crib <input type="checkbox"/> Other
<b>Is there other infrastructure associated with the Dam?</b> <input type="checkbox"/> No <input type="checkbox"/> Yes (If yes mark the type below)				
<input type="checkbox"/> Factory	<input type="checkbox"/> Hydro Facility	<input type="checkbox"/> Mill	<input type="checkbox"/> Residence	<input type="checkbox"/> Other

**Culvert Data:** Provide all relevant data.

<b>Type of Culvert:</b>	<input type="checkbox"/> Box	<input type="checkbox"/> Pipe	<input type="checkbox"/> Pipe-Arch	<input type="checkbox"/> Arch
<b>Culvert Material:</b>	<input type="checkbox"/> Concrete	<input type="checkbox"/> Corrugated Metal	<input type="checkbox"/> Plastic	<input type="checkbox"/> Stone
<b>Culvert Outlet:</b>	<input type="checkbox"/> Perched:..... ft.	<input type="checkbox"/> Ramped	<input type="checkbox"/> Submerged	
<b>Culvert Size:</b>	Diameter: ft.	Height: ft.	Width: ft.	
<b># of Culverts:</b>	<b>Culvert Length:</b> ft.			

**Velocity Barrier Data:** Provide all relevant data.

<b>Nature of Barrier:</b>	<input type="checkbox"/> Grade Control Sill	<input type="checkbox"/> Concrete Apron	<input type="checkbox"/> Channel Cross-Section	<input type="checkbox"/> Other
<b>Length of Barrier:</b> ft.	<b>Approx. Vertical Rise:</b> ft.			

**Notes:** Use the space provided to record important observations otherwise not captured on this sheet.

A number of the older tide gates are deteriorating fairly fast. If they were replaced, more fish would pass.

**CT - NRCS  
Stream Assessment Worksheet**

Trash / Debris

Survey Basin Code:	Date: 8/19/2015
Name of Stream: West River	Assessed By:
Reach Code: LW 2	
Designated Stream Type:	
Site ID:	

**Make All Observations Facing *Downstream***

**Location / Extent of Trash or Debris:** Mark and label the location of the trash or debris on the map and provide a brief description of the location relative to roads or other landmarks.

Within Stream       Riparian Area:     Left Bank     Right Bank

<b>Type:</b>	<input type="checkbox"/> Residential	<input type="checkbox"/> Commercial	<input checked="" type="checkbox"/> Industrial	
<b>Material:</b>	<input type="checkbox"/> Plastic	<input checked="" type="checkbox"/> Tires	<input type="checkbox"/> Appliances	<input type="checkbox"/> Other
	<input type="checkbox"/> Paper	<input type="checkbox"/> Metal	<input checked="" type="checkbox"/> Automotive	
	<input type="checkbox"/> Yard Waste	<input type="checkbox"/> Construction	<input type="checkbox"/> Medical	
<b>Source:</b>	<input type="checkbox"/> Unknown	<input type="checkbox"/> Flooding	<input type="checkbox"/> Illegal Dumping	<input type="checkbox"/> Local Outfall
<b>Land Ownership:</b>	<input checked="" type="checkbox"/> Private	<input checked="" type="checkbox"/> Public	<input checked="" type="checkbox"/> Unknown	

**Notes:** Use the space provided to record important observations otherwise not captures on this sheet.

We have elected to use one form, and not the map because while there were a great number of tires in in many portions of the left side of the reach, and some on the right, they were for the most part helping to stabilize mud banks. The same was true of several other automotive "wastes" and much of the blacktop chunk rip rap (A photo shows mussels growing on old blacktop.

There were also at least three shopping carts, some floating material on the incoming tide, but few if any plastic bags, beer cans etc.

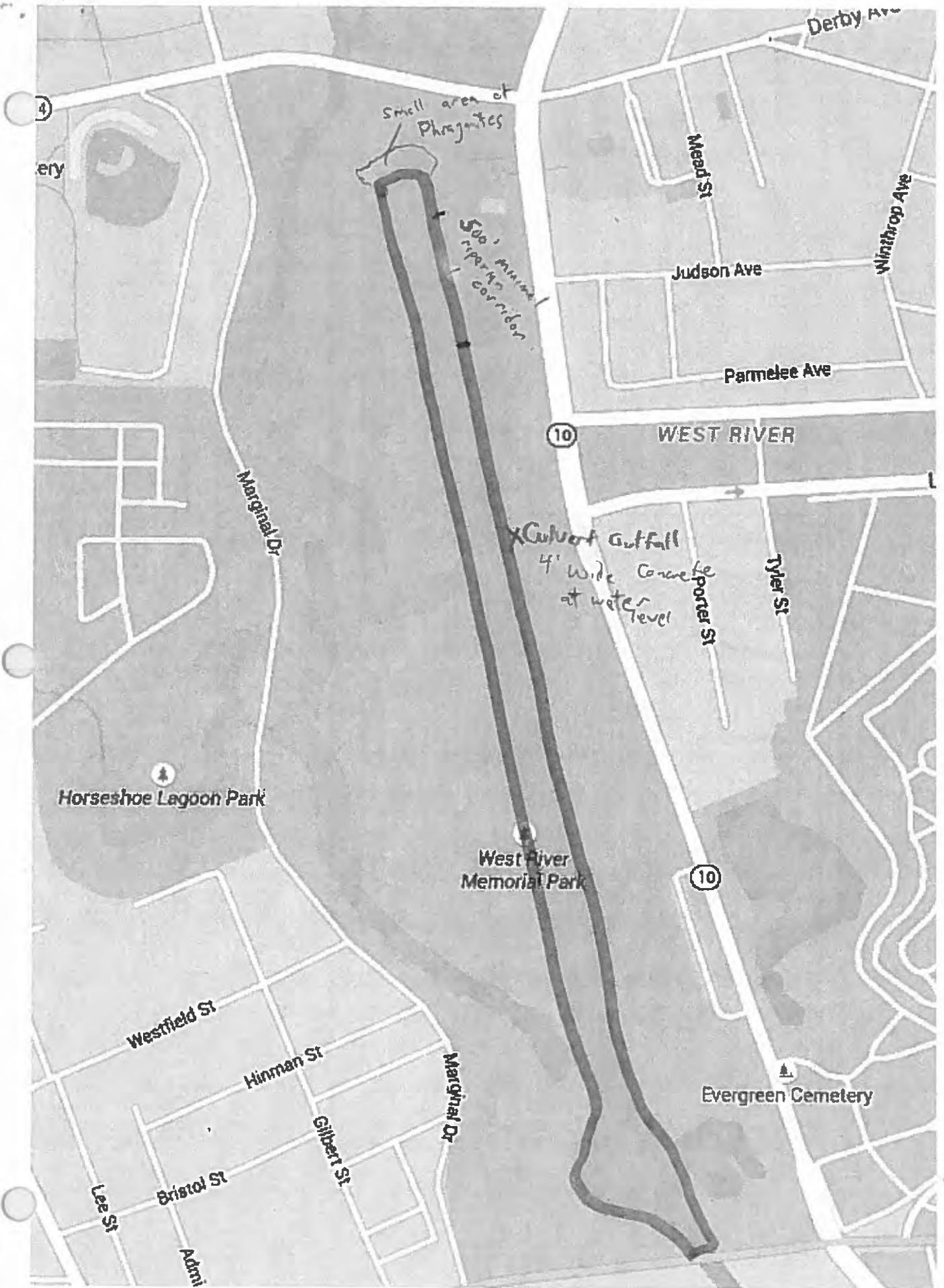








LW 3 0.88 m



**CT-NRCS  
Stream Assessment Sheet**

Reach Level Assessment

Survey Basin Code:	Date(s): 8/13/15
Name of Stream: WEST RIVER	Assessed By: BH TA KB
Reach Code: LW-3	130-245
Designated Stream Type:	

Make All Observations Facing *Downstream*

Was the entire reach of stream surveyed?  Yes  No, Which section(s) were not surveyed? Why?

**Channel Morphology:** Mark the predominate condition(s), and indicate the average measurements.

<input type="checkbox"/> Step-Pool	<input type="checkbox"/> Pool-Riffle	<input checked="" type="checkbox"/> Run	<input type="checkbox"/> Glide	* <input type="checkbox"/> Manipulated Channel (piped, lined, etc.)
Active Channel Width: 175'	Glide Depth:			
Riffle Depth:	Step Height:			
Pool Depth:	Bank Height (Right Bank): 12"			
Run Depth: > 5'	Bank Height (Left Bank): 12"			

**Substrate Composition:** Mark approximate percentages for each substrate type observed.

Silt or Clay	<input type="checkbox"/> <5%	<input type="checkbox"/> 5-25%	<input checked="" type="checkbox"/> 25-50%	<input checked="" type="checkbox"/> 50-75%	<input type="checkbox"/> >75%
Sand	<input type="checkbox"/> <5%	<input type="checkbox"/> 5-25%	<input checked="" type="checkbox"/> 25-50%	<input type="checkbox"/> 50-75%	<input type="checkbox"/> >75%
Gravel (0.1-2 inches)	<input checked="" type="checkbox"/> <5%	<input type="checkbox"/> 5-25%	<input type="checkbox"/> 25-50%	<input type="checkbox"/> 50-75%	<input checked="" type="checkbox"/> >75%
Cobble (2-10 inches)	<input checked="" type="checkbox"/> <5%	<input type="checkbox"/> 5-25%	<input type="checkbox"/> 25-50%	<input type="checkbox"/> 50-75%	<input type="checkbox"/> >75%
Boulder (>10 inches)	<input checked="" type="checkbox"/> <5%	<input type="checkbox"/> 5-25%	<input type="checkbox"/> 25-50%	<input type="checkbox"/> 50-75%	<input type="checkbox"/> >75%
Bedrock	<input checked="" type="checkbox"/> <5%	<input type="checkbox"/> 5-25%	<input type="checkbox"/> 25-50%	<input type="checkbox"/> 50-75%	<input type="checkbox"/> >75%

**Describe Water Conditions:** Mark all that apply.

<input checked="" type="checkbox"/> Clear	<input type="checkbox"/> Stained ("iced tea")	* <input type="checkbox"/> Turbid (muddy / silty)
* <input type="checkbox"/> Green	* <input type="checkbox"/> Rusty-Red	* <input type="checkbox"/> Milky
* <input type="checkbox"/> Odors	* <input type="checkbox"/> Other (foam, dyes, chemicals)	

**Area of Concern Worksheets**  
Indicate # and type of sheets completed for this reach assessment

Erosion	_____
Fish Barrier	_____
Storm Water Outfall	_____
Modified Channel	_____
Impacted Buffer	_____
Trash / Debris	_____
Water Conditions	_____

**Aquatic Plants in Stream:**

Floating: (e.g. duck weed)	<input checked="" type="checkbox"/> Absent	<input type="checkbox"/> In Spots	* <input type="checkbox"/> Everywhere
Attached: (e.g. water lily)	<input checked="" type="checkbox"/> Absent	<input type="checkbox"/> In Spots	* <input type="checkbox"/> Everywhere

**Algae in Stream:**

Floating: (e.g. planktonic)	<input checked="" type="checkbox"/> Absent	<input type="checkbox"/> In Spots	* <input type="checkbox"/> Everywhere
Attached: (e.g. filamentous)	<input checked="" type="checkbox"/> Absent	<input type="checkbox"/> In Spots	* <input type="checkbox"/> Everywhere

**Canopy Cover:** Mark approximate percentage of stream covered by tree canopy.

<input type="checkbox"/> >75% covered	<input type="checkbox"/> 75-50% covered	<input type="checkbox"/> 50%-25% covered	<input checked="" type="checkbox"/> < 25% covered
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**Note:** Items marked with an asterisk (\*) indicate a potential area of concern. Please record all relevant information on the appropriate Area of Concern Worksheet(s).

**CT-NRCS  
Stream Assessment Sheet**

Reach Level Assessment

**Riparian Vegetation:** Characterize the average density of vegetation in the first 35 feet adjacent to the stream for both banks.

	Left Bank	Right Bank	Left Bank	Right Bank	Left Bank	Right Bank
Turf Grass	<input checked="" type="checkbox"/> Low	<input checked="" type="checkbox"/> Low	<input type="checkbox"/> Moderate	<input type="checkbox"/> Moderate	<input type="checkbox"/> High	<input type="checkbox"/> High
Grass	<input type="checkbox"/> Low	<input type="checkbox"/> Low	<input type="checkbox"/> Moderate	<input type="checkbox"/> Moderate	<input checked="" type="checkbox"/> High	<input checked="" type="checkbox"/> High
Shrubs	<input type="checkbox"/> Low	<input type="checkbox"/> Low	<input type="checkbox"/> Moderate	<input type="checkbox"/> Moderate	<input checked="" type="checkbox"/> High	<input checked="" type="checkbox"/> High
Deciduous Trees	<input checked="" type="checkbox"/> Low	<input checked="" type="checkbox"/> Low	<input type="checkbox"/> Moderate	<input type="checkbox"/> Moderate	<input type="checkbox"/> High	<input type="checkbox"/> High
Coniferous Trees	<input type="checkbox"/> Low	<input type="checkbox"/> Low	<input type="checkbox"/> Moderate	<input type="checkbox"/> Moderate	<input type="checkbox"/> High	<input type="checkbox"/> High

**Surrounding Land Use:** Mark the dominate land use(s) for each "zone", if known or observed.

Immediately adjacent to stream		< 1/4 Mile from stream		> 1/4 Mile from stream	
<input type="checkbox"/> Rural Residential	<input type="checkbox"/> Agricultural	<input type="checkbox"/> Rural Residential	<input type="checkbox"/> Agricultural	<input type="checkbox"/> Rural Residential	<input type="checkbox"/> Agricultural
<input type="checkbox"/> Suburban Residential	<input checked="" type="checkbox"/> Forested	<input type="checkbox"/> Suburban Residential	<input checked="" type="checkbox"/> Forested	<input type="checkbox"/> Suburban Residential	<input checked="" type="checkbox"/> Forested
<input type="checkbox"/> Urban Residential	<input checked="" type="checkbox"/> Recreational	<input type="checkbox"/> Urban Residential	<input checked="" type="checkbox"/> Recreational	<input checked="" type="checkbox"/> Urban Residential	<input checked="" type="checkbox"/> Recreational
<input type="checkbox"/> Industrial	<input type="checkbox"/> Other	<input type="checkbox"/> Industrial	<input type="checkbox"/> Other	<input type="checkbox"/> Industrial	<input type="checkbox"/> Other
<input type="checkbox"/> Commercial		<input type="checkbox"/> Commercial		<input type="checkbox"/> Commercial	

**Areas of Concern Checklist:** Marking "Yes" to any of the following questions indicates that an Area of Concern Worksheet should be filled out for the appropriate concern. For each occurrence observed, complete an area of concern sheet.

Is there evidence of either stream bank erosion or streambed instability within the reach?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Are there any dams or any other possible natural or artificial barriers to fish migration?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Are there any storm water outfalls, discharge pipes or discharges within the reach? Indicate the number observed: _____	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
Is there any portion of the channel that has been modified (not culvert) (channeled, piped, rip rap)?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
Is there any portion of the reach where the riparian buffer has been compromised or is nonexistent?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
Is there any portion of the reach that contains trash or other debris (cars, appliances, construction waste)?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Is there any portion of the reach that has a change in water conditions?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No

**Notes:** Use the space provided to record important observations otherwise not captured on the Reach Assessment Sheet or the Areas of Concern Worksheets.

**CT - NRCS  
Stream Assessment Worksheet**

Storm Water Outfall

Survey Basin Code:	Date: 8/13/15
Name of Stream: WEST RIVER	Assessed By: BH KB TA
Reach Code: LW3	
Designated Stream Type:	
Site ID:	

Make All Observations Facing *Downstream*

**Location of Outfall:**  Right Bank  Left Bank Mark and label the location of the outfall on the map and provide a brief description of the location of the outfall relative to roads or other landmarks.

IN LINE W/ LEGION AVE

<b>Outfall Type:</b>	<input type="checkbox"/> Pipe	<input type="checkbox"/> Leak Off	<input checked="" type="checkbox"/> Channel	CULVERT
<b>Flow:</b>	<input checked="" type="checkbox"/> None	<input type="checkbox"/> Trickle	<input type="checkbox"/> Moderate	<input type="checkbox"/> Substantial
<b>Odor:</b>	<input checked="" type="checkbox"/> None	<input type="checkbox"/> Sewage	<input type="checkbox"/> Rancid / Sour	<input type="checkbox"/> Sulfur (rotten eggs)
<b>Deposits / Stains</b>	<input checked="" type="checkbox"/> None	<input type="checkbox"/> Sediment Delta	<input type="checkbox"/> Oily Stain	<input type="checkbox"/> Black
<b>Benthic Growth</b>	<input type="checkbox"/> None	<input type="checkbox"/> Brown	<input type="checkbox"/> Green	<input type="checkbox"/> Orange

**Pipe Data:** Provide all relevant data.

<b>Pipe Material:</b>	<input type="checkbox"/> Concrete	<input type="checkbox"/> Corrugated Metal	<input type="checkbox"/> Plastic	<input type="checkbox"/> Other
<b>Contributing Source(s):</b>	<input type="checkbox"/> Road	<input type="checkbox"/> Parking Lot	<input type="checkbox"/> Other	<input type="checkbox"/> Unknown
<b>Pipe Outlet:</b>	<input type="checkbox"/> Perched ..... ft.	<input type="checkbox"/> Ramped	<input type="checkbox"/> At Stream Level	
<b>Pipe Size:</b>	Diameter: ft.			
<b># of Pipes:</b>	<input type="checkbox"/> 1	<input type="checkbox"/> 2	<input type="checkbox"/> 3 +	

**Leak-Off Data:** Provide all relevant data.

<b>Leak-Off Swale:</b>	<input type="checkbox"/> Concrete	<input type="checkbox"/> Asphalt	<input type="checkbox"/> Stone	<input type="checkbox"/> Earthen
<b>Contributing Source (s):</b>	<input type="checkbox"/> Road	<input type="checkbox"/> Parking Lot	<input type="checkbox"/> Recreational Field	<input type="checkbox"/> Other
<b>Length of Swale:</b>	ft.			
<b>Width of Swale:</b>	ft.			

**Channel Data:** Provide all relevant data.

<b>Channel Material:</b>	<input checked="" type="checkbox"/> Concrete	<input type="checkbox"/> Asphalt	<input type="checkbox"/> Stone	<input type="checkbox"/> Earthen
<b>Contributing Source (s):</b>	<input checked="" type="checkbox"/> Road	<input type="checkbox"/> Parking Lot	<input type="checkbox"/> Recreational Field	<input type="checkbox"/> Other <input type="checkbox"/> Unknown
<b>Channel Length:</b>	? ft.			
<b>Channel Width:</b>	4 ft.			

**Notes:** Use the space provided to record important observations otherwise not captures on this sheet.

CULVERT, RECTANGULAR BOX @ 4' WIDE, 18" TALL  
AT RIVER LEVEL

**CT - NRCS  
Stream Assessment Worksheet**

Degraded Buffer

Survey Basin Code:	Date: 8/13/15
Name of Stream: WEST RIVER	Assessed By: BH TA KR
Reach Code: LW-3	
Designated Stream Type:	
Site ID:	

**Make All Observations Facing *Downstream***

**Location / Extent of Degraded Buffer:** 1) Mark and label the location of the degraded buffer on the map. 2) Briefly describe the location of the site relative to roads or other landmarks.

NARROW BUFFER ALONG PARK AT NORTH END  
@ 500' LONG

**Mark where the degraded buffer occurs.**

<input type="checkbox"/> Meander Bend	<input checked="" type="checkbox"/> Straight Section	<input type="checkbox"/> Steep Slope/Valley Wall	<input type="checkbox"/> Other
<input checked="" type="checkbox"/> Left Bank	Estimate length of degraded buffer: 500 ft.		
<input type="checkbox"/> Right Bank	Estimate length of degraded buffer: ft.		

**Type of Degradation:**

Left Bank:	<input type="checkbox"/> Minimal Vegetation	<input checked="" type="checkbox"/> Minimal Width	<input type="checkbox"/> Invasive Plants	<input type="checkbox"/> Other
Right Bank:	<input type="checkbox"/> Minimal Vegetation	<input type="checkbox"/> Minimal Width	<input type="checkbox"/> Invasive Plants	<input type="checkbox"/> Other

Dominate Land Cover	Paved	Bare Ground	Turf / Lawn	Tall Grass	Scrub / Shrub	Trees	Other
Left Bank	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Right Bank	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

**Immediately Adjacent Land Use:** Mark the land use(s) immediately adjacent to the modified section.

Left Bank:	<input type="checkbox"/> Rural Residential	<input type="checkbox"/> Urban Residential	<input type="checkbox"/> Commercial	<input checked="" type="checkbox"/> Forested
	<input type="checkbox"/> Suburban Residential	<input type="checkbox"/> Industrial	<input type="checkbox"/> Agricultural	<input checked="" type="checkbox"/> Recreational
Right Bank:	<input type="checkbox"/> Rural Residential	<input type="checkbox"/> Urban Residential	<input type="checkbox"/> Commercial	<input checked="" type="checkbox"/> Forested
	<input type="checkbox"/> Suburban Residential	<input type="checkbox"/> Industrial	<input type="checkbox"/> Agricultural	<input type="checkbox"/> Recreational

**Existing Width of Riparian Vegetation:** Mark the average width of riparian vegetation to the modified section.

Left Bank:	<input checked="" type="checkbox"/> < 15 ft.	<input type="checkbox"/> 15 - 35 ft.	<input type="checkbox"/> 35 - 50 ft.	<input type="checkbox"/> 50 - 100 ft	<input type="checkbox"/> > 100 ft
Right Bank:	<input type="checkbox"/> < 15 ft.	<input type="checkbox"/> 15 - 35 ft.	<input type="checkbox"/> 35 - 50 ft.	<input type="checkbox"/> 50 - 100 ft	<input checked="" type="checkbox"/> > 100 ft

**Notes:** Use the space provided to record important observations otherwise not captures on this sheet.

**CT - NRCS  
Stream Assessment Worksheet**

Modified Channel

Survey Basin Code:	Date: 8/13/15
Name of Stream: WEST RIVER	Assessed By: BH KB TA
Reach Code: LW-3	
Designated Stream Type:	
Site ID:	

**Make All Observations Facing *Downstream***

**Location / Extent of Modified Channel:** Mark and label the location of the modified channel on the map and provide a brief description of the location of the channel section relative to roads or other landmarks.

ENTIRE CHANNEL IS MAN MADE + DREDGED

**Mark where channel modification occurs:**

Meander Bend     Straight Section     Steep Slope/Valley Wall     Other

Estimate length of channel modification: ~~0.5~~ 0.8 miles

Estimate height of bank modification: ft.

Type of Manipulation:	<input checked="" type="checkbox"/> Channelization	<input type="checkbox"/> Bank Armoring	<input type="checkbox"/> Concrete Channel	<input type="checkbox"/> Other	
Extent of Manipulation:	<input checked="" type="checkbox"/> Right Bank	<input checked="" type="checkbox"/> Left Bank	<input checked="" type="checkbox"/> Channel Bottom		
Channel / Bank Materials:	<input checked="" type="checkbox"/> Natural	<input type="checkbox"/> Rip Rap	<input type="checkbox"/> Concrete	<input type="checkbox"/> Gabions	<input type="checkbox"/> Metal

**Immediately Adjacent Land Use:** Mark the land use(s) immediately adjacent to the modified section.

Rural Residential     Urban Residential     Commercial     Forested  
 Suburban Residential     Industrial     Agricultural     Recreational

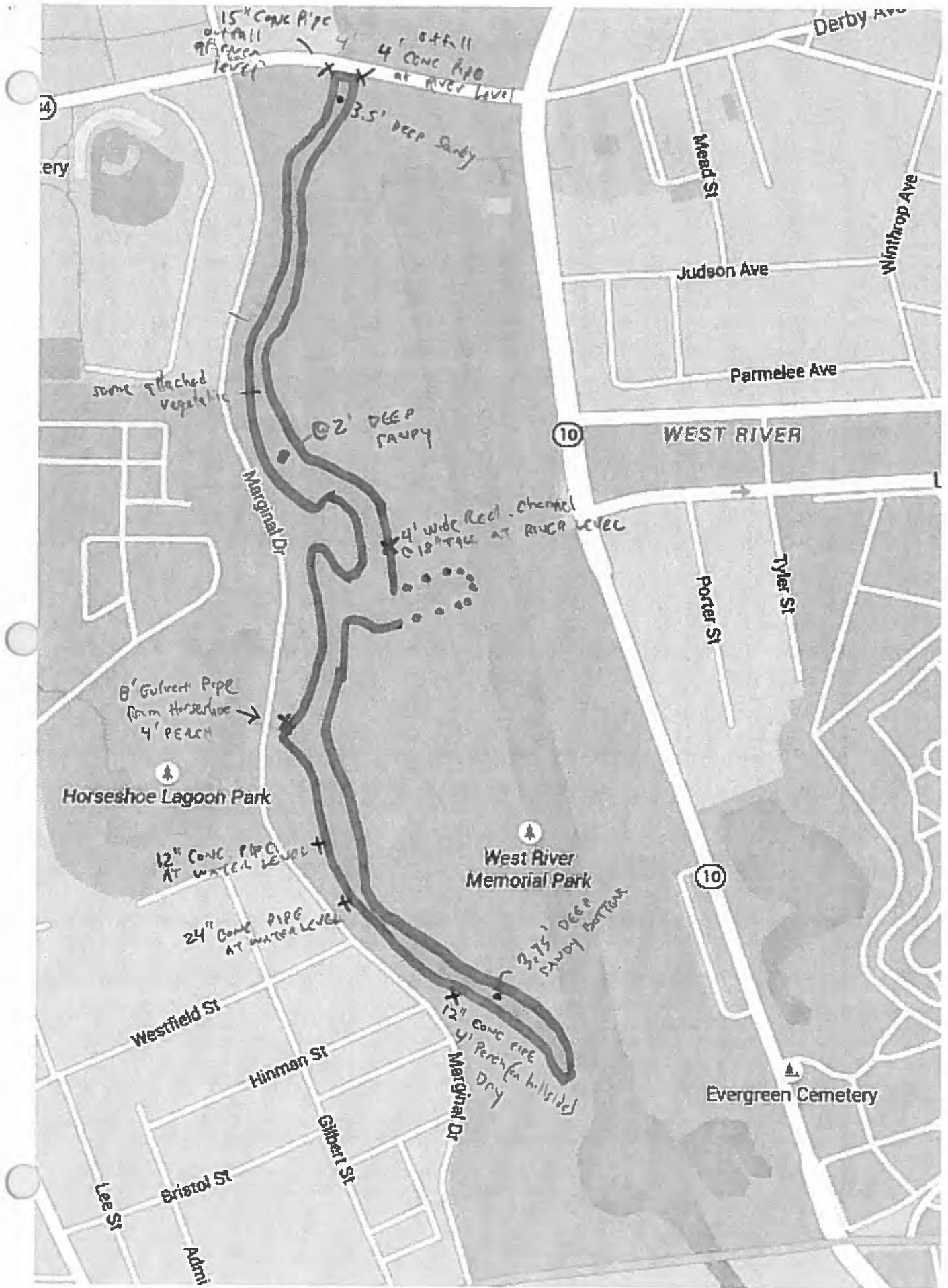
**Existing Width of Riparian Vegetation:** Mark the average width of riparian vegetation to the modified section.

< 15 ft.     15 - 35 ft. *RL*     35 - 50 ft.     50 - 100 ft     > 100 ft *RR*

Is there a change in the average width of the active channel?	<input type="checkbox"/> Yes / Estimate Width: ft	<input checked="" type="checkbox"/> No
Is there evidence of sediment deposition in the channel?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
Is the channel connected to a floodplain?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No

**Notes:** Use the space provided to record important observations otherwise not captures on this sheet.

LW 4 0.95 m



PARK AT @ 40 BOSTON POST RD.

**CT-NRCS  
Stream Assessment Sheet**

Reach Level Assessment

Survey Basin Code:	Date(s): 2/13/15
Name of Stream: WEST RIVER	Assessed By: BH KB TA
Reach Code: LW-4	
Designated Stream Type:	

Make All Observations Facing *Downstream*

Was the entire reach of stream surveyed?  Yes  No, Which section(s) were not surveyed? Why?

**Channel Morphology:** Mark the predominate condition(s), and indicate the average measurements.

<input type="checkbox"/> Step-Pool	<input type="checkbox"/> Pool-Riffle	<input checked="" type="checkbox"/> Run	<input type="checkbox"/> Glide	* <input type="checkbox"/> Manipulated Channel (piped, lined, etc.)
Active Channel Width: 60'	Glide Depth:			
Riffle Depth:	Step Height:			
Pool Depth:	Bank Height (Right Bank): 12"			
Run Depth: 3'	Bank Height (Left Bank): 12"			

**Substrate Composition:** Mark approximate percentages for each substrate type observed.

Silt or Clay	<input type="checkbox"/> <5%	<input checked="" type="checkbox"/> 5-25%	<input type="checkbox"/> 25-50%	<input type="checkbox"/> 50-75%	<input type="checkbox"/> >75%
Sand	<input type="checkbox"/> <5%	<input type="checkbox"/> 5-25%	<input type="checkbox"/> 25-50%	<input checked="" type="checkbox"/> 50-75%	<input type="checkbox"/> >75%
Gravel (0.1-2 inches)	<input type="checkbox"/> <5%	<input checked="" type="checkbox"/> 5-25%	<input type="checkbox"/> 25-50%	<input type="checkbox"/> 50-75%	<input type="checkbox"/> >75%
Cobble (2-10 inches)	<input checked="" type="checkbox"/> <5%	<input type="checkbox"/> 5-25%	<input type="checkbox"/> 25-50%	<input type="checkbox"/> 50-75%	<input type="checkbox"/> >75%
Boulder (>10 inches)	<input checked="" type="checkbox"/> <5%	<input type="checkbox"/> 5-25%	<input type="checkbox"/> 25-50%	<input type="checkbox"/> 50-75%	<input type="checkbox"/> >75%
Bedrock	<input checked="" type="checkbox"/> <5%	<input type="checkbox"/> 5-25%	<input type="checkbox"/> 25-50%	<input type="checkbox"/> 50-75%	<input type="checkbox"/> >75%

**Describe Water Conditions:** Mark all that apply.

<input checked="" type="checkbox"/> Clear	<input type="checkbox"/> Stained ("iced tea")	* <input type="checkbox"/> Turbid (muddy / silty)
* <input type="checkbox"/> Green	* <input type="checkbox"/> Rusty-Red	* <input type="checkbox"/> Milky
* <input type="checkbox"/> Odors	* <input type="checkbox"/> Other (foam, dyes, chemicals)	

**Aquatic Plants in Stream:**

Floating: (e.g. duck weed)	<input checked="" type="checkbox"/> Absent	<input type="checkbox"/> In Spots	* <input type="checkbox"/> Everywhere
Attached: (e.g. water lily)	<input type="checkbox"/> Absent	<input checked="" type="checkbox"/> In Spots	* <input type="checkbox"/> Everywhere

**Algae in Stream:**

Floating: (e.g. planktonic)	<input checked="" type="checkbox"/> Absent	<input type="checkbox"/> In Spots	* <input type="checkbox"/> Everywhere
Attached: (e.g. filamentous)	<input checked="" type="checkbox"/> Absent	<input type="checkbox"/> In Spots	* <input type="checkbox"/> Everywhere

**Canopy Cover:** Mark approximate percentage of stream covered by tree canopy.

<input type="checkbox"/> >75% covered	<input type="checkbox"/> 75-50% covered	<input checked="" type="checkbox"/> 50%-25% covered	<input type="checkbox"/> <25% covered
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**Area of Concern Worksheets**  
Indicate # and type of sheets completed for this reach assessment

Erosion	_____
Fish Barrier	_____
Storm Water Outfall	_____
Modified Channel	_____
Impacted Buffer	_____
Trash / Debris	_____
Water Conditions	_____

Note: Items marked with an asterisk (\*) indicate a potential area of concern. Please record all relevant information on the appropriate Area of Concern Worksheet(s).

## CT-NRCS Stream Assessment Sheet

Reach Level Assessment

<b>Riparian Vegetation:</b> Characterize the average density of vegetation in the first 35 feet adjacent to the stream for both banks.						
	Left Bank	Right Bank	Left Bank	Right Bank	Left Bank	Right Bank
Turf Grass	<input type="checkbox"/> Low	<input type="checkbox"/> Low	<input type="checkbox"/> Moderate	<input type="checkbox"/> Moderate	<input checked="" type="checkbox"/> High	<input type="checkbox"/> High
Grass	<input checked="" type="checkbox"/> Low	<input type="checkbox"/> Low	<input type="checkbox"/> Moderate	<input type="checkbox"/> Moderate	<input checked="" type="checkbox"/> High	<input checked="" type="checkbox"/> High
Shrubs	<input type="checkbox"/> Low	<input type="checkbox"/> Low	<input type="checkbox"/> Moderate	<input type="checkbox"/> Moderate	<input checked="" type="checkbox"/> High	<input checked="" type="checkbox"/> High
Deciduous Trees	<input checked="" type="checkbox"/> Low	<input type="checkbox"/> Low	<input type="checkbox"/> Moderate	<input type="checkbox"/> Moderate	<input checked="" type="checkbox"/> High	<input checked="" type="checkbox"/> High
Coniferous Trees	<input type="checkbox"/> Low	<input checked="" type="checkbox"/> Low	<input type="checkbox"/> Moderate	<input type="checkbox"/> Moderate	<input checked="" type="checkbox"/> High	<input type="checkbox"/> High

<b>Surrounding Land Use:</b> Mark the dominate land use(s) for each "zone", if known or observed.					
Immediately adjacent to stream		< ¼ Mile from stream		> ¼ Mile from stream	
<input type="checkbox"/> Rural Residential	<input type="checkbox"/> Agricultural	<input type="checkbox"/> Rural Residential	<input type="checkbox"/> Agricultural	<input type="checkbox"/> Rural Residential	<input type="checkbox"/> Agricultural
<input type="checkbox"/> Suburban Residential	<input checked="" type="checkbox"/> Forested	<input type="checkbox"/> Suburban Residential	<input checked="" type="checkbox"/> Forested	<input type="checkbox"/> Suburban Residential	<input checked="" type="checkbox"/> Forested
<input type="checkbox"/> Urban Residential	<input type="checkbox"/> Recreational	<input checked="" type="checkbox"/> Urban Residential	<input type="checkbox"/> Recreational	<input checked="" type="checkbox"/> Urban Residential	<input checked="" type="checkbox"/> Recreational
<input type="checkbox"/> Industrial	<input type="checkbox"/> Other	<input type="checkbox"/> Industrial	<input type="checkbox"/> Other	<input type="checkbox"/> Industrial	<input checked="" type="checkbox"/> Other
<input type="checkbox"/> Commercial		<input type="checkbox"/> Commercial		<input checked="" type="checkbox"/> Commercial	

<b>Areas of Concern Checklist:</b> Marking "Yes" to any of the following questions indicates that an Area of Concern Worksheet should be filled out for the appropriate concern. For each occurrence observed, complete and area of concern sheet.		
Is there evidence of either stream bank erosion or streambed instability within the reach?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Are there any dams or any other possible natural or artificial barriers to fish migration?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Are there any storm water outfalls, discharge pipes or discharges within the reach? Indicate the number observed: <u>7</u>	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
Is there any portion of the channel that has been modified (not culvert) (channeled, piped, rip rap)?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Is there any portion of the reach where the riparian buffer has been compromised or is nonexistent?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Is there any portion of the reach that contains trash or other debris (cars, appliances, construction waste)?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Is there any portion of the reach that has a change in water conditions?	<input checked="" type="checkbox"/> Yes	<input checked="" type="checkbox"/> No

**Notes:** Use the space provided to record important observations otherwise not captured on the Reach Assessment Sheet or the Areas of Concern Worksheets.

**CT - NRCS  
Stream Assessment Worksheet**

Storm Water Outfall

Survey Basin Code:	Date: 8-13-15
Name of Stream: WEST RIVER	Assessed By: BT TA KB
Reach Code: LW-4	
Designated Stream Type:	
Site ID:	

**Make All Observations Facing *Downstream***

**Location of Outfall:**  Right Bank  Left Bank Mark and label the location of the outfall on the map and provide a brief description of the location of the outfall relative to roads or other landmarks.

<b>Outfall Type:</b>	<input checked="" type="checkbox"/> Pipe	<input type="checkbox"/> Leak Off	<input checked="" type="checkbox"/> Channel	
<b>Flow:</b>	<input type="checkbox"/> None	<input type="checkbox"/> Trickle	<input type="checkbox"/> Moderate	<input type="checkbox"/> Substantial
<b>Odor:</b>	<input checked="" type="checkbox"/> None	<input type="checkbox"/> Sewage	<input type="checkbox"/> Rancid / Sour	<input type="checkbox"/> Sulfur (rotten eggs)
<b>Deposits / Stains</b>	<input checked="" type="checkbox"/> None	<input type="checkbox"/> Sediment Delta	<input type="checkbox"/> Oily Stain	<input type="checkbox"/> Black
<b>Benthic Growth</b>	<input checked="" type="checkbox"/> None	<input type="checkbox"/> Brown	<input type="checkbox"/> Green	<input type="checkbox"/> Orange

**Pipe Data:** Provide all relevant data.

<b>Pipe Material:</b>	<input checked="" type="checkbox"/> Concrete	<input type="checkbox"/> Corrugated Metal	<input type="checkbox"/> Plastic	<input type="checkbox"/> Other
<b>Contributing Source(s):</b>	<input checked="" type="checkbox"/> Road	<input type="checkbox"/> Parking Lot	<input type="checkbox"/> Other	<input type="checkbox"/> Unknown
<b>Pipe Outlet:</b>	<input checked="" type="checkbox"/> Perched..... 4 ft.	<input type="checkbox"/> Ramped	<input checked="" type="checkbox"/> At Stream Level	
<b>Pipe Size:</b>	Diameter: 0.5-8 ft.			
<b># of Pipes:</b>	<input type="checkbox"/> 1	<input type="checkbox"/> 2	<input checked="" type="checkbox"/> 3+	6

**Leak-Off Data:** Provide all relevant data.

<b>Leak-Off Swale:</b>	<input type="checkbox"/> Concrete	<input type="checkbox"/> Asphalt	<input type="checkbox"/> Stone	<input type="checkbox"/> Earthen
<b>Contributing Source (s):</b>	<input type="checkbox"/> Road	<input type="checkbox"/> Parking Lot	<input type="checkbox"/> Recreational Field	<input type="checkbox"/> Other
<b>Length of Swale:</b> ft.				
<b>Width of Swale:</b> ft.				

**Channel Data:** Provide all relevant data.

<b>Channel Material:</b>	<input checked="" type="checkbox"/> Concrete	<input type="checkbox"/> Asphalt	<input type="checkbox"/> Stone	<input type="checkbox"/> Earthen
<b>Contributing Source (s):</b>	<input type="checkbox"/> Road	<input type="checkbox"/> Parking Lot	<input type="checkbox"/> Recreational Field	<input type="checkbox"/> Other <input checked="" type="checkbox"/> Unknown
<b>Channel Length:</b> ft.				
<b>Channel Width:</b> 4 ft.		18" TALL	CONNECTS TO REFLECTING POOL?	

**Notes:** Use the space provided to record important observations otherwise not captures on this sheet.

15" CONC } AT RIVER LEVEL  
 4" CONC }  
 8" CULTURAT PIPE, 4' PERCH  
 12" CONC } AT WATER LEVEL  
 24" CONC }

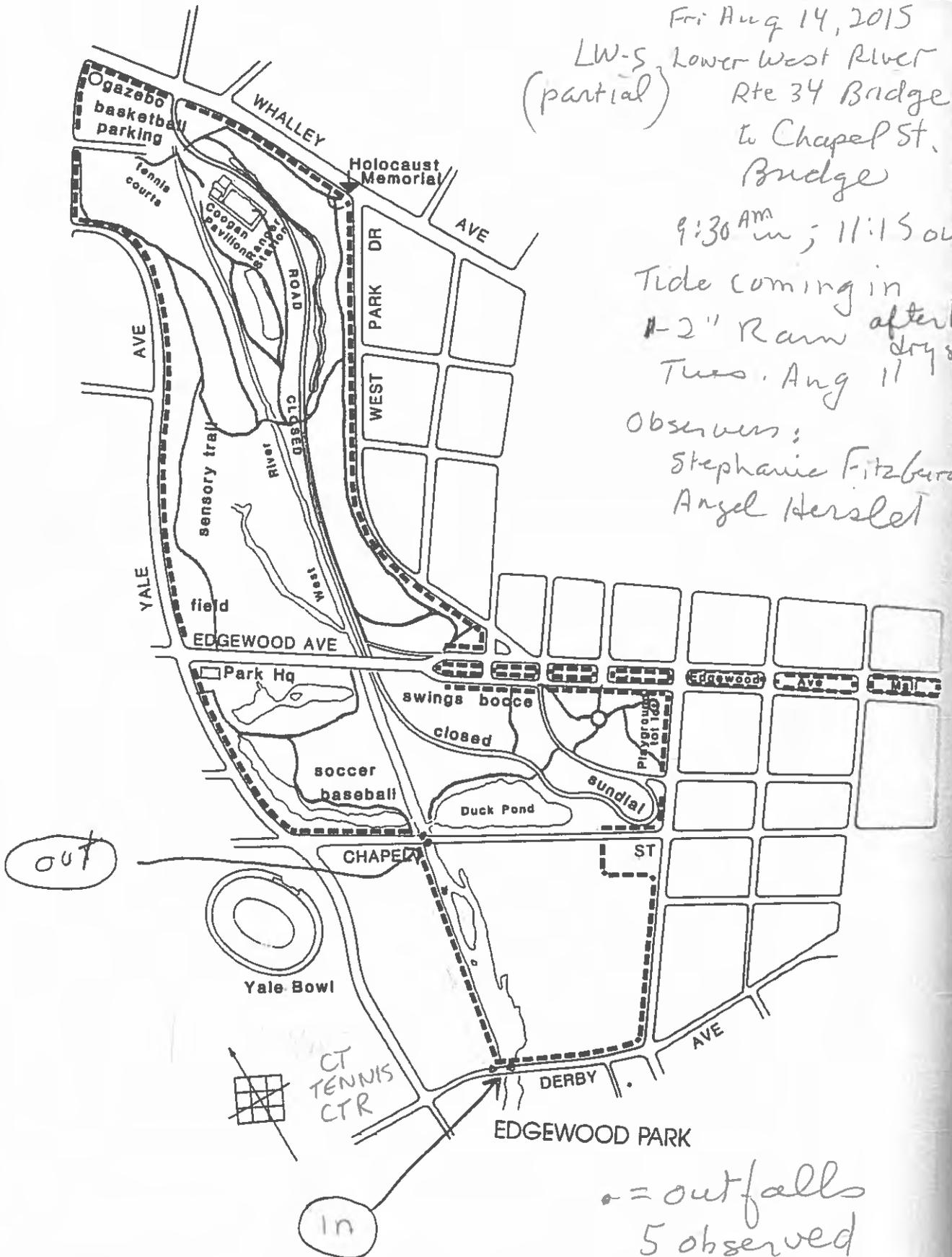
LW5

Fri Aug 14, 2015  
LW-5 Lower West River  
(partial) Rte 34 Bridge  
to Chapel St.  
Bridge

9:30 AM in; 11:15 out

Tide coming in  
1-2" Rain after long  
dry spell  
Tues. Aug 11

Observers:  
Stephanie Fitzberak  
Angel Herslet



## CT-NRCS Stream Assessment Sheet

Reach Level Assessment

Survey Basin Code:	Date(s): <i>Aug 14 2015</i>
Name of Stream: <i>West River</i>	Assessed By: <i>Stephane Fitz Grad</i>
Reach Code: <i>LWS</i>	<i>Angel Herstet</i>
Designated Stream Type:	

Make All Observations Facing *Downstream*

Was the entire reach of stream surveyed?  Yes  No, Which section(s) were not surveyed? Why?  
*Rte. 34 Bridge to Chapel St Bridge*  
*Ran out of time*  
*May survey remainder from bank*

**Channel Morphology:** Mark the predominate condition(s), and indicate the average measurements.

<input type="checkbox"/> Step-Pool	<input type="checkbox"/> Pool-Riffle	<input type="checkbox"/> Run	<input type="checkbox"/> Glide	<input checked="" type="checkbox"/> Manipulated Channel (piped, lined, etc.)
Active Channel Width: <i>35'</i>	Glide Depth:			
Riffle Depth:	Step Height:			
Pool Depth: <i>5'</i>	Bank Height (Right Bank): <i>5'</i>		Bank Height (Left Bank): <i>4' wetlands</i>	
Run Depth:				

**Substrate Composition:** Mark approximate percentages for each substrate type observed.

Silt or Clay	<input type="checkbox"/> <5%	<input type="checkbox"/> 5-25%	<input type="checkbox"/> 25-50%	<input checked="" type="checkbox"/> 50-75%	<input type="checkbox"/> >75%
Sand	<input type="checkbox"/> <5%	<input checked="" type="checkbox"/> 5-25%	<input type="checkbox"/> 25-50%	<input type="checkbox"/> 50-75%	<input type="checkbox"/> >75%
Gravel (0.1-2 inches)	<input type="checkbox"/> <5%	<input checked="" type="checkbox"/> 5-25%	<input type="checkbox"/> 25-50%	<input type="checkbox"/> 50-75%	<input type="checkbox"/> >75%
Cobble (2-10 inches)	<input checked="" type="checkbox"/> <5%	<input type="checkbox"/> 5-25%	<input type="checkbox"/> 25-50%	<input type="checkbox"/> 50-75%	<input type="checkbox"/> >75%
Boulder (>10 inches)	<input checked="" type="checkbox"/> <5%	<input type="checkbox"/> 5-25%	<input type="checkbox"/> 25-50%	<input type="checkbox"/> 50-75%	<input type="checkbox"/> >75%
Bedrock	<input checked="" type="checkbox"/> <5%	<input type="checkbox"/> 5-25%	<input type="checkbox"/> 25-50%	<input type="checkbox"/> 50-75%	<input type="checkbox"/> >75%

**Describe Water Conditions:** Mark all that apply.

<input type="checkbox"/> Clear	<input checked="" type="checkbox"/> Stained ("iced tea")	<input checked="" type="checkbox"/> Turbid (muddy / silty)
<input checked="" type="checkbox"/> Green	<input type="checkbox"/> Rusty-Red	<input type="checkbox"/> Milky <i>when we walked through it</i>
<input checked="" type="checkbox"/> Odors	<input type="checkbox"/> Other (foam, dyes, chemicals)	

**Aquatic Plants in Stream:**

Floating: (e.g. duck weed)	<input checked="" type="checkbox"/> Absent	<input type="checkbox"/> In Spots	<input type="checkbox"/> Everywhere
Attached: (e.g. water lily)	<input type="checkbox"/> Absent	<input checked="" type="checkbox"/> In Spots	<input type="checkbox"/> Everywhere

*very few*

**Algae in Stream:**

Floating: (e.g. planktonic)	<input checked="" type="checkbox"/> Absent	<input type="checkbox"/> In Spots	<input type="checkbox"/> Everywhere
Attached: (e.g. filamentous)	<input checked="" type="checkbox"/> Absent	<input type="checkbox"/> In Spots	<input type="checkbox"/> Everywhere

**Canopy Cover:** Mark approximate percentage of stream covered by tree canopy.

<input type="checkbox"/> >75% covered	<input type="checkbox"/> 75-50% covered	<input checked="" type="checkbox"/> 50%-25% covered	<input type="checkbox"/> < 25% covered
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**Area of Concern Worksheets**  
Indicate # and type of sheets completed for this reach assessment

Erosion	0
Fish Barrier	0
Storm Water Outfall	0
Modified Channel	0
Impacted Buffer	0
Trash / Debris	1
Water Conditions	1

Note: Items marked with an asterisk (\*) indicate a potential area of concern. Please record all relevant information on the appropriate Area of Concern Worksheet(s).

# CT-NRCS Stream Assessment Sheet

Reach Level Assessment

wetland  
phytoplankton  
Jap kno  
wee

**Riparian Vegetation:** Characterize the average density of vegetation in the first 35 feet adjacent to the stream for both banks.

	Left Bank	Right Bank	Left Bank	Right Bank	Left Bank	Right Bank
Turf Grass	<input type="checkbox"/> Low	<input type="checkbox"/> Low	<input type="checkbox"/> Moderate	<input checked="" type="checkbox"/> Moderate	<input type="checkbox"/> High	<input type="checkbox"/> High
Grass	<input type="checkbox"/> Low	<input type="checkbox"/> Low	<input type="checkbox"/> Moderate	<input checked="" type="checkbox"/> Moderate	<input checked="" type="checkbox"/> High*	<input type="checkbox"/> High
Shrubs	<input type="checkbox"/> Low	<input type="checkbox"/> Low	<input type="checkbox"/> Moderate	<input checked="" type="checkbox"/> Moderate	<input type="checkbox"/> High	<input type="checkbox"/> High
Deciduous Trees	<input type="checkbox"/> Low	<input type="checkbox"/> Low	<input type="checkbox"/> Moderate	<input checked="" type="checkbox"/> Moderate	<input type="checkbox"/> High	<input type="checkbox"/> High
Coniferous Trees	<input type="checkbox"/> Low	<input type="checkbox"/> Low	<input type="checkbox"/> Moderate	<input type="checkbox"/> Moderate	<input type="checkbox"/> High	<input type="checkbox"/> High

**Surrounding Land Use:** Mark the dominate land use(s) for each "zone", if known or observed.

Immediately adjacent to stream		< 1/4 Mile from stream		> 1/4 Mile from stream	
<input type="checkbox"/> Rural Residential	<input type="checkbox"/> Agricultural	<input type="checkbox"/> Rural Residential	<input type="checkbox"/> Agricultural	<input type="checkbox"/> Rural Residential	<input type="checkbox"/> Agricultural
<input type="checkbox"/> Suburban Residential	<input type="checkbox"/> Forested	<input type="checkbox"/> Suburban Residential	<input type="checkbox"/> Forested	<input checked="" type="checkbox"/> Suburban Residential -R	<input type="checkbox"/> Forested
<input type="checkbox"/> Urban Residential	<input type="checkbox"/> Recreational	<input type="checkbox"/> Urban Residential	<input type="checkbox"/> Recreational	<input checked="" type="checkbox"/> Urban Residential	<input type="checkbox"/> Recreational
<input type="checkbox"/> Industrial	<input checked="" type="checkbox"/> Other <i>park</i>	<input type="checkbox"/> Industrial	<input checked="" type="checkbox"/> Other	<input type="checkbox"/> Industrial	<input checked="" type="checkbox"/> Other
<input type="checkbox"/> Commercial	<input checked="" type="checkbox"/> Other <i>wetland</i> <i>Tennis center</i>	<input type="checkbox"/> Commercial	<input checked="" type="checkbox"/> Other <i>wetland</i> <i>Tennis center</i>	<input type="checkbox"/> Commercial	<input checked="" type="checkbox"/> Other <i>wetland</i>

**Areas of Concern Checklist:** Marking "Yes" to any of the following questions indicates that an Area of Concern Worksheet should be filled out for the appropriate concern. For each occurrence observed, complete an area of concern sheet.

Is there evidence of either stream bank erosion or streambed instability within the reach?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Are there any dams or any other possible natural or artificial barriers to fish migration?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Are there any storm water outfalls, discharge pipes or discharges within the reach? Indicate the number observed:	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
Is there any portion of the channel that has been modified (not culvert) (channeled, piped, rip rap)?	<input checked="" type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Is there any portion of the reach where the riparian buffer has been compromised or is nonexistent?	<input checked="" type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Is there any portion of the reach that contains trash or other debris (cars, appliances, construction waste)?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
Is there any portion of the reach that has a change in water conditions?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No

**Notes:** Use the space provided to record important observations otherwise not captured on the Reach Assessment Sheet or the Areas of Concern Worksheets.

most notable concern - lots of solid brown particles floating in water everywhere we walked

CT-NRCS  
Stream Assessment Sheet

Reach Level Assessment

Could see flow of water going north  
(tidal action)

Average width of channel 35'

Average depth of water 2.8-3.5'

with shallower sandbars

with deeper spots  $\rightarrow$  up to 5' ft

no wind  
smooth  
surface  
gentle tidal  
flow

sometimes in middle

sometimes near one bank

always near outfalls

Along left side is large <sup>park</sup> wetland.

most plants: phragmites + some  
knotweed

Along right bank - clay bank, Juncus

knotweed, some large trees - oaks +  
smaller understory trees elms

Some trees dead - from return  
of <sup>tidal</sup> brackish water of yrs ago

Some birds observed - osprey,  
hawk, sea gulls, Canada geese,  
ducks, Kingfisher (?) + other small  
birds.

Tree canopy cover varies from almost none  
to 75%  $\rightarrow$  average 50% - 25%

**CT - NRCS  
Stream Assessment Worksheet**

Storm Water Outfall

Survey Basin Code:	Date: 8/14/13
Name of Stream: West River	Assessed By:
Reach Code: LW 5	Stephanie Fitzgerald
Designated Stream Type:	Angel Herselet
Site ID:	

Make All Observations Facing *Downstream*

**Location of Outfall:**  Right Bank  Left Bank Mark and label the location of the outfall on the map and provide a brief description of the location of the outfall relative to roads or other landmarks.

*under Rte 34 Bridge*

<b>Outfall Type:</b>	<input checked="" type="checkbox"/> Pipe	<input type="checkbox"/> Leak Off	<input type="checkbox"/> Channel	
<b>Flow:</b>	<input checked="" type="checkbox"/> None	<input type="checkbox"/> Trickle	<input type="checkbox"/> Moderate	<input type="checkbox"/> Substantial
<b>Odor:</b>	<input type="checkbox"/> None	<input checked="" type="checkbox"/> Sewage	<input checked="" type="checkbox"/> Rancid / Sour	<input type="checkbox"/> Sulfur (rotten eggs)
<b>Deposits / Stains</b>	<input type="checkbox"/> None	<input type="checkbox"/> Sediment Delta	<input type="checkbox"/> Oily Stain	<input type="checkbox"/> Black
<b>Benthic Growth</b>	<input type="checkbox"/> None	<input type="checkbox"/> Brown	<input type="checkbox"/> Green	<input type="checkbox"/> Orange

**Pipe Data:** Provide all relevant data.

<b>Pipe Material:</b>	<input checked="" type="checkbox"/> Concrete	<input type="checkbox"/> Corrugated Metal	<input type="checkbox"/> Plastic	<input type="checkbox"/> Other
<b>Contributing Source(s):</b>	<input checked="" type="checkbox"/> Road	<input type="checkbox"/> Parking Lot	<input type="checkbox"/> Other	<input type="checkbox"/> Unknown
<b>Pipe Outlet:</b>	<input type="checkbox"/> Perched..... ft.	<input type="checkbox"/> Ramped	<input type="checkbox"/> At Stream Level	
<b>Pipe Size:</b>	Diameter: 2.5 ft.			
<b># of Pipes:</b>	<input checked="" type="checkbox"/> 1	<input type="checkbox"/> 2	<input type="checkbox"/> 3 +	

**Leak-Off Data:** Provide all relevant data.

<b>Leak-Off Swale:</b>	<input type="checkbox"/> Concrete	<input type="checkbox"/> Asphalt	<input type="checkbox"/> Stone	<input type="checkbox"/> Earthen
<b>Contributing Source (s):</b>	<input type="checkbox"/> Road	<input type="checkbox"/> Parking Lot	<input type="checkbox"/> Recreational Field	<input type="checkbox"/> Other
<b>Length of Swale:</b> ft.				
<b>Width of Swale:</b> ft.				

**Channel Data:** Provide all relevant data.

<b>Channel Material:</b>	<input type="checkbox"/> Concrete	<input type="checkbox"/> Asphalt	<input type="checkbox"/> Stone	<input type="checkbox"/> Earthen	
<b>Contributing Source (s):</b>	<input type="checkbox"/> Road	<input type="checkbox"/> Parking Lot	<input type="checkbox"/> Recreational Field	<input type="checkbox"/> Other	<input type="checkbox"/> Unknown
<b>Channel Length:</b> ft.					
<b>Channel Width:</b> ft.					

**Notes:** Use the space provided to record important observations otherwise not captures on this sheet.

*Nothing coming out of pipe.  
river water smelled of sewage.  
water deeper near pipe.*

**CT - NRCS  
Stream Assessment Worksheet**

Storm Water Outfall

Survey Basin Code:	Date: 8/14/15
Name of Stream: West River	Assessed By: Stephanie Fitzgerald
Reach Code: LWS	Angel Henslet
Designated Stream Type:	
Site ID:	

**Make All Observations Facing Downstream**

**Location of Outfall:**  Right Bank  Left Bank Mark and label the location of the outfall on the map and provide a brief description of the location of the outfall relative to roads or other landmarks.

under Rt. 34 Bridge

<b>Outfall Type:</b>	<input checked="" type="checkbox"/> Pipe	<input type="checkbox"/> Leak Off	<input type="checkbox"/> Channel	
<b>Flow:</b>	<input checked="" type="checkbox"/> None	<input type="checkbox"/> Trickle	<input type="checkbox"/> Moderate	<input type="checkbox"/> Substantial
<b>Odor:</b>	<input type="checkbox"/> None	<input checked="" type="checkbox"/> Sewage	<input type="checkbox"/> Rancid / Sour	<input type="checkbox"/> Sulfur (rotten eggs)
<b>Deposits / Stains</b>	<input type="checkbox"/> None	<input type="checkbox"/> Sediment Delta	<input type="checkbox"/> Oily Stain	<input type="checkbox"/> Black
<b>Benthic Growth</b>	<input type="checkbox"/> None	<input type="checkbox"/> Brown	<input type="checkbox"/> Green	<input type="checkbox"/> Orange

**Pipe Data: Provide all relevant data.**

<b>Pipe Material:</b>	<input checked="" type="checkbox"/> Concrete	<input type="checkbox"/> Corrugated Metal	<input type="checkbox"/> Plastic	<input type="checkbox"/> Other
<b>Contributing Source(s):</b>	<input checked="" type="checkbox"/> Road	<input type="checkbox"/> Parking Lot	<input type="checkbox"/> Other	<input type="checkbox"/> Unknown
<b>Pipe Outlet:</b>	<input type="checkbox"/> Perched..... ft.	<input type="checkbox"/> Ramped	<input type="checkbox"/> At Stream Level	
<b>Pipe Size:</b>	Diameter: 2.5 ft.			
<b># of Pipes:</b>	<input checked="" type="checkbox"/> 1	<input type="checkbox"/> 2	<input type="checkbox"/> 3+	

**Leak-Off Data: Provide all relevant data.**

<b>Leak-Off Swale:</b>	<input type="checkbox"/> Concrete	<input type="checkbox"/> Asphalt	<input type="checkbox"/> Stone	<input type="checkbox"/> Earthen
<b>Contributing Source (s):</b>	<input type="checkbox"/> Road	<input type="checkbox"/> Parking Lot	<input type="checkbox"/> Recreational Field	<input type="checkbox"/> Other
<b>Length of Swale:</b> ft.				
<b>Width of Swale:</b> ft.				

**Channel Data: Provide all relevant data.**

<b>Channel Material:</b>	<input type="checkbox"/> Concrete	<input type="checkbox"/> Asphalt	<input type="checkbox"/> Stone	<input type="checkbox"/> Earthen
<b>Contributing Source (s):</b>	<input type="checkbox"/> Road	<input type="checkbox"/> Parking Lot	<input type="checkbox"/> Recreational Field	<input type="checkbox"/> Other <input type="checkbox"/> Unknown
<b>Channel Length:</b> ft.				
<b>Channel Width:</b> ft.				

**Notes: Use the space provided to record important observations otherwise not captures on this sheet.**

Nothing coming out of pipe.  
river water smelled of sewage.  
Stream depth greater near pipe outfall

**CT - NRCS  
Stream Assessment Worksheet**

Storm Water Outfall

Survey Basin Code:	Date: 8/14/15
Name of Stream: West Run	Assessed By: Stephanie Fitz Gerald
Reach Code: LWR	Angel Hesselet
Designated Stream Type:	
Site ID:	

**Make All Observations Facing Downstream**

**Location of Outfall:**  Right Bank  Left Bank Mark and label the location of the outfall on the map and provide a brief description of the location of the outfall relative to roads or other landmarks.

2/3 of way up to Chapel St. Bridge  
from Rte. 34 at Tennis Center Park

<b>Outfall Type:</b>	<input checked="" type="checkbox"/> Pipe	<input type="checkbox"/> Leak Off	<input type="checkbox"/> Channel	
<b>Flow:</b> ?	<input type="checkbox"/> None	<input type="checkbox"/> Trickle	<input type="checkbox"/> Moderate	<input type="checkbox"/> Substantial
<b>Odor:</b>	<input type="checkbox"/> None	<input checked="" type="checkbox"/> Sewage	<input type="checkbox"/> Rancid / Sour	<input type="checkbox"/> Sulfur (rotten eggs)
<b>Deposits / Stains</b>	<input type="checkbox"/> None	<input type="checkbox"/> Sediment Delta	<input type="checkbox"/> Oily Stain	<input type="checkbox"/> Black
<b>Benthic Growth</b>	<input type="checkbox"/> None	<input type="checkbox"/> Brown	<input type="checkbox"/> Green	<input type="checkbox"/> Orange

**Pipe Data: Provide all relevant data.**

<b>Pipe Material:</b>	<input checked="" type="checkbox"/> Concrete	<input type="checkbox"/> Corrugated Metal	<input type="checkbox"/> Plastic	<input type="checkbox"/> Other
<b>Contributing Source(s):</b>	<input type="checkbox"/> Road	<input checked="" type="checkbox"/> Parking Lot	<input type="checkbox"/> Other	<input type="checkbox"/> Unknown
<b>Pipe Outlet:</b>	<input type="checkbox"/> Perched..... ft.	<input type="checkbox"/> Ramped	<input checked="" type="checkbox"/> At Stream Level	
<b>Pipe Size:</b>	Diameter: 2 ft.			
<b># of Pipes:</b>	<input checked="" type="checkbox"/> 1	<input type="checkbox"/> 2	<input type="checkbox"/> 3+	

**Leak-Off Data: Provide all relevant data.**

<b>Leak-Off Swale:</b>	<input type="checkbox"/> Concrete	<input type="checkbox"/> Asphalt	<input type="checkbox"/> Stone	<input type="checkbox"/> Earthen
<b>Contributing Source (s):</b>	<input type="checkbox"/> Road	<input type="checkbox"/> Parking Lot	<input type="checkbox"/> Recreational Field	<input type="checkbox"/> Other
<b>Length of Swale:</b> ft.				
<b>Width of Swale:</b> ft.				

**Channel Data: Provide all relevant data.**

<b>Channel Material:</b>	<input type="checkbox"/> Concrete	<input type="checkbox"/> Asphalt	<input type="checkbox"/> Stone	<input type="checkbox"/> Earthen
<b>Contributing Source (s):</b>	<input type="checkbox"/> Road	<input type="checkbox"/> Parking Lot	<input type="checkbox"/> Recreational Field	<input type="checkbox"/> Other <input type="checkbox"/> Unknown
<b>Channel Length:</b> ft.				
<b>Channel Width:</b> ft.				

**Notes: Use the space provided to record important observations otherwise not captures on this sheet.**

didn't notice water movement  
nearby is no outflow?

**CT - NRCS  
Stream Assessment Worksheet**

Storm Water Outfall

Survey Basin Code:	Date: 8/14/15
Name of Stream: W River	Assessed By:
Reach Code: LWS	Stephania Fitzgerald
Designated Stream Type:	
Site ID:	Angel Hershey

**Make All Observations Facing Downstream**

**Location of Outfall:**  Right Bank  Left Bank Mark and label the location of the outfall on the map and provide a brief description of the location of the outfall relative to roads or other landmarks.

Under Chapel St. Bridge

<b>Outfall Type:</b>	<input checked="" type="checkbox"/> Pipe	<input type="checkbox"/> Leak Off	<input type="checkbox"/> Channel	
<b>Flow:</b>	<input checked="" type="checkbox"/> None	<input type="checkbox"/> Trickle	<input type="checkbox"/> Moderate	<input type="checkbox"/> Substantial
<b>Odor:</b>	<input type="checkbox"/> None	<input type="checkbox"/> Sewage	<input type="checkbox"/> Rancid / Sour	<input type="checkbox"/> Sulfur (rotten eggs)
<b>Deposits / Stains</b>	<input type="checkbox"/> None	<input type="checkbox"/> Sediment Delta	<input type="checkbox"/> Oily Stain	<input type="checkbox"/> Black
<b>Benthic Growth</b>	<input type="checkbox"/> None	<input type="checkbox"/> Brown	<input type="checkbox"/> Green	<input type="checkbox"/> Orange

**Pipe Data: Provide all relevant data.**

<b>Pipe Material:</b>	<input checked="" type="checkbox"/> Concrete	<input type="checkbox"/> Corrugated Metal	<input type="checkbox"/> Plastic	<input type="checkbox"/> Other
<b>Contributing Source(s):</b>	<input type="checkbox"/> Road	<input type="checkbox"/> Parking Lot	<input type="checkbox"/> Other	<input type="checkbox"/> Unknown
<b>Pipe Outlet:</b>	<input type="checkbox"/> Perched..... ft.	<input type="checkbox"/> Ramped	<input type="checkbox"/> At Stream Level	
<b>Pipe Size:</b>	Diameter: 2 1/2 ft.			
<b># of Pipes:</b>	<input checked="" type="checkbox"/> 1	<input type="checkbox"/> 2	<input type="checkbox"/> 3+	

**Leak-Off Data: Provide all relevant data.**

<b>Leak-Off Swale:</b>	<input type="checkbox"/> Concrete	<input type="checkbox"/> Asphalt	<input type="checkbox"/> Stone	<input type="checkbox"/> Earthen
<b>Contributing Source (s):</b>	<input type="checkbox"/> Road	<input type="checkbox"/> Parking Lot	<input type="checkbox"/> Recreational Field	<input type="checkbox"/> Other
<b>Length of Swale:</b> ft.				
<b>Width of Swale:</b> ft.				

**Channel Data: Provide all relevant data.**

<b>Channel Material:</b>	<input type="checkbox"/> Concrete	<input type="checkbox"/> Asphalt	<input type="checkbox"/> Stone	<input type="checkbox"/> Earthen	
<b>Contributing Source (s):</b>	<input type="checkbox"/> Road	<input type="checkbox"/> Parking Lot	<input type="checkbox"/> Recreational Field	<input type="checkbox"/> Other	<input type="checkbox"/> Unknown
<b>Channel Length:</b> ft.					
<b>Channel Width:</b> ft.					

**Notes: Use the space provided to record important observations otherwise not captures on this sheet.**

**CT - NRCS  
Stream Assessment Worksheet**

Storm Water Outfall

Survey Basin Code:	Date: 8/14/13
Name of Stream: W River	Assessed By:
Reach Code: LWS	Stephanie Fitzgerald
Designated Stream Type:	Angel Heeslet
Site ID:	

**Make All Observations Facing Downstream**

**Location of Outfall:**  Right Bank  Left Bank Mark and label the location of the outfall on the map and provide a brief description of the location of the outfall relative to roads or other landmarks.

under Chapel St. Bridge  
(south of 2)

clear always running from a spring

<b>Outfall Type:</b>	<input checked="" type="checkbox"/> Pipe	<input type="checkbox"/> Leak Off	<input type="checkbox"/> Channel	
<b>Flow:</b>	<input type="checkbox"/> None	<input type="checkbox"/> Trickle	<input checked="" type="checkbox"/> Moderate	<input type="checkbox"/> Substantial
<b>Odor:</b>	<input type="checkbox"/> None	<input type="checkbox"/> Sewage	<input type="checkbox"/> Rancid / Sour	<input type="checkbox"/> Sulfur (rotten eggs)
<b>Deposits / Stains</b>	<input type="checkbox"/> None	<input type="checkbox"/> Sediment Delta	<input type="checkbox"/> Oily Stain	<input type="checkbox"/> Black
<b>Benthic Growth</b>	<input type="checkbox"/> None	<input type="checkbox"/> Brown	<input type="checkbox"/> Green	<input type="checkbox"/> Orange

**Pipe Data: Provide all relevant data.**

<b>Pipe Material:</b>	<input checked="" type="checkbox"/> Concrete	<input type="checkbox"/> Corrugated Metal	<input type="checkbox"/> Plastic	<input type="checkbox"/> Other
<b>Contributing Source(s):</b>	<input type="checkbox"/> Road	<input type="checkbox"/> Parking Lot	<input type="checkbox"/> Other	<input type="checkbox"/> Unknown
<b>Pipe Outlet:</b>	<input type="checkbox"/> Perched..... ft.	<input type="checkbox"/> Ramped	<input type="checkbox"/> At Stream Level	
<b>Pipe Size:</b>	Diameter: 2 1/2 ft.			
<b># of Pipes:</b>	<input checked="" type="checkbox"/> 1	<input type="checkbox"/> 2	<input type="checkbox"/> 3+	

**Leak-Off Data: Provide all relevant data.**

<b>Leak-Off Swale:</b>	<input type="checkbox"/> Concrete	<input type="checkbox"/> Asphalt	<input type="checkbox"/> Stone	<input type="checkbox"/> Earthen
<b>Contributing Source (s):</b>	<input type="checkbox"/> Road	<input type="checkbox"/> Parking Lot	<input type="checkbox"/> Recreational Field	<input type="checkbox"/> Other
<b>Length of Swale:</b> ft.				
<b>Width of Swale:</b> ft.				

**Channel Data: Provide all relevant data.**

<b>Channel Material:</b>	<input type="checkbox"/> Concrete	<input type="checkbox"/> Asphalt	<input type="checkbox"/> Stone	<input type="checkbox"/> Earthen
<b>Contributing Source (s):</b>	<input type="checkbox"/> Road	<input type="checkbox"/> Parking Lot	<input type="checkbox"/> Recreational Field	<input type="checkbox"/> Other <input type="checkbox"/> Unknown
<b>Channel Length:</b> ft.				
<b>Channel Width:</b> ft.				

**Notes: Use the space provided to record important observations otherwise not captures on this sheet.**

**CT - NRCS  
Stream Assessment Worksheet**

Storm Water Outfall

Survey Basin Code:	Date: 8/19/15
Name of Stream: West River	Assessed By:
Reach Code: LW 5	Stephanie Fitzgerald
Designated Stream Type:	Angel Hasslet
Site ID:	

**Make All Observations Facing Downstream**

**Location of Outfall:**  Right Bank  Left Bank Mark and label the location of the outfall on the map and provide a brief description of the location of the outfall relative to roads or other landmarks

under chapel St. Bridge  
(north of 2) appeared clear

<b>Outfall Type:</b>	<input checked="" type="checkbox"/> Pipe	<input type="checkbox"/> Leak Off	<input type="checkbox"/> Channel	
<b>Flow:</b>	<input type="checkbox"/> None	<input checked="" type="checkbox"/> Trickle	<input type="checkbox"/> Moderate	<input type="checkbox"/> Substantial
<b>Odor:</b>	<input type="checkbox"/> None	<input type="checkbox"/> Sewage	<input type="checkbox"/> Rancid / Sour	<input type="checkbox"/> Sulfur (rotten eggs)
<b>Deposits / Stains</b>	<input type="checkbox"/> None	<input type="checkbox"/> Sediment Delta	<input type="checkbox"/> Oily Stain	<input type="checkbox"/> Black
<b>Benthic Growth</b>	<input type="checkbox"/> None	<input type="checkbox"/> Brown	<input type="checkbox"/> Green	<input type="checkbox"/> Orange

**Pipe Data: Provide all relevant data.**

<b>Pipe Material:</b>	<input checked="" type="checkbox"/> Concrete	<input type="checkbox"/> Corrugated Metal	<input type="checkbox"/> Plastic	<input type="checkbox"/> Other
<b>Contributing Source(s):</b>	<input type="checkbox"/> Road	<input type="checkbox"/> Parking Lot	<input type="checkbox"/> Other	<input type="checkbox"/> Unknown
<b>Pipe Outlet:</b>	<input type="checkbox"/> Perched..... ft.	<input type="checkbox"/> Ramped	<input type="checkbox"/> At Stream Level	
<b>Pipe Size:</b>	Diameter: 2 1/2 ft.			
<b># of Pipes:</b>	<input type="checkbox"/> 1	<input type="checkbox"/> 2	<input type="checkbox"/> 3 +	

**Leak-Off Data: Provide all relevant data.**

<b>Leak-Off Swale:</b>	<input type="checkbox"/> Concrete	<input type="checkbox"/> Asphalt	<input type="checkbox"/> Stone	<input type="checkbox"/> Earthen
<b>Contributing Source (s):</b>	<input type="checkbox"/> Road	<input type="checkbox"/> Parking Lot	<input type="checkbox"/> Recreational Field	<input type="checkbox"/> Other
<b>Length of Swale:</b>	ft.			
<b>Width of Swale:</b>	ft.			

**Channel Data: Provide all relevant data.**

<b>Channel Material:</b>	<input type="checkbox"/> Concrete	<input type="checkbox"/> Asphalt	<input type="checkbox"/> Stone	<input type="checkbox"/> Earthen
<b>Contributing Source (s):</b>	<input type="checkbox"/> Road	<input type="checkbox"/> Parking Lot	<input type="checkbox"/> Recreational Field	<input type="checkbox"/> Other <input type="checkbox"/> Unknown
<b>Channel Length:</b>	ft.			
<b>Channel Width:</b>	ft.			

**Notes: Use the space provided to record important observations otherwise not captures on this sheet.**

**CT - NRCS  
Stream Assessment Worksheet**

Trash / Debris

Survey Basin Code:	Date: 8/14/15
Name of Stream: W River	Assessed By:
Reach Code: LW 5	Stephanie Fitzgerald
Designated Stream Type:	Angel Henslet
Site ID:	

Make All Observations Facing *Downstream*

**Location / Extent of Trash or Debris:** Mark and label the location of the trash or debris on the map and provide a brief description of the location relative to roads or other landmarks.

Overall, very little trash, debris in river. Saw 1 med. sized TV, some plastic water bottles + some potato chip ba

<input checked="" type="checkbox"/> Within Stream	<input type="checkbox"/> Riparian Area:	<input checked="" type="checkbox"/> Left Bank	<input checked="" type="checkbox"/> Right Bank
---	---	---	--

<b>Type:</b>	<input type="checkbox"/> Residential	<input type="checkbox"/> Commercial	<input type="checkbox"/> Industrial	<input checked="" type="checkbox"/> Park/land
<b>Material:</b>	<input checked="" type="checkbox"/> Plastic	<input type="checkbox"/> Tires	<input type="checkbox"/> Appliances	<input checked="" type="checkbox"/> Other TV
	<input type="checkbox"/> Paper	<input type="checkbox"/> Metal	<input type="checkbox"/> Automotive	
	<input type="checkbox"/> Yard Waste	<input type="checkbox"/> Construction	<input type="checkbox"/> Medical	
<b>Source:</b>	<input checked="" type="checkbox"/> Unknown	<input type="checkbox"/> Flooding	<input checked="" type="checkbox"/> Illegal Dumping	<input type="checkbox"/> Local Outfall
<b>Land Ownership:</b>	<input type="checkbox"/> Private	<input checked="" type="checkbox"/> Public	<input type="checkbox"/> Unknown	

**Notes:** Use the space provided to record important observations otherwise not captures on this sheet.

Along shore - more <sup>litter</sup> especially under chapel St Bridge on the left bank.

**CT - NRCS  
Stream Assessment Worksheet**

Visual Water Conditions /  
Excessive Plant or Algae Growth

Survey Basin Code:	Date: 8/14/13
Name of Stream: West River	Assessed By: Stephanie FitzGerald
Reach Code: LW 5	Angel Herollet
Designated Stream Type:	
Site ID:	

**Make All Observations Facing Downstream**

**Location / Extent of Visual Water Conditions and/or Excessive Plant or Algae Growth:** 1) Mark and label the location on the map. 2) Briefly describe the location of the site relative to roads or other landmarks.

Water the same from Rte 34 - Chapel St.  
floating brown substance everywhere  
Some floating tiny bubbles about 1 1/2" diameter, a little oil? 3-5" patches occasional

**Immediately Adjacent Land Use:** Mark the land use(s) immediately adjacent to the ~~modified~~ section.

<input type="checkbox"/> Rural Residential	<input type="checkbox"/> Urban Residential	<input type="checkbox"/> Commercial	<input type="checkbox"/> Forested
<input type="checkbox"/> Suburban Residential	<input type="checkbox"/> Industrial	<input type="checkbox"/> Agricultural	<input type="checkbox"/> Recreational

\* Pan 101

**Describe Water Conditions:** Mark all that apply. *when stirred up*

<input type="checkbox"/> Clear	<input checked="" type="checkbox"/> Stained ("iced tea")	<input checked="" type="checkbox"/> Turbid (muddy / silty)	<input type="checkbox"/> Odors
<input type="checkbox"/> Green	<input type="checkbox"/> Rusty-Red	<input type="checkbox"/> Milky	<input type="checkbox"/> Other (foam, dyes, chemicals)

**Canopy Cover:** Mark approximate percentage of stream covered by tree canopy.

<input type="checkbox"/> >75% covered	<input type="checkbox"/> 75-50% covered	<input checked="" type="checkbox"/> 50%-25% covered	<input type="checkbox"/> < 25% covered
---------------------------------------	---	---	--

**Aquatic Plants in Stream:**

Floating: (e.g. duck weed)	<input checked="" type="checkbox"/> Absent	<input type="checkbox"/> In Spots	<input type="checkbox"/> Everywhere
Attached: (e.g. water lily)	<input type="checkbox"/> Absent	<input checked="" type="checkbox"/> In Spots	<input type="checkbox"/> Everywhere

**Algae in Stream:**

Floating: (e.g. planktonic)	<input checked="" type="checkbox"/> Absent	<input type="checkbox"/> In Spots	<input type="checkbox"/> Everywhere
Attached: (e.g. filamentous)	<input checked="" type="checkbox"/> Absent	<input type="checkbox"/> In Spots	<input type="checkbox"/> Everywhere

Is the change in water condition or excessive plant / algae growth located at or directly below a storm water outfall?	<input type="checkbox"/> Yes	<input type="checkbox"/> No
Is the change in water conditions or excessive plant / algae growth associated with a change in channel dimensions (depth & width)?	<input type="checkbox"/> Yes	<input type="checkbox"/> No
Is the change in water conditions or excessive plant / algae growth associated with an impoundment / dam on the stream?	<input type="checkbox"/> Yes	<input type="checkbox"/> No

} NI

**Notes:** Use the space provided to record important observations otherwise not captured on this sheet.

Saw lots of minnows, barnacles attached to submerged branches  
Some submerged tree trunks & branches

# CT-NRCS Stream Assessment Sheet

Reach Level Assessment

Survey Basin Code:	Date(s): 8/22/2015
Name of Stream: WEST RIVER	Assessed By: FENWALL B + WILK
Reach Code: LW5	
Designated Stream Type:	

**Make All Observations Facing *Downstream***

Was the entire reach of stream surveyed?  Yes  No, Which section(s) were not surveyed? Why?

**Channel Morphology:** Mark the predominate condition(s), and indicate the average measurements.

<input type="checkbox"/> Step-Pool	<input checked="" type="checkbox"/> Pool-Riffle	<input type="checkbox"/> Run	<input checked="" type="checkbox"/> Glide	* <input type="checkbox"/> Manipulated Channel (piped, lined, etc.)
Active Channel Width: 39'	Glide Depth: 12"			
Riffle Depth: 4"	Step Height:			
Pool Depth: 18"	Bank Height (Right Bank): 2.5'			
Run Depth: <del>18"</del>	Bank Height (Left Bank): 2.5'			

**Substrate Composition:** Mark approximate percentages for each substrate type observed.

Silt or Clay	<input type="checkbox"/> <5%	<input type="checkbox"/> 5-25%	<input type="checkbox"/> 25-50%	<input type="checkbox"/> 50-75%	<input type="checkbox"/> >75%
Sand	<input type="checkbox"/> <5%	<input type="checkbox"/> 5-25%	<input type="checkbox"/> 25-50%	<input checked="" type="checkbox"/> 50-75%	<input checked="" type="checkbox"/> >75%
Gravel (0.1-2 inches)	<input checked="" type="checkbox"/> <5%	<input type="checkbox"/> 5-25%	<input type="checkbox"/> 25-50%	<input type="checkbox"/> 50-75%	<input type="checkbox"/> >75%
Cobble (2-10 inches)	<input checked="" type="checkbox"/> <5%	<input type="checkbox"/> 5-25%	<input type="checkbox"/> 25-50%	<input type="checkbox"/> 50-75%	<input type="checkbox"/> >75%
Boulder (>10 inches)	<input checked="" type="checkbox"/> <5%	<input type="checkbox"/> 5-25%	<input type="checkbox"/> 25-50%	<input type="checkbox"/> 50-75%	<input type="checkbox"/> >75%
Bedrock	<input type="checkbox"/> <5%	<input type="checkbox"/> 5-25%	<input type="checkbox"/> 25-50%	<input type="checkbox"/> 50-75%	<input type="checkbox"/> >75%

many of the boulders + cobble appeared to be placed as a part of bridge abutment protection + channel armoring.

**Describe Water Conditions:** Mark all that apply.

<input type="checkbox"/> Clear	<input type="checkbox"/> Stained ("iced tea")	* <input type="checkbox"/> Turbid (muddy / silty)
* <input type="checkbox"/> Green	* <input type="checkbox"/> Rusty-Red	* <input type="checkbox"/> Milky
<input checked="" type="checkbox"/> Odors	* <input type="checkbox"/> Other (foam, dyes, chemicals)	

**Area of Concern Worksheets**  
Indicate # and type of sheets completed for this reach assessment

Brosion	
Fish Barrier	
Storm Water Outfall	<input checked="" type="checkbox"/>
Modified Channel	<input checked="" type="checkbox"/>
Impacted Buffer	
Trash / Debris	<input checked="" type="checkbox"/>
Water Conditions	<input checked="" type="checkbox"/>

**Terrestrial Aquatic Plants in Stream:**

Emergent (e.g. duck weed)	<input type="checkbox"/> Absent	<input type="checkbox"/> In Spots	* <input type="checkbox"/> Everywhere
Submerged (e.g. water lily)	<input type="checkbox"/> Absent	<input type="checkbox"/> In Spots	* <input checked="" type="checkbox"/> Everywhere

**Algae in Stream:**

Planktonic (e.g. planktonic)	<input type="checkbox"/> Absent	<input type="checkbox"/> In Spots	* <input type="checkbox"/> Everywhere
Filamentous (e.g. filamentous)	<input type="checkbox"/> Absent	<input checked="" type="checkbox"/> In Spots	* <input type="checkbox"/> Everywhere

**Canopy Cover:** Mark approximate percentage of stream covered by tree canopy.

<input type="checkbox"/> 75-100% covered	<input type="checkbox"/> 75-50% covered	<input checked="" type="checkbox"/> 50%-25% covered	<input type="checkbox"/> < 25% covered
--	---	---	--

Items marked with an asterisk (\*) indicate a potential area of concern. Please record all relevant information on the appropriate Area of Concern Worksheet(s).

RCS 2008

Developed By CT-NRCS January 2008

TIMER  
DISCHARGE

on stream bed - particularly closer to valley Ave outfall

canopy cover around stream through Edgewood Park - Chapel St to Footbridge - minimal - predominated by grass, more canopy in immediate riparian forest - but did not extend far beyond banks.

**CT-NRCS  
Stream Assessment Sheet**

Reach Level Assessment

**Riparian Vegetation:** Characterize the average density of vegetation in the first 35 feet adjacent to the stream for both banks.

	Left Bank	Right Bank	Left Bank	Right Bank	Left Bank	Right Bank
Turf Grass	<input type="checkbox"/> Low	<input type="checkbox"/> Low	<input type="checkbox"/> Moderate	<input type="checkbox"/> Moderate	<input type="checkbox"/> High	<input type="checkbox"/> High
Grass	<input type="checkbox"/> Low	<input type="checkbox"/> Low	<input checked="" type="checkbox"/> Moderate	<input checked="" type="checkbox"/> Moderate	<input type="checkbox"/> High	<input type="checkbox"/> High
Shrubs	<input type="checkbox"/> Low	<input type="checkbox"/> Low	<input type="checkbox"/> Moderate	<input type="checkbox"/> Moderate	<input checked="" type="checkbox"/> High	<input checked="" type="checkbox"/> High
Deciduous Trees	<input checked="" type="checkbox"/> Low	<input type="checkbox"/> Low	<input type="checkbox"/> Moderate	<input checked="" type="checkbox"/> Moderate	<input type="checkbox"/> High	<input type="checkbox"/> High
Coniferous Trees	<input checked="" type="checkbox"/> Low	<input checked="" type="checkbox"/> Low	<input type="checkbox"/> Moderate	<input type="checkbox"/> Moderate	<input type="checkbox"/> High	<input type="checkbox"/> High

**Surrounding Land Use:** Mark the dominate land use(s) for each "zone", if known or observed.

Immediately adjacent to stream	< 1/4 Mile from stream	> 1/4 Mile from stream
<input type="checkbox"/> Rural/Residential	<input type="checkbox"/> Rural Residential	<input type="checkbox"/> Rural/Residential
<input type="checkbox"/> Agricultural	<input type="checkbox"/> Agricultural	<input type="checkbox"/> Agricultural
<input type="checkbox"/> Suburban Residential	<input checked="" type="checkbox"/> Suburban Residential	<input checked="" type="checkbox"/> Suburban Residential
<input checked="" type="checkbox"/> Forested	<input checked="" type="checkbox"/> Forested	<input checked="" type="checkbox"/> Forested
<input type="checkbox"/> Urban Residential	<input checked="" type="checkbox"/> Urban Residential	<input checked="" type="checkbox"/> Urban Residential
<input checked="" type="checkbox"/> Recreational	<input checked="" type="checkbox"/> Recreational	<input checked="" type="checkbox"/> Recreational
<input type="checkbox"/> Industrial	<input type="checkbox"/> Industrial	<input type="checkbox"/> Industrial
<input checked="" type="checkbox"/> Other	<input type="checkbox"/> Other	<input type="checkbox"/> Other
<input type="checkbox"/> Commercial	<input type="checkbox"/> Commercial	<input type="checkbox"/> Commercial

**Areas of Concern Checklist:** Marking "Yes" to any of the following questions indicates that an Area of Concern Worksheet should be filled out for the appropriate concern. For each occurrence observed, complete an area of concern sheet.

Is there evidence of either stream bank erosion or streambed instability within the reach?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Are there any dams or any other possible natural or artificial barriers to fish migration?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
Are there any storm water outfalls, discharge pipes or discharges within the reach? Indicate the number observed: <b>15 - not counting Derby Ave outfalls !!</b>	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
Is there any portion of the channel that has been modified (not culvert) (channeled, piped, rip rap)? <b>Channel b/w Derby Ave + Whalley was straightened long ago.</b>	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
Is there any portion of the reach where the riparian buffer has been compromised or is nonexistent?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Is there any portion of the reach that contains trash or other debris (cars, appliances, construction waste)? <b>LOTS OF TIRES THROUGHOUT</b>	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
Is there any portion of the reach that has a change in water conditions?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No

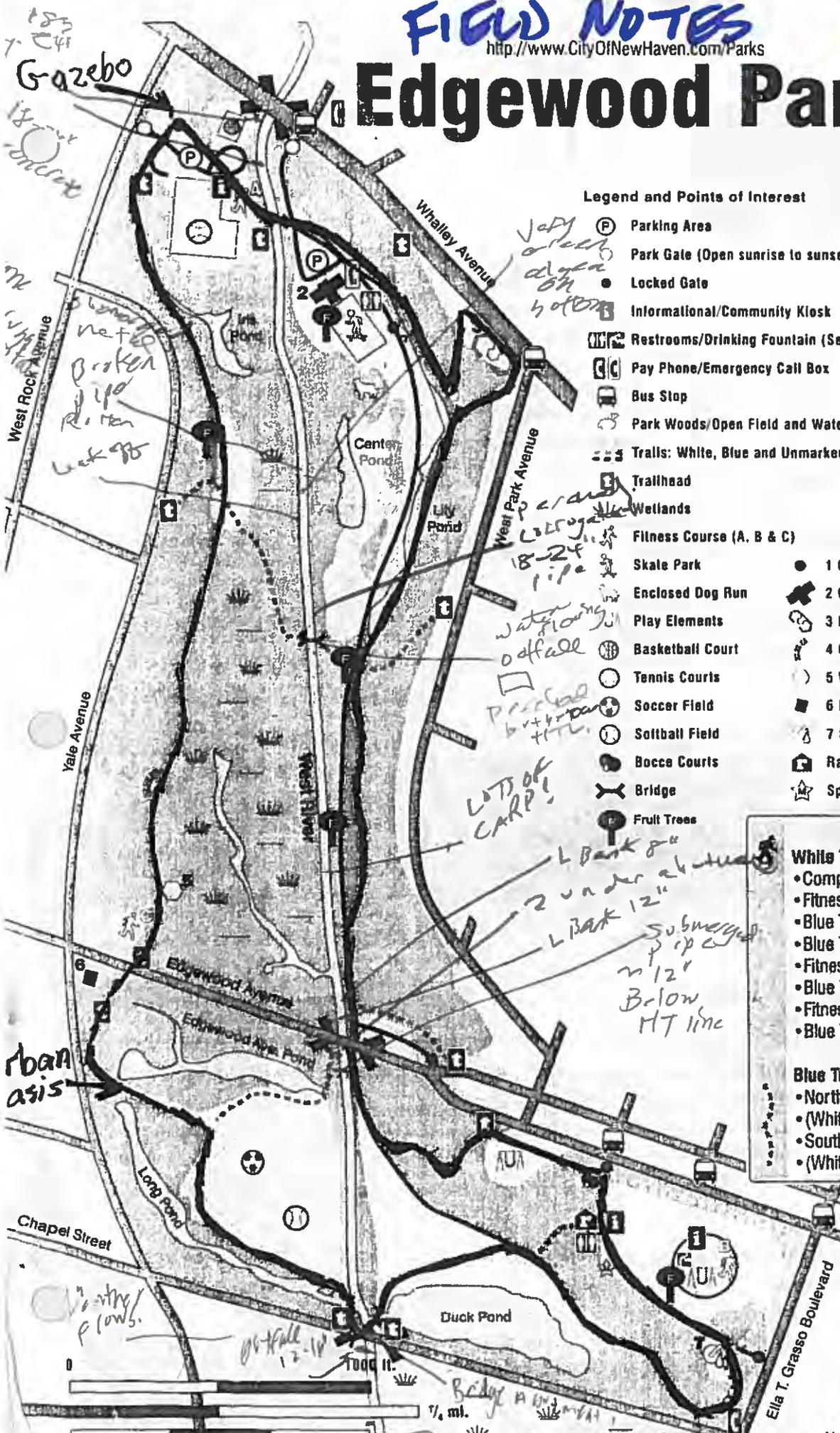
**Notes:** Use the space provided to record important observations otherwise not captured on the Reach Assessment Sheet or the Areas of Concern Worksheets. **WHITE SUCKERS OBSERVED IN STREAM**

WATER WAS FOUL SMELLING THROUGH MUCH OF THE REACH - BUT ESPECIALLY CLOSER TO WHALLEY AVE - ADJACENT TO STORMWATER OUTFALLS (RT BANK) AND DOWNSTREAM OF THE CSD OUTFALL BELOW THE BRIDGE ABUTMENT.

MANY OF THE OUTFALLS THAT WE IDENTIFIED ARE LIKELY SUBMERGED DURING HIGH TIDE - SEVERAL OF THEM WERE DISCHARGING WATER - BUT IT WAS UNCLEAR AS TO WHETHER OR NOT THIS WAS TIDE H<sub>2</sub>O - GROUND H<sub>2</sub>O OR OTHER DISCHARGE

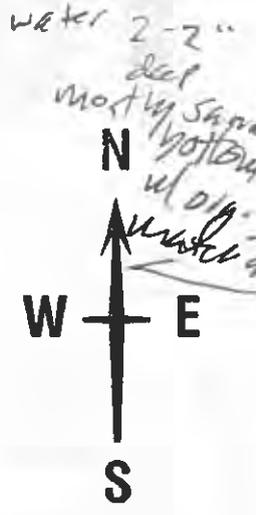
# Edgewood Park

Parks & Recreation



**Legend and Points of Interest**

- Parking Area
- Park Gate (Open sunrise to sunset)
- Locked Gate
- Informational/Community Kiosk
- Restrooms/Drinking Fountain (Seasonal)
- Pay Phone/Emergency Call Box
- Bus Stop
- Park Woods/Open Field and Water
- Trails: White, Blue and Unmarked
- Trailhead
- Wetlands
- Fitness Course (A, B & C)
- Skate Park
- Enclosed Dog Run
- Play Elements
- Basketball Court
- Tennis Courts
- Soccer Field
- Softball Field
- Bocce Courts
- Bridge
- Fruit Trees
- 1 Gazebo
- 2 Coogan Pavilion
- 3 Holocaust Memorial
- 4 Outdoor Classroom
- 5 Wetlands Viewing Platform
- 6 NH Parks & Rec. Office (203) 946-8027
- 7 Sundial Splash Pad
- Ranger Station (203) 946-8028
- Spanish-American War Veterans Memorial



**Trail Mileage Guide**

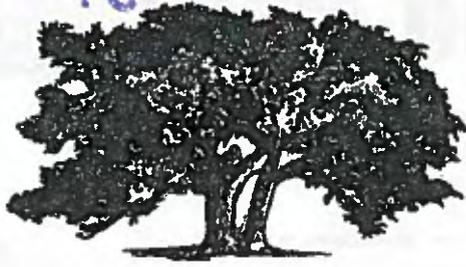
**White Trail**

- Complete Loop: 2.38 mi.
- Fitness A to Blue Trail NE: .39 mi.
- Blue Trail NE to Blue Trail SE: .24 mi.
- Blue Trail SE to Fitness B: .30 mi.
- Fitness B to Blue Trail SW: .70 mi.
- Blue Trail SW to Fitness C: .17 mi.
- Fitness C to Blue Trail NW: .28 mi.
- Blue Trail NW to Fitness A: .29 mi.

**Blue Trail**

- North: .26 mi.
- (White Trail to White Trail): .15 mi.
- South: .30 mi.
- (White Trail to White Trail): .21 mi.





## EDGEWOOD PARK

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- or call 203 500-7777

**CT - NRCS  
Stream Assessment Worksheet**

Trash / Debris

Survey Basin Code:	Date: 8/23/2015
Name of Stream: WEST RIVER	Assessed By: KENNETH B T
Reach Code: LWS - from Derry to Whitney	Will
Designated Stream Type:	
Site ID:	

**Make All Observations Facing *Downstream***

**Location / Extent of Trash or Debris:** Mark and label the location of the trash or debris on the map and provide a brief description of the location relative to roads or other landmarks.

TIRES THROUGHOUT CHANNEL - NOT PILED, BUT  
FOUND ABOUT ONE TIRE EVERY 20 YARDS OR SO.

<input checked="" type="checkbox"/> Within Stream	<input type="checkbox"/> Riparian Area: <input type="checkbox"/> Left Bank <input type="checkbox"/> Right Bank
---	--

<b>Type:</b>	<input type="checkbox"/> Residential	<input checked="" type="checkbox"/> Commercial	<input type="checkbox"/> Industrial	
<b>Material:</b>	<input type="checkbox"/> Plastic	<input checked="" type="checkbox"/> Tires	<input type="checkbox"/> Appliances	<input type="checkbox"/> Other
	<input type="checkbox"/> Paper	<input type="checkbox"/> Metal	<input type="checkbox"/> Automotive	
	<input type="checkbox"/> Yard Waste	<input type="checkbox"/> Construction	<input type="checkbox"/> Medical	
<b>Source:</b>	<input type="checkbox"/> Unknown	<input type="checkbox"/> Flooding	<input checked="" type="checkbox"/> Illegal Dumping	<input type="checkbox"/> Local Outfall
<b>Land Ownership:</b>	<input type="checkbox"/> Private	<input checked="" type="checkbox"/> Public	<input type="checkbox"/> Unknown	

**Notes:** Use the space provided to record important observations otherwise not captures on this sheet.

TIRES LIKELY THE RESULT OF ILLEGAL DUMPING - BUT LOCATION OF DUMPING NOT SPECIFICALLY IDENTIFIED W/IN THIS REACH. TIRES WERE DISTRIBUTED THROUGHOUT - MANY OF THEM WERE COVERED IN ALGAE AND HAD CLEARLY BEEN IN THE REACH FOR SOME TIME.

**CT - NRCS  
Stream Assessment Worksheet**

Trash / Debris

Survey Basin Code:	Date: 8/23/2015
Name of Stream: WEST RIVER	Assessed By: KENDALL B + MLL
Reach Code: LW5 - FROM DERBY AVE TO WHALLEY	
Designated Stream Type:	
Site ID:	

Make All Observations Facing *Downstream*

**Location / Extent of Trash or Debris:** Mark and label the location of the trash or debris on the map and provide a brief description of the location relative to roads or other landmarks.



<input checked="" type="checkbox"/> Within Stream	<input type="checkbox"/> Riparian Area: <input type="checkbox"/> Left Bank <input type="checkbox"/> Right Bank
---	--

<b>Type:</b>	<input type="checkbox"/> Residential	<input checked="" type="checkbox"/> Commercial	<input type="checkbox"/> Industrial	
<b>Material:</b>	<input type="checkbox"/> Plastic	<input type="checkbox"/> Tires	<input type="checkbox"/> Appliances	<input type="checkbox"/> Other
	<input type="checkbox"/> Paper	<input type="checkbox"/> Metal	<input type="checkbox"/> Automotive	
	<input type="checkbox"/> Yard Waste	<input checked="" type="checkbox"/> Construction	<input type="checkbox"/> Medical	
<b>Source:</b>	<input checked="" type="checkbox"/> Unknown	<input type="checkbox"/> Flooding	<input type="checkbox"/> Illegal Dumping	<input type="checkbox"/> Local Outfall
<b>Land Ownership:</b>	<input type="checkbox"/> Private	<input checked="" type="checkbox"/> Public	<input type="checkbox"/> Unknown	

**Notes:** Use the space provided to record important observations otherwise not captures on this sheet.

THERE IS A STOP SIGN ON A METAL POST IN THE MIDDLE OF THE WEST RIVER BENEATH THE EDGEWOOD AVE BRIDGE.

**CT - NRCS  
Stream Assessment Worksheet**

Visual Water Conditions /  
Excessive Plant or Algae Growth

Survey Basin Code:	Date: 8/23/2015
Name of Stream: WEST RIVER	Assessed By: KENDALL B +
Reach Code: LWS	WILL
Designated Stream Type:	
Site ID:	

**Make All Observations Facing Downstream**

**Location / Extent of Visual Water Conditions and/or Excessive Plant or Algae Growth:** 1) Mark and label the location on the map. 2) Briefly describe the location of the site relative to roads or other landmarks.

THROUGHOUT THE CHANNEL FROM DUCK POND TO WHALLEY AVE - ATTACHED VEG. ALGAE ON BOTTOM FROM FOOT BRIDGE TO WHALLEY - INTERMITTENT

**Immediately Adjacent Land Use:** Mark the land use(s) immediately adjacent to the modified section.

<input type="checkbox"/> Rural Residential	<input checked="" type="checkbox"/> Urban Residential	<input type="checkbox"/> Commercial	<input checked="" type="checkbox"/> Forested
<input type="checkbox"/> Suburban Residential	<input type="checkbox"/> Industrial	<input type="checkbox"/> Agricultural	<input checked="" type="checkbox"/> Recreational

**Describe Water Conditions:** Mark all that apply.

<input checked="" type="checkbox"/> Clear	<input type="checkbox"/> Stained ("iced tea")	<input type="checkbox"/> Turbid (muddy / silty)	<input checked="" type="checkbox"/> Odors
<input type="checkbox"/> Green	<input type="checkbox"/> Rusty-Red	<input type="checkbox"/> Milky	<input type="checkbox"/> Other (foam, dyes, chemicals)

**Canopy Cover:** Mark approximate percentage of stream covered by tree canopy.

<input type="checkbox"/> >75% covered	<input type="checkbox"/> 75-50% covered	<input checked="" type="checkbox"/> 50%-25% covered	<input type="checkbox"/> < 25% covered
---------------------------------------	---	---	--

**Aquatic Plants in Stream:**

Floating: (e.g. duck weed)	<input checked="" type="checkbox"/> Absent	<input type="checkbox"/> In Spots	<input type="checkbox"/> Everywhere
Attached: (e.g. water lily)	<input type="checkbox"/> Absent	<input checked="" type="checkbox"/> In Spots	<input checked="" type="checkbox"/> Everywhere

- IN SPOTS - A LOT OF THEM - BUT ENTIRE STREAM BED WAS NOT COVERED.

**Algae in Stream:**

Floating: (e.g. planktonic)	<input type="checkbox"/> Absent	<input type="checkbox"/> In Spots	<input type="checkbox"/> Everywhere
Attached: (e.g. filamentous)	<input type="checkbox"/> Absent	<input checked="" type="checkbox"/> In Spots	<input type="checkbox"/> Everywhere

- ESPECIALLY BETWEEN WHALLEY AVE + FOOT BRIDGE

Is the change in water condition or excessive plant / algae growth located at or directly below a storm water outfall?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
Is the change in water conditions or excessive plant / algae growth associated with a change in channel dimensions (depth & width)?	<input type="checkbox"/> Yes	<input type="checkbox"/> No
Is the change in water conditions or excessive plant / algae growth associated with an impoundment / dam on the stream?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No

**Notes:** Use the space provided to record important observations otherwise not captures on this sheet.

LOTS OF ATTACHED VEGETATION ON STREAM BED WHERE WATER DEPTHS RANGED FROM 8"-18" @ LOW TIDE CONDITIONS - IN UPPER, POSSIBLY NON-TIDAL OR LOW-INFLUENCE TIDAL ZONES.

STRONG SEWAGE-LIKE ODOR PRESENT IN VICINITY OF WHALLEY AVE BRIDGE - THOUGH NO ADVISORY CSO DISCHARGE WAS OCCURRING - IT HAD RAINED 2 DAYS PRIOR - SO POSSIBLY RESULTING FROM STORMWATER DISCHARGES. CSO +

outfall map.

(W) 8/23/2015

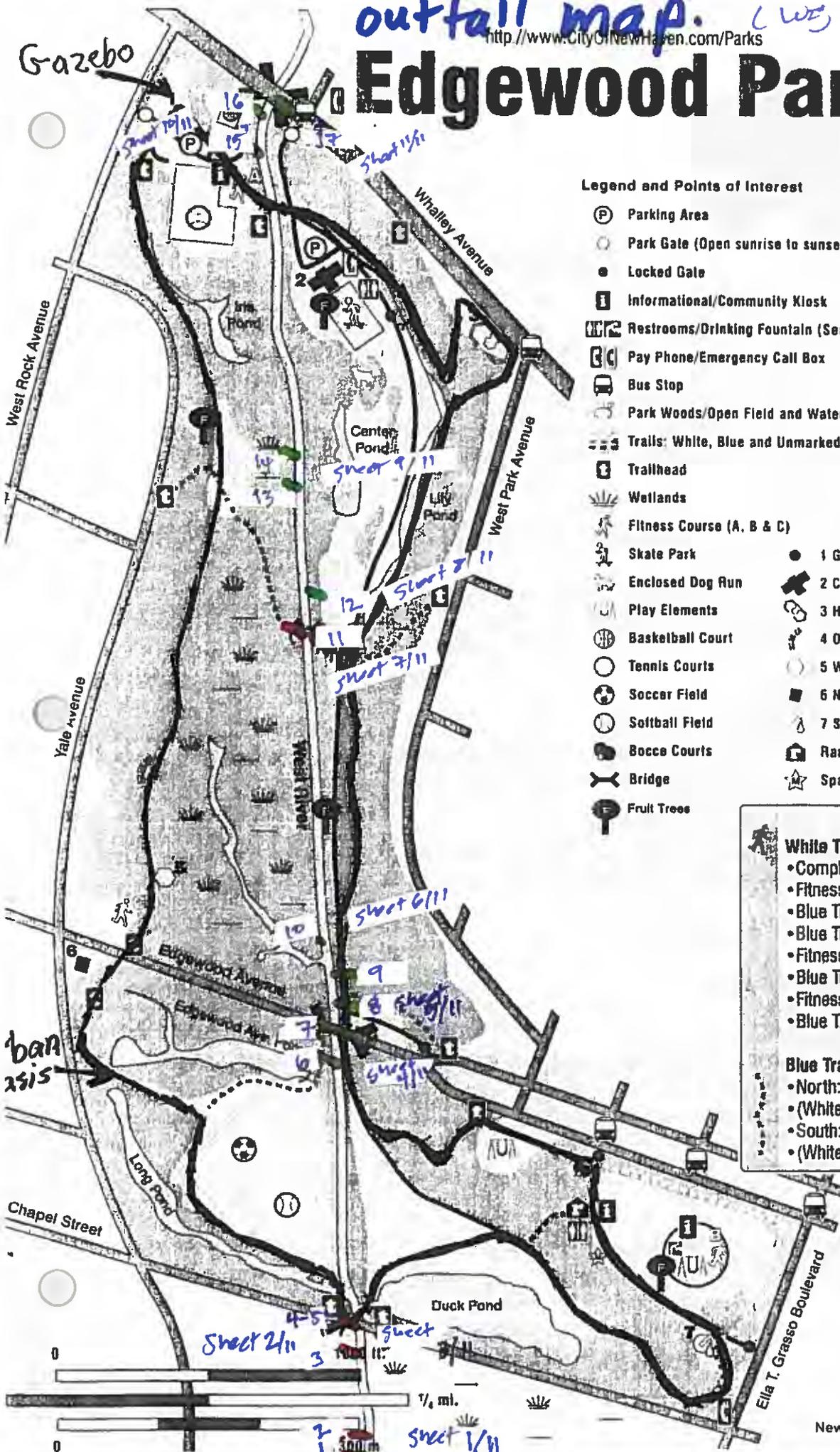
http://www.CityOfNewHaven.com/Parks

New Haven

# Edgewood Park



Gazebo



### Legend and Points of Interest

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### Trail Mileage Guide

**White Trail**

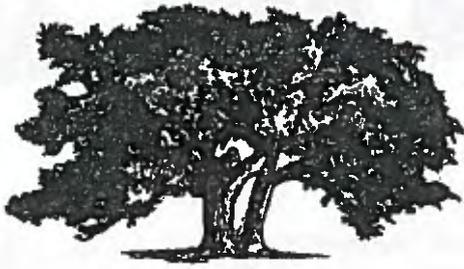
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Map Designed by  
New Haven Park Ranger Chris Gueretti



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**CT - NRCS  
Stream Assessment Worksheet**

Storm Water Outfall

Survey Basin Code:	Date: 8/23/2016
Name of Stream: WEST RIVER	Assessed By: KENDALL + WILL
Reach Code: LWS	Sheet 1/11
Designated Stream Type:	FIRST 2 PIPES FROM DOWNSTREAM
Site ID:	NORTH

**Make All Observations Facing *Downstream***

**Location of Outfall:**  Right Bank  Left Bank Mark and label the location of the outfall on the map and provide a brief description of the location of the outfall relative to roads or other landmarks.

SEE ATTACHED MAP. OUTFALLS LOCATED RT BANK B/W DERBY AVE + CHAPEL ST @ THE BASE OF THE YALE TENNIS CENTER. BELOW MHT (SEE BACK)

<b>Outfall Type:</b>	<input checked="" type="checkbox"/> Pipe	<input type="checkbox"/> Leak Off	<input type="checkbox"/> Channel	
<b>Flow:</b>	None	<input checked="" type="checkbox"/> Trickle	<input type="checkbox"/> Moderate	<input type="checkbox"/> Substantial
<b>Odor:</b>	<input checked="" type="checkbox"/> None	<input type="checkbox"/> Sewage	<input type="checkbox"/> Rancid / Sour	<input type="checkbox"/> Sulfur (rotten eggs)
<b>Deposits / Stains</b>	None	<input type="checkbox"/> Sediment Delta	<input type="checkbox"/> Oily Stain	<input type="checkbox"/> Black <input checked="" type="checkbox"/> Rust (0)
<b>Benthic Growth</b>	<input checked="" type="checkbox"/> None	<input type="checkbox"/> Brown	<input type="checkbox"/> Green	<input type="checkbox"/> Orange

**Pipe Data: Provide all relevant data.**

<b>Pipe Material:</b>	<input checked="" type="checkbox"/> Concrete	<input type="checkbox"/> Corrugated Metal	<input type="checkbox"/> Plastic	<input checked="" type="checkbox"/> Other Metal (ik)
<b>Contributing Source(s):</b>	<input type="checkbox"/> Road	<input type="checkbox"/> Parking Lot	<input checked="" type="checkbox"/> Other	<input type="checkbox"/> Unknown
<b>Pipe Outlet:</b>	<input checked="" type="checkbox"/> Perched..... 1/2 ft.	<input type="checkbox"/> Ramped	<input type="checkbox"/> At Stream Level	
<b>Pipe Size:</b>	Diameter: 6"			
<b># of Pipes:</b>	<input type="checkbox"/> 1	<input checked="" type="checkbox"/> 2	<input type="checkbox"/> 3 +	

**Leak-Off Data: Provide all relevant data.**

<b>Leak-Off Swale:</b>	<input type="checkbox"/> Concrete	<input type="checkbox"/> Asphalt	<input type="checkbox"/> Stone	<input type="checkbox"/> Earthen
<b>Contributing Source (s):</b>	<input type="checkbox"/> Road	<input type="checkbox"/> Parking Lot	<input type="checkbox"/> Recreational Field	<input type="checkbox"/> Other
<b>Length of Swale:</b>	ft.			
<b>Width of Swale:</b>	ft.			

**Channel Data: Provide all relevant data.**

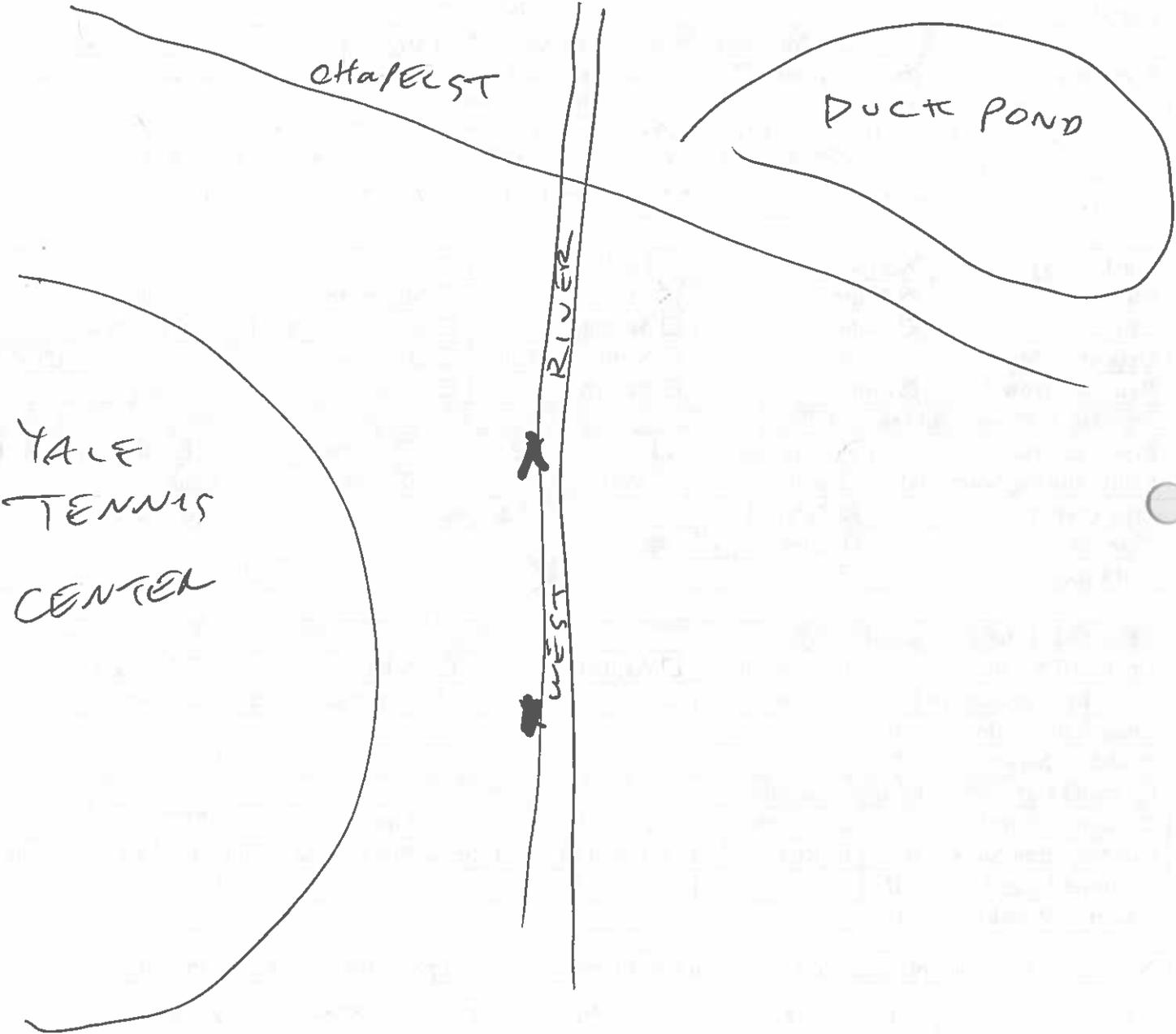
<b>Channel Material:</b>	<input type="checkbox"/> Concrete	<input type="checkbox"/> Asphalt	<input type="checkbox"/> Stone	<input type="checkbox"/> Earthen
<b>Contributing Source (s):</b>	<input type="checkbox"/> Road	<input type="checkbox"/> Parking Lot	<input type="checkbox"/> Recreational Field	<input type="checkbox"/> Other <input type="checkbox"/> Unknown
<b>Channel Length:</b>	ft.			
<b>Channel Width:</b>	ft.			

**Notes: Use the space provided to record important observations otherwise not captures on this sheet.**

PIPES PERCHED @ LOW TIDE - BUT ARE BELOW MEAN HIGH TIDE LINE + PROTRUDE FROM BANK BOTH PIPES ARE TRICKLING - BUT UNCLEAR IF RESULT OF SUBMERGED CONDITION DURING LOW TIDE. - ONE OF THE TWO PIPES HAS RUST COLORED DISCOLORATION AROUND THE BASE OF THE PIPE - POSSIBLY DUE TO PIPE MATERIAL.

**CT - NRCS  
Stream Assessment Worksheet**

Storm Water Outfall



**CT - NRCS  
Stream Assessment Worksheet**

Storm Water Outfall

Survey Basin Code:	Date: 8/23/2015
Name of Stream: WEST RIVER	Assessed By: KENDALL B + WILL
Reach Code: LWS	
Designated Stream Type:	Sheet 2 of 11
Site ID:	

**Make All Observations Facing *Downstream***

**Location of Outfall:**  Right Bank  Left Bank Mark and label the location of the outfall on the map and provide a brief description of the location of the outfall relative to roads or other landmarks. DUPLICATE

<b>Outfall Type:</b>	<input checked="" type="checkbox"/> Pipe	<input type="checkbox"/> Leak Off	<input type="checkbox"/> Channel	
<b>Flow:</b>	<input type="checkbox"/> None	<input type="checkbox"/> Trickle	<input checked="" type="checkbox"/> Moderate	<input type="checkbox"/> Substantial
<b>Odor:</b>	<input checked="" type="checkbox"/> None	<input type="checkbox"/> Sewage	<input type="checkbox"/> Rancid / Sour	<input type="checkbox"/> Sulfur (rotten eggs)
<b>Deposits / Stains</b>	<input type="checkbox"/> None	<input checked="" type="checkbox"/> Sediment Delta	<input type="checkbox"/> Oily Stain	<input type="checkbox"/> Black
<b>Benthic Growth</b>	<input checked="" type="checkbox"/> None	<input type="checkbox"/> Brown	<input type="checkbox"/> Green	<input type="checkbox"/> Orange

**Pipe Data:** Provide all relevant data.

<b>Pipe Material:</b>	<input checked="" type="checkbox"/> Concrete	<input type="checkbox"/> Corrugated Metal	<input type="checkbox"/> Plastic	<input type="checkbox"/> Other
<b>Contributing Source(s):</b>	<input checked="" type="checkbox"/> Road	<input type="checkbox"/> Parking Lot	<input type="checkbox"/> Other	<input checked="" type="checkbox"/> Unknown
<b>Pipe Outlet:</b>	<input checked="" type="checkbox"/> Perched.....	1 ft.	<input type="checkbox"/> Ramped	<input type="checkbox"/> At Stream Level
<b>Pipe Size:</b>	Diameter: 1.5 ft.		+ 5'	
<b># of Pipes:</b>	<input type="checkbox"/> 1	<input checked="" type="checkbox"/> 2		<input type="checkbox"/> 3 +

**Leak-Off Data:** Provide all relevant data.

<b>Leak-Off Swale:</b>	<input type="checkbox"/> Concrete	<input type="checkbox"/> Asphalt	<input type="checkbox"/> Stone	<input type="checkbox"/> Earthen
<b>Contributing Source (s):</b>	<input type="checkbox"/> Road	<input type="checkbox"/> Parking Lot	<input type="checkbox"/> Recreational Field	<input type="checkbox"/> Other
<b>Length of Swale:</b>	ft.			
<b>Width of Swale:</b>	ft.			

**Channel Data:** Provide all relevant data.

<b>Channel Material:</b>	<input type="checkbox"/> Concrete	<input type="checkbox"/> Asphalt	<input type="checkbox"/> Stone	<input type="checkbox"/> Earthen
<b>Contributing Source (s):</b>	<input type="checkbox"/> Road	<input type="checkbox"/> Parking Lot	<input type="checkbox"/> Recreational Field	<input type="checkbox"/> Other <input type="checkbox"/> Unknown
<b>Channel Length:</b>	ft.			
<b>Channel Width:</b>	ft.			

**Notes:** Use the space provided to record important observations otherwise not captures on this sheet.

ONE PIPE DOWNSTREAM OF CHAPEL ST BRIDGE @ ~ 1.5' ABOVE LOW TIDE LEVEL - LIKELY PARTIALLY SUBMERGED DURING ~~LOW~~ MEAN HIGH TIDE.  
2<sup>ND</sup> PIPE BENEATH BRIDGE ABUTMENT - THERE ~~IS ALWAYS~~ DRY WEATHER DISCHARGE FROM THIS PIPE - LOCATED ABOUT 4-5' ABOVE LOW TIDE -

**CT - NRCS  
Stream Assessment Worksheet**

Storm Water Outfall

Survey Basin Code:	Date: 8/23/2005
Name of Stream: <del>CWS</del> WEST RIVER	Assessed By: KENNETH B + WILL
Reach Code: LW5	
Designated Stream Type:	Sheet 3 of 11
Site ID:	

**Make All Observations Facing Downstream**

**Location of Outfall:**  Right Bank  Left Bank Mark and label the location of the outfall on the map and provide a brief description of the location of the outfall relative to roads or other landmarks.

DOWNSTREAM OF  
EDGEWOOD AVE  
BRIDGE.

<b>Outfall Type:</b>	<input checked="" type="checkbox"/> Pipe	<input type="checkbox"/> Leak Off	<input type="checkbox"/> Channel	
<b>Flow:</b>	<input checked="" type="checkbox"/> None	<input type="checkbox"/> Trickle	<input type="checkbox"/> Moderate	<input type="checkbox"/> Substantial
<b>Odor:</b>	<input checked="" type="checkbox"/> None	<input type="checkbox"/> Sewage	<input type="checkbox"/> Rancid / Sour	<input type="checkbox"/> Sulfur (rotten eggs)
<b>Deposits / Stains</b>	<input checked="" type="checkbox"/> None	<input type="checkbox"/> Sediment Delta	<input type="checkbox"/> Oily Stain	<input type="checkbox"/> Black
<b>Benthic Growth</b>	<input checked="" type="checkbox"/> None	<input type="checkbox"/> Brown	<input type="checkbox"/> Green	<input type="checkbox"/> Orange

**Pipe Data:** Provide all relevant data.

<b>Pipe Material:</b>	<input checked="" type="checkbox"/> Concrete	<input type="checkbox"/> Corrugated Metal	<input type="checkbox"/> Plastic	<input type="checkbox"/> Other
<b>Contributing Source(s):</b>	<input type="checkbox"/> Road	<input type="checkbox"/> Parking Lot	<input checked="" type="checkbox"/> Other	<input checked="" type="checkbox"/> Unknown
<b>Pipe Outlet:</b>	<input type="checkbox"/> Perched..... ft.	<input type="checkbox"/> Ramped	<input checked="" type="checkbox"/> At Stream Level / <i>submerge</i>	
<b>Pipe Size:</b>	Diameter: ( ft.			
<b># of Pipes:</b>	<input checked="" type="checkbox"/> 1	<input type="checkbox"/> 2	<input type="checkbox"/> 3 +	

**Leak-Off Data:** Provide all relevant data.

<b>Leak-Off Swale:</b>	<input type="checkbox"/> Concrete	<input type="checkbox"/> Asphalt	<input type="checkbox"/> Stone	<input type="checkbox"/> Earthen
<b>Contributing Source (s):</b>	<input type="checkbox"/> Road	<input type="checkbox"/> Parking Lot	<input type="checkbox"/> Recreational Field	<input type="checkbox"/> Other
<b>Length of Swale:</b>	ft.			
<b>Width of Swale:</b>	ft.			

**Channel Data:** Provide all relevant data.

<b>Channel Material:</b>	<input type="checkbox"/> Concrete	<input type="checkbox"/> Asphalt	<input type="checkbox"/> Stone	<input type="checkbox"/> Earthen	
<b>Contributing Source (s):</b>	<input type="checkbox"/> Road	<input type="checkbox"/> Parking Lot	<input type="checkbox"/> Recreational Field	<input type="checkbox"/> Other	<input type="checkbox"/> Unknown
<b>Channel Length:</b>	ft.				
<b>Channel Width:</b>	ft.				

**Notes:** Use the space provided to record important observations otherwise not captures on this sheet.

PIPE BROKEN + PIECES IN CHANNEL -  
PIPE 1 - 2 FEET BELOW ACTIVE CHANNEL/  
BANK HEIGHT / MHT LEVEL. PIPE 1/2 SUBMERGED  
@ LOW TIDE.

**CT - NRCS  
Stream Assessment Worksheet**

Storm Water Outfall

Survey Basin Code:	Date: 8/23/2015
Name of Stream: WEST RIVER	Assessed By: KENNETH B + WILL
Reach Code: LW5	
Designated Stream Type:	Sheet 4 of 11
Site ID:	

**Make All Observations Facing Downstream**

**Location of Outfall:**  Right Bank  Left Bank Mark and label the location of the outfall on the map and provide a brief description of the location of the outfall relative to roads or other landmarks.

2 SMALL OUTFALLS JUST ABOVE STREAM LEVEL BENEATH ABUTMENT FOR EDGEWOOD AVE BRIDGE

<b>Outfall Type:</b>	<input checked="" type="checkbox"/> Pipe	<input type="checkbox"/> Leak Off	<input type="checkbox"/> Channel	
<b>Flow:</b>	<input checked="" type="checkbox"/> None	<input type="checkbox"/> Trickle	<input type="checkbox"/> Moderate	<input type="checkbox"/> Substantial
<b>Odor:</b>	<input checked="" type="checkbox"/> None	<input type="checkbox"/> Sewage	<input type="checkbox"/> Rancid / Sour	<input type="checkbox"/> Sulfur (rotten eggs)
<b>Deposits / Stains</b>	<input checked="" type="checkbox"/> None	<input type="checkbox"/> Sediment Delta	<input type="checkbox"/> Oily Stain	<input type="checkbox"/> Black
<b>Benthic Growth</b>	<input checked="" type="checkbox"/> None	<input type="checkbox"/> Brown	<input type="checkbox"/> Green	<input type="checkbox"/> Orange

**Pipe Data:** Provide all relevant data.

<b>Pipe Material:</b>	<input checked="" type="checkbox"/> Concrete	<input type="checkbox"/> Corrugated Metal	<input type="checkbox"/> Plastic	<input type="checkbox"/> Other
<b>Contributing Source(s):</b>	<input checked="" type="checkbox"/> Road	<input type="checkbox"/> Parking Lot	<input type="checkbox"/> Other	<input checked="" type="checkbox"/> Unknown
<b>Pipe Outlet:</b>	<input type="checkbox"/> Perched..... ft.	<input type="checkbox"/> Ramped	<input checked="" type="checkbox"/> At Stream Level	
<b>Pipe Size:</b>	Diameter: 1/2 ft.			
<b># of Pipes:</b>	<input type="checkbox"/> 1	<input checked="" type="checkbox"/> 2	<input type="checkbox"/> 3 +	

**Leak-Off Data:** Provide all relevant data.

<b>Leak-Off Swale:</b>	<input type="checkbox"/> Concrete	<input type="checkbox"/> Asphalt	<input type="checkbox"/> Stone	<input type="checkbox"/> Earthen
<b>Contributing Source (s):</b>	<input type="checkbox"/> Road	<input type="checkbox"/> Parking Lot	<input type="checkbox"/> Recreational Field	<input type="checkbox"/> Other
<b>Length of Swale:</b>	ft.			
<b>Width of Swale:</b>	ft.			

**Channel Data:** Provide all relevant data.

<b>Channel Material:</b>	<input type="checkbox"/> Concrete	<input type="checkbox"/> Asphalt	<input type="checkbox"/> Stone	<input type="checkbox"/> Earthen	
<b>Contributing Source (s):</b>	<input type="checkbox"/> Road	<input type="checkbox"/> Parking Lot	<input type="checkbox"/> Recreational Field	<input type="checkbox"/> Other	<input type="checkbox"/> Unknown
<b>Channel Length:</b>	ft.				
<b>Channel Width:</b>	ft.				

**Notes:** Use the space provided to record important observations otherwise not captures on this sheet.

**CT - NRCS  
Stream Assessment Worksheet**

Storm Water Outfall

Survey Basin Code:	Date: 8/13/2015
Name of Stream: WEST RIVER	Assessed By: KENDALL B TWILL
Reach Code: LWS	
Designated Stream Type:	Sheet 5 of 11
Site ID:	

**Make All Observations Facing Downstream**

**Location of Outfall:**  Right Bank  Left Bank Mark and label the location of the outfall on the map and provide a brief description of the location of the outfall relative to roads or other landmarks.

<b>Outfall Type:</b>	<input checked="" type="checkbox"/> Pipe	<input type="checkbox"/> Leak Off	<input type="checkbox"/> Channel	
<b>Flow:</b>	<input checked="" type="checkbox"/> None	<input type="checkbox"/> Trickle	<input type="checkbox"/> Moderate	<input type="checkbox"/> Substantial
<b>Odor:</b>	<input checked="" type="checkbox"/> None	<input type="checkbox"/> Sewage	<input type="checkbox"/> Rancid / Sour	<input type="checkbox"/> Sulfur (rotten eggs)
<b>Deposits / Stains</b>	<input checked="" type="checkbox"/> None	<input type="checkbox"/> Sediment Delta	<input type="checkbox"/> Oily Stain	<input type="checkbox"/> Black
<b>Benthic Growth</b>	<input checked="" type="checkbox"/> None	<input type="checkbox"/> Brown	<input type="checkbox"/> Green	<input type="checkbox"/> Orange

**Pipe Data: Provide all relevant data.**

<b>Pipe Material:</b>	<input checked="" type="checkbox"/> Concrete	<input type="checkbox"/> Corrugated Metal	<input type="checkbox"/> Plastic	<input type="checkbox"/> Other
<b>Contributing Source(s):</b>	<input checked="" type="checkbox"/> Road	<input type="checkbox"/> Parking Lot	<input type="checkbox"/> Other	<input checked="" type="checkbox"/> Unknown
<b>Pipe Outlet:</b>	<input checked="" type="checkbox"/> Perched..... 3 ft.	<input type="checkbox"/> Ramped	<input type="checkbox"/> At Stream Level	
<b>Pipe Size:</b>	Diameter: 1 ft.			
<b># of Pipes:</b>	<input checked="" type="checkbox"/> 1	<input type="checkbox"/> 2	<input type="checkbox"/> 3 +	

**Leak-Off Data: Provide all relevant data.**

<b>Leak-Off Swale:</b>	<input type="checkbox"/> Concrete	<input type="checkbox"/> Asphalt	<input type="checkbox"/> Stone	<input type="checkbox"/> Earthen
<b>Contributing Source (s):</b>	<input type="checkbox"/> Road	<input type="checkbox"/> Parking Lot	<input type="checkbox"/> Recreational Field	<input type="checkbox"/> Other
<b>Length of Swale:</b> ft.				
<b>Width of Swale:</b> ft.				

**Channel Data: Provide all relevant data.**

<b>Channel Material:</b>	<input type="checkbox"/> Concrete	<input type="checkbox"/> Asphalt	<input type="checkbox"/> Stone	<input type="checkbox"/> Earthen	
<b>Contributing Source (s):</b>	<input type="checkbox"/> Road	<input type="checkbox"/> Parking Lot	<input type="checkbox"/> Recreational Field	<input type="checkbox"/> Other	<input type="checkbox"/> Unknown
<b>Channel Length:</b> ft.					
<b>Channel Width:</b> ft.					

**Notes:** Use the space provided to record important observations otherwise not captures on this sheet.

**CT - NRCS  
Stream Assessment Worksheet**

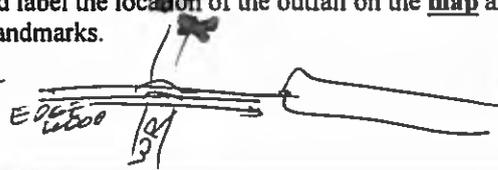
Storm Water Outfall

Survey Basin Code:	Date: 8/23/2015
Name of Stream: WEST RIVER	Assessed By: KENNETH B + WILL
Reach Code: LWS	
Designated Stream Type:	Sheet 6 of 11
Site ID:	

**Make All Observations Facing *Downstream***

**Location of Outfall:**  Right Bank  Left Bank Mark and label the location of the outfall on the map and provide a brief description of the location of the outfall relative to roads or other landmarks.

North of Edgewood Ave Bridge -  
- one on each Bank



<b>Outfall Type:</b>	<input checked="" type="checkbox"/> Pipe	<input type="checkbox"/> Leak Off	<input type="checkbox"/> Channel	
<b>Flow:</b>	<input checked="" type="checkbox"/> None	<input type="checkbox"/> Trickle	<input type="checkbox"/> Moderate	<input type="checkbox"/> Substantial
<b>Odor:</b>	<input checked="" type="checkbox"/> None	<input type="checkbox"/> Sewage	<input type="checkbox"/> Rancid / Sour	<input type="checkbox"/> Sulfur (rotten eggs)
<b>Deposits / Stains</b>	<input checked="" type="checkbox"/> None	<input type="checkbox"/> Sediment Delta	<input type="checkbox"/> Oily Stain	<input type="checkbox"/> Black
<b>Benthic Growth</b>	<input checked="" type="checkbox"/> None	<input type="checkbox"/> Brown	<input type="checkbox"/> Green	<input type="checkbox"/> Orange

**Pipe Data: Provide all relevant data.**

<b>Pipe Material:</b>	<input checked="" type="checkbox"/> Concrete	<input type="checkbox"/> Corrugated Metal	<input type="checkbox"/> Plastic	<input checked="" type="checkbox"/> Other <i>POSSIBLY METAL</i>
<b>Contributing Source(s):</b>	<input type="checkbox"/> Road	<input type="checkbox"/> Parking Lot	<input type="checkbox"/> Other	<input checked="" type="checkbox"/> Unknown
<b>Pipe Outlet:</b>	<input checked="" type="checkbox"/> Perched..... 2 ft.	<input type="checkbox"/> Ramped	<input checked="" type="checkbox"/> At Stream Level	
<b>Pipe Size:</b>	Diameter: 1/2 ft.			
<b># of Pipes:</b>	<input checked="" type="checkbox"/> 1	<input checked="" type="checkbox"/> 2	<input type="checkbox"/> 3 +	

**Leak-Off Data: Provide all relevant data.**

<b>Leak-Off Swale:</b>	<input type="checkbox"/> Concrete	<input type="checkbox"/> Asphalt	<input type="checkbox"/> Stone	<input type="checkbox"/> Earthen
<b>Contributing Source (s):</b>	<input type="checkbox"/> Road	<input type="checkbox"/> Parking Lot	<input type="checkbox"/> Recreational Field	<input type="checkbox"/> Other
<b>Length of Swale:</b>	ft.			
<b>Width of Swale:</b>	ft.			

**Channel Data: Provide all relevant data.**

<b>Channel Material:</b>	<input type="checkbox"/> Concrete	<input type="checkbox"/> Asphalt	<input type="checkbox"/> Stone	<input type="checkbox"/> Earthen	
<b>Contributing Source (s):</b>	<input type="checkbox"/> Road	<input type="checkbox"/> Parking Lot	<input type="checkbox"/> Recreational Field	<input type="checkbox"/> Other	<input type="checkbox"/> Unknown
<b>Channel Length:</b>	ft.				
<b>Channel Width:</b>	ft.				

**Notes:** Use the space provided to record important observations otherwise not captures on this sheet.

L. Bank BELOW MEAN HIGH TIDE LEVEL - TOP OF BANK HEIGHT PROTRUDING FROM BANK. 1-2' ABOVE LOW TIDE LEVEL. NO FLOWS OBSERVED.

R. Bank - Partially submerged @ stream level during low tide. Partially filled w/ sediments.

**CT - NRCS  
Stream Assessment Worksheet**

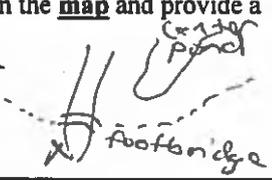
Storm Water Outfall

Survey Basin Code:	Date: 8/23/2015
Name of Stream: WEST RIVER	Assessed By: KENDALL B + WILL
Reach Code: LWS	
Designated Stream Type:	Sheet 7 of 11
Site ID:	

**Make All Observations Facing Downstream**

**Location of Outfall:**  Right Bank  Left Bank Mark and label the location of the outfall on the map and provide a brief description of the location of the outfall relative to roads or other landmarks.

Downstream of Footbridge - Bridge Abutment



<b>Outfall Type:</b>	<input checked="" type="checkbox"/> Pipe	<input type="checkbox"/> Leak Off	<input type="checkbox"/> Channel	
<b>Flow:</b>	<input type="checkbox"/> None	<input checked="" type="checkbox"/> Trickle	<input type="checkbox"/> Moderate	<input type="checkbox"/> Substantial
<b>Odor:</b>	<input checked="" type="checkbox"/> None	<input type="checkbox"/> Sewage	<input type="checkbox"/> Rancid / Sour	<input type="checkbox"/> Sulfur (rotten eggs)
<b>Deposits / Stains</b>	<input checked="" type="checkbox"/> None	<input type="checkbox"/> Sediment Delta	<input type="checkbox"/> Oily Stain	<input type="checkbox"/> Black
<b>Benthic Growth</b>	<input checked="" type="checkbox"/> None	<input type="checkbox"/> Brown	<input type="checkbox"/> Green	<input type="checkbox"/> Orange

**Pipe Data: Provide all relevant data.**

<b>Pipe Material:</b>	<input checked="" type="checkbox"/> Concrete	<input type="checkbox"/> Corrugated Metal	<input type="checkbox"/> Plastic	<input type="checkbox"/> Other
<b>Contributing Source(s):</b>	<input type="checkbox"/> Road	<input type="checkbox"/> Parking Lot	<input checked="" type="checkbox"/> Other	<input type="checkbox"/> Unknown
<b>Pipe Outlet:</b>	<input checked="" type="checkbox"/> Perched..... 1 ft.	<input type="checkbox"/> Ramped	<input type="checkbox"/> At Stream Level	
<b>Pipe Size:</b>	Diameter: 1 ft.			
<b># of Pipes:</b>	<input checked="" type="checkbox"/> 1	<input type="checkbox"/> 2	<input type="checkbox"/> 3 +	

**Leak-Off Data: Provide all relevant data.**

<b>Leak-Off Swale:</b>	<input type="checkbox"/> Concrete	<input type="checkbox"/> Asphalt	<input type="checkbox"/> Stone	<input type="checkbox"/> Earthen
<b>Contributing Source (s):</b>	<input type="checkbox"/> Road	<input type="checkbox"/> Parking Lot	<input type="checkbox"/> Recreational Field	<input type="checkbox"/> Other
<b>Length of Swale:</b> ft.				
<b>Width of Swale:</b> ft.				

**Channel Data: Provide all relevant data.**

<b>Channel Material:</b>	<input type="checkbox"/> Concrete	<input type="checkbox"/> Asphalt	<input type="checkbox"/> Stone	<input type="checkbox"/> Earthen
<b>Contributing Source (s):</b>	<input type="checkbox"/> Road	<input type="checkbox"/> Parking Lot	<input type="checkbox"/> Recreational Field	<input type="checkbox"/> Other <input type="checkbox"/> Unknown
<b>Channel Length:</b> ft.				
<b>Channel Width:</b> ft.				

**Notes:** Use the space provided to record important observations otherwise not captures on this sheet.

**CT - NRCS  
Stream Assessment Worksheet**

Storm Water Outfall

Survey Basin Code:	Date: 8/23/2015
Name of Stream: WEST RIVER	Assessed By: KENNETH B TWILL
Reach Code: LW5	
Designated Stream Type:	Sheet 8 of 11
Site ID:	

**Make All Observations Facing Downstream**

**Location of Outfall:**  Right Bank     Left Bank    Mark and label the location of the outfall on the map and provide a brief description of the location of the outfall relative to roads or other landmarks.

north/upstream of foot bridge  
midway through Edgewood Park.

<b>Outfall Type:</b>	<input checked="" type="checkbox"/> Pipe	<input type="checkbox"/> Leak Off	<input type="checkbox"/> Channel	
<b>Flow:</b>	<input checked="" type="checkbox"/> None	<input type="checkbox"/> Trickle	<input type="checkbox"/> Moderate	<input type="checkbox"/> Substantial
<b>Odor:</b>	<input checked="" type="checkbox"/> None	<input type="checkbox"/> Sewage	<input type="checkbox"/> Rancid / Sour	<input type="checkbox"/> Sulfur (rotten eggs)
<b>Deposits / Stains</b>	<input checked="" type="checkbox"/> None	<input type="checkbox"/> Sediment Delta	<input type="checkbox"/> Oily Stain	<input type="checkbox"/> Black
<b>Benthic Growth</b>	<input checked="" type="checkbox"/> None	<input type="checkbox"/> Brown	<input checked="" type="checkbox"/> Green	<input type="checkbox"/> Orange

**Pipe Data:** Provide all relevant data.

<b>Pipe Material:</b>	<input type="checkbox"/> Concrete	<input checked="" type="checkbox"/> Corrugated Metal	<input type="checkbox"/> Plastic	<input checked="" type="checkbox"/> Other
<b>Contributing Source(s):</b>	<input type="checkbox"/> Road	<input type="checkbox"/> Parking Lot	<input type="checkbox"/> Other	<input checked="" type="checkbox"/> Unknown
<b>Pipe Outlet:</b>	<input type="checkbox"/> Perched..... ft.	<input type="checkbox"/> Ramped	<input checked="" type="checkbox"/> At Stream Level	
<b>Pipe Size:</b>	Diameter: 18" 24"			
<b># of Pipes:</b>	<input checked="" type="checkbox"/> 1	<input type="checkbox"/> 2	<input type="checkbox"/> 3 +	

**Leak-Off Data:** Provide all relevant data.

<b>Leak-Off Swale:</b>	<input type="checkbox"/> Concrete	<input type="checkbox"/> Asphalt	<input type="checkbox"/> Stone	<input type="checkbox"/> Earthen
<b>Contributing Source (s):</b>	<input type="checkbox"/> Road	<input type="checkbox"/> Parking Lot	<input type="checkbox"/> Recreational Field	<input type="checkbox"/> Other
<b>Length of Swale:</b> ft.				
<b>Width of Swale:</b> ft.				

**Channel Data:** Provide all relevant data.

<b>Channel Material:</b>	<input type="checkbox"/> Concrete	<input type="checkbox"/> Asphalt	<input type="checkbox"/> Stone	<input type="checkbox"/> Earthen	
<b>Contributing Source (s):</b>	<input type="checkbox"/> Road	<input type="checkbox"/> Parking Lot	<input type="checkbox"/> Recreational Field	<input type="checkbox"/> Other	<input type="checkbox"/> Unknown
<b>Channel Length:</b> ft.					
<b>Channel Width:</b> ft.					

**Notes:** Use the space provided to record important observations otherwise not captures on this sheet.

Partially submerged + filled w/ sediment @ low water.

**CT - NRCS  
Stream Assessment Worksheet**

Storm Water Outfall

Survey Basin Code:	Date: 8/23/2015
Name of Stream: WEST RIVER	Assessed By: KEVIN B TWILL
Reach Code: LW5	
Designated Stream Type:	Sheet 9 of 11
Site ID:	

**Make All Observations Facing *Downstream***

**Location of Outfall:**  Right Bank  Left Bank Mark and label the location of the outfall on the map and provide a brief description of the location of the outfall relative to roads or other landmarks.

*A leak off + a broken pipe on Left Bank approximately across from "Center Pond" - Camera out of Batteries - No pictures*

<b>Outfall Type:</b>	<input checked="" type="checkbox"/> Pipe	<input checked="" type="checkbox"/> Leak Off	<input type="checkbox"/> Channel	
<b>Flow:</b>	<input checked="" type="checkbox"/> None	<input type="checkbox"/> Trickle	<input type="checkbox"/> Moderate	<input type="checkbox"/> Substantial
<b>Odor:</b>	<input checked="" type="checkbox"/> None	<input type="checkbox"/> Sewage	<input type="checkbox"/> Rancid / Sour	<input type="checkbox"/> Sulfur (rotten eggs)
<b>Deposits / Stains</b>	<input checked="" type="checkbox"/> None	<input type="checkbox"/> Sediment Delta	<input type="checkbox"/> Oily Stain	<input type="checkbox"/> Black
<b>Benthic Growth</b>	<input checked="" type="checkbox"/> None	<input type="checkbox"/> Brown	<input type="checkbox"/> Green	<input type="checkbox"/> Orange

**Pipe Data:** Provide all relevant data.

<b>Pipe Material:</b>	<input checked="" type="checkbox"/> Concrete	<input type="checkbox"/> Corrugated Metal	<input type="checkbox"/> Plastic	<input type="checkbox"/> Other
<b>Contributing Source(s):</b>	<input type="checkbox"/> Road	<input type="checkbox"/> Parking Lot	<input type="checkbox"/> Other	<input checked="" type="checkbox"/> Unknown
<b>Pipe Outlet:</b>	<input type="checkbox"/> Perched..... ft.	<input type="checkbox"/> Ramped	<input type="checkbox"/> At Stream Level	
<b>Pipe Size:</b>	Diameter: ft.			
<b># of Pipes:</b>	<input type="checkbox"/> 1	<input checked="" type="checkbox"/> 2	<input type="checkbox"/> 3 +	

**Leak-Off Data:** Provide all relevant data.

<b>Leak-Off Swale:</b>	<input type="checkbox"/> Concrete	<input type="checkbox"/> Asphalt	<input checked="" type="checkbox"/> Stone	<input type="checkbox"/> Earthen
<b>Contributing Source (s):</b>	<input type="checkbox"/> Road	<input type="checkbox"/> Parking Lot	<input type="checkbox"/> Recreational Field	<input type="checkbox"/> Other
<b>Length of Swale:</b> +50 ft.	<i>estimated</i>			
<b>Width of Swale:</b> 5-8 ft.	<i>estimated</i>			

**Channel Data:** Provide all relevant data.

<b>Channel Material:</b>	<input type="checkbox"/> Concrete	<input type="checkbox"/> Asphalt	<input type="checkbox"/> Stone	<input type="checkbox"/> Earthen	
<b>Contributing Source (s):</b>	<input type="checkbox"/> Road	<input type="checkbox"/> Parking Lot	<input type="checkbox"/> Recreational Field	<input type="checkbox"/> Other	<input type="checkbox"/> Unknown
<b>Channel Length:</b> ft.					
<b>Channel Width:</b> ft.					

**Notes:** Use the space provided to record important observations otherwise not captures on this sheet.

**CT - NRCS  
Stream Assessment Worksheet**

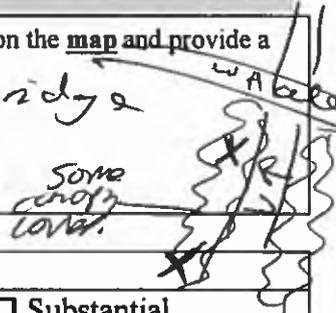
Storm Water Outfall

Survey Basin Code:	Date: 8/23/2015
Name of Stream: WEST RIVER	Assessed By: KENNETH B + WILL
Reach Code: LW5	
Designated Stream Type:	Sheet 10 of 11
Site ID:	

**Make All Observations Facing *Downstream***

**Location of Outfall:**  Right Bank  Left Bank Mark and label the location of the outfall on the map and provide a brief description of the location of the outfall relative to roads or other landmarks.

Just Downstream of Whaley + a Bridge  
Abutment 20ft + 30-50yds.



<b>Outfall Type:</b>	<input checked="" type="checkbox"/> Pipe	<input type="checkbox"/> Leak Off	<input type="checkbox"/> Channel	
<b>Flow:</b>	<input checked="" type="checkbox"/> None	<input type="checkbox"/> Trickle	<input type="checkbox"/> Moderate	<input type="checkbox"/> Substantial
<b>Odor:</b>	<input type="checkbox"/> None	<input checked="" type="checkbox"/> Sewage	<input checked="" type="checkbox"/> Rancid / Sour	<input type="checkbox"/> Sulfur (rotten eggs)
<b>Deposits / Stains</b>	<input type="checkbox"/> None	<input checked="" type="checkbox"/> Sediment Delta	<input type="checkbox"/> Oily Stain	<input type="checkbox"/> Black
<b>Benthic Growth</b>	<input type="checkbox"/> None	<input type="checkbox"/> Brown	<input checked="" type="checkbox"/> Green	<input type="checkbox"/> Orange

**Pipe Data:** Provide all relevant data.

<b>Pipe Material:</b>	<input checked="" type="checkbox"/> Concrete	<input checked="" type="checkbox"/> Corrugated Metal	<input type="checkbox"/> Plastic	<input type="checkbox"/> Other
<b>Contributing Source(s):</b>	<input checked="" type="checkbox"/> Road	<input type="checkbox"/> Parking Lot	<input checked="" type="checkbox"/> Other	<input type="checkbox"/> Unknown
<b>Pipe Outlet:</b>	<input checked="" type="checkbox"/> Perched..... 1/2 ft.	<input type="checkbox"/> Ramped	<input type="checkbox"/> At Stream Level	
<b>Pipe Size:</b>	Diameter: 2 ft.			
<b># of Pipes:</b>	<input type="checkbox"/> 1	<input checked="" type="checkbox"/> 2	<input type="checkbox"/> 3 +	

**Leak-Off Data:** Provide all relevant data.

<b>Leak-Off Swale:</b>	<input type="checkbox"/> Concrete	<input type="checkbox"/> Asphalt	<input type="checkbox"/> Stone	<input type="checkbox"/> Earthen
<b>Contributing Source (s):</b>	<input type="checkbox"/> Road	<input type="checkbox"/> Parking Lot	<input type="checkbox"/> Recreational Field	<input type="checkbox"/> Other
<b>Length of Swale:</b>	ft.			
<b>Width of Swale:</b>	ft.			

**Channel Data:** Provide all relevant data.

<b>Channel Material:</b>	<input type="checkbox"/> Concrete	<input type="checkbox"/> Asphalt	<input type="checkbox"/> Stone	<input type="checkbox"/> Earthen
<b>Contributing Source (s):</b>	<input type="checkbox"/> Road	<input type="checkbox"/> Parking Lot	<input type="checkbox"/> Recreational Field	<input type="checkbox"/> Other <input type="checkbox"/> Unknown
<b>Channel Length:</b>	ft.			
<b>Channel Width:</b>	ft.			

**Notes:** Use the space provided to record important observations otherwise not captures on this sheet.

2 Large stormwater outfall pipes. Northern most is Both concrete + corrugated metal — which is deteriorating. Heavy stormwater flows visible during Rain events, no flows observed @ time of survey.

Large Sediment Delta as well as riprap lead to Bridge abutment. Base of Bridge also concrete — slightly perched w/ minimal flow.

CT - NRCS  
Stream Assessment Worksheet

Storm Water Outfall

water flowing over the Rip Rap + from Whalley  
Ave to the footbridge near Coogan Partition  
VERY Foul smelling. Sewage like.

Green Algae + lots of sediment  
build up in Channel Bottom/Bed.

**CT - NRCS  
Stream Assessment Worksheet**

Storm Water Outfall

Survey Basin Code:	Date: 8/23/2015
Name of Stream: WEST RIVER	Assessed By: KENNETH B + WILLY R
Reach Code: LWS	
Designated Stream Type:	Sheet 01/11
Site ID:	

**Make All Observations Facing Downstream**

**Location of Outfall:**  Right Bank  Left Bank Mark and label the location of the outfall on the map and provide a brief description of the location of the outfall relative to roads or other landmarks.

CSO OUTFALL BENEATH BRIDGE/W/IN A BUTTMENT



<b>Outfall Type:</b>	<input checked="" type="checkbox"/> Pipe	<input type="checkbox"/> Leak Off	<input type="checkbox"/> Channel	
<b>Flow:</b>	<input checked="" type="checkbox"/> None	<input type="checkbox"/> Trickle	<input type="checkbox"/> Moderate	<input type="checkbox"/> Substantial
<b>Odor:</b>	<input type="checkbox"/> None	<input checked="" type="checkbox"/> Sewage	<input checked="" type="checkbox"/> Rancid / Sour	<input type="checkbox"/> Sulfur (rotten eggs)
<b>Deposits / Stains</b>	<input type="checkbox"/> None	<input checked="" type="checkbox"/> Sediment Delta	<input type="checkbox"/> Oily Stain	<input type="checkbox"/> Black
<b>Benthic Growth</b>	<input type="checkbox"/> None	<input type="checkbox"/> Brown	<input checked="" type="checkbox"/> Green	<input type="checkbox"/> Orange

**Pipe Data:** Provide all relevant data.

<b>Pipe Material:</b>	<input checked="" type="checkbox"/> Concrete	<input type="checkbox"/> Corrugated Metal	<input type="checkbox"/> Plastic	<input type="checkbox"/> Other
<b>Contributing Source(s):</b>	<input checked="" type="checkbox"/> Road	<input type="checkbox"/> Parking Lot	<input checked="" type="checkbox"/> Other	<input type="checkbox"/> Unknown
<b>Pipe Outlet:</b>	<input checked="" type="checkbox"/> Perched..... 5 ft.	<input type="checkbox"/> Ramped	<input type="checkbox"/> At Stream Level	
<b>Pipe Size:</b>	Diameter: 2 x 3 ft.			
<b># of Pipes:</b>	<input checked="" type="checkbox"/> 1	<input type="checkbox"/> 2	<input type="checkbox"/> 3 +	

**Leak-Off Data:** Provide all relevant data.

<b>Leak-Off Swale:</b>	<input type="checkbox"/> Concrete	<input type="checkbox"/> Asphalt	<input type="checkbox"/> Stone	<input type="checkbox"/> Earthen
<b>Contributing Source (s):</b>	<input type="checkbox"/> Road	<input type="checkbox"/> Parking Lot	<input type="checkbox"/> Recreational Field	<input type="checkbox"/> Other
<b>Length of Swale:</b>	ft.			
<b>Width of Swale:</b>	ft.			

**Channel Data:** Provide all relevant data.

<b>Channel Material:</b>	<input type="checkbox"/> Concrete	<input type="checkbox"/> Asphalt	<input type="checkbox"/> Stone	<input type="checkbox"/> Earthen	
<b>Contributing Source (s):</b>	<input type="checkbox"/> Road	<input type="checkbox"/> Parking Lot	<input type="checkbox"/> Recreational Field	<input type="checkbox"/> Other	<input type="checkbox"/> Unknown
<b>Channel Length:</b>	ft.				
<b>Channel Width:</b>	ft.				

**Notes:** Use the space provided to record important observations otherwise not captures on this sheet.

CSO outfall. No flows observed.  
Foul smell - see sheet 10 of 11

**CT - NRCS  
Stream Assessment Worksheet**

Modified Channel

Survey Basin Code:	Date: 8/23/15
Name of Stream: WEST RIVER	Assessed By: MORGAN EVANS
Reach Code: LWG	
Designated Stream Type:	
Site ID:	

Make All Observations Facing *Downstream*

**Location / Extent of Modified Channel:** Mark and label the location of the modified channel on the map and provide a brief description of the location of the channel section relative to roads or other landmarks.

MARKED AS (MC<sub>1</sub>) ON MAP. LARGE ROCK RETAINING WALL BEHIND WALGREENS BELOW POND LHM DAM

**Mark where channel modification occurs:**

Meander Bend       Straight Section       Steep Slope/Valley Wall       Other

**Estimate length of channel modification:** 200 ft.

**Estimate height of bank modification:** 6 ft.

<b>Type of Manipulation:</b>	<input type="checkbox"/> Channelization	<input checked="" type="checkbox"/> Bank Armoring	<input type="checkbox"/> Concrete Channel	<input type="checkbox"/> Other
<b>Extent of Manipulation:</b>	<input checked="" type="checkbox"/> Right Bank	<input checked="" type="checkbox"/> Left Bank	<input type="checkbox"/> Channel Bottom	
<b>Channel / Bank Materials:</b>	<input type="checkbox"/> Natural	<input checked="" type="checkbox"/> Rip Rap	<input type="checkbox"/> Concrete	<input type="checkbox"/> Gabions <input type="checkbox"/> Metal

**Immediately Adjacent Land Use:** Mark the land use(s) immediately adjacent to the modified section.

<input type="checkbox"/> Rural Residential	<input type="checkbox"/> Urban Residential	<input checked="" type="checkbox"/> Commercial	<input type="checkbox"/> Forested
<input type="checkbox"/> Suburban Residential	<input type="checkbox"/> Industrial	<input type="checkbox"/> Agricultural	<input type="checkbox"/> Recreational

**Existing Width of Riparian Vegetation:** Mark the average width of riparian vegetation to the modified section.

<input checked="" type="checkbox"/> < 15 ft.	<input type="checkbox"/> 15 - 35 ft.	<input type="checkbox"/> 35 - 50 ft.	<input type="checkbox"/> 50 - 100 ft	<input type="checkbox"/> > 100 ft
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Is there a change in the average width of the active channel?	<input type="checkbox"/> Yes / Estimate Width:      ft	<input checked="" type="checkbox"/> No
Is there evidence of sediment deposition in the channel?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Is the channel connected to a floodplain?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No

**Notes:** Use the space provided to record important observations otherwise not captures on this sheet.

COBBLE INSIDE CHAINS TO CREATE BLOCKS USED TO PROTECT WALL FROM EROSION.

CT - NRCS  
Stream Assessment Worksheet

Modified Channel

Survey Basin Code:	Date: 8/23/15
Name of Stream: WEST RIVER	Assessed By: MORGAN EVANS
Reach Code: LWO	
Designated Stream Type:	
Site ID:	

Make All Observations Facing *Downstream*

**Location / Extent of Modified Channel:** Mark and label the location of the modified channel on the map and provide a brief description of the location of the channel section relative to roads or other landmarks.

UPSTREAM FROM 1<sup>ST</sup> BRIDGE BELOW DAM. 7-11 IS CLOSEST BUILDING OFF OF STREAM ON THAT SIDE. MARKED AS (M.C.2) BRIDGE IS RAMSDALE AVE.

**Mark where channel modification occurs:**

Meander Bend       Straight Section       Steep Slope/Valley Wall       Other

**Estimate length of channel modification:** 100 ft.

**Estimate height of bank modification:** 6 ft.

**Type of Manipulation:**       Channelization       Bank Armoring       Concrete Channel       Other

**Extent of Manipulation:**       Right Bank       Left Bank       Channel Bottom

**Channel / Bank Materials:**       Natural       Rip Rap       Concrete       Gabions       Metal

**Immediately Adjacent Land Use:** Mark the land use(s) immediately adjacent to the modified section.

Rural Residential       Urban Residential       Commercial       Forested

Suburban Residential       Industrial       Agricultural       Recreational

**Existing Width of Riparian Vegetation:** Mark the average width of riparian vegetation to the modified section.

< 15 ft.       15 - 35 ft.       35 - 50 ft.       50 - 100 ft.       > 100 ft.

Is there a change in the average width of the active channel?       Yes / Estimate Width:      ft       No

Is there evidence of sediment deposition in the channel?       Yes       No

Is the channel connected to a floodplain?       Yes       No

**Notes:** Use the space provided to record important observations otherwise not captures on this sheet.

CONCRETE STONE WALL BUILD AS EROSION BARRIER.

**CT - NRCS  
Stream Assessment Worksheet**

Fish Barrier

Survey Basin Code:	Date: 8/23/15
Name of Stream: WEST RIVER	Assessed By: MORGAN EVANS
Reach Code: L166	
Designated Stream Type:	
Site ID:	

Make All Observations Facing *Downstream*

**Location of Barrier:** Mark and label the location of the barrier on the map and provide a brief description of the location of the barrier relative to roads or other landmarks.

POND LILY DAM MARKED AS (B) ON MAP.

**Type of Barrier:** Mark the type of fish barrier.

<input checked="" type="checkbox"/> Dam	<input type="checkbox"/> Culvert	<input type="checkbox"/> Velocity Barrier	<input type="checkbox"/> Other
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**Dam Data:** Provide all relevant data.

<b>Height of Dam:</b> 7 ft.	<b>Length of Spillway:</b> 60 ft.	<b>Shape of Spillway:</b> <input checked="" type="checkbox"/> Straight <input type="checkbox"/> Crescent
<b>Materials:</b> <input type="checkbox"/> Stone <input type="checkbox"/> Concrete <input checked="" type="checkbox"/> Stone & Concrete <input type="checkbox"/> Timber-Crib <input type="checkbox"/> Other	<b>Is there other infrastructure associated with the Dam?</b> <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes (If yes mark the type below)	
<input type="checkbox"/> Factory <input type="checkbox"/> Hydro Facility <input type="checkbox"/> Mill <input type="checkbox"/> Residence <input type="checkbox"/> Other		

**Culvert Data:** Provide all relevant data.

<b>Type of Culvert:</b>	<input type="checkbox"/> Box <input type="checkbox"/> Pipe <input type="checkbox"/> Pipe-Arch <input type="checkbox"/> Arch
<b>Culvert Material:</b>	<input type="checkbox"/> Concrete <input type="checkbox"/> Corrugated Metal <input type="checkbox"/> Plastic <input type="checkbox"/> Stone
<b>Culvert Outlet:</b>	<input type="checkbox"/> Perched:..... ft. <input type="checkbox"/> Ramped <input type="checkbox"/> Submerged
<b>Culvert Size:</b>	Diameter: ft. Height: ft. Width: ft.
<b># of Culverts:</b>	<b>Culvert Length:</b> ft.

**Velocity Barrier Data:** Provide all relevant data.

<b>Nature of Barrier:</b>	<input type="checkbox"/> Grade Control Sill <input type="checkbox"/> Concrete Apron <input type="checkbox"/> Channel Cross-Section <input type="checkbox"/> Other
<b>Length of Barrier:</b> ft.	<b>Approx. Vertical Rise:</b> ft.

**Notes:** Use the space provided to record important observations otherwise not captured on this sheet.



**CT – NRCS  
Stream Assessment Worksheet**

Storm Water Outfall

Survey Basin Code:	Date: 8/23/15
Name of Stream: WEST RIVER	Assessed By: MORGAN EVANS
Reach Code: LW6	
Designated Stream Type:	
Site ID:	

Make All Observations Facing *Downstream*

**Location of Outfall:**  Right Bank  Left Bank Mark and label the location of the outfall on the map and provide a brief description of the location of the outfall relative to roads or other landmarks.

100 FEET UPSTREAM OF E. RAMSDELL BRIDGE. MARKED ON MAP AS

①

<b>Outfall Type:</b>	<input checked="" type="checkbox"/> Pipe	<input type="checkbox"/> Leak Off	<input type="checkbox"/> Channel	
<b>Flow:</b>	<input type="checkbox"/> None	<input checked="" type="checkbox"/> Trickle	<input type="checkbox"/> Moderate	<input type="checkbox"/> Substantial
<b>Odor:</b>	<input checked="" type="checkbox"/> None	<input type="checkbox"/> Sewage	<input type="checkbox"/> Rancid / Sour	<input type="checkbox"/> Sulfur (rotten eggs)
<b>Deposits / Stains</b>	<input checked="" type="checkbox"/> None	<input type="checkbox"/> Sediment Delta	<input type="checkbox"/> Oily Stain	<input type="checkbox"/> Black
<b>Benthic Growth</b>	<input checked="" type="checkbox"/> None	<input type="checkbox"/> Brown	<input type="checkbox"/> Green	<input type="checkbox"/> Orange

**Pipe Data:** Provide all relevant data.

<b>Pipe Material:</b>	<input checked="" type="checkbox"/> Concrete	<input type="checkbox"/> Corrugated Metal	<input type="checkbox"/> Plastic	<input type="checkbox"/> Other
<b>Contributing Source(s):</b>	<input checked="" type="checkbox"/> Road	<input checked="" type="checkbox"/> Parking Lot	<input type="checkbox"/> Other	<input type="checkbox"/> Unknown
<b>Pipe Outlet:</b>	<input checked="" type="checkbox"/> Perched..... 2 ft.	<input type="checkbox"/> Ramped	<input type="checkbox"/> At Stream Level	
<b>Pipe Size:</b>	Diameter: 3 ft.			
<b># of Pipes:</b>	<input checked="" type="checkbox"/> 1	<input type="checkbox"/> 2	<input type="checkbox"/> 3 +	

**Leak-Off Data:** Provide all relevant data.

<b>Leak-Off Swale:</b>	<input type="checkbox"/> Concrete	<input type="checkbox"/> Asphalt	<input type="checkbox"/> Stone	<input type="checkbox"/> Earthen
<b>Contributing Source (s):</b>	<input type="checkbox"/> Road	<input type="checkbox"/> Parking Lot	<input type="checkbox"/> Recreational Field	<input type="checkbox"/> Other
<b>Length of Swale:</b> ft.				
<b>Width of Swale:</b> ft.				

**Channel Data:** Provide all relevant data.

<b>Channel Material:</b>	<input type="checkbox"/> Concrete	<input type="checkbox"/> Asphalt	<input type="checkbox"/> Stone	<input type="checkbox"/> Earthen
<b>Contributing Source (s):</b>	<input type="checkbox"/> Road	<input type="checkbox"/> Parking Lot	<input type="checkbox"/> Recreational Field	<input type="checkbox"/> Other <input type="checkbox"/> Unknown
<b>Channel Length:</b> ft.				
<b>Channel Width:</b> ft.				

**Notes:** Use the space provided to record important observations otherwise not captures on this sheet.

CT - NRCS  
Stream Assessment Worksheet

Storm Water Outfall

Survey Basin Code:	Date: 8/23/15
Name of Stream: WEST RIVER	Assessed By: MORGAN EVANS
Reach Code: LW6	
Designated Stream Type:	
Site ID:	

Make All Observations Facing *Downstream*

**Location of Outfall:**  Right Bank  Left Bank Mark and label the location of the outfall on the map and provide a brief description of the location of the outfall relative to roads or other landmarks.

MARKED ON MAP AS (O<sub>2</sub>) TWO OUTFALLS NEXT TO EACH OTHER. THIS ONE WAS MADE EXTERNALLY OF BRICK.

Outfall Type:	<input checked="" type="checkbox"/> Pipe	<input type="checkbox"/> Leak Off	<input type="checkbox"/> Channel	
Flow:	<input checked="" type="checkbox"/> None	<input type="checkbox"/> Trickle	<input type="checkbox"/> Moderate	<input type="checkbox"/> Substantial
Odor:	<input checked="" type="checkbox"/> None	<input type="checkbox"/> Sewage	<input type="checkbox"/> Rancid / Sour	<input type="checkbox"/> Sulfur (rotten eggs)
Deposits / Stains	<input checked="" type="checkbox"/> None	<input type="checkbox"/> Sediment Delta	<input type="checkbox"/> Oily Stain	<input type="checkbox"/> Black
Benthic Growth	<input checked="" type="checkbox"/> None	<input type="checkbox"/> Brown	<input type="checkbox"/> Green	<input type="checkbox"/> Orange

**Pipe Data:** Provide all relevant data.

Pipe Material:	<input type="checkbox"/> Concrete	<input type="checkbox"/> Corrugated Metal	<input type="checkbox"/> Plastic	<input checked="" type="checkbox"/> Other (BRICK)
Contributing Source(s):	<input type="checkbox"/> Road	<input type="checkbox"/> Parking Lot	<input type="checkbox"/> Other	<input checked="" type="checkbox"/> Unknown
Pipe Outlet:	<input type="checkbox"/> Perched..... ft.	<input type="checkbox"/> Ramped	<input checked="" type="checkbox"/> At Stream Level	
Pipe Size:	Diameter: 6 ft.			
# of Pipes:	<input checked="" type="checkbox"/> 1	<input type="checkbox"/> 2	<input type="checkbox"/> 3 +	

**Leak-Off Data:** Provide all relevant data.

Leak-Off Swale:	<input type="checkbox"/> Concrete	<input type="checkbox"/> Asphalt	<input type="checkbox"/> Stone	<input type="checkbox"/> Earthen
Contributing Source (s):	<input type="checkbox"/> Road	<input type="checkbox"/> Parking Lot	<input type="checkbox"/> Recreational Field	<input type="checkbox"/> Other
Length of Swale: ft.				
Width of Swale: ft.				

**Channel Data:** Provide all relevant data.

Channel Material:	<input type="checkbox"/> Concrete	<input type="checkbox"/> Asphalt	<input type="checkbox"/> Stone	<input type="checkbox"/> Earthen
Contributing Source (s):	<input type="checkbox"/> Road	<input type="checkbox"/> Parking Lot	<input type="checkbox"/> Recreational Field	<input type="checkbox"/> Other <input type="checkbox"/> Unknown
Channel Length: ft.				
Channel Width: ft.				

**Notes:** Use the space provided to record important observations otherwise not captures on this sheet.

CT - NRCS  
Stream Assessment Worksheet

Storm Water Outfall

Survey Basin Code:	Date: 8/23/15
Name of Stream: WEST RIVER	Assessed By: MORGAN EVANS
Reach Code: LW6	
Designated Stream Type:	
Site ID:	

Make All Observations Facing *Downstream*

**Location of Outfall:**  Right Bank  Left Bank Mark and label the location of the outfall on the map and provide a brief description of the location of the outfall relative to roads or other landmarks.

JUST UPSTREAM OF VALLEY ST. BRIDGE. 2 PIPES RIGHT NEAR EACH OTHER. ALSO LOCATION OF (B<sub>2</sub>) FISH BARRIER.

<b>Outfall Type:</b>	<input checked="" type="checkbox"/> Pipe	<input type="checkbox"/> Leak Off	<input type="checkbox"/> Channel	
<b>Flow:</b>	<input checked="" type="checkbox"/> None	<input type="checkbox"/> Trickle	<input type="checkbox"/> Moderate	<input type="checkbox"/> Substantial
<b>Odor:</b>	<input checked="" type="checkbox"/> None	<input type="checkbox"/> Sewage	<input type="checkbox"/> Rancid / Sour	<input type="checkbox"/> Sulfur (rotten eggs)
<b>Deposits / Stains</b>	<input checked="" type="checkbox"/> None	<input type="checkbox"/> Sediment Delta	<input type="checkbox"/> Oily Stain	<input type="checkbox"/> Black
<b>Benthic Growth</b>	<input checked="" type="checkbox"/> None	<input type="checkbox"/> Brown	<input type="checkbox"/> Green	<input type="checkbox"/> Orange

**Pipe Data:** Provide all relevant data.

<b>Pipe Material:</b>	<input checked="" type="checkbox"/> Concrete	<input type="checkbox"/> Corrugated Metal	<input type="checkbox"/> Plastic	<input type="checkbox"/> Other
<b>Contributing Source(s):</b>	<input checked="" type="checkbox"/> Road	<input type="checkbox"/> Parking Lot	<input type="checkbox"/> Other	<input type="checkbox"/> Unknown
<b>Pipe Outlet:</b>	<input checked="" type="checkbox"/> Perched..... 1 ft.	<input type="checkbox"/> Ramped	<input type="checkbox"/> At Stream Level	
<b>Pipe Size:</b>	Diameter: 2 ft.			
<b># of Pipes:</b>	<input checked="" type="checkbox"/> 1	<input type="checkbox"/> 2	<input type="checkbox"/> 3 +	

**Leak-Off Data:** Provide all relevant data.

<b>Leak-Off Swale:</b>	<input type="checkbox"/> Concrete	<input type="checkbox"/> Asphalt	<input type="checkbox"/> Stone	<input type="checkbox"/> Earthen
<b>Contributing Source (s):</b>	<input type="checkbox"/> Road	<input type="checkbox"/> Parking Lot	<input type="checkbox"/> Recreational Field	<input type="checkbox"/> Other
<b>Length of Swale:</b> ft.				
<b>Width of Swale:</b> ft.				

**Channel Data:** Provide all relevant data.

<b>Channel Material:</b>	<input type="checkbox"/> Concrete	<input type="checkbox"/> Asphalt	<input type="checkbox"/> Stone	<input type="checkbox"/> Earthen
<b>Contributing Source (s):</b>	<input type="checkbox"/> Road	<input type="checkbox"/> Parking Lot	<input type="checkbox"/> Recreational Field	<input type="checkbox"/> Other <input type="checkbox"/> Unknown
<b>Channel Length:</b> ft.				
<b>Channel Width:</b> ft.				

**Notes:** Use the space provided to record important observations otherwise not captures on this sheet.

CT - NRCS  
Stream Assessment Worksheet

Storm Water Outfall

Survey Basin Code:	Date: 8/23/15
Name of Stream: WEST RIVER	Assessed By: MORGAN EVANS
Reach Code: LW6	
Designated Stream Type:	
Site ID:	

Make All Observations Facing *Downstream*

**Location of Outfall:**  Right Bank  Left Bank Mark and label the location of the outfall on the map and provide a brief description of the location of the outfall relative to roads or other landmarks.

100 FEET DOWNSTREAM OF VALLEY ST. BRIDGE. MARKED AS (O<sub>4</sub>) ON MAP

<b>Outfall Type:</b>	<input checked="" type="checkbox"/> Pipe	<input type="checkbox"/> Leak Off	<input type="checkbox"/> Channel	
<b>Flow:</b>	<input checked="" type="checkbox"/> None	<input type="checkbox"/> Trickle	<input type="checkbox"/> Moderate	<input type="checkbox"/> Substantial
<b>Odor:</b>	<input checked="" type="checkbox"/> None	<input type="checkbox"/> Sewage	<input type="checkbox"/> Rancid / Sour	<input type="checkbox"/> Sulfur (rotten eggs)
<b>Deposits / Stains</b>	<input checked="" type="checkbox"/> None	<input type="checkbox"/> Sediment Delta	<input type="checkbox"/> Oily Stain	<input type="checkbox"/> Black
<b>Benthic Growth</b>	<input checked="" type="checkbox"/> None	<input type="checkbox"/> Brown	<input type="checkbox"/> Green	<input type="checkbox"/> Orange

**Pipe Data:** Provide all relevant data.

<b>Pipe Material:</b>	<input checked="" type="checkbox"/> Concrete	<input type="checkbox"/> Corrugated Metal	<input type="checkbox"/> Plastic	<input type="checkbox"/> Other
<b>Contributing Source(s):</b>	<input checked="" type="checkbox"/> Road	<input type="checkbox"/> Parking Lot	<input type="checkbox"/> Other	<input type="checkbox"/> Unknown
<b>Pipe Outlet:</b>	<input checked="" type="checkbox"/> Perched..... 4 ft.	<input type="checkbox"/> Ramped	<input type="checkbox"/> At Stream Level	
<b>Pipe Size:</b>	Diameter: 2 ft.			
<b># of Pipes:</b>	<input checked="" type="checkbox"/> 1	<input type="checkbox"/> 2	<input type="checkbox"/> 3 +	

**Leak-Off Data:** Provide all relevant data.

<b>Leak-Off Swale:</b>	<input type="checkbox"/> Concrete	<input type="checkbox"/> Asphalt	<input type="checkbox"/> Stone	<input type="checkbox"/> Earthen
<b>Contributing Source (s):</b>	<input type="checkbox"/> Road	<input type="checkbox"/> Parking Lot	<input type="checkbox"/> Recreational Field	<input type="checkbox"/> Other
<b>Length of Swale:</b> ft.				
<b>Width of Swale:</b> ft.				

**Channel Data:** Provide all relevant data.

<b>Channel Material:</b>	<input type="checkbox"/> Concrete	<input type="checkbox"/> Asphalt	<input type="checkbox"/> Stone	<input type="checkbox"/> Earthen
<b>Contributing Source (s):</b>	<input type="checkbox"/> Road	<input type="checkbox"/> Parking Lot	<input type="checkbox"/> Recreational Field	<input type="checkbox"/> Other <input type="checkbox"/> Unknown
<b>Channel Length:</b> ft.				
<b>Channel Width:</b> ft.				

**Notes:** Use the space provided to record important observations otherwise not captures on this sheet.

**CT-NRCS**  
**Stream Assessment Sheet**

Reach Level Assessment

Survey Basin Code:	Date(s): 8/23/15
Name of Stream: WEST RIVER	Assessed By: MORGAN R. EVANS
Reach Code: LW6	
Designated Stream Type:	

Make All Observations Facing *Downstream*

Was the entire reach of stream surveyed? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No, Which section(s) were not surveyed? Why?
--

<b>Channel Morphology:</b> Mark the predominate condition(s), and indicate the average measurements.	
<input type="checkbox"/> Step-Pool	<input checked="" type="checkbox"/> Pool-Riffle
<input checked="" type="checkbox"/> Run	<input type="checkbox"/> Glide
* <input type="checkbox"/> Manipulated Channel (piped, lined, etc.)	
Active Channel Width: 15' FEET	Glide Depth:
Riffle Depth: 2' FEET	Step Height:
Pool Depth: 3' FEET	Bank Height (Right Bank): 3' FEET
Run Depth: 2' FEET	Bank Height (Left Bank): 3' FEET

<b>Substrate Composition:</b> Mark approximate percentages for each substrate type observed.					
Silt or Clay	<input checked="" type="checkbox"/> <5%	<input type="checkbox"/> 5-25%	<input type="checkbox"/> 25-50%	<input type="checkbox"/> 50-75%	<input type="checkbox"/> >75%
Sand	<input type="checkbox"/> <5%	<input checked="" type="checkbox"/> 5-25%	<input type="checkbox"/> 25-50%	<input type="checkbox"/> 50-75%	<input type="checkbox"/> >75%
Gravel (0.1-2 inches)	<input type="checkbox"/> <5%	<input checked="" type="checkbox"/> 5-25%	<input type="checkbox"/> 25-50%	<input type="checkbox"/> 50-75%	<input type="checkbox"/> >75%
Cobble (2-10 inches)	<input type="checkbox"/> <5%	<input type="checkbox"/> 5-25%	<input type="checkbox"/> 25-50%	<input type="checkbox"/> 50-75%	<input checked="" type="checkbox"/> >75%
Boulder (>10 inches)	<input type="checkbox"/> <5%	<input checked="" type="checkbox"/> 5-25%	<input type="checkbox"/> 25-50%	<input type="checkbox"/> 50-75%	<input type="checkbox"/> >75%
Bedrock	<input checked="" type="checkbox"/> <5%	<input type="checkbox"/> 5-25%	<input type="checkbox"/> 25-50%	<input type="checkbox"/> 50-75%	<input type="checkbox"/> >75%

<b>Describe Water Conditions:</b> Mark all that apply.		
<input checked="" type="checkbox"/> Clear	<input type="checkbox"/> Stained ("iced tea")	* <input checked="" type="checkbox"/> Turbid (muddy / silty)
* <input type="checkbox"/> Green	* <input type="checkbox"/> Rusty-Red	* <input type="checkbox"/> Milky
* <input type="checkbox"/> Odors	* <input type="checkbox"/> Other (foam, dyes, chemicals)	

<b>Aquatic Plants in Stream:</b>			
Floating: (e.g. duck weed)	<input checked="" type="checkbox"/> Absent	<input type="checkbox"/> In Spots	* <input type="checkbox"/> Everywhere
Attached: (e.g. water lily)	<input type="checkbox"/> Absent	<input checked="" type="checkbox"/> In Spots	* <input type="checkbox"/> Everywhere

<b>Algae in Stream:</b>			
Floating: (e.g. planktonic)	<input checked="" type="checkbox"/> Absent	<input type="checkbox"/> In Spots	* <input type="checkbox"/> Everywhere
Attached: (e.g. filamentous)	<input type="checkbox"/> Absent	<input checked="" type="checkbox"/> In Spots	* <input type="checkbox"/> Everywhere

<b>Canopy Cover:</b> Mark approximate percentage of stream covered by tree canopy.			
<input type="checkbox"/> >75% covered	<input checked="" type="checkbox"/> 75-50% covered	<input type="checkbox"/> 50%-25% covered	<input type="checkbox"/> < 25% covered

**Area of Concern Worksheets**  
Indicate # and type of sheets completed for this reach assessment

Erosion	_____
Fish Barrier	2
Storm Water Outfall	4
Modified Channel	2
Impacted Buffer	_____
Trash / Debris	_____
Water Conditions	_____

Note: Items marked with an asterisk (\*) indicate a potential area of concern. Please record all relevant information on the appropriate Area of Concern Worksheet(s).

**CT-NRCS**  
**Stream Assessment Sheet**

Reach Level Assessment

<b>Riparian Vegetation:</b> Characterize the average density of vegetation in the first 35 feet adjacent to the stream for both banks.						
	Left Bank	Right Bank	Left Bank	Right Bank	Left Bank	Right Bank
Turf Grass	<input checked="" type="checkbox"/> Low	<input checked="" type="checkbox"/> Low	<input type="checkbox"/> Moderate	<input type="checkbox"/> Moderate	<input type="checkbox"/> High	<input type="checkbox"/> High
Grass	<input checked="" type="checkbox"/> Low	<input checked="" type="checkbox"/> Low	<input type="checkbox"/> Moderate	<input type="checkbox"/> Moderate	<input type="checkbox"/> High	<input type="checkbox"/> High
Shrubs	<input type="checkbox"/> Low	<input type="checkbox"/> Low	<input checked="" type="checkbox"/> Moderate	<input checked="" type="checkbox"/> Moderate	<input type="checkbox"/> High	<input type="checkbox"/> High
Deciduous Trees	<input type="checkbox"/> Low	<input type="checkbox"/> Low	<input type="checkbox"/> Moderate	<input type="checkbox"/> Moderate	<input checked="" type="checkbox"/> High	<input checked="" type="checkbox"/> High
Coniferous Trees	<input checked="" type="checkbox"/> Low	<input checked="" type="checkbox"/> Low	<input type="checkbox"/> Moderate	<input type="checkbox"/> Moderate	<input type="checkbox"/> High	<input type="checkbox"/> High

<b>Surrounding Land Use:</b> Mark the dominate land use(s) for each "zone", if known or observed.					
<b>Immediately adjacent to stream</b>		<b>&lt; ¼ Mile from stream</b>		<b>&gt; ¼ Mile from stream</b>	
<input type="checkbox"/> Rural Residential	<input type="checkbox"/> Agricultural	<input type="checkbox"/> Rural Residential	<input type="checkbox"/> Agricultural	<input type="checkbox"/> Rural Residential	<input type="checkbox"/> Agricultural
<input type="checkbox"/> Suburban Residential	<input checked="" type="checkbox"/> Forested	<input checked="" type="checkbox"/> Suburban Residential	<input type="checkbox"/> Forested	<input checked="" type="checkbox"/> Suburban Residential	<input type="checkbox"/> Forested
<input type="checkbox"/> Urban Residential	<input type="checkbox"/> Recreational	<input checked="" type="checkbox"/> Urban Residential	<input checked="" type="checkbox"/> Recreational	<input type="checkbox"/> Urban Residential	<input type="checkbox"/> Recreational
<input type="checkbox"/> Industrial	<input type="checkbox"/> Other	<input type="checkbox"/> Industrial	<input type="checkbox"/> Other	<input type="checkbox"/> Industrial	<input type="checkbox"/> Other
<input type="checkbox"/> Commercial		<input checked="" type="checkbox"/> Commercial		<input checked="" type="checkbox"/> Commercial	

<b>Areas of Concern Checklist:</b> Marking "Yes" to any of the following questions indicates that an Area of Concern Worksheet should be filled out for the appropriate concern. For each occurrence observed, complete and area of concern sheet.		
Is there evidence of either stream bank erosion or streambed instability within the reach?	<input type="checkbox"/> Yes	<input type="checkbox"/> No
Are there any dams or any other possible natural or artificial barriers to fish migration?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
Are there any storm water outfalls, discharge pipes or discharges within the reach? Indicate the number observed:	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
Is there any portion of the channel that has been modified (not culvert) (channeled, piped, rip rap)?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
Is there any portion of the reach where the riparian buffer has been compromised or is nonexistent?	<input type="checkbox"/> Yes	<input type="checkbox"/> No
Is there any portion of the reach that contains trash or other debris (cars, appliances, construction waste)?	<input type="checkbox"/> Yes	<input type="checkbox"/> No
Is there any portion of the reach that has a change in water conditions?	<input type="checkbox"/> Yes	<input type="checkbox"/> No

**Notes:** Use the space provided to record important observations otherwise not captured on the Reach Assessment Sheet or the Areas of Concern Worksheets.

Completed Stream Assessment Forms  
Sargent Brook (Reference Reach)

# CT-NRCS Stream Assessment Sheet

## Reach Level Assessment

Survey Basin Code:	Date(s): <u>7/7/2015</u> <span style="float: right; font-size: small;">start 1pm/1:15pm 3:25pm</span>
Name of Stream: <u>Sargent Brook</u>	Assessed By: <u>KB, Rian, Asha, Brian</u>
Reach Code: <u>Reference Reach</u>	
Designated Stream Type:	

**Make All Observations Facing *Downstream***

Was the entire reach of stream surveyed?  Yes  No, Which section(s) were not surveyed? Why?

**Channel Morphology:** Mark the predominate condition(s), and indicate the average measurements.

<input checked="" type="checkbox"/> Step-Pool	<input checked="" type="checkbox"/> Pool-Riffle	<input type="checkbox"/> Run	<input checked="" type="checkbox"/> Glide <sup>4-5'</sup>	* <input type="checkbox"/> Manipulated Channel (piped, lined, etc.)
Active Channel Width: <u>10'</u> (blw 8-12' avg)		Glide Depth: <u>8"</u>		
Riffle Depth: <u>3-4"</u>		Step Height: <u>4-6"</u>		
Pool Depth: <u>1 1/2 - 2'</u>		Bank Height (Right Bank): <u>1 1/2'</u>		
Run Depth: <u>n/a</u>		Bank Height (Left Bank): <u>1 1/2'</u>		

**Substrate Composition:** Mark approximate percentages for each substrate type observed.

Silt or Clay	<input checked="" type="checkbox"/> <5%	<input type="checkbox"/> 5-25%	<input type="checkbox"/> 25-50%	<input type="checkbox"/> 50-75%	<input type="checkbox"/> >75%
Sand	<input type="checkbox"/> <5%	<input type="checkbox"/> 5-25%	<input checked="" type="checkbox"/> 25-50%	<input checked="" type="checkbox"/> 50-75%	<input type="checkbox"/> >75%
Gravel (0.1-2 inches)	<input type="checkbox"/> <5%	<input checked="" type="checkbox"/> 5-25%	<input checked="" type="checkbox"/> 25-50%	<input type="checkbox"/> 50-75%	<input type="checkbox"/> >75%
Cobble (2-10 inches)	<input type="checkbox"/> <5%	<input type="checkbox"/> 5-25%	<input checked="" type="checkbox"/> 25-50%	<input type="checkbox"/> 50-75%	<input type="checkbox"/> >75%
Boulder (>10 inches)	<input type="checkbox"/> <5%	<input checked="" type="checkbox"/> 5-25%	<input type="checkbox"/> 25-50%	<input type="checkbox"/> 50-75%	<input type="checkbox"/> >75%
Bedrock	<input type="checkbox"/> <5%	<input type="checkbox"/> 5-25%	<input type="checkbox"/> 25-50%	<input type="checkbox"/> 50-75%	<input type="checkbox"/> >75%

n/a + pool  
8-12" bank height  
gravel + sand  
pool riffle couple  
mud & yk. & silt  
- cobble

**Describe Water Conditions:** Mark all that apply.

<input checked="" type="checkbox"/> Clear	<input type="checkbox"/> Stained ("iced tea")	* <input type="checkbox"/> Turbid (muddy / silty)
* <input type="checkbox"/> Green	* <input type="checkbox"/> Rusty-Red	* <input type="checkbox"/> Milky
* <input type="checkbox"/> Odors	* <input type="checkbox"/> Other (foam, dyes, chemicals)	

**Area of Concern Worksheets**  
Indicate # and type of sheets completed for this reach assessment

Erosion	_____
Fish Barrier	_____ <input checked="" type="checkbox"/>
Storm Water Outfall	_____
Modified Channel	_____
Impacted Buffer	_____
Trash / Debris	_____ <input checked="" type="checkbox"/>
Water Conditions	_____

**Aquatic Plants in Stream:**

Floating: (e.g. duck weed)	<input checked="" type="checkbox"/> Absent	<input type="checkbox"/> In Spots	* <input type="checkbox"/> Everywhere
Attached: (e.g. water lily)	<input checked="" type="checkbox"/> Absent	<input type="checkbox"/> In Spots	* <input type="checkbox"/> Everywhere

**Algae in Stream:**

Floating: (e.g. planktonic)	<input checked="" type="checkbox"/> Absent	<input type="checkbox"/> In Spots	* <input type="checkbox"/> Everywhere
Attached: (e.g. filamentous)	<input checked="" type="checkbox"/> Absent	<input type="checkbox"/> In Spots	* <input type="checkbox"/> Everywhere

**Canopy Cover:** Mark approximate percentage of stream covered by tree canopy.

<input type="checkbox"/> >75% covered	<input checked="" type="checkbox"/> 75-50% covered	<input type="checkbox"/> 50%-25% covered	<input type="checkbox"/> <25% covered
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Note: Items marked with an asterisk (\*) indicate a potential area of concern. Please record all relevant information on the appropriate Area of Concern Worksheet(s).

Bank height 1-2'  
water clear.  
pool depth 2' 2 riffle 4'

Canopy 75' from channel  
skunk cabbage, water hyacinth, etc. in buffer  
active channel 8'

1 large board in stream w/ chain locks?  
Dam?

Developed By: CT-NRCS  
January 2008

# CT-NRCS Stream Assessment Sheet

## Reach Level Assessment

**Riparian Vegetation:** Characterize the average density of vegetation in the first 35 feet adjacent to the stream for both banks.

	Left Bank	Right Bank	Left Bank	Right Bank	Left Bank	Right Bank
Turf Grass	<input type="checkbox"/> Low	<input type="checkbox"/> Low	<input type="checkbox"/> Moderate	<input type="checkbox"/> Moderate	<input type="checkbox"/> High	<input type="checkbox"/> High
Grass	<input checked="" type="checkbox"/> Low	<input checked="" type="checkbox"/> Low	<input type="checkbox"/> Moderate	<input type="checkbox"/> Moderate	<input type="checkbox"/> High	<input type="checkbox"/> High
Shrubs	<input type="checkbox"/> Low	<input type="checkbox"/> Low	<input type="checkbox"/> Moderate	<input type="checkbox"/> Moderate	<input checked="" type="checkbox"/> High	<input checked="" type="checkbox"/> High
Deciduous Trees	<input type="checkbox"/> Low	<input type="checkbox"/> Low	<input checked="" type="checkbox"/> Moderate	<input checked="" type="checkbox"/> Moderate	<input type="checkbox"/> High	<input type="checkbox"/> High
Coniferous Trees	<input checked="" type="checkbox"/> Low	<input checked="" type="checkbox"/> Low	<input type="checkbox"/> Moderate	<input type="checkbox"/> Moderate	<input type="checkbox"/> High	<input type="checkbox"/> High

**Surrounding Land Use:** Mark the dominate land use(s) for each "zone", if known or observed.

Immediately adjacent to stream		< 1/4 Mile from stream		> 1/4 Mile from stream	
<input type="checkbox"/> Rural Residential	<input type="checkbox"/> Agricultural	<input checked="" type="checkbox"/> Rural Residential	<input type="checkbox"/> Agricultural	<input checked="" type="checkbox"/> Rural Residential	<input type="checkbox"/> Agricultural
<input type="checkbox"/> Suburban Residential	<input checked="" type="checkbox"/> Forested	<input type="checkbox"/> Suburban Residential	<input checked="" type="checkbox"/> Forested	<input type="checkbox"/> Suburban Residential	<input checked="" type="checkbox"/> Forested
<input type="checkbox"/> Urban Residential	<input type="checkbox"/> Recreational	<input type="checkbox"/> Urban Residential	<input type="checkbox"/> Recreational	<input type="checkbox"/> Urban Residential	<input type="checkbox"/> Recreational
<input type="checkbox"/> Industrial	<input checked="" type="checkbox"/> Other	<input type="checkbox"/> Industrial	<input type="checkbox"/> Other	<input type="checkbox"/> Industrial	<input type="checkbox"/> Other
<input type="checkbox"/> Commercial	Abandoned Agriculture	<input type="checkbox"/> Commercial		<input type="checkbox"/> Commercial	

**Areas of Concern Checklist:** Marking "Yes" to any of the following questions indicates that an Area of Concern Worksheet should be filled out for the appropriate concern. For each occurrence observed, complete and area of concern sheet.

Is there evidence of either stream bank erosion or streambed instability within the reach?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Are there any dams or any other possible natural or artificial barriers to fish migration?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
Are there any storm water outfalls, discharge pipes or discharges within the reach? Indicate the number observed: _____	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Is there any portion of the channel that has been modified (not culvert) (channeled, piped, rip rap)?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Is there any portion of the reach where the riparian buffer has been compromised or is nonexistent?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Is there any portion of the reach that contains trash or other debris (cars, appliances, construction waste)?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
Is there any portion of the reach that has a change in water conditions?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No

**Notes:** Use the space provided to record important observations otherwise not captured on the Reach Assessment Sheet or the Areas of Concern Worksheets.

Hand-drawn diagram of a stream reach with various annotations. The diagram shows a winding stream channel with a 'V' shaped valley on the left. Annotations include:

- Valley R
- more canopy + more
- wide channel
- 13m. b. s. winged
- abundant
- Stream width ~12
- erosion
- pick of 11st pool transition
- old bridge in channel
- valleys
- canopy coverage + 75%
- step-pool
- glide
- 1/4 mile
- several sections of riparian channel
- more deciduous than conifers some evergreen LTR want
- 31m is 7.25% sand gravel sand 75
- canopy
- glide
- 1/4 mile
- step-pool
- glide
- 1/4 mile
- several sections of riparian channel

# CT - NRCS Stream Assessment Worksheet

Fish Barrier

Survey Basin Code:	Date: 7/7/2015
Name of Stream: Sargeant Run	Assessed By: R, A, R, B
Reach Code: Reference	
Designated Stream Type:	
Site ID:	

**Make All Observations Facing Downstream**

**Location of Barrier:** Mark and label the location of the barrier on the map and provide a brief description of the location of the barrier relative to roads or other landmarks.

*marked photo & map screen shot - near Dam - Pond in Ranch Map*

**Type of Barrier:** Mark the type of fish barrier.

<input checked="" type="checkbox"/> Dam	<input type="checkbox"/> Culvert	<input type="checkbox"/> Velocity Barrier	<input type="checkbox"/> Other
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**Dam Data:** Provide all relevant data.

Height of Dam: 4 ft.	Length of Spillway: 4 ft.	Shape of Spillway: <input checked="" type="checkbox"/> Straight <input type="checkbox"/> Crescent	
Materials: <input checked="" type="checkbox"/> Stone	<input type="checkbox"/> Concrete	<input checked="" type="checkbox"/> Stone & Concrete	<input type="checkbox"/> Timber-Crib <input type="checkbox"/> Other
Is there other infrastructure associated with the Dam? <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes (If yes mark the type below) <i>concrete field</i>			
<input type="checkbox"/> Factory	<input type="checkbox"/> Hydro Facility	<input type="checkbox"/> Mill	<input checked="" type="checkbox"/> Residence <input checked="" type="checkbox"/> Other <i>former, unsure</i>

**Culvert Data:** Provide all relevant data.

Type of Culvert:	<input type="checkbox"/> Box	<input checked="" type="checkbox"/> Pipe	<input type="checkbox"/> Pipe-Arch	<input type="checkbox"/> Arch
Culvert Material:	<input checked="" type="checkbox"/> Concrete	<input type="checkbox"/> Corrugated Metal	<input type="checkbox"/> Plastic	<input type="checkbox"/> Stone
Culvert Outlet:	<input checked="" type="checkbox"/> Perched: ..... 6" ft.	<input type="checkbox"/> Ramped	<input type="checkbox"/> Submerged	
Culvert Size:	Diameter: 24" ft.	Height: ft.	Width: ft.	
# of Culverts:	Culvert Length: ft.			

**Velocity Barrier Data:** Provide all relevant data.

Nature of Barrier:	<input type="checkbox"/> Grade Control Sill	<input type="checkbox"/> Concrete Apron	<input type="checkbox"/> Channel Cross-Section	<input type="checkbox"/> Other
Length of Barrier: ft.	Approx. Vertical Rise: ft.			

**Notes:** Use the space provided to record important observations otherwise not captured on this sheet.

*picture  
area above dam - sand-silt organic material.  
4-10' channel 50' upstream*

**CT - NRCS  
Stream Assessment Worksheet**

Trash / Debris

Survey Basin Code:	Date: 7/7/2015
Name of Stream: Sargent Brook	Assessed By: KB, Asha, Rian, Brian
Reach Code: 261, Rende	
Designated Stream Type:	
Site ID: #1	

**Make All Observations Facing *Downstream***

**Location / Extent of Trash or Debris:** Mark and label the location of the trash or debris on the map and provide a brief description of the location relative to roads or other landmarks.

*marked w/ photo + google map screenshot*

Within Stream       Riparian Area:     Left Bank     Right Bank

<b>Type:</b>	<input type="checkbox"/> Residential	<input type="checkbox"/> Commercial	<input type="checkbox"/> Industrial	
<b>Material:</b>	<input type="checkbox"/> Plastic	<input checked="" type="checkbox"/> Tires	<input type="checkbox"/> Appliances	<input checked="" type="checkbox"/> Other
	<input type="checkbox"/> Paper	<input type="checkbox"/> Metal	<input type="checkbox"/> Automotive	<i>old bridge?</i>
	<input type="checkbox"/> Yard Waste	<input type="checkbox"/> Construction	<input type="checkbox"/> Medical	<i>foot bridge</i>
<b>Source:</b>	<input type="checkbox"/> Unknown	<input type="checkbox"/> Flooding	<input type="checkbox"/> Illegal Dumping	<input type="checkbox"/> Local Outfall
<b>Land Ownership:</b>	<input type="checkbox"/> Private	<input type="checkbox"/> Public	<input checked="" type="checkbox"/> Unknown	

**Notes:** Use the space provided to record important observations otherwise not captures on this sheet.

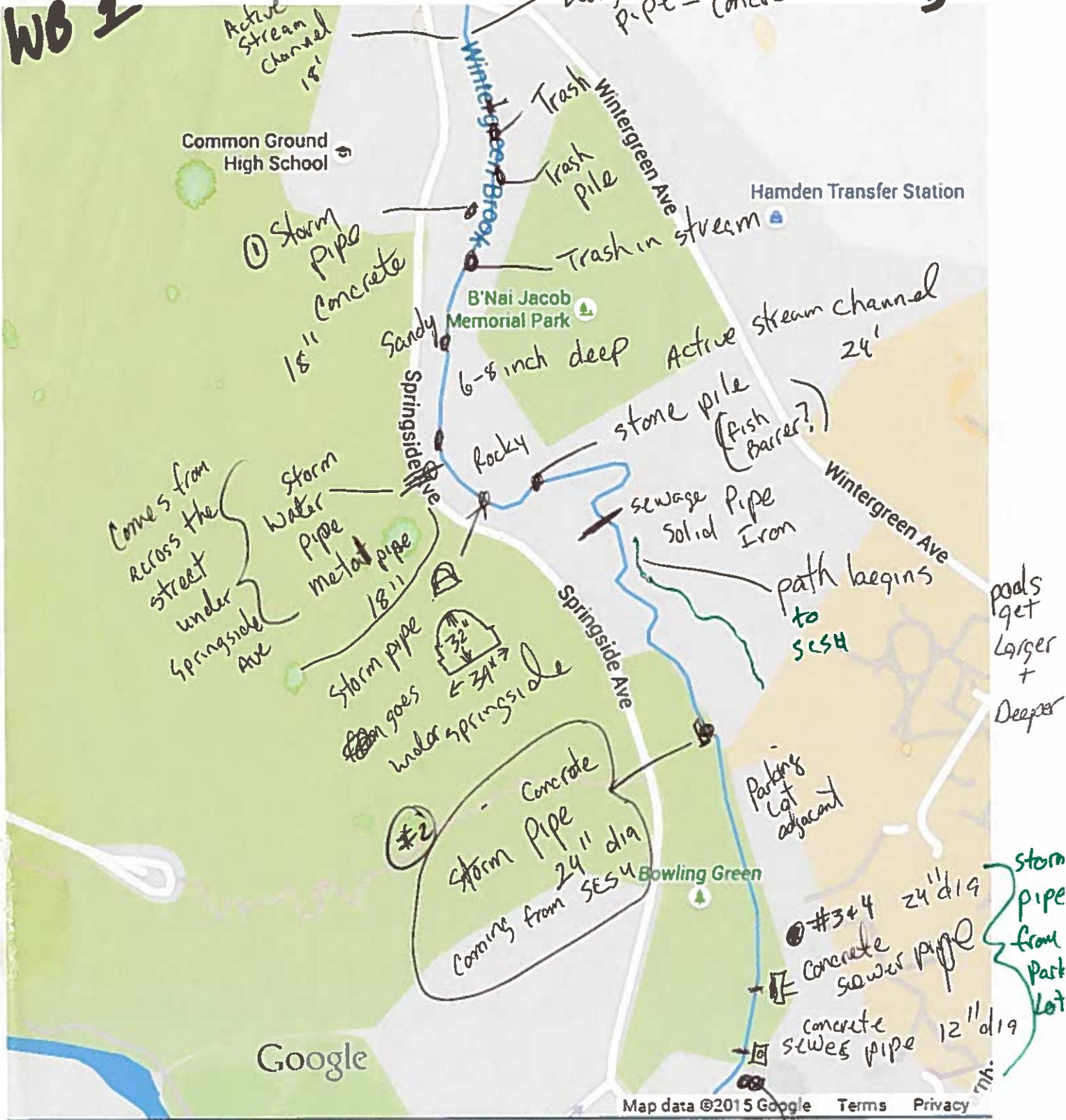
*Remnant of old bridge found laying across channel - another section downstream*

Completed Stream Assessment Forms  
Wintergreen Brook

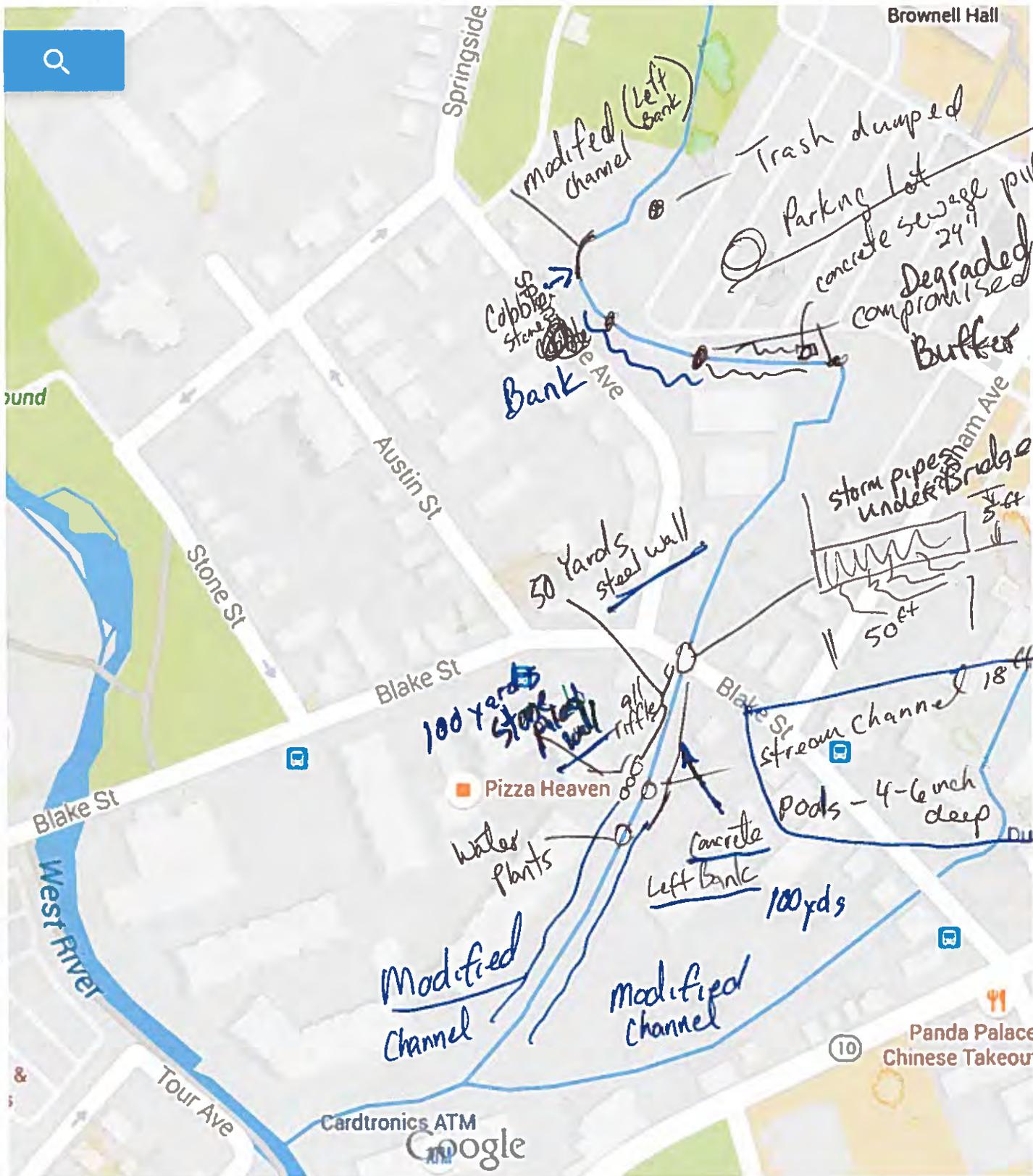
WB 1

August 3, 2015

Pg 1



Leanne 914 295-4197  
 iluminar 2@yahoo.com  
 bloom@save-the-sound.org



**CT-NRCS  
Stream Assessment Sheet**

Pg 7

Reach Level Assessment

Survey Basin Code:	Date(s): 8/3/15
Name of Stream: Wintergreen Brook	Assessed By:
Reach Code: WB 01	CG West River Stewards
Designated Stream Type: Fresh Water	

Make All Observations Facing *Downstream*

Was the entire reach of stream surveyed?  Yes  No, Which section(s) were not surveyed? Why?

**Channel Morphology:** Mark the predominate condition(s), and indicate the average measurements.

<input type="checkbox"/> Step-Pool	<input checked="" type="checkbox"/> Pool-Riffle	<input type="checkbox"/> Run	<input type="checkbox"/> Glide	* <input type="checkbox"/> Manipulated Channel (piped, lined, etc.)
Active Channel Width: 20 ft	Glide Depth:			
Riffle Depth: 6 inches	Step Height:			
Pool Depth: 18 inches	Bank Height (Right Bank): 24 inches			
Run Depth:	Bank Height (Left Bank): 24 inches			

**Substrate Composition:** Mark approximate percentages for each substrate type observed.

Silt or Clay	<input type="checkbox"/> <5%	<input type="checkbox"/> 5-25%	<input type="checkbox"/> 25-50%	<input checked="" type="checkbox"/> 50-75%	<input type="checkbox"/> >75%
Sand	<input type="checkbox"/> <5%	<input type="checkbox"/> 5-25%	<input checked="" type="checkbox"/> 25-50%	<input type="checkbox"/> 50-75%	<input type="checkbox"/> >75%
Gravel (0.1-2 inches)	<input type="checkbox"/> <5%	<input checked="" type="checkbox"/> 5-25%	<input type="checkbox"/> 25-50%	<input type="checkbox"/> 50-75%	<input type="checkbox"/> >75%
Cobble (2-10 inches)	<input checked="" type="checkbox"/> <5%	<input type="checkbox"/> 5-25%	<input type="checkbox"/> 25-50%	<input type="checkbox"/> 50-75%	<input type="checkbox"/> >75%
Boulder (>10 inches)	<input checked="" type="checkbox"/> <5%	<input type="checkbox"/> 5-25%	<input type="checkbox"/> 25-50%	<input type="checkbox"/> 50-75%	<input type="checkbox"/> >75%
Bedrock	<input type="checkbox"/> <5%	<input type="checkbox"/> 5-25%	<input type="checkbox"/> 25-50%	<input type="checkbox"/> 50-75%	<input type="checkbox"/> >75%

**Describe Water Conditions:** Mark all that apply.

<input checked="" type="checkbox"/> Clear	<input type="checkbox"/> Stained ("iced tea")	* <input type="checkbox"/> Turbid (muddy / silty)
* <input type="checkbox"/> Green	* <input type="checkbox"/> Rusty-Red	* <input type="checkbox"/> Milky
* <input type="checkbox"/> Odors	* <input type="checkbox"/> Other (foam, dyes, chemicals)	

**Aquatic Plants in Stream:**

Floating: (e.g. duck weed)	<input type="checkbox"/> Absent	<input checked="" type="checkbox"/> In Spots	* <input type="checkbox"/> Everywhere
Attached: (e.g. water lily)	<input type="checkbox"/> Absent	<input checked="" type="checkbox"/> In Spots	* <input type="checkbox"/> Everywhere

**Algae in Stream:**

Floating: (e.g. planktonic)	<input type="checkbox"/> Absent	<input type="checkbox"/> In Spots	* <input type="checkbox"/> Everywhere
Attached: (e.g. filamentous)	<input type="checkbox"/> Absent	<input checked="" type="checkbox"/> In Spots	* <input type="checkbox"/> Everywhere

**Canopy Cover:** Mark approximate percentage of stream covered by tree canopy.

<input type="checkbox"/> >75% covered	<input checked="" type="checkbox"/> 75-50% covered	<input type="checkbox"/> 50%-25% covered	<input type="checkbox"/> < 25% covered
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**Area of Concern Worksheets**  
Indicate # and type of sheets completed for this reach assessment

Erosion	_____
Fish Barrier	_____
Storm Water Outfall	<input checked="" type="checkbox"/>
Modified Channel	<input checked="" type="checkbox"/>
Impacted Buffer	<input checked="" type="checkbox"/>
Trash / Debris	<input checked="" type="checkbox"/>
Water Conditions	_____

Note: Items marked with an asterisk (\*) indicate a potential area of concern. Please record all relevant information on the appropriate Area of Concern Worksheet(s).

**CT-NRCS  
Stream Assessment Sheet**

Pg 2  
Reach Level Assessment

**Riparian Vegetation:** Characterize the average density of vegetation in the first 35 feet adjacent to the stream for both banks.

	Left Bank	Right Bank	Left Bank	Right Bank	Left Bank	Right Bank
Turf Grass	<input type="checkbox"/> Low	<input type="checkbox"/> Low	<input type="checkbox"/> Moderate	<input type="checkbox"/> Moderate	<input type="checkbox"/> High	<input type="checkbox"/> High
Grass	<input checked="" type="checkbox"/> Low	<input checked="" type="checkbox"/> Low	<input type="checkbox"/> Moderate	<input type="checkbox"/> Moderate	<input type="checkbox"/> High	<input type="checkbox"/> High
Shrubs	<input type="checkbox"/> Low	<input type="checkbox"/> Low	<input checked="" type="checkbox"/> Moderate	<input checked="" type="checkbox"/> Moderate	<input type="checkbox"/> High	<input type="checkbox"/> High
Deciduous Trees	<input type="checkbox"/> Low	<input type="checkbox"/> Low	<input type="checkbox"/> Moderate	<input type="checkbox"/> Moderate	<input checked="" type="checkbox"/> High	<input checked="" type="checkbox"/> High
Coniferous Trees	<input type="checkbox"/> Low	<input type="checkbox"/> Low	<input type="checkbox"/> Moderate	<input type="checkbox"/> Moderate	<input type="checkbox"/> High	<input type="checkbox"/> High

**Surrounding Land Use:** Mark the dominate land use(s) for each "zone", if known or observed.

Immediately adjacent to stream		< ¼ Mile from stream		> ¼ Mile from stream	
<input type="checkbox"/> Rural Residential	<input type="checkbox"/> Agricultural	<input type="checkbox"/> Rural Residential	<input type="checkbox"/> Agricultural	<input type="checkbox"/> Rural Residential	<input type="checkbox"/> Agricultural
<input type="checkbox"/> Suburban Residential	<input checked="" type="checkbox"/> Forested	<input type="checkbox"/> Suburban Residential	<input checked="" type="checkbox"/> Forested	<input type="checkbox"/> Suburban Residential	<input type="checkbox"/> Forested
<input checked="" type="checkbox"/> Urban Residential	<input type="checkbox"/> Recreational	<input checked="" type="checkbox"/> Urban Residential	<input type="checkbox"/> Recreational	<input checked="" type="checkbox"/> Urban Residential	<input type="checkbox"/> Recreational
<input type="checkbox"/> Industrial	<input type="checkbox"/> Other	<input type="checkbox"/> Industrial	<input type="checkbox"/> Other	<input type="checkbox"/> Industrial	<input type="checkbox"/> Other
<input type="checkbox"/> Commercial		<input type="checkbox"/> Commercial		<input type="checkbox"/> Commercial	

**Areas of Concern Checklist:** Marking "Yes" to any of the following questions indicates that an Area of Concern Worksheet should be filled out for the appropriate concern. For each occurrence observed, complete an area of concern sheet.

Is there evidence of either stream bank erosion or streambed instability within the reach?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Are there any dams or any other possible natural or artificial barriers to fish migration?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Are there any storm water outfalls, discharge pipes or discharges within the reach? Indicate the number observed: <u>6</u>	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
Is there any portion of the channel that has been modified (not culvert) (channeled, piped, rip rap)?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
Is there any portion of the reach where the riparian buffer has been compromised or is nonexistent?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
Is there any portion of the reach that contains trash or other debris (cars, appliances, construction waste)?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
Is there any portion of the reach that has a change in water conditions?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No

**Notes:** Use the space provided to record important observations otherwise not captured on the Reach Assessment Sheet or the Areas of Concern Worksheets.

**CT – NRCS  
Stream Assessment Worksheet**

Modified Channel

Survey Basin Code:	Date: 8/3/15
Name of Stream: Wintergreen Brook	Assessed By:
Reach Code: WB #1	CG West River Stewards
Designated Stream Type: Fresh	
Site ID:	

Make All Observations Facing *Downstream*

**Location / Extent of Modified Channel:** Mark and label the location of the modified channel on the map and provide a brief description of the location of the channel section relative to roads or other landmarks.

1. Bank behind 61 Springside Ave (right bank)
2. Both banks - section from Blake St Bridge to West River (Entire section)

**Mark where channel modification occurs:**

Meander Bend       Straight Section       Steep Slope/Valley Wall       Other

Estimate length of channel modification: ft. 900 - 1000 ft

Estimate height of bank modification: ft.

**Type of Manipulation:**       Channelization       Bank Armoring       Concrete Channel       Other

**Extent of Manipulation:**       Right Bank       Left Bank       Channel Bottom

**Channel / Bank Materials:**       Natural       Rip Rap       Concrete       Gabions       Metal

**Immediately Adjacent Land Use:** Mark the land use(s) immediately adjacent to the modified section.

Rural Residential       Urban Residential       Commercial       Forested

Suburban Residential       Industrial       Agricultural       Recreational

**Existing Width of Riparian Vegetation:** Mark the average width of riparian vegetation to the modified section.

< 15 ft.       15 - 35 ft.       35 - 50 ft.       50 - 100 ft       > 100 ft

Is there a change in the average width of the active channel?       Yes / Estimate Width: ft       No

Is there evidence of sediment deposition in the channel?       Yes       No

Is the channel connected to a floodplain?       Yes       No

**Notes:** Use the space provided to record important observations otherwise not captures on this sheet.

- Left bank has steel wall and transitions into stoned piled bank
- Right bank is concrete

**CT - NRCS  
Stream Assessment Worksheet**

Storm Water Outfall

Survey Basin Code:	Date: <u>8/3/15</u>
Name of Stream: <u>Wintergreen Brook</u>	Assessed By:
Reach Code: <u>WB # 1</u>	<u>CG River Stewards</u>
Designated Stream Type: <u>freshwater</u>	
Site ID:	

**Make All Observations Facing *Downstream***

**Location of Outfall:**  Right Bank  Left Bank Mark and label the location of the outfall on the map and provide a brief description of the location of the outfall relative to roads or other landmarks.

<b>Outfall Type:</b>	<input checked="" type="checkbox"/> Pipe	<input type="checkbox"/> Leak Off	<input type="checkbox"/> Channel	
<b>Flow:</b>	<input checked="" type="checkbox"/> None	<input type="checkbox"/> Trickle	<input type="checkbox"/> Moderate	<input type="checkbox"/> Substantial
<b>Odor:</b>	<input checked="" type="checkbox"/> None	<input type="checkbox"/> Sewage	<input type="checkbox"/> Rancid / Sour	<input type="checkbox"/> Sulfur (rotten eggs)
<b>Deposits / Stains</b>	<input checked="" type="checkbox"/> None	<input type="checkbox"/> Sediment Delta	<input type="checkbox"/> Oily Stain	<input type="checkbox"/> Black
<b>Benthic Growth</b>	<input checked="" type="checkbox"/> None	<input type="checkbox"/> Brown	<input type="checkbox"/> Green	<input type="checkbox"/> Orange

**Pipe Data:** Provide all relevant data.

<b>Pipe Material:</b>	<input checked="" type="checkbox"/> Concrete	<input type="checkbox"/> Corrugated Metal	<input type="checkbox"/> Plastic	<input type="checkbox"/> Other
<b>Contributing Source(s):</b>	<input type="checkbox"/> Road	<input checked="" type="checkbox"/> Parking Lot	<input type="checkbox"/> Other	<input type="checkbox"/> Unknown
<b>Pipe Outlet:</b>	<input checked="" type="checkbox"/> Perched..... ft.	<input type="checkbox"/> Ramped	<input type="checkbox"/> At Stream Level	
<b>Pipe Size:</b>	Diameter: <u>18 inches</u>	<u>24 inches</u>	<u>12 inches</u>	
<b># of Pipes:</b>	<input type="checkbox"/> 1	<input type="checkbox"/> 2	<input checked="" type="checkbox"/> 3+	

**Leak-Off Data:** Provide all relevant data.

<b>Leak-Off Swale:</b>	<input type="checkbox"/> Concrete	<input type="checkbox"/> Asphalt	<input type="checkbox"/> Stone	<input type="checkbox"/> Earthen
<b>Contributing Source (s):</b>	<input type="checkbox"/> Road	<input checked="" type="checkbox"/> Parking Lot	<input type="checkbox"/> Recreational Field	<input checked="" type="checkbox"/> Other
<b>Length of Swale:</b>	ft.			
<b>Width of Swale:</b>	ft.			

**Channel Data:** Provide all relevant data.

<b>Channel Material:</b>	<input type="checkbox"/> Concrete	<input type="checkbox"/> Asphalt	<input type="checkbox"/> Stone	<input type="checkbox"/> Earthen	
<b>Contributing Source (s):</b>	<input type="checkbox"/> Road	<input type="checkbox"/> Parking Lot	<input type="checkbox"/> Recreational Field	<input type="checkbox"/> Other	<input type="checkbox"/> Unknown
<b>Channel Length:</b>	ft.				
<b>Channel Width:</b>	ft.				

**Notes:** Use the space provided to record important observations otherwise not captures on this sheet.

- Old large concrete storm pipe - section broken and in brook (right bank)  
 - storm drain from Right Bank, drains under road - run off from West Rock  
 - Several storm drains from SCSU parking lot # 9

**CT – NRCS  
Stream Assessment Worksheet**

Degraded Buffer

Survey Basin Code:	Date: 8/3/15
Name of Stream: Wintergreen Brook	Assessed By:
Reach Code: WB 1	CG West River Stewards
Designated Stream Type: Fresh	
Site ID:	

Make All Observations Facing *Downstream*

**Location / Extent of Degraded Buffer:** 1) Mark and label the location of the degraded buffer on the map. 2) Briefly describe the location of the site relative to roads or other landmarks.

**Mark where the degraded buffer occurs.**

<input type="checkbox"/> Meander Bend	<input type="checkbox"/> Straight Section	<input checked="" type="checkbox"/> Steep Slope/Valley Wall	<input type="checkbox"/> Other
<input checked="" type="checkbox"/> Left Bank	Estimate length of degraded buffer: 200 ft.		
<input type="checkbox"/> Right Bank	Estimate length of degraded buffer: ft.		

**Type of Degradation:**

<b>Left Bank:</b>	<input type="checkbox"/> Minimal Vegetation	<input checked="" type="checkbox"/> Minimal Width	<input type="checkbox"/> Invasive Plants	<input type="checkbox"/> Other
<b>Right Bank:</b>	<input type="checkbox"/> Minimal Vegetation	<input type="checkbox"/> Minimal Width	<input type="checkbox"/> Invasive Plants	<input type="checkbox"/> Other

Dominate Land Cover	Paved	Bare Ground	Turf / Lawn	Tall Grass	Scrub / Shrub	Trees	Other
<b>Left Bank</b>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Right Bank</b>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

**Immediately Adjacent Land Use:** Mark the land use(s) immediately adjacent to the modified section.

<b>Left Bank:</b>	<input type="checkbox"/> Rural Residential	<input type="checkbox"/> Urban Residential	<input type="checkbox"/> Commercial	<input type="checkbox"/> Forested
	<input type="checkbox"/> Suburban Residential	<input type="checkbox"/> Industrial	<input type="checkbox"/> Agricultural	<input type="checkbox"/> Recreational
<b>Right Bank:</b>	<input type="checkbox"/> Rural Residential	<input type="checkbox"/> Urban Residential	<input checked="" type="checkbox"/> Commercial	<input type="checkbox"/> Forested
	<input type="checkbox"/> Suburban Residential	<input type="checkbox"/> Industrial	<input type="checkbox"/> Agricultural	<input type="checkbox"/> Recreational

**Existing Width of Riparian Vegetation:** Mark the average width of riparian vegetation to the modified section.

<b>Left Bank:</b>	<input checked="" type="checkbox"/> < 15 ft.	<input type="checkbox"/> 15 – 35 ft.	<input type="checkbox"/> 35 – 50 ft.	<input type="checkbox"/> 50 – 100 ft.	<input type="checkbox"/> > 100 ft.
<b>Right Bank:</b>	<input type="checkbox"/> < 15 ft.	<input type="checkbox"/> 15 – 35 ft.	<input type="checkbox"/> 35 – 50 ft.	<input type="checkbox"/> 50 – 100 ft.	<input type="checkbox"/> > 100 ft.

**Notes:** Use the space provided to record important observations otherwise not captures on this sheet.

- Bank is steep  
 - Buffer is small  
 - adjacent to large parking lot (scsu)

**CT - NRCS  
Stream Assessment Worksheet**

Trash / Debris

Survey Basin Code:	Date: 8/3/15
Name of Stream: Wintergreen Brook	Assessed By:
Reach Code: WB 01	CG River Stewards
Designated Stream Type: fresh water	
Site ID:	

**Make All Observations Facing *Downstream***

**Location / Extent of Trash or Debris:** Mark and label the location of the trash or debris on the map and provide a brief description of the location relative to roads or other landmarks.

① - Behind B'Nai Cemetary - several spots      ③ Trash in water  
 ② - Behind SCSU Parking lot (lot #9)

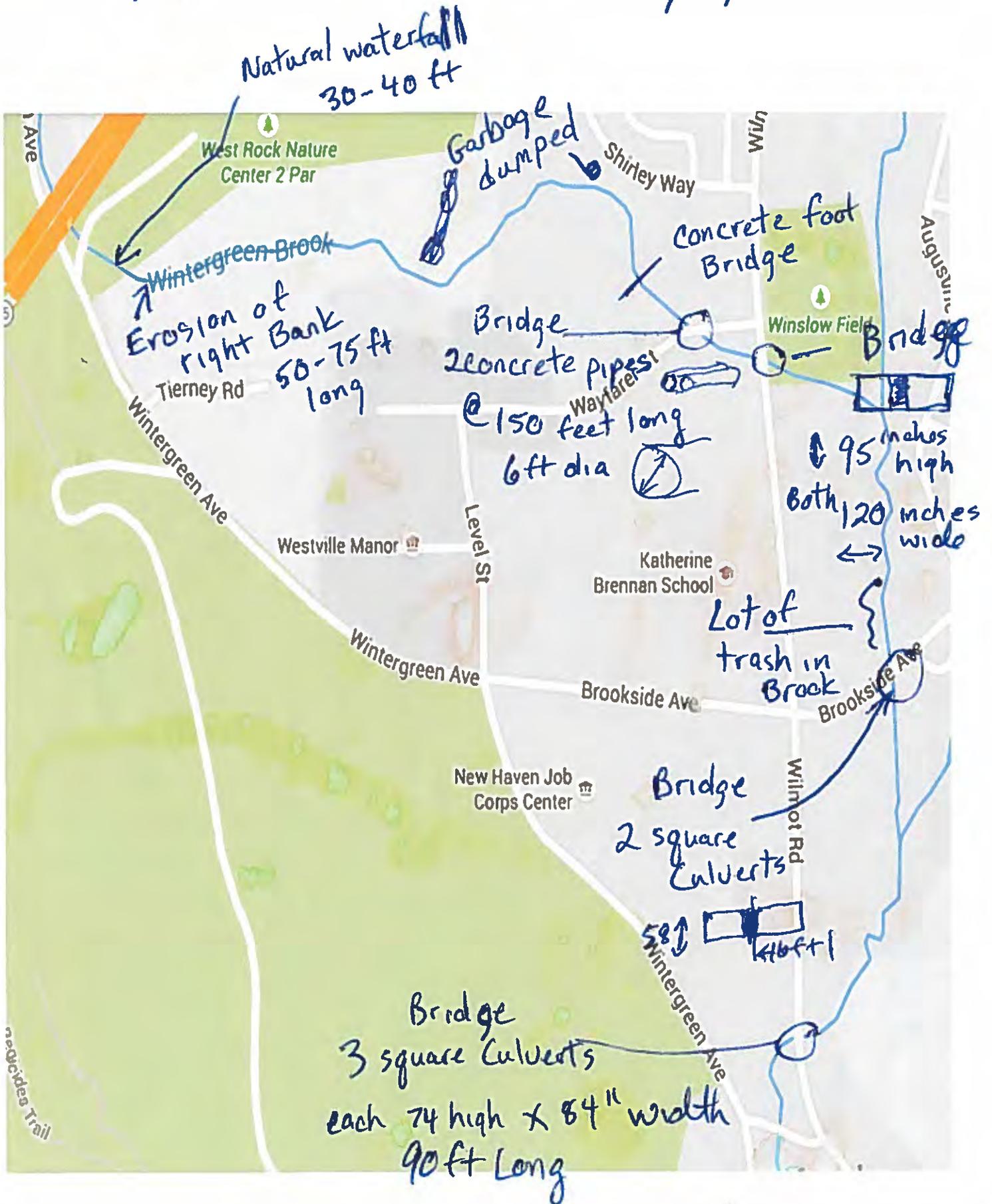
<input checked="" type="checkbox"/> Within Stream	<input checked="" type="checkbox"/> Riparian Area: <input checked="" type="checkbox"/> Left Bank <input type="checkbox"/> Right Bank
---	--

<b>Type:</b>	<input checked="" type="checkbox"/> Residential	<input type="checkbox"/> Commercial	<input type="checkbox"/> Industrial	
<b>Material:</b>	<input checked="" type="checkbox"/> Plastic	<input checked="" type="checkbox"/> Tires	<input checked="" type="checkbox"/> Appliances	<input type="checkbox"/> Other
	<input checked="" type="checkbox"/> Paper	<input checked="" type="checkbox"/> Metal	<input type="checkbox"/> Automotive	
	<input checked="" type="checkbox"/> Yard Waste	<input type="checkbox"/> Construction	<input type="checkbox"/> Medical	
<b>Source:</b>	<input checked="" type="checkbox"/> Unknown	<input checked="" type="checkbox"/> Flooding	<input type="checkbox"/> Illegal Dumping	<input type="checkbox"/> Local Outfall
<b>Land Ownership:</b>	<input type="checkbox"/> Private	<input type="checkbox"/> Public	<input checked="" type="checkbox"/> Unknown	

**Notes:** Use the space provided to record important observations otherwise not captures on this sheet.

- Lots of trash in water for entire reach

7/27/15



**CT-NRCS  
Stream Assessment Sheet**

Reach Level Assessment

Survey Basin Code:	Date(s): <u>7/27/15</u>
Name of Stream: <u>Wintergreen Brook</u>	Assessed By:
Reach Code: <u>WB2</u>	<u>CG West River Stewards</u>
Designated Stream Type: <u>Freshwater</u>	

Make All Observations Facing *Downstream*

Was the entire reach of stream surveyed?  Yes  No, Which section(s) were not surveyed? Why?

**Channel Morphology:** Mark the predominate condition(s), and indicate the average measurements.

<input type="checkbox"/> Step-Pool	<input checked="" type="checkbox"/> Pool-Riffle	<input type="checkbox"/> Run	<input type="checkbox"/> Glide	* <input type="checkbox"/> Manipulated Channel (piped, lined, etc.)
Active Channel Width: <u>15-20 ft</u>	Glide Depth:			
Riffle Depth: <u>3 inches</u>	Step Height:			
Pool Depth: <u>8-10 inches</u>	Bank Height (Right Bank): <u>10 inches</u>		Bank Height (Left Bank): <u>10 inches</u>	
Run Depth:				

**Substrate Composition:** Mark approximate percentages for each substrate type observed.

Silt or Clay	<input type="checkbox"/> <5%	<input type="checkbox"/> 5-25%	<input checked="" type="checkbox"/> 25-50%	<input type="checkbox"/> 50-75%	<input type="checkbox"/> >75%
Sand	<input type="checkbox"/> <5%	<input type="checkbox"/> 5-25%	<input type="checkbox"/> 25-50%	<input checked="" type="checkbox"/> 50-75%	<input type="checkbox"/> >75%
Gravel (0.1-2 inches)	<input type="checkbox"/> <5%	<input type="checkbox"/> 5-25%	<input checked="" type="checkbox"/> 25-50%	<input type="checkbox"/> 50-75%	<input type="checkbox"/> >75%
Cobble (2-10 inches)	<input type="checkbox"/> <5%	<input checked="" type="checkbox"/> 5-25%	<input type="checkbox"/> 25-50%	<input type="checkbox"/> 50-75%	<input type="checkbox"/> >75%
Boulder (>10 inches)	<input checked="" type="checkbox"/> <5%	<input type="checkbox"/> 5-25%	<input type="checkbox"/> 25-50%	<input type="checkbox"/> 50-75%	<input type="checkbox"/> >75%
Bedrock	<input type="checkbox"/> <5%	<input type="checkbox"/> 5-25%	<input type="checkbox"/> 25-50%	<input type="checkbox"/> 50-75%	<input type="checkbox"/> >75%

**Describe Water Conditions:** Mark all that apply.

<input checked="" type="checkbox"/> Clear	<input type="checkbox"/> Stained ("iced tea")	* <input type="checkbox"/> Turbid (muddy / silty)
* <input type="checkbox"/> Green	* <input type="checkbox"/> Rusty-Red	* <input type="checkbox"/> Milky
* <input type="checkbox"/> Odors	* <input type="checkbox"/> Other (foam, dyes, chemicals)	

**Aquatic Plants in Stream:**

Floating: (e.g. duck weed)	<input checked="" type="checkbox"/> Absent	<input type="checkbox"/> In Spots	* <input type="checkbox"/> Everywhere
Attached: (e.g. water lily)	<input type="checkbox"/> Absent	<input checked="" type="checkbox"/> In Spots	* <input type="checkbox"/> Everywhere

**Algae in Stream:**

Floating: (e.g. planktonic)	<input checked="" type="checkbox"/> Absent	<input type="checkbox"/> In Spots	* <input type="checkbox"/> Everywhere
Attached: (e.g. filamentous)	<input checked="" type="checkbox"/> Absent	<input type="checkbox"/> In Spots	* <input type="checkbox"/> Everywhere

**Canopy Cover:** Mark approximate percentage of stream covered by tree canopy.

<input type="checkbox"/> >75% covered	<input checked="" type="checkbox"/> 75-50% covered	<input type="checkbox"/> 50%-25% covered	<input type="checkbox"/> <25% covered
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**Area of Concern Worksheets**  
Indicate # and type of sheets completed for this reach assessment

Erosion	<input checked="" type="checkbox"/>
Fish Barrier	<input type="checkbox"/>
Storm Water Outfall	<input type="checkbox"/>
Modified Channel	<input type="checkbox"/>
Impacted Buffer	<input type="checkbox"/>
Trash / Debris	<input checked="" type="checkbox"/>
Water Conditions	<input type="checkbox"/>

Note: Items marked with an asterisk (\*) indicate a potential area of concern. Please record all relevant information on the appropriate Area of Concern Worksheet(s).

## CT-NRCS Stream Assessment Sheet

Reach Level Assessment

<b>Riparian Vegetation:</b> Characterize the average density of vegetation in the first 35 feet adjacent to the stream for both banks.						
	Left Bank	Right Bank	Left Bank	Right Bank	Left Bank	Right Bank
Turf Grass	<input type="checkbox"/> Low	<input type="checkbox"/> Low	<input type="checkbox"/> Moderate	<input type="checkbox"/> Moderate	<input type="checkbox"/> High	<input type="checkbox"/> High
Grass	<input type="checkbox"/> Low	<input type="checkbox"/> Low	<input checked="" type="checkbox"/> Moderate	<input checked="" type="checkbox"/> Moderate	<input type="checkbox"/> High	<input type="checkbox"/> High
Shrubs	<input type="checkbox"/> Low	<input type="checkbox"/> Low	<input checked="" type="checkbox"/> Moderate	<input checked="" type="checkbox"/> Moderate	<input type="checkbox"/> High	<input type="checkbox"/> High
Deciduous Trees	<input type="checkbox"/> Low	<input type="checkbox"/> Low	<input checked="" type="checkbox"/> Moderate	<input checked="" type="checkbox"/> Moderate	<input type="checkbox"/> High	<input type="checkbox"/> High
Coniferous Trees	<input type="checkbox"/> Low	<input type="checkbox"/> Low	<input type="checkbox"/> Moderate	<input type="checkbox"/> Moderate	<input type="checkbox"/> High	<input type="checkbox"/> High

<b>Surrounding Land Use:</b> Mark the dominate land use(s) for each "zone", if known or observed.					
Immediately adjacent to stream		< 1/4 Mile from stream		> 1/4 Mile from stream	
<input type="checkbox"/> Rural Residential	<input type="checkbox"/> Agricultural	<input type="checkbox"/> Rural Residential	<input type="checkbox"/> Agricultural	<input type="checkbox"/> Rural Residential	<input type="checkbox"/> Agricultural
<input type="checkbox"/> Suburban Residential	<input type="checkbox"/> Forested	<input type="checkbox"/> Suburban Residential	<input checked="" type="checkbox"/> Forested	<input type="checkbox"/> Suburban Residential	<input type="checkbox"/> Forested
<input checked="" type="checkbox"/> Urban Residential	<input type="checkbox"/> Recreational	<input checked="" type="checkbox"/> Urban Residential	<input type="checkbox"/> Recreational	<input checked="" type="checkbox"/> Urban Residential	<input type="checkbox"/> Recreational
<input type="checkbox"/> Industrial	<input type="checkbox"/> Other	<input type="checkbox"/> Industrial	<input type="checkbox"/> Other	<input type="checkbox"/> Industrial	<input type="checkbox"/> Other
<input type="checkbox"/> Commercial		<input type="checkbox"/> Commercial		<input type="checkbox"/> Commercial	

<b>Areas of Concern Checklist:</b> Marking "Yes" to any of the following questions indicates that an Area of Concern Worksheet should be filled out for the appropriate concern. For each occurrence observed, complete an area of concern sheet.		
Is there evidence of either stream bank erosion or streambed instability within the reach?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
Are there any dams or any other possible natural or artificial barriers to fish migration?	<input type="checkbox"/> Yes	<input type="checkbox"/> No
Are there any storm water outfalls, discharge pipes or discharges within the reach? Indicate the number observed: _____	<input type="checkbox"/> Yes	<input type="checkbox"/> No
Is there any portion of the channel that has been modified (not culvert) (channeled, piped, rip rap)?	<input type="checkbox"/> Yes	<input type="checkbox"/> No
Is there any portion of the reach where the riparian buffer has been compromised or is nonexistent?	<input type="checkbox"/> Yes	<input type="checkbox"/> No
Is there any portion of the reach that contains trash or other debris (cars, appliances, construction waste)?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
Is there any portion of the reach that has a change in water conditions?	<input type="checkbox"/> Yes	<input type="checkbox"/> No

**Notes:** Use the space provided to record important observations otherwise not captured on the Reach Assessment Sheet or the Areas of Concern Worksheets.

- Erosion is taking place at the beginning of reach (near West Rock Nature Center). The right bank which is 30 feet high is being eroded.
- Trash was found in a large pile near neighborhood bordering West Rock Nature Center.
- Large amounts of trash were in Brook in section between Winslow Field and Brookside Ave

**CT - NRCS  
Stream Assessment Worksheet**

Erosion Assessment

Survey Basin Code:	Date: 7/27/15
Name of Stream: Wintergreen Brook	Assessed By:
Reach Code: WB2	CG West River Stewards
Designated Stream Type: Freshwater	
Site ID:	

**Make All Observations Facing *Downstream***

**Location of Bank Erosion:** 1) Mark and label the location of the erosion on the map. 2) Briefly describe the location of the site relative to roads or other landmarks.

See WB2 google Map and Notes

**Mark where erosion is occurring:**

<input checked="" type="checkbox"/> Meander Bend	<input type="checkbox"/> Straight Section	<input type="checkbox"/> Steep Slope/Valley Wall	<input type="checkbox"/> Other
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**Site Dimensions:** Indicate all applicable measurements associated with the erosion site

<b>Length:</b>	Left Bank: ft.	Right Bank: 50-75 ft.
<b>Bank Height:</b>	Left Bank: ft.	Right Bank: 30-40 ft.
<b>Bank Angle:</b>	Left Bank: deg.	Right Bank: 70-80 deg.

**What is the proximity of the erosion site to infrastructure (e.g. road, bridge, building, etc.)?**

<input type="checkbox"/> < 15 ft.	<input type="checkbox"/> 15 - 30 ft.	<input type="checkbox"/> 30 - 45 ft.	<input type="checkbox"/> 45 - 60 ft.	<input type="checkbox"/> 60 - 100 ft.	<input checked="" type="checkbox"/> > 100 ft.
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**Immediately Adjacent Land Use:** Mark the land use(s) immediately adjacent to the erosion site.

<input type="checkbox"/> Rural Residential	<input type="checkbox"/> Urban Residential	<input type="checkbox"/> Commercial	<input type="checkbox"/> Forested
<input checked="" type="checkbox"/> Suburban Residential	<input type="checkbox"/> Industrial	<input type="checkbox"/> Agricultural	<input type="checkbox"/> Recreational

**Land Ownership:** Mark land ownership at the location of the erosion site.

<input type="checkbox"/> Public	<input type="checkbox"/> Private	<input checked="" type="checkbox"/> Unknown
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**Existing Width of Riparian Vegetation:** Mark the average width of riparian vegetation at the erosion site.

<input checked="" type="checkbox"/> < 15 ft.	<input type="checkbox"/> 15 - 35 ft.	<input type="checkbox"/> 35 - 50 ft.	<input type="checkbox"/> 50 - 100 ft.	<input type="checkbox"/> > 100 ft.
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**Notes:** Use the space provided to record important observations otherwise not captured on this sheet.

The entire Wall of Brook is being eroded (30-40ft) high.

**CT – NRCS  
Stream Assessment Worksheet**

Trash / Debris

Survey Basin Code:	Date: 7/27/18
Name of Stream: Wintergreen Brook	Assessed By:
Reach Code: WB 2	GG West River Stewards
Designated Stream Type: Freshwater	
Site ID:	

**Make All Observations Facing *Downstream***

**Location / Extent of Trash or Debris:** Mark and label the location of the trash or debris on the map and provide a brief description of the location relative to roads or other landmarks.

See WB2 google Map and Notes

Within Stream       Riparian Area:     Left Bank     Right Bank

<b>Type:</b>	<input checked="" type="checkbox"/> Residential	<input type="checkbox"/> Commercial	<input type="checkbox"/> Industrial	
<b>Material:</b>	<input checked="" type="checkbox"/> Plastic	<input checked="" type="checkbox"/> Tires	<input checked="" type="checkbox"/> Appliances	<input type="checkbox"/> Other
	<input type="checkbox"/> Paper	<input checked="" type="checkbox"/> Metal	<input checked="" type="checkbox"/> Automotive	
	<input type="checkbox"/> Yard Waste	<input type="checkbox"/> Construction	<input type="checkbox"/> Medical	
<b>Source:</b>	<input checked="" type="checkbox"/> Unknown	<input type="checkbox"/> Flooding	<input checked="" type="checkbox"/> Illegal Dumping	<input type="checkbox"/> Local Outfall
<b>Land Ownership:</b>	<input type="checkbox"/> Private	<input type="checkbox"/> Public	<input checked="" type="checkbox"/> Unknown	

**Notes:** Use the space provided to record important observations otherwise not captures on this sheet.

- Trash Pile was on Right Bank above Winslow Field several hundred yards
- Trash in Brook was highest in section below Winslow Field

7/20/15

7/20/15 start of Dam @ Lake Wintergreen 25-35 ft high all concrete + rocks

8-10ft width  
11 1/2 ft width  
5 1/2 ft length  
25 ft long  
Bridge/culvert  
Fish Barrier

Jehovah's Witnesses ch.

Wintergreen Ave

Wintergreen Ave

\* Fish Barrier  
Concrete ramp + Rock Aile

Modified Channel

Houses  
Carbonella Dr

Bridge/Culvert (concrete) Fish Barrier  
12 ft  
5 1/2 ft  
30 ft long

\* Fish Barrier

Modified Channel  
Sloped concrete wall @ 400ft

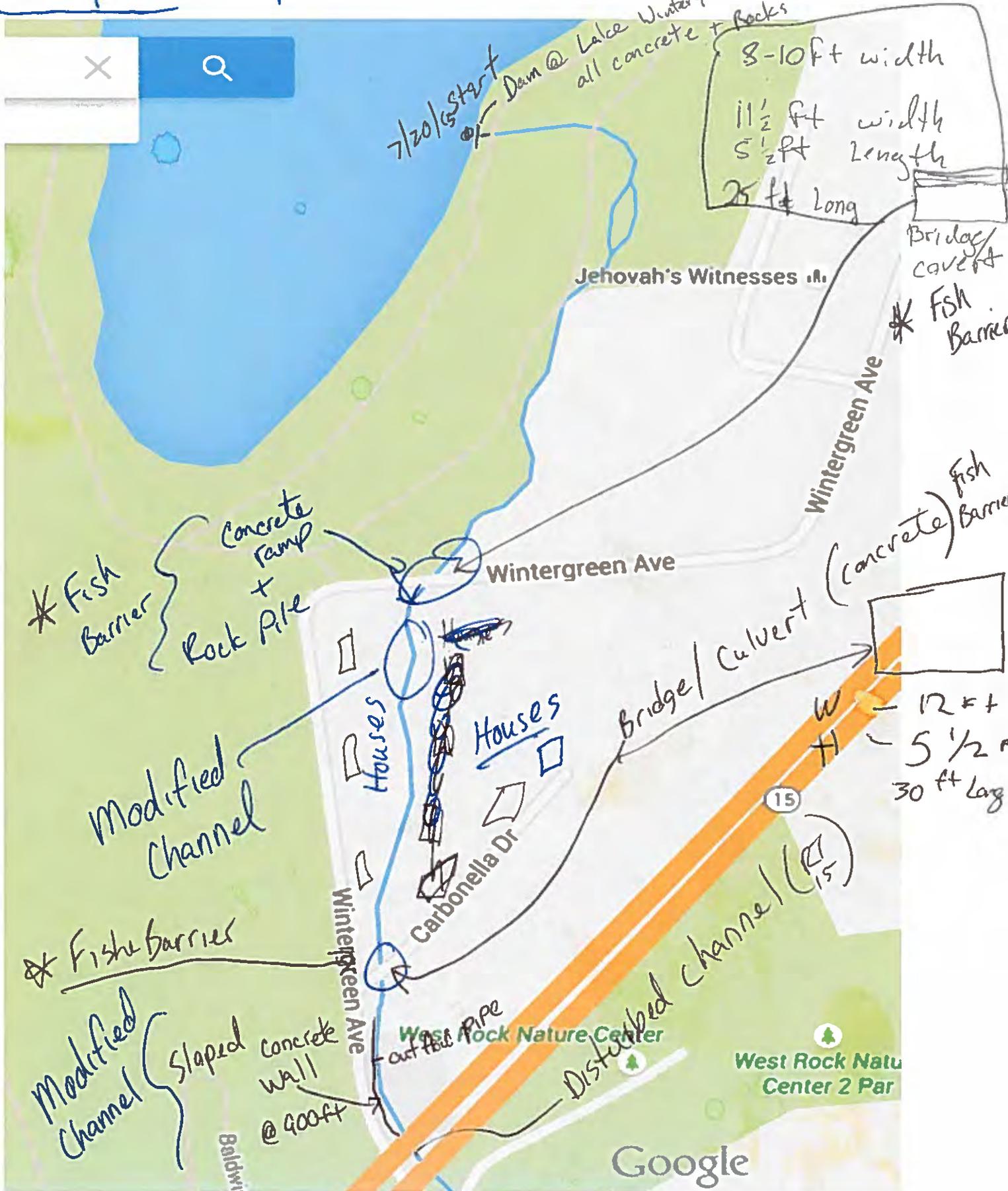
Wintergreen Ave

West Rock Nature Center

Disturbed channel (P15)

West Rock Natu Center 2 Par

Google



# CT-NRCS Stream Assessment Sheet

Reach Level Assessment

Survey Basin Code:	Date(s): 7-20-15
Name of Stream: Wintergreen Brook	Assessed By:
Reach Code: WB-3	CG West River Stewards
Designated Stream Type: Fresh Water	

Make All Observations Facing *Downstream*

Was the entire reach of stream surveyed?  Yes  No, Which section(s) were not surveyed? Why?

**Channel Morphology:** Mark the predominate condition(s), and indicate the average measurements.

<input type="checkbox"/> Step-Pool	<input checked="" type="checkbox"/> Pool-Riffle	<input type="checkbox"/> Run	<input type="checkbox"/> Glide	<input checked="" type="checkbox"/> Manipulated Channel (piped, lined, etc.)
Active Channel Width: 8-10 ft		Glide Depth:		
Riffle Depth: 1-2 inch		Step Height:		
Pool Depth: 5 inches		Bank Height (Right Bank): 3 inches		
Run Depth:		Bank Height (Left Bank): 3 inches		

**Substrate Composition:** Mark approximate percentages for each substrate type observed.

Silt or Clay	<input type="checkbox"/> <5%	<input type="checkbox"/> 5-25%	<input type="checkbox"/> 25-50%	<input type="checkbox"/> 50-75%	<input type="checkbox"/> >75%
Sand	<input type="checkbox"/> <5%	<input checked="" type="checkbox"/> 5-25%	<input type="checkbox"/> 25-50%	<input type="checkbox"/> 50-75%	<input type="checkbox"/> >75%
Gravel (0.1-2 inches)	<input type="checkbox"/> <5%	<input type="checkbox"/> 5-25%	<input type="checkbox"/> 25-50%	<input checked="" type="checkbox"/> 50-75%	<input type="checkbox"/> >75%
Cobble (2-10 inches)	<input type="checkbox"/> <5%	<input type="checkbox"/> 5-25%	<input checked="" type="checkbox"/> 25-50%	<input type="checkbox"/> 50-75%	<input type="checkbox"/> >75%
Boulder (>10 inches)	<input type="checkbox"/> <5%	<input checked="" type="checkbox"/> 5-25%	<input type="checkbox"/> 25-50%	<input type="checkbox"/> 50-75%	<input type="checkbox"/> >75%
Bedrock	<input type="checkbox"/> <5%	<input type="checkbox"/> 5-25%	<input type="checkbox"/> 25-50%	<input type="checkbox"/> 50-75%	<input type="checkbox"/> >75%

**Describe Water Conditions:** Mark all that apply.

<input checked="" type="checkbox"/> Clear	<input type="checkbox"/> Stained ("iced tea")	<input type="checkbox"/> Turbid (muddy / silty)
<input type="checkbox"/> Green	<input type="checkbox"/> Rusty-Red	<input type="checkbox"/> Milky
<input type="checkbox"/> Odors	<input type="checkbox"/> Other (foam, dyes, chemicals)	

**Aquatic Plants in Stream:**

Floating: (e.g. duck weed)	<input checked="" type="checkbox"/> Absent	<input type="checkbox"/> In Spots	<input type="checkbox"/> Everywhere
Attached: (e.g. water lily)	<input type="checkbox"/> Absent	<input checked="" type="checkbox"/> In Spots	<input type="checkbox"/> Everywhere

**Algae in Stream:**

Floating: (e.g. planktonic)	<input type="checkbox"/> Absent	<input checked="" type="checkbox"/> In Spots	<input type="checkbox"/> Everywhere
Attached: (e.g. filamentous)	<input type="checkbox"/> Absent	<input checked="" type="checkbox"/> In Spots	<input type="checkbox"/> Everywhere

**Canopy Cover:** Mark approximate percentage of stream covered by tree canopy.

<input type="checkbox"/> >75% covered	<input type="checkbox"/> 75-50% covered	<input checked="" type="checkbox"/> 50%-25% covered	<input type="checkbox"/> <25% covered
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**Area of Concern Worksheets**  
Indicate # and type of sheets completed for this reach assessment

Erosion	
Fish Barrier	2
Storm Water Outfall	
Modified Channel	2
Impacted Buffer	
Trash / Debris	
Water Conditions	

Note: Items marked with an asterisk (\*) indicate a potential area of concern. Please record all relevant information on the appropriate Area of Concern Worksheet(s).

**Stream Assessment Sheet**

Reach Level Assessment

<b>Riparian Vegetation:</b> Characterize the average density of vegetation in the first 35 feet adjacent to the stream for both banks.						
	Left Bank	Right Bank	Left Bank	Right Bank	Left Bank	Right Bank
Turf Grass	<input type="checkbox"/> Low	<input type="checkbox"/> Low	<input type="checkbox"/> Moderate	<input type="checkbox"/> Moderate	<input type="checkbox"/> High	<input type="checkbox"/> High
Grass	<input checked="" type="checkbox"/> Low	<input checked="" type="checkbox"/> Low	<input type="checkbox"/> Moderate	<input type="checkbox"/> Moderate	<input type="checkbox"/> High	<input type="checkbox"/> High
Shrubs	<input type="checkbox"/> Low	<input type="checkbox"/> Low	<input checked="" type="checkbox"/> Moderate	<input checked="" type="checkbox"/> Moderate	<input type="checkbox"/> High	<input type="checkbox"/> High
Deciduous Trees	<input type="checkbox"/> Low	<input type="checkbox"/> Low	<input type="checkbox"/> Moderate	<input type="checkbox"/> Moderate	<input checked="" type="checkbox"/> High	<input checked="" type="checkbox"/> High
Coniferous Trees	<input type="checkbox"/> Low	<input type="checkbox"/> Low	<input type="checkbox"/> Moderate	<input type="checkbox"/> Moderate	<input type="checkbox"/> High	<input type="checkbox"/> High

<b>Surrounding Land Use:</b> Mark the dominate land use(s) for each "zone", if known or observed.					
Immediately adjacent to stream		< 1/4 Mile from stream		> 1/4 Mile from stream	
<input type="checkbox"/> Rural Residential	<input type="checkbox"/> Agricultural	<input checked="" type="checkbox"/> Rural Residential	<input type="checkbox"/> Agricultural	<input checked="" type="checkbox"/> Rural Residential	<input type="checkbox"/> Agricultural
<input type="checkbox"/> Suburban Residential	<input checked="" type="checkbox"/> Forested	<input type="checkbox"/> Suburban Residential	<input type="checkbox"/> Forested	<input type="checkbox"/> Suburban Residential	<input checked="" type="checkbox"/> Forested
<input type="checkbox"/> Urban Residential	<input type="checkbox"/> Recreational	<input type="checkbox"/> Urban Residential	<input type="checkbox"/> Recreational	<input type="checkbox"/> Urban Residential	<input type="checkbox"/> Recreational
<input type="checkbox"/> Industrial	<input type="checkbox"/> Other	<input type="checkbox"/> Industrial	<input type="checkbox"/> Other	<input type="checkbox"/> Industrial	<input type="checkbox"/> Other
<input type="checkbox"/> Commercial		<input type="checkbox"/> Commercial		<input type="checkbox"/> Commercial	

<b>Areas of Concern Checklist:</b> Marking "Yes" to any of the following questions indicates that an Area of Concern Worksheet should be filled out for the appropriate concern. For each occurrence observed, complete an area of concern sheet.		
Is there evidence of either stream bank erosion or streambed instability within the reach?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Are there any dams or any other possible natural or artificial barriers to fish migration?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
Are there any storm water outfalls, discharge pipes or discharges within the reach? Indicate the number observed: _____	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
Is there any portion of the channel that has been modified (not culvert) (channeled, piped, rip rap)?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
Is there any portion of the reach where the riparian buffer has been compromised or is nonexistent?	<input type="checkbox"/> Yes	<input type="checkbox"/> No
Is there any portion of the reach that contains trash or other debris (cars, appliances, construction waste)?	<input type="checkbox"/> Yes	<input type="checkbox"/> No
Is there any portion of the reach that has a change in water conditions?	<input type="checkbox"/> Yes	<input type="checkbox"/> No

**Notes:** Use the space provided to record important observations otherwise not captured on the Reach Assessment Sheet or the Areas of Concern Worksheets.



**CT - NRCS  
Stream Assessment Worksheet**

Modified Channel

Survey Basin Code:	Date: 7/20/15
Name of Stream: Wintergreen Brook	Assessed By:
Reach Code: WB 3	
Designated Stream Type: Fresh Water	
Site ID:	

Make All Observations Facing *Downstream*

**Location / Extent of Modified Channel:** Mark and label the location of the modified channel on the map and provide a brief description of the location of the channel section relative to roads or other landmarks.

1. Down stream of Wintergreen Ave Bridge  
 2. Above, Under, and Down stream of Rt 15 Bridge

**Mark where channel modification occurs:**

<input type="checkbox"/> Meander Bend	<input checked="" type="checkbox"/> Straight Section	<input type="checkbox"/> Steep Slope/Valley Wall	<input type="checkbox"/> Other
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Estimate length of channel modification: 400 ft.  
 Estimate height of bank modification: 3-6 ft.

<b>Type of Manipulation:</b>	<input checked="" type="checkbox"/> Channelization	<input checked="" type="checkbox"/> Bank Armoring	<input checked="" type="checkbox"/> Concrete Channel	<input type="checkbox"/> Other	
<b>Extent of Manipulation:</b>	<input checked="" type="checkbox"/> Right Bank	<input checked="" type="checkbox"/> Left Bank	<input type="checkbox"/> Channel Bottom		
<b>Channel / Bank Materials:</b>	<input type="checkbox"/> Natural	<input type="checkbox"/> Rip Rap	<input checked="" type="checkbox"/> Concrete	<input type="checkbox"/> Gabions	<input type="checkbox"/> Metal

**Immediately Adjacent Land Use:** Mark the land use(s) immediately adjacent to the modified section.

<input type="checkbox"/> Rural Residential	<input type="checkbox"/> Urban Residential	<input type="checkbox"/> Commercial	<input type="checkbox"/> Forested
<input checked="" type="checkbox"/> Suburban Residential	<input checked="" type="checkbox"/> Industrial	<input type="checkbox"/> Agricultural	<input type="checkbox"/> Recreational

**Existing Width of Riparian Vegetation:** Mark the average width of riparian vegetation to the modified section.

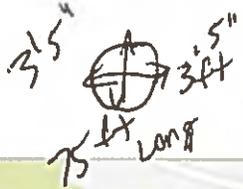
<input checked="" type="checkbox"/> < 15 ft.	<input type="checkbox"/> 15 - 35 ft.	<input type="checkbox"/> 35 - 50 ft.	<input type="checkbox"/> 50 - 100 ft.	<input type="checkbox"/> > 100 ft.
--	--------------------------------------	--------------------------------------	---------------------------------------	------------------------------------

Is there a change in the average width of the active channel?	<input type="checkbox"/> Yes / Estimate Width:    ft	<input checked="" type="checkbox"/> No
Is there evidence of sediment deposition in the channel?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Is the channel connected to a floodplain?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No

**Notes:** Use the space provided to record important observations otherwise not captures on this sheet.

WB-4 Mountain Road to Lake Wintergreen

@ 300 +3 900



Storm drain

Runs water 6ft concrete culvert 1ft deep

small stream active

Pool depth  
riffle depth

large culvert concrete 2 1/2 dia. 24' 2 inch long

Fish barrier

Culvert

@ 900 ft concrete tunnel

cloudy water 15ft stained brownish

Drain other side of path

metal culvert

storm water

6" culvert

active channel 8 ft

6" culvert storm water

1 inch 4 deep

4 1/2 stream channel Main St

Bentham Hill Pt

attached vegetation

West Rock Ridge State Park

2 ft deep

15 ft width

20-25 ft

very deep

Duck Weed

Mansur Rd

Wintergreen Ave

Valerie

Map da

Duckweed everywhere



**CT-NRCS  
Stream Assessment Sheet**

Reach Level Assessment

Survey Basin Code:	Date(s): 7/13/2015
Name of Stream: Wintergreen Brook	Assessed By: WR Stewards
Reach Code: WB-4	
Designated Stream Type: Fresh Water	

Make All Observations Facing *Downstream*

Was the entire reach of stream surveyed?  Yes  No, Which section(s) were not surveyed? Why?

**Channel Morphology:** Mark the predominate condition(s), and indicate the average measurements.

<input type="checkbox"/> Step-Pool	<input checked="" type="checkbox"/> Pool-Riffle	<input type="checkbox"/> Run	<input checked="" type="checkbox"/> Glide	* <input type="checkbox"/> Manipulated Channel (piped, lined, etc.)
Active Channel Width: 8ft	Glide Depth: 6 inches			
Riffle Depth: 2-3 inches	Step Height:			
Pool Depth: 8 inches	Bank Height (Right Bank): 8 inches			
Run Depth:	Bank Height (Left Bank): 8 inches			

**Substrate Composition:** Mark approximate percentages for each substrate type observed.

Silt or Clay	<input type="checkbox"/> <5%	<input type="checkbox"/> 5-25%	<input type="checkbox"/> 25-50%	<input type="checkbox"/> 50-75%	<input checked="" type="checkbox"/> >75%
Sand	<input type="checkbox"/> <5%	<input checked="" type="checkbox"/> 5-25%	<input type="checkbox"/> 25-50%	<input type="checkbox"/> 50-75%	<input type="checkbox"/> >75%
Gravel (0.1-2 inches)	<input checked="" type="checkbox"/> <5%	<input type="checkbox"/> 5-25%	<input type="checkbox"/> 25-50%	<input type="checkbox"/> 50-75%	<input type="checkbox"/> >75%
Cobble (2-10 inches)	<input type="checkbox"/> <5%	<input type="checkbox"/> 5-25%	<input type="checkbox"/> 25-50%	<input type="checkbox"/> 50-75%	<input type="checkbox"/> >75%
Boulder (>10 inches)	<input type="checkbox"/> <5%	<input type="checkbox"/> 5-25%	<input type="checkbox"/> 25-50%	<input type="checkbox"/> 50-75%	<input type="checkbox"/> >75%
Bedrock	<input type="checkbox"/> <5%	<input type="checkbox"/> 5-25%	<input type="checkbox"/> 25-50%	<input type="checkbox"/> 50-75%	<input type="checkbox"/> >75%

**Describe Water Conditions:** Mark all that apply.

<input checked="" type="checkbox"/> Clear	<input checked="" type="checkbox"/> Stained ("iced tea")	* <input type="checkbox"/> Turbid (muddy / silty)
* <input type="checkbox"/> Green	* <input type="checkbox"/> Rusty-Red	* <input checked="" type="checkbox"/> Milky
* <input type="checkbox"/> Odors	* <input type="checkbox"/> Other (foam, dyes, chemicals)	

**Aquatic Plants in Stream:**

Floating: (e.g. duck weed)	<input type="checkbox"/> Absent	<input checked="" type="checkbox"/> In Spots	* <input type="checkbox"/> Everywhere
Attached: (e.g. water lily)	<input type="checkbox"/> Absent	<input checked="" type="checkbox"/> In Spots	* <input type="checkbox"/> Everywhere

**Algae in Stream:**

Floating: (e.g. planktonic)	<input checked="" type="checkbox"/> Absent	<input type="checkbox"/> In Spots	* <input type="checkbox"/> Everywhere
Attached: (e.g. filamentous)	<input type="checkbox"/> Absent	<input checked="" type="checkbox"/> In Spots	* <input type="checkbox"/> Everywhere

**Canopy Cover:** Mark approximate percentage of stream covered by tree canopy.

<input checked="" type="checkbox"/> >75% covered	<input type="checkbox"/> 75-50% covered	<input type="checkbox"/> 50%-25% covered	<input type="checkbox"/> < 25% covered
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**Area of Concern Worksheets**  
Indicate # and type of sheets completed for this reach assessment.

Erosion	
Fish Barrier	
Storm Water Outfall	4
Modified Channel	1
Impacted Buffer	
Trash / Debris	
Water Conditions	3

Note: Items marked with an asterisk (\*) indicate a potential area of concern. Please record all relevant information on the appropriate Area of Concern Worksheet(s).

WB 4

CT-NRCS  
Stream Assessment Sheet

Reach Level Assessment

**Riparian Vegetation:** Characterize the average density of vegetation in the first 35 feet adjacent to the stream for both banks.

	<del>Left Bank</del>	<del>Right Bank</del>	Left Bank	Right Bank	<del>Left Bank</del>	<del>Right Bank</del>
Turf Grass	<input type="checkbox"/> Low	<input type="checkbox"/> Low	<input type="checkbox"/> Moderate	<input type="checkbox"/> Moderate	<input checked="" type="checkbox"/> High	<input type="checkbox"/> High
Grass	<input checked="" type="checkbox"/> Low	<input checked="" type="checkbox"/> Low	<input type="checkbox"/> Moderate	<input type="checkbox"/> Moderate	<input type="checkbox"/> High	<input type="checkbox"/> High
Shrubs	<input type="checkbox"/> Low	<input type="checkbox"/> Low	<input checked="" type="checkbox"/> Moderate	<input checked="" type="checkbox"/> Moderate	<input type="checkbox"/> High	<input type="checkbox"/> High
Deciduous Trees	<input type="checkbox"/> Low	<input type="checkbox"/> Low	<input type="checkbox"/> Moderate	<input type="checkbox"/> Moderate	<input checked="" type="checkbox"/> High	<input checked="" type="checkbox"/> High
Coniferous Trees	<input type="checkbox"/> Low	<input type="checkbox"/> Low	<input checked="" type="checkbox"/> Moderate	<input checked="" type="checkbox"/> Moderate	<input type="checkbox"/> High	<input type="checkbox"/> High

**Surrounding Land Use:** Mark the dominate land use(s) for each "zone", if known or observed.

Immediately adjacent to stream		< 1/4 Mile from stream		> 1/4 Mile from stream	
<input type="checkbox"/> Rural Residential	<input type="checkbox"/> Agricultural	<input type="checkbox"/> Rural Residential	<input type="checkbox"/> Agricultural	<input type="checkbox"/> Rural Residential	<input checked="" type="checkbox"/> Agricultural
<input checked="" type="checkbox"/> Suburban Residential	<input checked="" type="checkbox"/> Forested	<input type="checkbox"/> Suburban Residential	<input checked="" type="checkbox"/> Forested	<input type="checkbox"/> Suburban Residential	<input checked="" type="checkbox"/> Forested
<input type="checkbox"/> Urban Residential	<input checked="" type="checkbox"/> Recreational	<input type="checkbox"/> Urban Residential	<input type="checkbox"/> Recreational	<input type="checkbox"/> Urban Residential	<input type="checkbox"/> Recreational
<input type="checkbox"/> Industrial	<input type="checkbox"/> Other	<input type="checkbox"/> Industrial	<input type="checkbox"/> Other	<input type="checkbox"/> Industrial	<input type="checkbox"/> Other
<input type="checkbox"/> Commercial		<input type="checkbox"/> Commercial		<input type="checkbox"/> Commercial	

**Areas of Concern Checklist:** Marking "Yes" to any of the following questions indicates that an Area of Concern Worksheet should be filled out for the appropriate concern. For each occurrence observed, complete and area of concern sheet.

Is there evidence of either stream bank erosion or streambed instability within the reach?	<input type="checkbox"/> Yes	<input type="checkbox"/> No
Are there any dams or any other possible natural or artificial barriers to fish migration?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
Are there any storm water outfalls, discharge pipes or discharges within the reach? Indicate the number observed:	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
Is there any portion of the channel that has been modified (not culvert) (channeled, piped, rip rap)?	<input type="checkbox"/> Yes	<input type="checkbox"/> No
Is there any portion of the reach where the riparian buffer has been compromised or is nonexistent?	<input type="checkbox"/> Yes	<input type="checkbox"/> No
Is there any portion of the reach that contains trash or other debris (cars, appliances, construction waste)?	<input type="checkbox"/> Yes	<input type="checkbox"/> No
Is there any portion of the reach that has a change in water conditions?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No

**Notes:** Use the space provided to record important observations otherwise not captured on the Reach Assessment Sheet or the Areas of Concern Worksheets.

- There are several pipes that run under the pathway that drains water from wet lands to the Wintergreen Brook. most are on Right Bank, some on Left bank.

# CT – NRCS Stream Assessment Worksheet

Fish Barrier

Survey Basin Code:	Date: 7/13/2015 (assessed) 8/31/2015 (transcribed)
Name of Stream: Wintergreen Brook	Assessed By: Common Ground West River Stewards
Reach Code: WB 4	Kendall Barbery on hand for a portion of the survey
Designated Stream Type:	
Site ID:	

**Make All Observations Facing *Downstream***

**Location of Barrier:** Mark and label the location of the barrier on the map and provide a brief description of the location of the barrier relative to roads or other landmarks.

1/3 of the way between Lake Wintergreen and Mountain Road (from south to north)—stream passes through a culvert

**Type of Barrier:** Mark the type of fish barrier.

<input type="checkbox"/> Dam	<input checked="" type="checkbox"/> Culvert	<input type="checkbox"/> Velocity Barrier	<input type="checkbox"/> Other
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**Dam Data:** Provide all relevant data.

**Height of Dam:** ft. | **Length of Spillway:** ft. | **Shape of Spillway:**  Straight  Crescent

**Materials:**  Stone  Concrete  Stone & Concrete  Timber-Crib  Other

**Is there other infrastructure associated with the Dam?**  No  Yes (If yes mark the type below)

<input type="checkbox"/> Factory	<input type="checkbox"/> Hydro Facility	<input type="checkbox"/> Mill	<input type="checkbox"/> Residence <input type="checkbox"/> Other
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**Culvert Data:** Provide all relevant data.

**Type of Culvert:**  Box  Pipe  Pipe-Arch  Arch

**Culvert Material:**  Concrete  Corrugated Metal  Plastic  Stone

**Culvert Outlet:**  Perched:..... ft.  Ramped  Submerged

**Culvert Size:** Diameter: 6" | Height: ft. | Width: ft.

**# of Culverts:** | **Culvert Length:** 8 ft.

**Velocity Barrier Data:** Provide all relevant data.

**Nature of Barrier:**  Grade Control Sill  Concrete Apron  Channel Cross-Section  Other

**Length of Barrier:** ft. | **Approx. Vertical Rise:** ft.

**Notes:** Use the space provided to record important observations otherwise not captured on this sheet.

Stream passes through culvert as adjacent road shifts from left bank to right bank.

**CT – NRCS  
Stream Assessment Worksheet**

Modified Channel

Survey Basin Code:	Date: 7/13/2015 (assessed) 8/31/2015 (transcribed)
Name of Stream: Wintergreen Brook	Assessed By: Common Ground West River Stewards
Reach Code: WB 4	Kendall Barbery on hand for a portion of the survey
Designated Stream Type:	
Site ID:	

**Make All Observations Facing *Downstream***

**Location / Extent of Modified Channel:** Mark and label the location of the modified channel on the **map** and provide a brief description of the location of the channel section relative to roads or other landmarks.

The entire reach is channelized, from the pond in LW5 to Lake Wintergreen. There is an old road, now foot path adjacent to the stream. Several culverts connect a surrounding wetland area to the main stem of the brook.

This worksheet highlights an extensive culvert that the brook passes through near the northern end of the reach 750 feet according to aerial scan on Google Maps. 900 feet paced out by D. Edgeworth in the field. See attached Google Map and screen shot of 1934 aerial survey.

**Mark where channel modification occurs:**

Meander Bend       Straight Section       Steep Slope/Valley Wall       Other

**Estimate length of channel modification:** 750-800 ft.

**Estimate height of bank modification:** 5' high 6'8" wide

<b>Type of Manipulation:</b>	<input type="checkbox"/> Channelization	<input type="checkbox"/> Bank Armoring	<input type="checkbox"/> Concrete Channel	<input checked="" type="checkbox"/> Other
<b>Extent of Manipulation:</b>	<input checked="" type="checkbox"/> Right Bank	<input checked="" type="checkbox"/> Left Bank	<input type="checkbox"/> Channel Bottom	
<b>Channel / Bank Materials:</b>	<input type="checkbox"/> Natural	<input type="checkbox"/> Rip Rap	<input checked="" type="checkbox"/> Concrete	<input type="checkbox"/> Gabions <input type="checkbox"/> Metal

**Immediately Adjacent Land Use:** Mark the land use(s) immediately adjacent to the modified section.

Rural Residential       Urban Residential       Commercial       Forested  
 Suburban Residential       Industrial       Agricultural       Recreational

**Existing Width of Riparian Vegetation:** Mark the average width of riparian vegetation to the modified section.

< 15 ft.       15 – 35 ft.       35 – 50 ft.       50 – 100 ft       > 100 ft

Is there a change in the average width of the active channel?	<input checked="" type="checkbox"/> Yes / Estimate Width: 2 ft	<input type="checkbox"/> No
Is there evidence of sediment deposition in the channel?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
Is the channel connected to a floodplain?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No

**Notes:** Use the space provided to record important observations otherwise not captures on this sheet.

The culvert is made of stone and concrete. The top of it is covered with soil and vegetation. There is a section right at the beginning that lacks canopy. The remainder is vegetated and has emergent canopy—mixed coniferous and deciduous.

Use the search box below to locate an address in Connecticut.

intergreen, hamden, ct

**WB4 - MODIFIED**

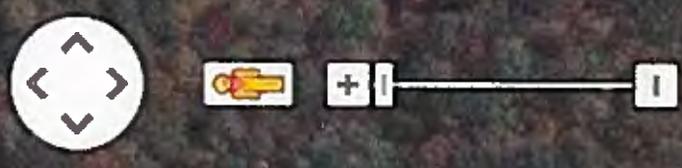
Address

**1934 + 7012**



Toggle map layers

**CHANNING**



Google

Map Data 50 m Terms of Use Report a r

50 m Terms of Use

## CT – NRCS Stream Assessment Worksheet

Storm Water Outfall

Survey Basin Code:	Date: 7/13/2015 (assessed) 8/31/2015 (transcribed)
Name of Stream: Wintergreen Brook	Assessed By: Common Ground West River Stewards
Reach Code: WB 4	Kendall Barbery on hand for a portion of the survey
Designated Stream Type:	
Site ID:	

### Make All Observations Facing *Downstream*

**Location of Outfall:**  Right Bank  Left Bank Mark and label the location of the outfall on the map and provide a brief description of the location of the outfall relative to roads or other landmarks.

Several culverts were observed along the right bank, which appear to connect surrounding wetland areas to the main stem of Wintergreen Brook—which are otherwise blocked by a road/path that extends the length of the channel between Mountain Road and Lake Wintergreen.

One 6" culvert was perched several feet above the stream level. The main stem of the channel passed through an 8' long 6" diameter culvert about 1/3<sup>rd</sup> of the way between Lake Wintergreen and Mountain Road. Two larger outfalls, each about 2'6" in diameter and 24'2" long were partially submerged in the channel. The area around these two outfalls was particularly eroded, possibly for back eddies that occur during high flow conditions—which has led to some channel widening immediately around the outfall as well as sediment deposition immediately downstream of the outfall.

<b>Outfall Type:</b>	<input checked="" type="checkbox"/> Pipe	<input type="checkbox"/> Leak Off	<input type="checkbox"/> Channel	
<b>Flow:</b>	<input checked="" type="checkbox"/> None	<input type="checkbox"/> Trickle	<input type="checkbox"/> Moderate	<input type="checkbox"/> Substantial
<b>Odor:</b>	<input checked="" type="checkbox"/> None	<input type="checkbox"/> Sewage	<input type="checkbox"/> Rancid / Sour	<input type="checkbox"/> Sulfur (rotten eggs)
<b>Deposits / Stains</b>	<input checked="" type="checkbox"/> None	<input type="checkbox"/> Sediment Delta	<input type="checkbox"/> Oily Stain	<input type="checkbox"/> Black
<b>Benthic Growth</b>	<input checked="" type="checkbox"/> None	<input type="checkbox"/> Brown	<input type="checkbox"/> Green	<input type="checkbox"/> Orange

#### Pipe Data: Provide all relevant data.

<b>Pipe Material:</b>	<input checked="" type="checkbox"/> Concrete	<input type="checkbox"/> Corrugated Metal	<input type="checkbox"/> Plastic	<input checked="" type="checkbox"/> Other
<b>Contributing Source(s):</b>	<input type="checkbox"/> Road	<input type="checkbox"/> Parking Lot	<input checked="" type="checkbox"/> Other	<input type="checkbox"/> Unknown
<b>Pipe Outlet:</b>	<input type="checkbox"/> Perched..... 4 ft.	<input type="checkbox"/> Ramped	<input checked="" type="checkbox"/> At Stream Level	
<b>Pipe Size:</b>	Diameter:                      ft.			
<b># of Pipes:</b>	x 2 @ 6" diameter (one in main stem of channel—that brook passes through, one connecting wetland area to channel)	x 2 @ 2'6" diameter, 24' long	<input type="checkbox"/> 3 +	

#### Leak-Off Data: Provide all relevant data.

<b>Leak-Off Swale:</b>	<input type="checkbox"/> Concrete	<input type="checkbox"/> Asphalt	<input type="checkbox"/> Stone	<input type="checkbox"/> Earthen
<b>Contributing Source (s):</b>	<input type="checkbox"/> Road	<input type="checkbox"/> Parking Lot	<input type="checkbox"/> Recreational Field	<input type="checkbox"/> Other
<b>Length of Swale:</b> ft.				
<b>Width of Swale:</b> ft.				

#### Channel Data: Provide all relevant data.

<b>Channel Material:</b>	<input type="checkbox"/> Concrete	<input type="checkbox"/> Asphalt	<input type="checkbox"/> Stone	<input type="checkbox"/> Earthen
<b>Contributing Source (s):</b>	<input type="checkbox"/> Road	<input type="checkbox"/> Parking Lot	<input type="checkbox"/> Recreational Field	<input type="checkbox"/> Other <input type="checkbox"/> Unknown
<b>Channel Length:</b> ft.				
<b>Channel Width:</b> ft.				

**Notes:** Use the space provided to record important observations otherwise not captures on this sheet.

## CT – NRCS Stream Assessment Worksheet

### Visual Water Conditions / Excessive Plant or Algae Growth

Survey Basin Code:	Date: 7/13/2015 (assessed) 8/31/2015 (transcribed)
Name of Stream: Wintergreen Brook	Assessed By: Common Ground West River Stewards
Reach Code: WB 4	Kendall Barbery on hand for a portion of the survey
Designated Stream Type:	
Site ID:	

**Make All Observations Facing *Downstream***

**Location / Extent of Visual Water Conditions and/or Excessive Plant or Algae Growth:** 1) Mark and label the location on the map. 2) Briefly describe the location of the site relative to roads or other landmarks.

The channel, just north of the inlet to Lake Wintergreen, is covered in duckweed

**Immediately Adjacent Land Use:** Mark the land use(s) immediately adjacent to the modified section.

<input checked="" type="checkbox"/> Rural Residential	<input type="checkbox"/> Urban Residential	<input type="checkbox"/> Commercial	<input checked="" type="checkbox"/> Forested
<input type="checkbox"/> Suburban Residential	<input type="checkbox"/> Industrial	<input type="checkbox"/> Agricultural	<input checked="" type="checkbox"/> Recreational

**Describe Water Conditions:** Mark all that apply.

<input checked="" type="checkbox"/> Clear	<input type="checkbox"/> Stained ("iced tea")	<input type="checkbox"/> Turbid (muddy / silty)	<input type="checkbox"/> Odors
<input type="checkbox"/> Green	<input type="checkbox"/> Rusty-Red	<input type="checkbox"/> Milky	<input type="checkbox"/> Other (foam, dyes, chemicals)

**Canopy Cover:** Mark approximate percentage of stream covered by tree canopy.

<input type="checkbox"/> >75% covered	<input type="checkbox"/> 75-50% covered	<input checked="" type="checkbox"/> 50%-25% covered	<input type="checkbox"/> < 25% covered
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**Aquatic Plants in Stream:**

Floating: (e.g. duck weed)	<input type="checkbox"/> Absent	<input type="checkbox"/> In Spots	<input checked="" type="checkbox"/> Everywhere
Attached: (e.g. water lily)	<input checked="" type="checkbox"/> Absent	<input type="checkbox"/> In Spots	<input type="checkbox"/> Everywhere

**Algae in Stream:**

Floating: (e.g. planktonic)	<input checked="" type="checkbox"/> Absent	<input type="checkbox"/> In Spots	<input type="checkbox"/> Everywhere
Attached: (e.g. filamentous)	<input checked="" type="checkbox"/> Absent	<input type="checkbox"/> In Spots	<input type="checkbox"/> Everywhere

Is the change in water condition or excessive plant / algae growth located at or directly below a storm water outfall?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Is the change in water conditions or excessive plant / algae growth associated with a change in channel dimensions (depth & width)?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
Is the change in water conditions or excessive plant / algae growth associated with an impoundment / dam on the stream?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No

**Notes:** Use the space provided to record important observations otherwise not captures on this sheet.

The duckweed occurs immediately upstream of Lake Wintergreen, where water in the channel slows down and lots of sediment has accumulated. Channel bottom comprised of a deep layer of soft, organic debris and fine sediments. Water surface covered by duckweed.

**CT – NRCS  
Stream Assessment Worksheet**

**Visual Water Conditions /  
Excessive Plant or Algae Growth**

Survey Basin Code:	Date: 7/13/2015 (assessed) 8/31/2015 (transcribed)
Name of Stream: Wintergreen Brook	Assessed By: Common Ground West River Stewards
Reach Code: WB 4	Kendall Barbery on hand for a portion of the survey
Designated Stream Type:	
Site ID:	

**Make All Observations Facing Downstream**

**Location / Extent of Visual Water Conditions and/or Excessive Plant or Algae Growth:** 1) Mark and label the location on the map. 2) Briefly describe the location of the site relative to roads or other landmarks.

Between the inlet of the extensive culvert described in the AOC Manipulated Channel Worksheet and the power line buffer (south of Mountain Road) the stream passes through a coniferous canopy—of Old Field White Pine—and the water changes in appearance from clear/lightly stained to rusty in color with an oily sheen on the surface.

**Immediately Adjacent Land Use:** Mark the land use(s) immediately adjacent to the modified section.

<input type="checkbox"/> Rural Residential	<input type="checkbox"/> Urban Residential	<input type="checkbox"/> Commercial	<input checked="" type="checkbox"/> Forested
<input type="checkbox"/> Suburban Residential	<input type="checkbox"/> Industrial	<input checked="" type="checkbox"/> Agricultural	<input checked="" type="checkbox"/> Recreational

**Describe Water Conditions:** Mark all that apply.

<input type="checkbox"/> Clear	<input type="checkbox"/> Stained ("iced tea")	<input type="checkbox"/> Turbid (muddy / silty)	<input type="checkbox"/> Odors
<input type="checkbox"/> Green	<input checked="" type="checkbox"/> Rusty-Red	<input type="checkbox"/> Milky	<input type="checkbox"/> Other (foam, dyes, chemicals)

**Canopy Cover:** Mark approximate percentage of stream covered by tree canopy.

<input type="checkbox"/> >75% covered	<input checked="" type="checkbox"/> 75-50% covered	<input type="checkbox"/> 50%-25% covered	<input type="checkbox"/> < 25% covered
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**Aquatic Plants in Stream:**

Floating: (e.g. duck weed)	<input checked="" type="checkbox"/> Absent	<input type="checkbox"/> In Spots	<input type="checkbox"/> Everywhere
Attached: (e.g. water lily)	<input type="checkbox"/> Absent	<input checked="" type="checkbox"/> In Spots	<input type="checkbox"/> Everywhere

**Algae in Stream:**

Floating: (e.g. planktonic)	<input checked="" type="checkbox"/> Absent	<input type="checkbox"/> In Spots	<input type="checkbox"/> Everywhere
Attached: (e.g. filamentous)	<input checked="" type="checkbox"/> Absent	<input type="checkbox"/> In Spots	<input type="checkbox"/> Everywhere

Is the change in water condition or excessive plant / algae growth located at or directly below a storm water outfall?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Is the change in water conditions or excessive plant / algae growth associated with a change in channel dimensions (depth & width)?	<input checked="" type="checkbox"/> Yes /	<input checked="" type="checkbox"/> No
Is the change in water conditions or excessive plant / algae growth associated with an impoundment / dam on the stream?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No

**Notes:** Use the space provided to record important observations otherwise not captures on this sheet.

Change in water conditions occur upstream of extensive culvert and beneath a canopy of Old Field White Pine. The banks of the stream are visibly channelized and straightened with a bank made of stacked stone.

**CT – NRCS  
Stream Assessment Worksheet**

**Visual Water Conditions /  
Excessive Plant or Algae Growth**

Survey Basin Code:	Date: 7/13/2015 (assessed) 8/31/2015 (transcribed)
Name of Stream: Wintergreen Brook	Assessed By: Common Ground West River Stewards
Reach Code: WB 4	Kendall Barbery on hand for a portion of the survey
Designated Stream Type:	
Site ID:	

**Make All Observations Facing Downstream**

**Location / Extent of Visual Water Conditions and/or Excessive Plant or Algae Growth:** 1) Mark and label the location on the map. 2) Briefly describe the location of the site relative to roads or other landmarks.

Between the power line buffer and mountain road, the stream is visibly straightened and channelized with banks made of stacked stone. Just north of the power line buffer, there is lots of attached vegetation and duckweed and the water is cloudy in appearance.

**Immediately Adjacent Land Use:** Mark the land use(s) immediately adjacent to the modified section.

<input type="checkbox"/> Rural Residential	<input type="checkbox"/> Urban Residential	<input type="checkbox"/> Commercial	<input checked="" type="checkbox"/> Forested
<input type="checkbox"/> Suburban Residential	<input type="checkbox"/> Industrial	<input checked="" type="checkbox"/> Agricultural	<input checked="" type="checkbox"/> Recreational

**Describe Water Conditions:** Mark all that apply.

<input type="checkbox"/> Clear	<input type="checkbox"/> Stained ("iced tea")	<input type="checkbox"/> Turbid (muddy / silty)	<input type="checkbox"/> Odors
<input type="checkbox"/> Green	<input type="checkbox"/> Rusty-Red	<input checked="" type="checkbox"/> Milky	<input type="checkbox"/> Other (foam, dyes, chemicals)

**Canopy Cover:** Mark approximate percentage of stream covered by tree canopy.

<input type="checkbox"/> >75% covered	<input type="checkbox"/> 75-50% covered	<input checked="" type="checkbox"/> 50%-25% covered	<input type="checkbox"/> < 25% covered
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**Aquatic Plants in Stream:**

Floating: (e.g. duck weed)	<input type="checkbox"/> Absent	<input checked="" type="checkbox"/> In Spots	<input type="checkbox"/> Everywhere
Attached: (e.g. water lily)	<input type="checkbox"/> Absent	<input checked="" type="checkbox"/> In Spots	<input type="checkbox"/> Everywhere

**Algae in Stream:**

Floating: (e.g. planktonic)	<input type="checkbox"/> Absent	<input checked="" type="checkbox"/> In Spots	<input type="checkbox"/> Everywhere
Attached: (e.g. filamentous)	<input checked="" type="checkbox"/> Absent	<input type="checkbox"/> In Spots	<input type="checkbox"/> Everywhere

Is the change in water condition or excessive plant / algae growth located at or directly below a storm water outfall?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Is the change in water conditions or excessive plant / algae growth associated with a change in channel dimensions (depth & width)?	<input checked="" type="checkbox"/> Yes /	<input checked="" type="checkbox"/> No
Is the change in water conditions or excessive plant / algae growth associated with an impoundment / dam on the stream?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No

**Notes:** Use the space provided to record important observations otherwise not captures on this sheet.

This section of the stream emerges from a culvert on Mountain Road and is channelized/straightened. The water is slow moving, as discharge from an impoundment upstream of Mountain Road (in WB 5) is minimal—the area of concern is not immediately abutting an impoundment, but it's likely that the low discharge from the impoundment upstream has an influence on sediment deposit and vegetation in this portion of the channel. In WB 5, just upstream, attached vegetation dominates in the stream channel and water levels are low.

# CT-NRCS Stream Assessment Sheet

## Reach Level Assessment

Survey Basin Code:	Date(s): 7/6/2015
Name of Stream: WINTER GREEN BROOK	Assessed By: DAVE ENGEWORTH, TYREEK, BALWIN
Reach Code: WBS WBS a + b	LAVELLE K. BARBERY
Designated Stream Type: fresh	CG West River Stewards

Make All Observations Facing *Downstream*

Was the entire reach of stream surveyed?  Yes  No, Which section(s) were not surveyed? Why?  
*with the exception of the confluence of two streams of the pond.*

**Channel Morphology:** Mark the predominate condition(s), and indicate the average measurements.

<input type="checkbox"/> Step-Pool	<input checked="" type="checkbox"/> Pool-Riffle	<input type="checkbox"/> Run	<input type="checkbox"/> Glide	<input type="checkbox"/> *Manipulated Channel (piped, lined, etc.)
Active Channel Width: <sup>(A)</sup> 2-3ft <sup>(B)</sup> 3-4ft		Glide Depth: <sup>(B)</sup> 5-6"		
Riffle Depth: <sup>(A)</sup> 1-2"		Step Height:		
Pool Depth: <sup>(A)</sup> 4"		Bank Height (Right Bank): <sup>(A)</sup> 7ft <sup>(B)</sup> 12"		
Run Depth:		Bank Height (Left Bank): <sup>(A)</sup> 7-9ft <sup>(B)</sup> 12"		

**Substrate Composition:** Mark approximate percentages for each substrate type observed.

Silt or Clay	<input type="checkbox"/> <5%	<input type="checkbox"/> 5-25%	<input type="checkbox"/> 25-50%	<input type="checkbox"/> 50-75%	<input checked="" type="checkbox"/> >75%
Sand	<input type="checkbox"/> <5%	<input checked="" type="checkbox"/> 5-25%	<input type="checkbox"/> 25-50%	<input type="checkbox"/> 50-75%	<input type="checkbox"/> >75%
Gravel (0.1-2 inches)	<input type="checkbox"/> <5%	<input type="checkbox"/> 5-25%	<input type="checkbox"/> 25-50%	<input type="checkbox"/> 50-75%	<input type="checkbox"/> >75%
Cobble (2-10 inches)	<input checked="" type="checkbox"/> <5%	<input type="checkbox"/> 5-25%	<input type="checkbox"/> 25-50%	<input type="checkbox"/> 50-75%	<input type="checkbox"/> >75%
Boulder (>10 inches)	<input type="checkbox"/> <5%	<input type="checkbox"/> 5-25%	<input type="checkbox"/> 25-50%	<input type="checkbox"/> 50-75%	<input type="checkbox"/> >75%
Bedrock	<input type="checkbox"/> <5%	<input type="checkbox"/> 5-25%	<input type="checkbox"/> 25-50%	<input type="checkbox"/> 50-75%	<input type="checkbox"/> >75%

<p><i>WBS a</i></p> <p>&gt; 75% S+C 5-25% Sand &lt; 5% Cobble Dam</p>	<p><i>WBS b</i></p> <p>&gt; 75% silt+clay 5-25% Sand.</p>
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**Describe Water Conditions:** Mark all that apply.

<input checked="" type="checkbox"/> Clear	<input type="checkbox"/> Stained ("iced tea")	<input type="checkbox"/> *Turbid (muddy / silty)
<input type="checkbox"/> *Green	<input type="checkbox"/> *Rusty-Red	<input type="checkbox"/> *Milky
<input type="checkbox"/> *Odors	<input type="checkbox"/> *Other (foam, dyes, chemicals)	

*earthy odor (B)*

**Area of Concern Worksheets**  
Indicate # and type of sheets completed for this reach assessment

Erosion	_____
Fish Barrier	_____
Storm Water Outfall	_____
Modified Channel	_____
Impacted Buffer	_____
Trash / Debris	_____
Water Conditions	_____

**Aquatic Plants in Stream:** A / B

Floating: (e.g. duck weed)	<input checked="" type="checkbox"/> Absent	<input checked="" type="checkbox"/> In Spots	<input type="checkbox"/> *Everywhere
Attached: (e.g. water lily)	<input type="checkbox"/> Absent	<input type="checkbox"/> In Spots	<input checked="" type="checkbox"/> *Everywhere

*Pond - floating + attached in spots*

**Algae in Stream:** A / B

Floating: (e.g. planktonic)	<input checked="" type="checkbox"/> Absent	<input checked="" type="checkbox"/> In Spots	<input type="checkbox"/> *Everywhere
Attached: (e.g. filamentous)	<input checked="" type="checkbox"/> Absent	<input type="checkbox"/> In Spots	<input checked="" type="checkbox"/> *Everywhere

**Canopy Cover:** Mark approximate percentage of stream covered by tree canopy.

<input checked="" type="checkbox"/> >75% covered	<input type="checkbox"/> 75-50% covered	<input checked="" type="checkbox"/> 50%-25% covered	<input type="checkbox"/> < 25% covered
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Note: Items marked with an asterisk (\*) indicate a potential area of concern. Please record all relevant information on the appropriate Area of Concern Worksheet(s).

*In lower portion of channel - filled in w/ vegetation ~ 20 ft buffer around lower channel at 50% - 25% up*



**CT – NRCS  
Stream Assessment Worksheet**

Fish Barrier

Survey Basin Code:	Date:
Name of Stream:	Assessed By:
Reach Code: <i>WB5-6</i>	
Designated Stream Type:	
Site ID:	

**Make All Observations Facing *Downstream***

**Location of Barrier:** Mark and label the location of the barrier on the map and provide a brief description of the location of the barrier relative to roads or other landmarks.

*Dam*

**Type of Barrier:** Mark the type of fish barrier.

Dam       Culvert       Velocity Barrier       Other

**Dam Data:** Provide all relevant data.

**Height of Dam:** *15* ft.    **Length of Spillway:** *10* ft.    **Shape of Spillway:**  Straight     Crescent

**Materials:**     Stone     Concrete     Stone & Concrete     Timber-Crib     Other

**Is there other infrastructure associated with the Dam?**  No     Yes (If yes mark the type below)

Factory     Hydro Facility     Mill     Residence     Other

*Pump House*

*Pump House*

**Culvert Data:** Provide all relevant data.

**Type of Culvert:**     Box     Pipe     Pipe-Arch     Arch

**Culvert Material:**     Concrete     Corrugated Metal     Plastic     Stone

**Culvert Outlet:**     Perched:..... ft.     Ramped     Submerged

**Culvert Size:**    Diameter: *24"*     Height:    ft.    Width:    ft.

**# of Culverts:**    **Culvert Length:** *40* ft.

**Velocity Barrier Data:** Provide all relevant data.

**Nature of Barrier:**     Grade Control Sill     Concrete Apron     Channel Cross-Section     Other

**Length of Barrier:**    ft.    **Approx. Vertical Rise:**    ft.

**Notes:** Use the space provided to record important observations otherwise not captured on this sheet.

**CT – NRCS  
Stream Assessment Worksheet**

Modified Channel

Survey Basin Code:	Date:
Name of Stream:	Assessed By:
Reach Code:	
Designated Stream Type:	
Site ID:	

**Make All Observations Facing *Downstream***

**Location / Extent of Modified Channel:** Mark and label the location of the modified channel on the map and provide a brief description of the location of the channel section relative to roads or other landmarks.

**Mark where channel modification occurs:**

<input type="checkbox"/> Meander Bend	<input type="checkbox"/> Straight Section	<input type="checkbox"/> Steep Slope/Valley Wall	<input type="checkbox"/> Other
<b>Estimate length of channel modification:</b> ft.			
<b>Estimate height of bank modification:</b> ft.			

<b>Type of Manipulation:</b>	<input type="checkbox"/> Channelization	<input type="checkbox"/> Bank Armoring	<input type="checkbox"/> Concrete Channel	<input type="checkbox"/> Other	
<b>Extent of Manipulation:</b>	<input type="checkbox"/> Right Bank	<input type="checkbox"/> Left Bank	<input type="checkbox"/> Channel Bottom		
<b>Channel / Bank Materials:</b>	<input type="checkbox"/> Natural	<input type="checkbox"/> Rip Rap	<input type="checkbox"/> Concrete	<input type="checkbox"/> Gabions	<input type="checkbox"/> Metal

**Immediately Adjacent Land Use:** Mark the land use(s) immediately adjacent to the modified section.

<input type="checkbox"/> Rural Residential	<input type="checkbox"/> Urban Residential	<input type="checkbox"/> Commercial	<input type="checkbox"/> Forested
<input type="checkbox"/> Suburban Residential	<input type="checkbox"/> Industrial	<input type="checkbox"/> Agricultural	<input type="checkbox"/> Recreational

**Existing Width of Riparian Vegetation:** Mark the average width of riparian vegetation to the modified section.

<input type="checkbox"/> < 15 ft.	<input type="checkbox"/> 15 – 35 ft.	<input type="checkbox"/> 35 – 50 ft.	<input type="checkbox"/> 50 – 100 ft	<input type="checkbox"/> > 100 ft
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Is there a change in the average width of the active channel?	<input type="checkbox"/> Yes / Estimate Width:          ft	<input type="checkbox"/> No
Is there evidence of sediment deposition in the channel?	<input type="checkbox"/> Yes	<input type="checkbox"/> No
Is the channel connected to a floodplain?	<input type="checkbox"/> Yes	<input type="checkbox"/> No

**Notes:** Use the space provided to record important observations otherwise not captures on this sheet.

**CT-NRCS  
Stream Assessment Sheet**

Reach Level Assessment

Survey Basin Code:	Date(s): <u>7/6/15</u>
Name of Stream: <u>Wintergreen Brook</u>	Assessed By: <u>CG WR &amp; Stewards</u>
Reach Code: <u>WBS-B</u>	
Designated Stream Type: <u>Fresh</u>	

Make All Observations Facing *Downstream*

Was the entire reach of stream surveyed?  Yes  No, Which section(s) were not surveyed? Why?

**Channel Morphology:** Mark the predominate condition(s), and indicate the average measurements.

<input type="checkbox"/> Step-Pool	<input type="checkbox"/> Pool-Riffle	<input type="checkbox"/> Run	<input checked="" type="checkbox"/> Glide	<input checked="" type="checkbox"/> Manipulated Channel (piped, lined, etc.)
Active Channel Width: <u>3-4 feet</u>	Glide Depth: <u>5-6 Inches</u>			
Riffle Depth:	Step Height:			
Pool Depth:	Bank Height (Right Bank): <u>12 Inches - 12</u>			
Run Depth:	Bank Height (Left Bank): <u>12 Inches - 12</u>			

**Substrate Composition:** Mark approximate percentages for each substrate type observed.

Silt or Clay	<input type="checkbox"/> <5%	<input type="checkbox"/> 5-25%	<input type="checkbox"/> 25-50%	<input type="checkbox"/> 50-75%	<input checked="" type="checkbox"/> >75%
Sand	<input type="checkbox"/> <5%	<input checked="" type="checkbox"/> 5-25%	<input type="checkbox"/> 25-50%	<input type="checkbox"/> 50-75%	<input type="checkbox"/> >75%
Gravel (0.1-2 inches)	<input type="checkbox"/> <5%	<input type="checkbox"/> 5-25%	<input type="checkbox"/> 25-50%	<input type="checkbox"/> 50-75%	<input type="checkbox"/> >75%
Cobble (2-10 inches)	<input type="checkbox"/> <5%	<input type="checkbox"/> 5-25%	<input type="checkbox"/> 25-50%	<input type="checkbox"/> 50-75%	<input type="checkbox"/> >75%
Boulder (>10 inches)	<input type="checkbox"/> <5%	<input type="checkbox"/> 5-25%	<input type="checkbox"/> 25-50%	<input type="checkbox"/> 50-75%	<input type="checkbox"/> >75%
Bedrock	<input type="checkbox"/> <5%	<input type="checkbox"/> 5-25%	<input type="checkbox"/> 25-50%	<input type="checkbox"/> 50-75%	<input type="checkbox"/> >75%

**Describe Water Conditions:** Mark all that apply.

<input checked="" type="checkbox"/> Clear	<input type="checkbox"/> Stained ("iced tea")	* <input type="checkbox"/> Turbid (muddy / silty)
* <input type="checkbox"/> Green	* <input type="checkbox"/> Rusty-Red	* <input type="checkbox"/> Milky
* <input checked="" type="checkbox"/> Odors	* <input type="checkbox"/> Other (foam, dyes, chemicals)	

**Aquatic Plants in Stream:**

Floating: (e.g. duck weed)	<input type="checkbox"/> Absent	<input checked="" type="checkbox"/> In Spots	* <input type="checkbox"/> Everywhere
Attached: (e.g. water lily)	<input type="checkbox"/> Absent	<input checked="" type="checkbox"/> In Spots	* <input checked="" type="checkbox"/> Everywhere

**Algae in Stream:**

Floating: (e.g. planktonic)	<input type="checkbox"/> Absent	<input checked="" type="checkbox"/> In Spots	* <input type="checkbox"/> Everywhere
Attached: (e.g. filamentous)	<input type="checkbox"/> Absent	<input checked="" type="checkbox"/> In Spots	* <input checked="" type="checkbox"/> Everywhere

**Canopy Cover:** Mark approximate percentage of stream covered by tree canopy.

<input type="checkbox"/> >75% covered	<input type="checkbox"/> 75-50% covered	<input checked="" type="checkbox"/> 50%-25% covered	<input type="checkbox"/> < 25% covered
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**Area of Concern Worksheets**  
Indicate # and type of sheets completed for this reach assessment

Erosion	_____
Fish Barrier	_____
Storm Water Outfall	_____
Modified Channel	_____
Impacted Buffer	_____
Trash / Debris	_____
Water Conditions	_____

Note: Items marked with an asterisk (\*) indicate a potential area of concern. Please record all relevant information on the appropriate Area of Concern Worksheet(s).

# CT-NRCS Stream Assessment Sheet

## Reach Level Assessment

**Riparian Vegetation:** Characterize the average density of vegetation in the first 35 feet adjacent to the stream for both banks.

	Left Bank	Right Bank	Left Bank	Right Bank	Left Bank	Right Bank
Turf Grass	<input type="checkbox"/> Low	<input checked="" type="checkbox"/> Low	<input type="checkbox"/> Moderate	<input type="checkbox"/> Moderate	<input type="checkbox"/> High	<input type="checkbox"/> High
Grass	<input checked="" type="checkbox"/> Low	<input type="checkbox"/> Low	<input type="checkbox"/> Moderate	<input type="checkbox"/> Moderate	<input type="checkbox"/> High	<input checked="" type="checkbox"/> High
Shrubs	<input checked="" type="checkbox"/> Low	<input type="checkbox"/> Low	<input type="checkbox"/> Moderate	<input checked="" type="checkbox"/> Moderate	<input type="checkbox"/> High	<input type="checkbox"/> High
Deciduous Trees	<input checked="" type="checkbox"/> Low	<input checked="" type="checkbox"/> Low	<input type="checkbox"/> Moderate	<input type="checkbox"/> Moderate	<input type="checkbox"/> High	<input type="checkbox"/> High
Coniferous Trees	<input type="checkbox"/> Low	<input type="checkbox"/> Low	<input type="checkbox"/> Moderate	<input type="checkbox"/> Moderate	<input checked="" type="checkbox"/> High	<input type="checkbox"/> High

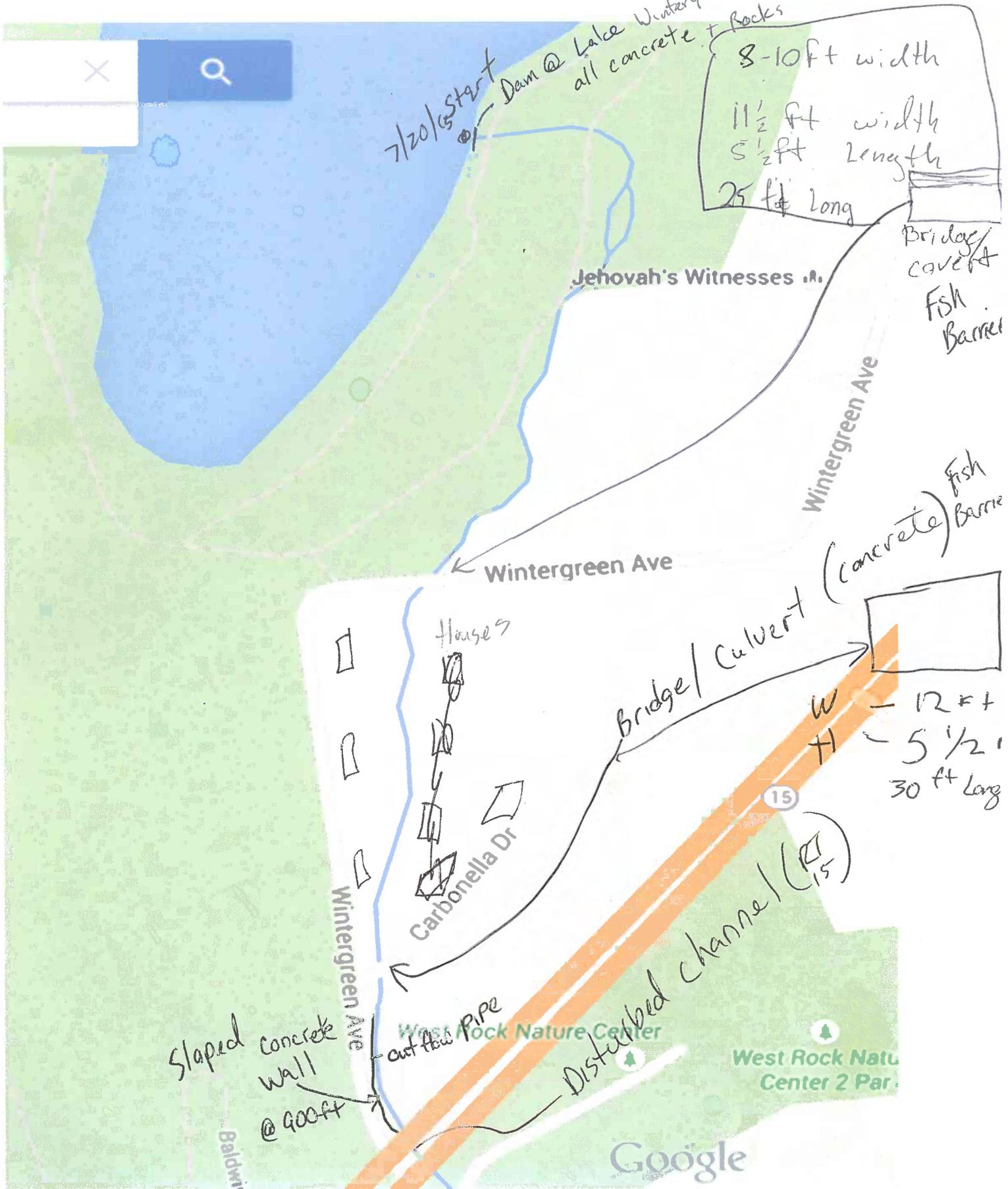
**Surrounding Land Use:** Mark the dominate land use(s) for each "zone", if known or observed.

Immediately adjacent to stream		< 1/4 Mile from stream		> 1/4 Mile from stream	
<input type="checkbox"/> Rural Residential	<input checked="" type="checkbox"/> Agricultural	<input type="checkbox"/> Rural Residential	<input checked="" type="checkbox"/> Agricultural	<input type="checkbox"/> Rural Residential	<input checked="" type="checkbox"/> Agricultural
<input type="checkbox"/> Suburban Residential	<input type="checkbox"/> Forested	<input type="checkbox"/> Suburban Residential	<input type="checkbox"/> Forested	<input type="checkbox"/> Suburban Residential	<input type="checkbox"/> Forested
<input type="checkbox"/> Urban Residential	<input type="checkbox"/> Recreational	<input type="checkbox"/> Urban Residential	<input type="checkbox"/> Recreational	<input type="checkbox"/> Urban Residential	<input type="checkbox"/> Recreational
<input type="checkbox"/> Industrial	<input type="checkbox"/> Other	<input type="checkbox"/> Industrial	<input type="checkbox"/> Other	<input type="checkbox"/> Industrial	<input type="checkbox"/> Other
<input type="checkbox"/> Commercial		<input type="checkbox"/> Commercial		<input type="checkbox"/> Commercial	

**Areas of Concern Checklist:** Marking  Yes to any of the following questions indicates that an Area of Concern Worksheet should be filled out for the appropriate concern. For each occurrence observed, complete an area of concern sheet.

Is there evidence of either stream bank erosion or streambed instability within the reach?	<input type="checkbox"/> Yes	<input type="checkbox"/> No
Are there any dams or any other possible natural or artificial barriers to fish migration?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
Are there any storm water outfalls, discharge pipes or discharges within the reach? Indicate the number observed:	<input type="checkbox"/> Yes	<input type="checkbox"/> No
Is there any portion of the channel that has been modified (not culvert) (channeled, piped, rip rap)?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Is there any portion of the reach where the riparian buffer has been compromised or is nonexistent?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Is there any portion of the reach that contains trash or other debris (cars, appliances, construction waste)?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Is there any portion of the reach that has a change in water conditions?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No

**Notes:** Use the space provided to record important observations otherwise not captured on the Reach Assessment Sheet or the Areas of Concern Worksheets.



**CT-NRCS  
Stream Assessment Sheet**

Reach Level Assessment

Survey Basin Code:	Date(s): 7-20-15
Name of Stream: Wintergreen Brook	Assessed By:
Reach Code: WB-3	CG West River Stewards
Designated Stream Type: Fresh Water	

Make All Observations Facing *Downstream*

Was the entire reach of stream surveyed?  Yes  No, Which section(s) were not surveyed? Why?

**Channel Morphology:** Mark the predominate condition(s), and indicate the average measurements.

<input type="checkbox"/> Step-Pool	<input checked="" type="checkbox"/> Pool-Riffle	<input type="checkbox"/> Run	<input type="checkbox"/> Glide	<input checked="" type="checkbox"/> Manipulated Channel (piped, lined, etc.)
Active Channel Width: 10 ft	Glide Depth:			
Riffle Depth: 2 inch	Step Height:			
Pool Depth: 5 inches	Bank Height (Right Bank): 3 inches		Bank Height (Left Bank): 3 inches	
Run Depth:				

**Substrate Composition:** Mark approximate percentages for each substrate type observed.

Silt or Clay	<input type="checkbox"/> <5%	<input type="checkbox"/> 5-25%	<input type="checkbox"/> 25-50%	<input type="checkbox"/> 50-75%	<input type="checkbox"/> >75%
Sand	<input type="checkbox"/> <5%	<input checked="" type="checkbox"/> 5-25%	<input type="checkbox"/> 25-50%	<input type="checkbox"/> 50-75%	<input type="checkbox"/> >75%
Gravel (0.1-2 inches)	<input type="checkbox"/> <5%	<input type="checkbox"/> 5-25%	<input type="checkbox"/> 25-50%	<input checked="" type="checkbox"/> 50-75%	<input type="checkbox"/> >75%
Cobble (2-10 inches)	<input type="checkbox"/> <5%	<input type="checkbox"/> 5-25%	<input checked="" type="checkbox"/> 25-50%	<input type="checkbox"/> 50-75%	<input type="checkbox"/> >75%
Boulder (>10 inches)	<input type="checkbox"/> <5%	<input checked="" type="checkbox"/> 5-25%	<input type="checkbox"/> 25-50%	<input type="checkbox"/> 50-75%	<input type="checkbox"/> >75%
Bedrock	<input type="checkbox"/> <5%	<input type="checkbox"/> 5-25%	<input type="checkbox"/> 25-50%	<input type="checkbox"/> 50-75%	<input type="checkbox"/> >75%

**Describe Water Conditions:** Mark all that apply.

<input checked="" type="checkbox"/> Clear	<input type="checkbox"/> Stained ("iced tea")	* <input type="checkbox"/> Turbid (muddy / silty)
* <input type="checkbox"/> Green	* <input type="checkbox"/> Rusty-Red	* <input type="checkbox"/> Milky
* <input type="checkbox"/> Odors	* <input type="checkbox"/> Other (foam, dyes, chemicals)	

**Aquatic Plants in Stream:**

Floating: (e.g. duck weed)	<input checked="" type="checkbox"/> Absent	<input type="checkbox"/> In Spots	* <input type="checkbox"/> Everywhere
Attached: (e.g. water lily)	<input type="checkbox"/> Absent	<input checked="" type="checkbox"/> In Spots	* <input type="checkbox"/> Everywhere

**Algae in Stream:**

Floating: (e.g. planktonic)	<input type="checkbox"/> Absent	<input checked="" type="checkbox"/> In Spots	* <input type="checkbox"/> Everywhere
Attached: (e.g. filamentous)	<input type="checkbox"/> Absent	<input checked="" type="checkbox"/> In Spots	* <input type="checkbox"/> Everywhere

**Canopy Cover:** Mark approximate percentage of stream covered by tree canopy.

<input type="checkbox"/> >75% covered	<input type="checkbox"/> 75-50% covered	<input checked="" type="checkbox"/> 50%-25% covered	<input type="checkbox"/> < 25% covered
---------------------------------------	---	---	--

**Area of Concern Worksheets**  
Indicate # and type of sheets completed for this reach assessment

Erosion	_____
Fish Barrier	2
Storm Water Outfall	_____
Modified Channel	2
Impacted Buffer	_____
Trash / Debris	_____
Water Conditions	_____

Note: Items marked with an asterisk (\*) indicate a potential area of concern. Please record all relevant information on the appropriate Area of Concern Worksheet(s).

WB 3

**CT-NRCS  
Stream Assessment Sheet**

Reach Level Assessment

**Riparian Vegetation:** Characterize the average density of vegetation in the first 35 feet adjacent to the stream for both banks.

	Left Bank	Right Bank	Left Bank	Right Bank	Left Bank	Right Bank
Turf Grass	<input type="checkbox"/> Low	<input type="checkbox"/> Low	<input type="checkbox"/> Moderate	<input type="checkbox"/> Moderate	<input type="checkbox"/> High	<input type="checkbox"/> High
Grass	<input checked="" type="checkbox"/> Low	<input checked="" type="checkbox"/> Low	<input type="checkbox"/> Moderate	<input type="checkbox"/> Moderate	<input type="checkbox"/> High	<input type="checkbox"/> High
Shrubs	<input type="checkbox"/> Low	<input type="checkbox"/> Low	<input checked="" type="checkbox"/> Moderate	<input checked="" type="checkbox"/> Moderate	<input type="checkbox"/> High	<input type="checkbox"/> High
Deciduous Trees	<input type="checkbox"/> Low	<input type="checkbox"/> Low	<input type="checkbox"/> Moderate	<input type="checkbox"/> Moderate	<input checked="" type="checkbox"/> High	<input checked="" type="checkbox"/> High
Coniferous Trees	<input type="checkbox"/> Low	<input type="checkbox"/> Low	<input type="checkbox"/> Moderate	<input type="checkbox"/> Moderate	<input type="checkbox"/> High	<input type="checkbox"/> High

**Surrounding Land Use:** Mark the dominate land use(s) for each "zone", if known or observed.

Immediately adjacent to stream		< 1/4 Mile from stream		> 1/4 Mile from stream	
<input type="checkbox"/> Rural Residential	<input type="checkbox"/> Agricultural	<input checked="" type="checkbox"/> Rural Residential	<input type="checkbox"/> Agricultural	<input checked="" type="checkbox"/> Rural Residential	<input type="checkbox"/> Agricultural
<input type="checkbox"/> Suburban Residential	<input checked="" type="checkbox"/> Forested	<input type="checkbox"/> Suburban Residential	<input type="checkbox"/> Forested	<input type="checkbox"/> Suburban Residential	<input checked="" type="checkbox"/> Forested
<input type="checkbox"/> Urban Residential	<input type="checkbox"/> Recreational	<input type="checkbox"/> Urban Residential	<input type="checkbox"/> Recreational	<input type="checkbox"/> Urban Residential	<input type="checkbox"/> Recreational
<input type="checkbox"/> Industrial	<input type="checkbox"/> Other	<input type="checkbox"/> Industrial	<input type="checkbox"/> Other	<input type="checkbox"/> Industrial	<input type="checkbox"/> Other
<input type="checkbox"/> Commercial		<input type="checkbox"/> Commercial		<input type="checkbox"/> Commercial	

**Areas of Concern Checklist:** Marking "Yes" to any of the following questions indicates that an Area of Concern Worksheet should be filled out for the appropriate concern. For each occurrence observed, complete and area of concern sheet.

Is there evidence of either stream bank erosion or streambed instability within the reach?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Are there any dams or any other possible natural or artificial barriers to fish migration?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
Are there any storm water outfalls, discharge pipes or discharges within the reach? Indicate the number observed: _____	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
Is there any portion of the channel that has been modified (not culvert) (channeled, piped, rip rap)?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
Is there any portion of the reach where the riparian buffer has been compromised or is nonexistent?	<input type="checkbox"/> Yes	<input type="checkbox"/> No
Is there any portion of the reach that contains trash or other debris (cars, appliances, construction waste)?	<input type="checkbox"/> Yes	<input type="checkbox"/> No
Is there any portion of the reach that has a change in water conditions?	<input type="checkbox"/> Yes	<input type="checkbox"/> No

**Notes:** Use the space provided to record important observations otherwise not captured on the Reach Assessment Sheet or the Areas of Concern Worksheets.

WB - 4 Mountain Road to Lake Wintergreen

@ 300 +3 900 +



Storm drain

6" water

Runs water left concrete culvert 1ft deep

small stream active

cloudy water soft stained brown

Pool depth  
riffle depth

Large culvert concrete 2 1/2 dia. 24' 2 inch long

First barrier

@ 900 ft concrete Arch stone

Drain other side of path

metal culvert

storm water

6" culvert

active channel 8 ft

6" culvert storm water

1 inch 4 deep

4 1/2 stream channel Main St

affected vegetation

West Rock Ridge State Park

2 ft deep

15 ft width 20-25 ft

very deep - Pogue

Valerie Ct

Mansur Rd

Benny Hill Pl

Wintergreen Ave

Map da

Duckweed everywhere

# CT-NRCS Stream Assessment Sheet

Reach Level Assessment

Survey Basin Code:	Date(s): 7/13/2015
Name of Stream: Wintergreen Brook	Assessed By: WR Stewart
Reach Code: WB-9	
Designated Stream Type: Fresh Water	

Make All Observations Facing *Downstream*

Was the entire reach of stream surveyed?  Yes  No, Which section(s) were not surveyed? Why?

**Channel Morphology:** Mark the predominate condition(s), and indicate the average measurements.

<input type="checkbox"/> Step-Pool	<input checked="" type="checkbox"/> Pool-Riffle	<input type="checkbox"/> Run	<input checked="" type="checkbox"/> Glide	* <input type="checkbox"/> Manipulated Channel (piped, lined, etc.)
Active Channel Width: 8ft		Glide Depth: 6 inches		
Riffle Depth: 2-3 inches		Step Height:		
Pool Depth: 8 inches		Bank Height (Right Bank): 8 inches		
Run Depth:		Bank Height (Left Bank): 8 inches		

**Substrate Composition:** Mark approximate percentages for each substrate type observed.

Silt or Clay	<input type="checkbox"/> <5%	<input type="checkbox"/> 5-25%	<input type="checkbox"/> 25-50%	<input type="checkbox"/> 50-75%	<input checked="" type="checkbox"/> >75%
Sand	<input type="checkbox"/> <5%	<input checked="" type="checkbox"/> 5-25%	<input type="checkbox"/> 25-50%	<input type="checkbox"/> 50-75%	<input type="checkbox"/> >75%
Gravel (0.1-2 inches)	<input checked="" type="checkbox"/> <5%	<input type="checkbox"/> 5-25%	<input type="checkbox"/> 25-50%	<input type="checkbox"/> 50-75%	<input type="checkbox"/> >75%
Cobble (2-10 inches)	<input type="checkbox"/> <5%	<input type="checkbox"/> 5-25%	<input type="checkbox"/> 25-50%	<input type="checkbox"/> 50-75%	<input type="checkbox"/> >75%
Boulder (>10 inches)	<input type="checkbox"/> <5%	<input type="checkbox"/> 5-25%	<input type="checkbox"/> 25-50%	<input type="checkbox"/> 50-75%	<input type="checkbox"/> >75%
Bedrock	<input type="checkbox"/> <5%	<input type="checkbox"/> 5-25%	<input type="checkbox"/> 25-50%	<input type="checkbox"/> 50-75%	<input type="checkbox"/> >75%

**Describe Water Conditions:** Mark all that apply.

<input checked="" type="checkbox"/> Clear	<input checked="" type="checkbox"/> Stained ("iced tea")	* <input type="checkbox"/> Turbid (muddy / silty)
* <input type="checkbox"/> Green	* <input type="checkbox"/> Rusty-Red	* <input checked="" type="checkbox"/> Milky
* <input type="checkbox"/> Odors	* <input type="checkbox"/> Other (foam, dyes, chemicals)	

**Area of Concern Worksheets**  
Indicate # and type of sheets completed for this reach assessment

Erosion	_____
Fish Barrier	_____
Storm Water Outfall	_____
Modified Channel	_____
Impacted Buffer	_____
Trash / Debris	_____
Water Conditions	_____

**Aquatic Plants in Stream:**

Floating: (e.g. duck weed)	<input type="checkbox"/> Absent	<input checked="" type="checkbox"/> In Spots	* <input type="checkbox"/> Everywhere
Attached: (e.g. water lily)	<input type="checkbox"/> Absent	<input checked="" type="checkbox"/> In Spots	* <input type="checkbox"/> Everywhere

**Algae in Stream:**

Floating: (e.g. planktonic)	<input checked="" type="checkbox"/> Absent	<input type="checkbox"/> In Spots	* <input type="checkbox"/> Everywhere
Attached: (e.g. filamentous)	<input type="checkbox"/> Absent	<input checked="" type="checkbox"/> In Spots	* <input type="checkbox"/> Everywhere

**Canopy Cover:** Mark approximate percentage of stream covered by tree canopy.

<input checked="" type="checkbox"/> >75% covered	<input type="checkbox"/> 75-50% covered	<input type="checkbox"/> 50%-25% covered	<input type="checkbox"/> < 25% covered
--	---	--	--

Note: Items marked with an asterisk (\*) indicate a potential area of concern. Please record all relevant information on the appropriate Area of Concern Worksheet(s).

WB 4

**CT-NRCS  
Stream Assessment Sheet**

Reach Level Assessment

**Riparian Vegetation:** Characterize the average density of vegetation in the first 35 feet adjacent to the stream for both banks.

	Left Bank	Right Bank	Left Bank	Right Bank	Left Bank	Right Bank
Turf Grass	<input type="checkbox"/> Low	<input type="checkbox"/> Low	<input type="checkbox"/> Moderate	<input type="checkbox"/> Moderate	<input type="checkbox"/> High	<input type="checkbox"/> High
Grass	<input checked="" type="checkbox"/> Low	<input checked="" type="checkbox"/> Low	<input type="checkbox"/> Moderate	<input type="checkbox"/> Moderate	<input type="checkbox"/> High	<input type="checkbox"/> High
Shrubs	<input type="checkbox"/> Low	<input type="checkbox"/> Low	<input checked="" type="checkbox"/> Moderate	<input checked="" type="checkbox"/> Moderate	<input type="checkbox"/> High	<input type="checkbox"/> High
Deciduous Trees	<input type="checkbox"/> Low	<input type="checkbox"/> Low	<input type="checkbox"/> Moderate	<input type="checkbox"/> Moderate	<input checked="" type="checkbox"/> High	<input checked="" type="checkbox"/> High
Coniferous Trees	<input type="checkbox"/> Low	<input type="checkbox"/> Low	<input checked="" type="checkbox"/> Moderate	<input checked="" type="checkbox"/> Moderate	<input type="checkbox"/> High	<input type="checkbox"/> High

**Surrounding Land Use:** Mark the dominate land use(s) for each "zone", if known or observed.

Immediately adjacent to stream		< 1/4 Mile from stream		> 1/4 Mile from stream	
<input type="checkbox"/> Rural Residential	<input type="checkbox"/> Agricultural	<input type="checkbox"/> Rural Residential	<input type="checkbox"/> Agricultural	<input type="checkbox"/> Rural Residential	<input checked="" type="checkbox"/> Agricultural
<input type="checkbox"/> Suburban Residential	<input checked="" type="checkbox"/> Forested	<input type="checkbox"/> Suburban Residential	<input checked="" type="checkbox"/> Forested	<input type="checkbox"/> Suburban Residential	<input checked="" type="checkbox"/> Forested
<input type="checkbox"/> Urban Residential	<input checked="" type="checkbox"/> Recreational	<input type="checkbox"/> Urban Residential	<input type="checkbox"/> Recreational	<input type="checkbox"/> Urban Residential	<input type="checkbox"/> Recreational
<input type="checkbox"/> Industrial	<input type="checkbox"/> Other	<input type="checkbox"/> Industrial	<input type="checkbox"/> Other	<input type="checkbox"/> Industrial	<input type="checkbox"/> Other
<input type="checkbox"/> Commercial		<input type="checkbox"/> Commercial		<input type="checkbox"/> Commercial	

**Areas of Concern Checklist:** Marking "Yes" to any of the following questions indicates that an Area of Concern Worksheet should be filled out for the appropriate concern. For each occurrence observed, complete an area of concern sheet.

Is there evidence of either stream bank erosion or streambed instability within the reach?	<input type="checkbox"/> Yes	<input type="checkbox"/> No
Are there any dams or any other possible natural or artificial barriers to fish migration?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
Are there any storm water outfalls, discharge pipes or discharges within the reach? Indicate the number observed: _____	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
Is there any portion of the channel that has been modified (not culvert) (channeled, piped, rip rap)?	<input type="checkbox"/> Yes	<input type="checkbox"/> No
Is there any portion of the reach where the riparian buffer has been compromised or is nonexistent?	<input type="checkbox"/> Yes	<input type="checkbox"/> No
Is there any portion of the reach that contains trash or other debris (cars, appliances, construction waste)?	<input type="checkbox"/> Yes	<input type="checkbox"/> No
Is there any portion of the reach that has a change in water conditions?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No

**Notes:** Use the space provided to record important observations otherwise not captured on the Reach Assessment Sheet or the Areas of Concern Worksheets.

Completed Stream Assessment Forms  
Wilmot Brook

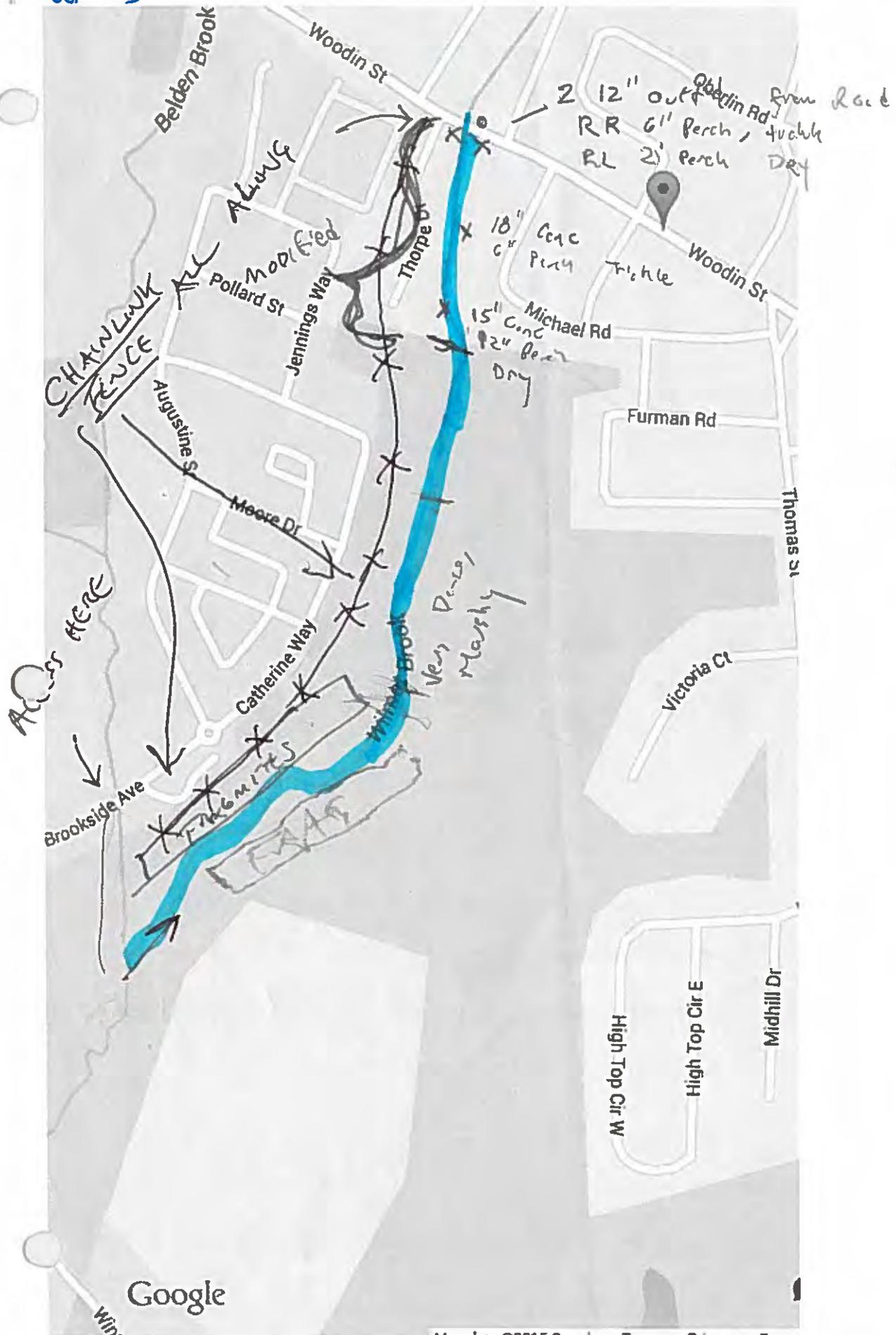
WL B1

0.52 m

S19

Woodin St.

HAMDEN



Google

50 BROOKSIDE AVE NEW HAVEN

# CT - NRCS Stream Assessment Worksheet

DEGRADATION OF THE 35' ZONE ADJ. TO STREAM  
Degraded Buffer

Survey Basin Code:	Date: 7-23-15
Name of Stream: WILMOT	Assessed By: BHARTIA
Reach Code: WLB-1	
Designated Stream Type:	
Site ID:	

**Make All Observations Facing *Downstream***

**Location / Extent of Degraded Buffer:** 1) Mark and label the location of the degraded buffer on the map. 2) Briefly describe the location of the site relative to roads or other landmarks.

DEGRADED DUE TO MODIFIED CHANNEL AT N END  
FRASMITOS AT S. END

**Mark where the degraded buffer occurs.**

<input type="checkbox"/> Meander Bend	<input checked="" type="checkbox"/> Straight Section	<input type="checkbox"/> Steep Slope/Valley Wall	<input type="checkbox"/> Other
<input checked="" type="checkbox"/> Left Bank	Estimate length of degraded buffer: _____ ft.		
<input checked="" type="checkbox"/> Right Bank	Estimate length of degraded buffer: _____ ft.		

**Type of Degradation:**

<b>Left Bank:</b>	<input checked="" type="checkbox"/> Minimal Vegetation	<input type="checkbox"/> Minimal Width	<input checked="" type="checkbox"/> Invasive Plants	<input type="checkbox"/> Other
<b>Right Bank:</b>	<input checked="" type="checkbox"/> Minimal Vegetation	<input type="checkbox"/> Minimal Width	<input checked="" type="checkbox"/> Invasive Plants	<input type="checkbox"/> Other

Dominate Land Cover	Paved	Bare Ground	Turf / Lawn	Tall Grass	Scrub / Shrub	Trees	Other
<b>Left Bank</b>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Right Bank</b>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

**Immediately Adjacent Land Use:** Mark the land use(s) immediately adjacent to the modified section.

<b>Left Bank:</b>	<input type="checkbox"/> Rural Residential	<input type="checkbox"/> Urban Residential	<input type="checkbox"/> Commercial	<input checked="" type="checkbox"/> Forested
	<input checked="" type="checkbox"/> Suburban Residential	<input type="checkbox"/> Industrial	<input type="checkbox"/> Agricultural	<input type="checkbox"/> Recreational
<b>Right Bank:</b>	<input type="checkbox"/> Rural Residential	<input type="checkbox"/> Urban Residential	<input type="checkbox"/> Commercial	<input checked="" type="checkbox"/> Forested
	<input checked="" type="checkbox"/> Suburban Residential	<input type="checkbox"/> Industrial	<input type="checkbox"/> Agricultural	<input type="checkbox"/> Recreational

**Existing Width of Riparian Vegetation:** Mark the average width of riparian vegetation to the modified section.

<b>Left Bank:</b>	<input checked="" type="checkbox"/> < 15 ft.	<input type="checkbox"/> 15 - 35 ft.	<input type="checkbox"/> 35 - 50 ft.	<input type="checkbox"/> 50 - 100 ft.	<input type="checkbox"/> > 100 ft.
<b>Right Bank:</b>	<input checked="" type="checkbox"/> < 15 ft.	<input type="checkbox"/> 15 - 35 ft.	<input type="checkbox"/> 35 - 50 ft.	<input type="checkbox"/> 50 - 100 ft.	<input type="checkbox"/> > 100 ft.

**Notes:** Use the space provided to record important observations otherwise not captures on this sheet.

**CT - NRCS  
Stream Assessment Worksheet**

Modified Channel

Survey Basin Code:	Date: 7-23-15
Name of Stream: WILMOT	Assessed By: BH AP TA
Reach Code: WLB-1	
Designated Stream Type:	
Site ID:	

**Make All Observations Facing *Downstream***

**Location / Extent of Modified Channel:** Mark and label the location of the modified channel on the map and provide a brief description of the location of the channel section relative to roads or other landmarks.

**Mark where channel modification occurs:**

Meander Bend     Straight Section     Steep Slope/Valley Wall     Other

**Estimate length of channel modification:** 750 ft.

**Estimate height of bank modification:** 5 ft.

**Type of Manipulation:**     Channelization     Bank Armoring     Concrete Channel     Other

**Extent of Manipulation:**     Right Bank     Left Bank     Channel Bottom

**Channel / Bank Materials:**     Natural     Rip Rap     Concrete     Gabions     Metal

**Immediately Adjacent Land Use:** Mark the land use(s) immediately adjacent to the modified section.

Rural Residential     Urban Residential     Commercial     Forested

Suburban Residential     Industrial     Agricultural     Recreational

**Existing Width of Riparian Vegetation:** Mark the average width of riparian vegetation to the modified section.

< 15 ft.     15 - 35 ft.     35 - 50 ft.     50 - 100 ft     > 100 ft

Is there a change in the average width of the active channel?     Yes / Estimate Width:    ft     No

Is there evidence of sediment deposition in the channel?     Yes     No

Is the channel connected to a floodplain?     Yes     No

**Notes:** Use the space provided to record important observations otherwise not captures on this sheet.

**CT - NRCS  
Stream Assessment Worksheet**

Storm Water Outfall

Survey Basin Code:	Date: <b>7-23</b>
Name of Stream: <b>WILMOT</b>	Assessed By: <b>BH TA AP</b>
Reach Code: <b>WUB-1</b>	
Designated Stream Type:	
Site ID:	

**Make All Observations Facing *Downstream***

**Location of Outfall:**  Right Bank  Left Bank Mark and label the location of the outfall on the map and provide a brief description of the location of the outfall relative to roads or other landmarks.

<b>Outfall Type:</b>	<input checked="" type="checkbox"/> Pipe	<input type="checkbox"/> Leak Off	<input type="checkbox"/> Channel	
<b>Flow:</b>	<input checked="" type="checkbox"/> None	<input checked="" type="checkbox"/> Trickle	<input type="checkbox"/> Moderate	<input type="checkbox"/> Substantial
<b>Odor:</b>	<input checked="" type="checkbox"/> None	<input type="checkbox"/> Sewage	<input type="checkbox"/> Rancid / Sour	<input type="checkbox"/> Sulfur (rotten eggs)
<b>Deposits / Stains</b>	<input checked="" type="checkbox"/> None	<input type="checkbox"/> Sediment Delta	<input type="checkbox"/> Oily Stain	<input type="checkbox"/> Black
<b>Benthic Growth</b>	<input checked="" type="checkbox"/> None	<input type="checkbox"/> Brown	<input type="checkbox"/> Green	<input type="checkbox"/> Orange

**Pipe Data: Provide all relevant data.**

<b>Pipe Material:</b>	<input checked="" type="checkbox"/> Concrete	<input type="checkbox"/> Corrugated Metal	<input type="checkbox"/> Plastic	<input type="checkbox"/> Other
<b>Contributing Source(s):</b>	<input checked="" type="checkbox"/> Road	<input type="checkbox"/> Parking Lot	<input type="checkbox"/> Other	<input type="checkbox"/> Unknown
<b>Pipe Outlet:</b>	<input checked="" type="checkbox"/> Perched <b>5'-2</b> ft.	<input type="checkbox"/> Ramped	<input checked="" type="checkbox"/> At Stream Level	
<b>Pipe Size:</b>	Diameter: <b>12"-18"</b>			
<b># of Pipes:</b>	<input type="checkbox"/> 1	<input type="checkbox"/> 2	<input checked="" type="checkbox"/> 3 +	<b>4</b>

**Leak-Off Data: Provide all relevant data.**

<b>Leak-Off Swale:</b>	<input type="checkbox"/> Concrete	<input type="checkbox"/> Asphalt	<input type="checkbox"/> Stone	<input type="checkbox"/> Earthen
<b>Contributing Source (s):</b>	<input type="checkbox"/> Road	<input type="checkbox"/> Parking Lot	<input type="checkbox"/> Recreational Field	<input type="checkbox"/> Other
<b>Length of Swale:</b>	ft.			
<b>Width of Swale:</b>	ft.			

**Channel Data: Provide all relevant data.**

<b>Channel Material:</b>	<input type="checkbox"/> Concrete	<input type="checkbox"/> Asphalt	<input type="checkbox"/> Stone	<input type="checkbox"/> Earthen	
<b>Contributing Source (s):</b>	<input type="checkbox"/> Road	<input type="checkbox"/> Parking Lot	<input type="checkbox"/> Recreational Field	<input type="checkbox"/> Other	<input type="checkbox"/> Unknown
<b>Channel Length:</b>	ft.				
<b>Channel Width:</b>	ft.				

**Notes:** Use the space provided to record important observations otherwise not captures on this sheet.

**CT-NRCS  
Stream Assessment Sheet**

Reach Level Assessment

Survey Basin Code:	Date(s): 7-23
Name of Stream: Wilmet	Assessed By: BIT AP TA
Reach Code: WLB-1	900-1015
Designated Stream Type:	

Make All Observations Facing *Downstream*

Was the entire reach of stream surveyed?  Yes  No, Which section(s) were not surveyed? Why?

**Channel Morphology:** Mark the predominate condition(s), and indicate the average measurements.

<input type="checkbox"/> Step-Pool	<input checked="" type="checkbox"/> Pool-Riffle	<input checked="" type="checkbox"/> Run	<input type="checkbox"/> Glide	* <input type="checkbox"/> Manipulated Channel (piped, lined, etc.)
Active Channel Width: 6'	Glide Depth: /			
Riffle Depth: 6"	Step Height: /			
Pool Depth: 1.5'	Bank Height (Right Bank): 6'			
Run Depth: 1.5'	Bank Height (Left Bank): 6'			

**Substrate Composition:** Mark approximate percentages for each substrate type observed.

Silt or Clay	<input type="checkbox"/> <5%	<input type="checkbox"/> 5-25%	<input type="checkbox"/> 25-50%	<input checked="" type="checkbox"/> 50-75%	<input type="checkbox"/> >75%
Sand	<input type="checkbox"/> <5%	<input type="checkbox"/> 5-25%	<input type="checkbox"/> 25-50%	<input checked="" type="checkbox"/> 50-75%	<input type="checkbox"/> >75%
Gravel (0.1-2 inches)	<input checked="" type="checkbox"/> <5%	<input type="checkbox"/> 5-25%	<input type="checkbox"/> 25-50%	<input type="checkbox"/> 50-75%	<input type="checkbox"/> >75%
Cobble (2-10 inches)	<input checked="" type="checkbox"/> <5%	<input type="checkbox"/> 5-25%	<input type="checkbox"/> 25-50%	<input type="checkbox"/> 50-75%	<input type="checkbox"/> >75%
Boulder (>10 inches)	<input type="checkbox"/> <5%	<input type="checkbox"/> 5-25%	<input type="checkbox"/> 25-50%	<input type="checkbox"/> 50-75%	<input type="checkbox"/> >75%
Bedrock <input checked="" type="checkbox"/>	<input type="checkbox"/> <5%	<input type="checkbox"/> 5-25%	<input type="checkbox"/> 25-50%	<input type="checkbox"/> 50-75%	<input type="checkbox"/> >75%

**Describe Water Conditions:** Mark all that apply.

<input checked="" type="checkbox"/> Clear	<input type="checkbox"/> Stained ("iced tea")	* <input type="checkbox"/> Turbid (muddy / silty)
* <input type="checkbox"/> Green	* <input type="checkbox"/> Rusty-Red	* <input type="checkbox"/> Milky
* <input type="checkbox"/> Odors	* <input type="checkbox"/> Other (foam, dyes, chemicals)	

**Aquatic Plants in Stream:**

Floating: (e.g. duck weed)	<input type="checkbox"/> Absent	<input checked="" type="checkbox"/> In Spots	* <input type="checkbox"/> Everywhere
Attached: (e.g. water lily)	<input type="checkbox"/> Absent	<input checked="" type="checkbox"/> In Spots	* <input type="checkbox"/> Everywhere

**Algae in Stream:**

Floating: (e.g. planktonic)	<input type="checkbox"/> Absent	<input checked="" type="checkbox"/> In Spots	* <input type="checkbox"/> Everywhere
Attached: (e.g. filamentous)	<input type="checkbox"/> Absent	<input checked="" type="checkbox"/> In Spots	* <input type="checkbox"/> Everywhere

**Canopy Cover:** Mark approximate percentage of stream covered by tree canopy.

<input type="checkbox"/> >75% covered	<input checked="" type="checkbox"/> 75-50% covered	<input type="checkbox"/> 50%-25% covered	<input type="checkbox"/> < 25% covered
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**Area of Concern Worksheets**  
Indicate # and type of sheets completed for this reach assessment

Erosion	
Fish Barrier	
Storm Water Outfall	1
Modified Channel	1
Impacted Buffer	1
Trash / Debris	
Water Conditions	

Note: Items marked with an asterisk (\*) indicate a potential area of concern. Please record all relevant information on the appropriate Area of Concern Worksheet(s).

Circle at the bottom 12' RR 6" rickety RL 12' 21' P dry  
 15" Riv R  
 at Riv Level -  
 CONC  
 18 Riv L  
 outfall conc  
 1/2 up dest and  
 rickety cobble  
 12" Perch  
 end of reach and conc  
 Riv R

**CT-NRCS  
Stream Assessment Sheet**

Reach Level Assessment

**Riparian Vegetation:** Characterize the average density of vegetation in the first 35 feet adjacent to the stream for both banks.

	Left Bank	Right Bank	Left Bank	Right Bank	Left Bank	Right Bank
Turf Grass	<input checked="" type="checkbox"/> Low	<input checked="" type="checkbox"/> Low	<input type="checkbox"/> Moderate	<input type="checkbox"/> Moderate	<input type="checkbox"/> High	<input type="checkbox"/> High
Grass	<input type="checkbox"/> Low	<input type="checkbox"/> Low	<input checked="" type="checkbox"/> Moderate	<input checked="" type="checkbox"/> Moderate	<input type="checkbox"/> High	<input type="checkbox"/> High
Shrubs	<input type="checkbox"/> Low	<input type="checkbox"/> Low	<input checked="" type="checkbox"/> Moderate	<input checked="" type="checkbox"/> Moderate	<input type="checkbox"/> High	<input type="checkbox"/> High
Deciduous Trees	<input checked="" type="checkbox"/> Low	<input checked="" type="checkbox"/> Low	<input type="checkbox"/> Moderate	<input type="checkbox"/> Moderate	<input type="checkbox"/> High	<input type="checkbox"/> High
Coniferous Trees	<input checked="" type="checkbox"/> Low	<input type="checkbox"/> Low	<input type="checkbox"/> Moderate	<input type="checkbox"/> Moderate	<input type="checkbox"/> High	<input type="checkbox"/> High

**Surrounding Land Use:** Mark the dominate land use(s) for each "zone", if known or observed.

Immediately adjacent to stream		< 1/4 Mile from stream		> 1/4 Mile from stream	
<input type="checkbox"/> Rural Residential	<input type="checkbox"/> Agricultural	<input type="checkbox"/> Rural Residential	<input type="checkbox"/> Agricultural	<input type="checkbox"/> Rural Residential	<input type="checkbox"/> Agricultural
<input checked="" type="checkbox"/> Suburban Residential	<input checked="" type="checkbox"/> Forested	<input checked="" type="checkbox"/> Suburban Residential	<input checked="" type="checkbox"/> Forested	<input checked="" type="checkbox"/> Suburban Residential	<input checked="" type="checkbox"/> Forested
<input type="checkbox"/> Urban Residential	<input type="checkbox"/> Recreational	<input type="checkbox"/> Urban Residential	<input type="checkbox"/> Recreational	<input type="checkbox"/> Urban Residential	<input type="checkbox"/> Recreational
<input type="checkbox"/> Industrial	<input type="checkbox"/> Other	<input type="checkbox"/> Industrial	<input type="checkbox"/> Other	<input type="checkbox"/> Industrial	<input type="checkbox"/> Other
<input type="checkbox"/> Commercial		<input type="checkbox"/> Commercial		<input type="checkbox"/> Commercial	

**Areas of Concern Checklist:** Marking "Yes" to any of the following questions indicates that an Area of Concern Worksheet should be filled out for the appropriate concern. For each occurrence observed, complete and area of concern sheet.

Is there evidence of either stream bank erosion or streambed instability within the reach?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Are there any dams or any other possible natural or artificial barriers to fish migration?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Are there any storm water outfalls, discharge pipes or discharges within the reach? Indicate the number observed: <u>4</u>	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
Is there any portion of the channel that has been modified (not culvert) (channeled, piped, rip rap)?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
Is there any portion of the reach where the riparian buffer has been compromised or is nonexistent?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
Is there any portion of the reach that contains trash or other debris (cars, appliances, construction waste)? <u>LIGHTLY SCATTERED</u>	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Is there any portion of the reach that has a change in water conditions?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No

**Notes:** Use the space provided to record important observations otherwise not captured on the Reach Assessment Sheet or the Areas of Concern Worksheets.



# CT-NRCS Stream Assessment Sheet

## Reach Level Assessment

Survey Basin Code:	Date(s): 7-16-15
Name of Stream: WILMOT BROOK	Assessed By: BH AB
Reach Code: WLBSZ	845 START
Designated Stream Type:	

**Make All Observations Facing *Downstream***

Was the entire reach of stream surveyed?  Yes  No, Which section(s) were not surveyed? Why?

**Channel Morphology:** Mark the predominate condition(s), and indicate the average measurements.

<input type="checkbox"/> Step-Pool	<input checked="" type="checkbox"/> Pool-Riffle	<input type="checkbox"/> Run	<input type="checkbox"/> Glide	* <input type="checkbox"/> Manipulated Channel (piped, lined, etc.)
Active Channel Width: 8	Glide Depth:			
Riffle Depth: 3"	Step Height:			
Pool Depth: 1' AVE (UP TO 2')	Bank Height (Right Bank): 1'			
Run Depth:	Bank Height (Left Bank): 1'			

**Substrate Composition:** Mark approximate percentages for each substrate type observed.

Silt or Clay <input checked="" type="checkbox"/>	<input type="checkbox"/> <5%	<input type="checkbox"/> 5-25%	<input type="checkbox"/> 25-50%	<input type="checkbox"/> 50-75%	<input type="checkbox"/> >75%
Sand <input type="checkbox"/>	<input type="checkbox"/> <5%	<input type="checkbox"/> 5-25%	<input type="checkbox"/> 25-50%	<input checked="" type="checkbox"/> 50-75%	<input type="checkbox"/> >75%
Gravel (0.1-2 inches) <input checked="" type="checkbox"/>	<input type="checkbox"/> <5%	<input type="checkbox"/> 5-25%	<input type="checkbox"/> 25-50%	<input type="checkbox"/> 50-75%	<input type="checkbox"/> >75%
Cobble (2-10 inches) <input type="checkbox"/>	<input type="checkbox"/> <5%	<input type="checkbox"/> 5-25%	<input checked="" type="checkbox"/> 25-50%	<input type="checkbox"/> 50-75%	<input type="checkbox"/> >75%
Boulder (>10 inches) <input checked="" type="checkbox"/>	<input checked="" type="checkbox"/> <5%	<input type="checkbox"/> 5-25%	<input type="checkbox"/> 25-50%	<input type="checkbox"/> 50-75%	<input type="checkbox"/> >75%
Bedrock <input checked="" type="checkbox"/>	<input type="checkbox"/> <5%	<input type="checkbox"/> 5-25%	<input type="checkbox"/> 25-50%	<input type="checkbox"/> 50-75%	<input type="checkbox"/> >75%

**Describe Water Conditions:** Mark all that apply.

<input checked="" type="checkbox"/> Clear	<input type="checkbox"/> Stained ("iced tea")	* <input type="checkbox"/> Turbid (muddy / silty)
* <input type="checkbox"/> Green	* <input type="checkbox"/> Rusty-Red	* <input type="checkbox"/> Milky
* <input type="checkbox"/> Odors	* <input type="checkbox"/> Other (foam, dyes, chemicals)	

**Aquatic Plants in Stream:**

Floating: (e.g. duck weed)	<input checked="" type="checkbox"/> Absent	<input type="checkbox"/> In Spots	* <input type="checkbox"/> Everywhere
Attached: (e.g. water lily)	<input checked="" type="checkbox"/> Absent	<input type="checkbox"/> In Spots	* <input type="checkbox"/> Everywhere

**Algae in Stream:**

Floating: (e.g. planktonic)	<input checked="" type="checkbox"/> Absent	<input type="checkbox"/> In Spots	* <input type="checkbox"/> Everywhere
Attached: (e.g. filamentous)	<input checked="" type="checkbox"/> Absent	<input type="checkbox"/> In Spots	* <input type="checkbox"/> Everywhere

**Canopy Cover:** Mark approximate percentage of stream covered by tree canopy.

<input checked="" type="checkbox"/> >75% covered	<input type="checkbox"/> 75-50% covered	<input type="checkbox"/> 50%-25% covered	<input type="checkbox"/> < 25% covered
--	---	--	--

**Area of Concern Worksheets**  
Indicate # and type of sheets completed for this reach assessment

Erosion	_____
Fish Barrier	_____
Storm Water Outfall	1
Modified Channel	1
Impacted Buffer	1
Trash / Debris	_____
Water Conditions	_____

**Note:** Items marked with an asterisk (\*) indicate a potential area of concern. Please record all relevant information on the appropriate Area of Concern Worksheet(s).

## CT-NRCS Stream Assessment Sheet

Reach Level Assessment

**Riparian Vegetation:** Characterize the average density of vegetation in the first 35 feet adjacent to the stream for both banks.

	Left Bank	Right Bank	Left Bank	Right Bank	Left Bank	Right Bank
Turf Grass	<input checked="" type="checkbox"/> Low	<input checked="" type="checkbox"/> Low	<input checked="" type="checkbox"/> Moderate	<input checked="" type="checkbox"/> Moderate	<input type="checkbox"/> High	<input type="checkbox"/> High
Grass	<input checked="" type="checkbox"/> Low	<input checked="" type="checkbox"/> Low	<input type="checkbox"/> Moderate	<input type="checkbox"/> Moderate	<input type="checkbox"/> High	<input type="checkbox"/> High
Shrubs	<input checked="" type="checkbox"/> Low	<input checked="" type="checkbox"/> Low	<input type="checkbox"/> Moderate	<input type="checkbox"/> Moderate	<input type="checkbox"/> High	<input type="checkbox"/> High
Deciduous Trees	<input checked="" type="checkbox"/> Low	<input type="checkbox"/> Low	<input checked="" type="checkbox"/> Moderate	<input checked="" type="checkbox"/> Moderate	<input type="checkbox"/> High	<input type="checkbox"/> High
Coniferous Trees	<input type="checkbox"/> Low	<input type="checkbox"/> Low	<input type="checkbox"/> Moderate	<input type="checkbox"/> Moderate	<input type="checkbox"/> High	<input type="checkbox"/> High

**Surrounding Land Use:** Mark the dominate land use(s) for each "zone", if known or observed.

Immediately adjacent to stream		< ¼ Mile from stream		> ¼ Mile from stream	
<input type="checkbox"/> Rural Residential	<input type="checkbox"/> Agricultural	<input type="checkbox"/> Rural Residential	<input type="checkbox"/> Agricultural	<input type="checkbox"/> Rural Residential	<input type="checkbox"/> Agricultural
<input checked="" type="checkbox"/> Suburban Residential	<input checked="" type="checkbox"/> Forested	<input checked="" type="checkbox"/> Suburban Residential	<input type="checkbox"/> Forested	<input checked="" type="checkbox"/> Suburban Residential	<input type="checkbox"/> Forested
<input type="checkbox"/> Urban Residential	<input checked="" type="checkbox"/> Recreational	<input type="checkbox"/> Urban Residential	<input type="checkbox"/> Recreational	<input type="checkbox"/> Urban Residential	<input type="checkbox"/> Recreational
<input type="checkbox"/> Industrial	<input type="checkbox"/> Other	<input type="checkbox"/> Industrial	<input type="checkbox"/> Other	<input type="checkbox"/> Industrial	<input type="checkbox"/> Other
<input type="checkbox"/> Commercial		<input type="checkbox"/> Commercial		<input type="checkbox"/> Commercial	

**Areas of Concern Checklist:** Marking "Yes" to any of the following questions indicates that an Area of Concern Worksheet should be filled out for the appropriate concern. For each occurrence observed, complete and area of concern sheet.

Is there evidence of either stream bank erosion or streambed instability within the reach?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Are there any dams or any other possible natural or artificial barriers to fish migration?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Are there any storm water outfalls, discharge pipes or discharges within the reach? Indicate the number observed: <i>16</i>	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
Is there any portion of the channel that has been modified (not culvert) (channeled, piped, rip rap)?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
Is there any portion of the reach where the riparian buffer has been compromised or is nonexistent?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
Is there any portion of the reach that contains trash or other debris (cars, appliances, construction waste)? <i>Not much...</i>	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
Is there any portion of the reach that has a change in water conditions?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No

**Notes:** Use the space provided to record important observations otherwise not captured on the Reach Assessment Sheet or the Areas of Concern Worksheets.

**CT - NRCS  
Stream Assessment Worksheet**

Storm Water Outfall

Survey Basin Code:	Date: <u>7-16-15</u>
Name of Stream: <u>WLB-2</u>	Assessed By: <u>AB BH</u>
Reach Code: <u>WLB-2</u>	
Designated Stream Type:	
Site ID:	

**Make All Observations Facing *Downstream***

**Location of Outfall:**  Right Bank  Left Bank Mark and label the location of the outfall on the map and provide a brief description of the location of the outfall relative to roads or other landmarks.

16 TOTAL 6" TO 2', BOTH SIDES

<b>Outfall Type:</b>	<input checked="" type="checkbox"/> Pipe	<input type="checkbox"/> Leak Off	<input type="checkbox"/> Channel	
<b>Flow:</b>	<input checked="" type="checkbox"/> None	<input type="checkbox"/> Trickle	<input type="checkbox"/> Moderate	<input type="checkbox"/> Substantial
<b>Odor:</b>	<input checked="" type="checkbox"/> None	<input type="checkbox"/> Sewage	<input type="checkbox"/> Rancid / Sour	<input type="checkbox"/> Sulfur (rotten eggs)
<b>Deposits / Stains</b>	<input checked="" type="checkbox"/> None	<input type="checkbox"/> Sediment Delta	<input type="checkbox"/> Oily Stain	<input type="checkbox"/> Black
<b>Benthic Growth</b>	<input checked="" type="checkbox"/> None	<input type="checkbox"/> Brown	<input type="checkbox"/> Green	<input type="checkbox"/> Orange

**Pipe Data: Provide all relevant data.**

<b>Pipe Material:</b>	<input checked="" type="checkbox"/> Concrete	<input checked="" type="checkbox"/> Corrugated Metal	<input checked="" type="checkbox"/> Plastic	<input type="checkbox"/> Other
<b>Contributing Source(s):</b>	<input checked="" type="checkbox"/> Road	<input type="checkbox"/> Parking Lot	<input checked="" type="checkbox"/> Other	<input type="checkbox"/> Unknown
<b>Pipe Outlet:</b>	<input checked="" type="checkbox"/> Perched <u>1-3</u> ft.	<input type="checkbox"/> Ramped	<input checked="" type="checkbox"/> At Stream Level	
<b>Pipe Size:</b>	Diameter: <u>6"-2</u> ft.			
<b># of Pipes:</b>	<input type="checkbox"/> 1	<input type="checkbox"/> 2	<input type="checkbox"/> 3 +	<u>16</u>

**Leak-Off Data: Provide all relevant data.**

<b>Leak-Off Swale:</b>	<input type="checkbox"/> Concrete	<input type="checkbox"/> Asphalt	<input type="checkbox"/> Stone	<input type="checkbox"/> Earthen
<b>Contributing Source (s):</b>	<input type="checkbox"/> Road	<input type="checkbox"/> Parking Lot	<input type="checkbox"/> Recreational Field	<input type="checkbox"/> Other
<b>Length of Swale:</b>	ft.			
<b>Width of Swale:</b>	ft.			

**Channel Data: Provide all relevant data.**

<b>Channel Material:</b>	<input type="checkbox"/> Concrete	<input type="checkbox"/> Asphalt	<input type="checkbox"/> Stone	<input type="checkbox"/> Earthen
<b>Contributing Source (s):</b>	<input type="checkbox"/> Road	<input type="checkbox"/> Parking Lot	<input type="checkbox"/> Recreational Field	<input type="checkbox"/> Other <input type="checkbox"/> Unknown
<b>Channel Length:</b>	ft.			
<b>Channel Width:</b>	ft.			

**Notes:** Use the space provided to record important observations otherwise not captures on this sheet.

SEE MAP FOR DETAILS

**CT - NRCS  
Stream Assessment Worksheet**

Modified Channel

Survey Basin Code:	Date: <b>7-16-15</b>
Name of Stream: <b>WILMOT</b>	Assessed By: <b>AB BH</b>
Reach Code: <b>WLB2</b>	
Designated Stream Type:	
Site ID:	

**Make All Observations Facing *Downstream***

**Location / Extent of Modified Channel:** Mark and label the location of the modified channel on the map and provide a brief description of the location of the channel section relative to roads or other landmarks.

**ENTRANCE REACH**

**Mark where channel modification occurs:**

Meander Bend     Straight Section     Steep Slope/Valley Wall     Other

**Estimate length of channel modification:**    ft.    **0.95 MILE**

**Estimate height of bank modification:**    **5** ft.

**Type of Manipulation:**     Channelization     Bank Armoring     Concrete Channel     Other

**Extent of Manipulation:**     Right Bank     Left Bank     Channel Bottom

**Channel / Bank Materials:**     Natural     Rip Rap     Concrete     Gabions     Metal **STONE**

**Immediately Adjacent Land Use:** Mark the land use(s) immediately adjacent to the modified section.

Rural Residential     Urban Residential     Commercial     Forested  
 Suburban Residential     Industrial     Agricultural     Recreational

**Existing Width of Riparian Vegetation:** Mark the average width of riparian vegetation to the modified section.

< 15 ft.     15 - 35 ft.     35 - 50 ft.     50 - 100 ft     > 100 ft

Is there a change in the average width of the active channel?     Yes / Estimate Width:    ft     No

Is there evidence of sediment deposition in the channel?     Yes     No

Is the channel connected to a floodplain?     Yes     No

**Notes:** Use the space provided to record important observations otherwise not captures on this sheet.

**CT – NRCS  
Stream Assessment Worksheet**

Degraded Buffer

Survey Basin Code:	Date: <u>7-16-15</u>
Name of Stream: <u>WILNOT</u>	Assessed By: <u>BA AB</u>
Reach Code: <u>WLB-2</u>	
Designated Stream Type:	
Site ID:	

Make All Observations Facing *Downstream*

**Location / Extent of Degraded Buffer:** 1) Mark and label the location of the degraded buffer on the map. 2) Briefly describe the location of the site relative to roads or other landmarks.

ENTRANCE REACH AND DEGRADED BUFFER

**Mark where the degraded buffer occurs.**

<input checked="" type="checkbox"/> Meander Bend	<input checked="" type="checkbox"/> Straight Section	<input type="checkbox"/> Steep Slope/Valley Wall	<input type="checkbox"/> Other
<input checked="" type="checkbox"/> Left Bank	Estimate length of degraded buffer: _____ ft.		
<input checked="" type="checkbox"/> Right Bank	Estimate length of degraded buffer: _____ ft.		

**Type of Degradation:**

Left Bank:	<input checked="" type="checkbox"/> Minimal Vegetation	<input checked="" type="checkbox"/> Minimal Width	<input type="checkbox"/> Invasive Plants	<input type="checkbox"/> Other
Right Bank:	<input checked="" type="checkbox"/> Minimal Vegetation	<input checked="" type="checkbox"/> Minimal Width	<input type="checkbox"/> Invasive Plants	<input type="checkbox"/> Other

Dominate Land Cover	Paved	Bare Ground	Turf / Lawn	Tall Grass	Scrub / Shrub	Trees	Other
Left Bank	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Right Bank	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

**Immediately Adjacent Land Use:** Mark the land use(s) immediately adjacent to the modified section.

Left Bank:	<input type="checkbox"/> Rural Residential	<input type="checkbox"/> Urban Residential	<input type="checkbox"/> Commercial	<input type="checkbox"/> Forested
	<input checked="" type="checkbox"/> Suburban Residential	<input type="checkbox"/> Industrial	<input type="checkbox"/> Agricultural	<input checked="" type="checkbox"/> Recreational
Right Bank:	<input type="checkbox"/> Rural Residential	<input type="checkbox"/> Urban Residential	<input type="checkbox"/> Commercial	<input type="checkbox"/> Forested
	<input checked="" type="checkbox"/> Suburban Residential	<input type="checkbox"/> Industrial	<input type="checkbox"/> Agricultural	<input type="checkbox"/> Recreational

**Existing Width of Riparian Vegetation:** Mark the average width of riparian vegetation to the modified section.

Left Bank:	<input checked="" type="checkbox"/> < 15 ft.	<input type="checkbox"/> 15 – 35 ft.	<input type="checkbox"/> 35 – 50 ft.	<input type="checkbox"/> 50 – 100 ft	<input type="checkbox"/> > 100 ft
Right Bank:	<input checked="" type="checkbox"/> < 15 ft.	<input type="checkbox"/> 15 – 35 ft.	<input type="checkbox"/> 35 – 50 ft.	<input type="checkbox"/> 50 – 100 ft	<input type="checkbox"/> > 100 ft

**Notes:** Use the space provided to record important observations otherwise not captures on this sheet.

WLB3

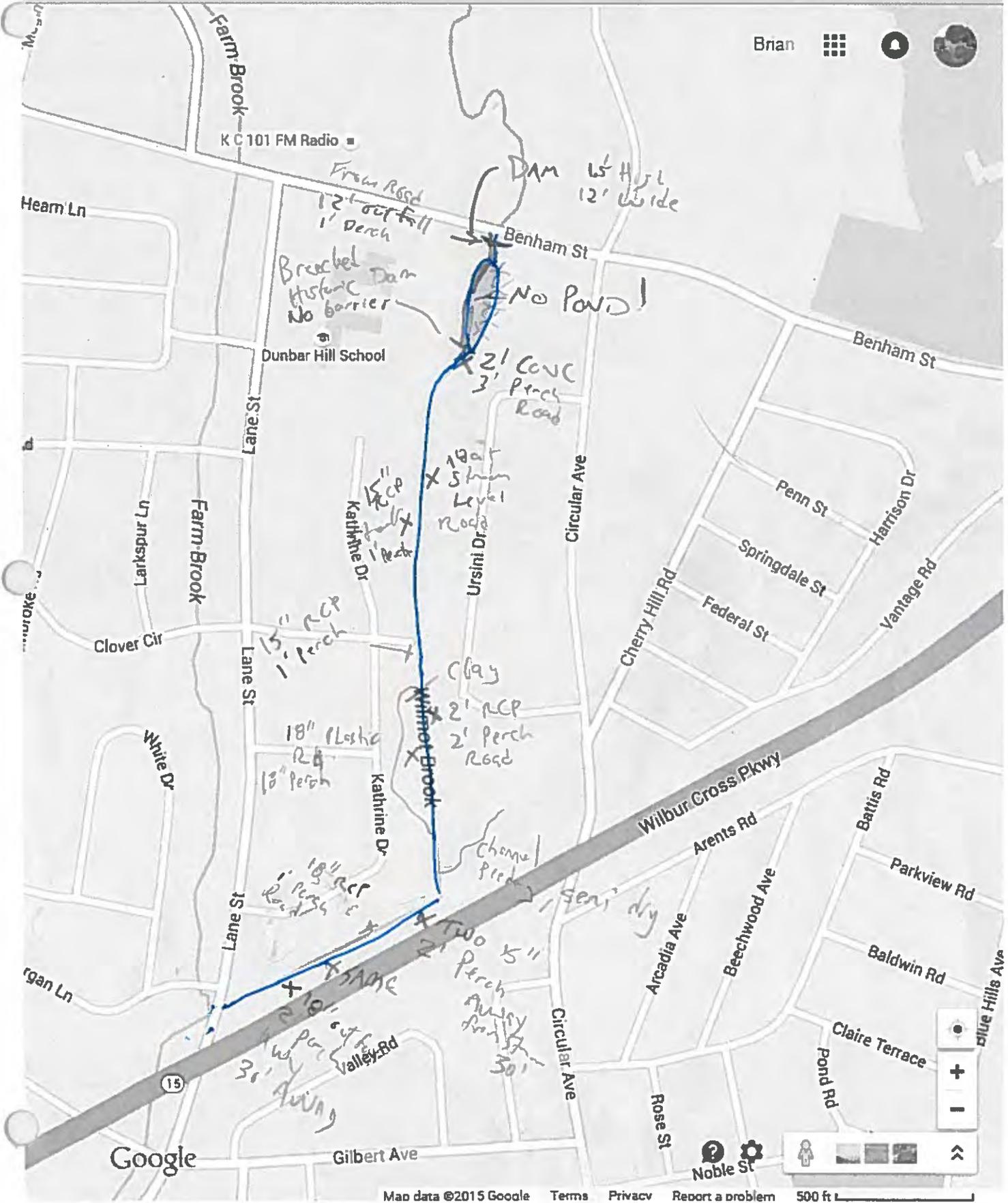
0.57'

455 Benham

+CT+06514/@41.3625545,-72.9426465,16.27z/data=!4m2!3m1!1s0x89e7dbd580a0fa7b:0x595b! ☆

Glast... FEMA Map Serv... UConn CLEAR CT NEMO Progr...

Other bookmarks



**CT-NRCS  
Stream Assessment Sheet**

Reach Level Assessment

Survey Basin Code:	Date(s): 7-16-15
Name of Stream: WILMOT	Assessed By: AB BH
Reach Code: WLB-3	
Designated Stream Type:	

Make All Observations Facing *Downstream*

Was the entire reach of stream surveyed?  Yes  No, Which section(s) were not surveyed? Why?

**Channel Morphology:** Mark the predominate condition(s), and indicate the average measurements.

<input type="checkbox"/> Step-Pool	<input checked="" type="checkbox"/> Pool-Riffle	<input type="checkbox"/> Run	<input type="checkbox"/> Glide	* <input type="checkbox"/> Manipulated Channel (piped, lined, etc.)
Active Channel Width: 8'	Glide Depth:			
Riffle Depth: 4"	Step Height:			
Pool Depth: 1'	Bank Height (Right Bank):			
Run Depth:	Bank Height (Left Bank):			

**Substrate Composition:** Mark approximate percentages for each substrate type observed.

Silt or Clay	<input checked="" type="checkbox"/> <5%	<input type="checkbox"/> 5-25%	<input type="checkbox"/> 25-50%	<input type="checkbox"/> 50-75%	<input type="checkbox"/> >75%
Sand	<input type="checkbox"/> <5%	<input type="checkbox"/> 5-25%	<input checked="" type="checkbox"/> 25-50%	<input type="checkbox"/> 50-75%	<input type="checkbox"/> >75%
Gravel (0.1-2 inches)	<input checked="" type="checkbox"/> <5%	<input type="checkbox"/> 5-25%	<input type="checkbox"/> 25-50%	<input type="checkbox"/> 50-75%	<input type="checkbox"/> >75%
Cobble (2-10 inches)	<input type="checkbox"/> <5%	<input type="checkbox"/> 5-25%	<input type="checkbox"/> 25-50%	<input checked="" type="checkbox"/> 50-75%	<input type="checkbox"/> >75%
Boulder (>10 inches)	<input checked="" type="checkbox"/> <5%	<input type="checkbox"/> 5-25%	<input type="checkbox"/> 25-50%	<input type="checkbox"/> 50-75%	<input type="checkbox"/> >75%
Bedrock	<input checked="" type="checkbox"/> <5%	<input type="checkbox"/> 5-25%	<input type="checkbox"/> 25-50%	<input type="checkbox"/> 50-75%	<input type="checkbox"/> >75%

**Describe Water Conditions:** Mark all that apply.

<input checked="" type="checkbox"/> Clear	<input type="checkbox"/> Stained ("iced tea")	* <input type="checkbox"/> Turbid (muddy / silty)
* <input type="checkbox"/> Green	* <input type="checkbox"/> Rusty-Red	* <input type="checkbox"/> Milky
* <input type="checkbox"/> Odors	* <input type="checkbox"/> Other (foam, dyes, chemicals)	

**Aquatic Plants in Stream:**

Floating: (e.g. duck weed)	<input type="checkbox"/> Absent	<input type="checkbox"/> In Spots	* <input type="checkbox"/> Everywhere
Attached: (e.g. water lily)	<input type="checkbox"/> Absent	<input checked="" type="checkbox"/> In Spots	* <input type="checkbox"/> Everywhere

**Algae in Stream:**

Floating: (e.g. planktonic)	<input type="checkbox"/> Absent	<input type="checkbox"/> In Spots	* <input type="checkbox"/> Everywhere
Attached: (e.g. filamentous)	<input checked="" type="checkbox"/> Absent	<input type="checkbox"/> In Spots	* <input type="checkbox"/> Everywhere

**Canopy Cover:** Mark approximate percentage of stream covered by tree canopy.

<input checked="" type="checkbox"/> >75% covered	<input type="checkbox"/> 75-50% covered	<input type="checkbox"/> 50%-25% covered	<input type="checkbox"/> < 25% covered
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**Area of Concern Worksheets**  
Indicate # and type of sheets completed for this reach assessment

Erosion	
Fish Barrier	X
Storm Water Outfall	X
Modified Channel	X
Impacted Buffer	X
Trash / Debris	
Water Conditions	

**Note:** Items marked with an asterisk (\*) indicate a potential area of concern. Please record all relevant information on the appropriate Area of Concern Worksheet(s).

## CT-NRCS Stream Assessment Sheet

Reach Level Assessment

<b>Riparian Vegetation:</b> Characterize the average density of vegetation in the first 35 feet adjacent to the stream for both banks.						
	Left Bank	Right Bank	Left Bank	Right Bank	Left Bank	Right Bank
Turf Grass	<input checked="" type="checkbox"/> Low	<input checked="" type="checkbox"/> Low	<input type="checkbox"/> Moderate	<input type="checkbox"/> Moderate	<input type="checkbox"/> High	<input type="checkbox"/> High
Grass	<input checked="" type="checkbox"/> Low	<input checked="" type="checkbox"/> Low	<input type="checkbox"/> Moderate	<input type="checkbox"/> Moderate	<input type="checkbox"/> High	<input type="checkbox"/> High
Shrubs	<input checked="" type="checkbox"/> Low	<input checked="" type="checkbox"/> Low	<input type="checkbox"/> Moderate	<input type="checkbox"/> Moderate	<input type="checkbox"/> High	<input type="checkbox"/> High
Deciduous Trees	<input type="checkbox"/> Low	<input type="checkbox"/> Low	<input type="checkbox"/> Moderate	<input type="checkbox"/> Moderate	<input checked="" type="checkbox"/> High	<input checked="" type="checkbox"/> High
Coniferous Trees	<input type="checkbox"/> Low	<input type="checkbox"/> Low	<input type="checkbox"/> Moderate	<input type="checkbox"/> Moderate	<input type="checkbox"/> High	<input type="checkbox"/> High

<b>Surrounding Land Use:</b> Mark the dominate land use(s) for each "zone", if known or observed.					
Immediately adjacent to stream		< ¼ Mile from stream		> ¼ Mile from stream	
<input type="checkbox"/> Rural Residential	<input type="checkbox"/> Agricultural	<input type="checkbox"/> Rural Residential	<input type="checkbox"/> Agricultural	<input type="checkbox"/> Rural Residential	<input type="checkbox"/> Agricultural
<input checked="" type="checkbox"/> Suburban Residential	<input checked="" type="checkbox"/> Forested	<input checked="" type="checkbox"/> Suburban Residential	<input type="checkbox"/> Forested	<input checked="" type="checkbox"/> Suburban Residential	<input type="checkbox"/> Forested
<input type="checkbox"/> Urban Residential	<input type="checkbox"/> Recreational	<input type="checkbox"/> Urban Residential	<input type="checkbox"/> Recreational	<input type="checkbox"/> Urban Residential	<input type="checkbox"/> Recreational
<input type="checkbox"/> Industrial	<input type="checkbox"/> Other	<input type="checkbox"/> Industrial	<input checked="" type="checkbox"/> Other Hi-WAY	<input type="checkbox"/> Industrial	<input type="checkbox"/> Other
<input type="checkbox"/> Commercial		<input type="checkbox"/> Commercial		<input type="checkbox"/> Commercial	

<b>Areas of Concern Checklist:</b> Marking "Yes" to any of the following questions indicates that an Area of Concern Worksheet should be filled out for the appropriate concern. For each occurrence observed, complete and area of concern sheet.		
Is there evidence of either stream bank erosion or streambed instability within the reach?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Are there any dams or any other possible natural or artificial barriers to fish migration?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
Are there any storm water outfalls, discharge pipes or discharges within the reach? Indicate the number observed: <u>12</u>	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
Is there any portion of the channel that has been modified (not culvert) (channeled, piped, rip rap)?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
Is there any portion of the reach where the riparian buffer has been compromised or is nonexistent?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
Is there any portion of the reach that contains trash or other debris (cars, appliances, construction waste)?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Is there any portion of the reach that has a change in water conditions?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No

**Notes:** Use the space provided to record important observations otherwise not captured on the Reach Assessment Sheet or the Areas of Concern Worksheets.

**CT – NRCS  
Stream Assessment Worksheet**

Modified Channel

Survey Basin Code:	Date: 7-16-15
Name of Stream: WILMOT	Assessed By: BH AB
Reach Code: WLB-3	
Designated Stream Type:	
Site ID:	

Make All Observations Facing *Downstream*

**Location / Extent of Modified Channel:** Mark and label the location of the modified channel on the map and provide a brief description of the location of the channel section relative to roads or other landmarks.

75% OF REACH MOSTLY BEHIND RESIDENTIAL

**Mark where channel modification occurs:**

<input type="checkbox"/> Meander Bend	<input checked="" type="checkbox"/> Straight Section	<input type="checkbox"/> Steep Slope/Valley Wall	<input type="checkbox"/> Other
Estimate length of channel modification: ft. 50-75%		Estimate height of bank modification: 4 ft.	

<b>Type of Manipulation:</b>	<input checked="" type="checkbox"/> Channelization	<input type="checkbox"/> Bank Armoring	<input type="checkbox"/> Concrete Channel	<input type="checkbox"/> Other	
<b>Extent of Manipulation:</b>	<input checked="" type="checkbox"/> Right Bank	<input checked="" type="checkbox"/> Left Bank	<input type="checkbox"/> Channel Bottom		
<b>Channel / Bank Materials:</b>	<input checked="" type="checkbox"/> Natural	<input type="checkbox"/> Rip Rap	<input type="checkbox"/> Concrete	<input type="checkbox"/> Gabions	<input type="checkbox"/> Metal

**Immediately Adjacent Land Use:** Mark the land use(s) immediately adjacent to the modified section.

<input type="checkbox"/> Rural Residential	<input type="checkbox"/> Urban Residential	<input type="checkbox"/> Commercial	<input checked="" type="checkbox"/> Forested
<input checked="" type="checkbox"/> Suburban Residential	<input type="checkbox"/> Industrial	<input type="checkbox"/> Agricultural	<input type="checkbox"/> Recreational

**Existing Width of Riparian Vegetation:** Mark the average width of riparian vegetation to the modified section.

<input checked="" type="checkbox"/> < 15 ft.	<input type="checkbox"/> 15 – 35 ft.	<input type="checkbox"/> 35 – 50 ft.	<input type="checkbox"/> 50 – 100 ft.	<input type="checkbox"/> > 100 ft.
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Is there a change in the average width of the active channel?	<input type="checkbox"/> Yes / Estimate Width: ft	<input checked="" type="checkbox"/> No
Is there evidence of sediment deposition in the channel?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Is the channel connected to a floodplain?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No

**Notes:** Use the space provided to record important observations otherwise not captures on this sheet.

**CT - NRCS  
Stream Assessment Worksheet**

Storm Water Outfall

Survey Basin Code:	Date: <u>7/16/15</u>
Name of Stream: <u>WILMOT</u>	Assessed By: <u>ASHA + BRIAN</u>
Reach Code: <u>WLB-3</u>	
Designated Stream Type:	
Site ID:	

**Make All Observations Facing *Downstream***

**Location of Outfall:**  Right Bank  Left Bank Mark and label the location of the outfall on the map and provide a brief description of the location of the outfall relative to roads or other landmarks.

12 *OUTFALLS*

<b>Outfall Type:</b>	<input checked="" type="checkbox"/> Pipe	<input type="checkbox"/> Leak Off	<input type="checkbox"/> Channel	
<b>Flow:</b>	<input checked="" type="checkbox"/> None	<input type="checkbox"/> Trickle	<input type="checkbox"/> Moderate	<input type="checkbox"/> Substantial
<b>Odor:</b>	<input checked="" type="checkbox"/> None	<input type="checkbox"/> Sewage	<input type="checkbox"/> Rancid / Sour	<input type="checkbox"/> Sulfur (rotten eggs)
<b>Deposits / Stains</b>	<input checked="" type="checkbox"/> None	<input type="checkbox"/> Sediment Delta	<input type="checkbox"/> Oily Stain	<input type="checkbox"/> Black
<b>Benthic Growth</b>	<input checked="" type="checkbox"/> None	<input type="checkbox"/> Brown	<input type="checkbox"/> Green	<input type="checkbox"/> Orange

**Pipe Data: Provide all relevant data.**

<b>Pipe Material:</b>	<input checked="" type="checkbox"/> Concrete	<input type="checkbox"/> Corrugated Metal	<input checked="" type="checkbox"/> Plastic	<input type="checkbox"/> Other
<b>Contributing Source(s):</b>	<input checked="" type="checkbox"/> Road	<input type="checkbox"/> Parking Lot	<input type="checkbox"/> Other	<input type="checkbox"/> Unknown
<b>Pipe Outlet:</b>	<input checked="" type="checkbox"/> Perched..... ft.	<input type="checkbox"/> Ramped	<input checked="" type="checkbox"/> At Stream Level	
<b>Pipe Size:</b>	Diameter: <u>12-24</u> ft.			
<b># of Pipes:</b>	<input type="checkbox"/> 1	<input type="checkbox"/> 2	<input type="checkbox"/> 3 +	<input checked="" type="checkbox"/> <u>12</u>

**Leak-Off Data: Provide all relevant data.**

<b>Leak-Off Swale:</b>	<input type="checkbox"/> Concrete	<input type="checkbox"/> Asphalt	<input type="checkbox"/> Stone	<input type="checkbox"/> Earthen
<b>Contributing Source (s):</b>	<input type="checkbox"/> Road	<input type="checkbox"/> Parking Lot	<input type="checkbox"/> Recreational Field	<input type="checkbox"/> Other
<b>Length of Swale:</b> ft.				
<b>Width of Swale:</b> ft.				

**Channel Data: Provide all relevant data.**

<b>Channel Material:</b>	<input type="checkbox"/> Concrete	<input type="checkbox"/> Asphalt	<input type="checkbox"/> Stone	<input type="checkbox"/> Earthen	
<b>Contributing Source (s):</b>	<input type="checkbox"/> Road	<input type="checkbox"/> Parking Lot	<input type="checkbox"/> Recreational Field	<input type="checkbox"/> Other	<input type="checkbox"/> Unknown
<b>Channel Length:</b> ft.					
<b>Channel Width:</b> ft.					

**Notes:** Use the space provided to record important observations otherwise not captures on this sheet.

**CT - NRCS  
Stream Assessment Worksheet**

Fish Barrier

Survey Basin Code:	Date: 7-16-15
Name of Stream: WILMOT	Assessed By: ASHIA + BRIAN
Reach Code: WLB-3	
Designated Stream Type:	
Site ID:	

**Make All Observations Facing *Downstream***

**Location of Barrier:** Mark and label the location of the barrier on the map and provide a brief description of the location of the barrier relative to roads or other landmarks.

END OF REACH, AT BENHAM ST.

**Type of Barrier:** Mark the type of fish barrier.

<input checked="" type="checkbox"/> Dam	<input type="checkbox"/> Culvert	<input type="checkbox"/> Velocity Barrier	<input type="checkbox"/> Other
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**Dam Data:** Provide all relevant data.

Height of Dam: 1 1/2 ft.	Length of Spillway: 12 ft.	Shape of Spillway: <input checked="" type="checkbox"/> Straight	<input type="checkbox"/> Crescent	
Materials: <input type="checkbox"/> Stone	<input checked="" type="checkbox"/> Concrete	<input type="checkbox"/> Stone & Concrete	<input type="checkbox"/> Timber-Crib	<input type="checkbox"/> Other

Is there other infrastructure associated with the Dam?  No  Yes (If yes mark the type below)

<input type="checkbox"/> Factory	<input type="checkbox"/> Hydro Facility	<input type="checkbox"/> Mill	<input type="checkbox"/> Residence	<input checked="" type="checkbox"/> Other
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CULVERT UNDER BRIDGE

**Culvert Data:** Provide all relevant data.

Type of Culvert:	<input type="checkbox"/> Box	<input type="checkbox"/> Pipe	<input type="checkbox"/> Pipe-Arch	<input type="checkbox"/> Arch
Culvert Material:	<input type="checkbox"/> Concrete	<input type="checkbox"/> Corrugated Metal	<input type="checkbox"/> Plastic	<input type="checkbox"/> Stone
Culvert Outlet:	<input type="checkbox"/> Perched:..... ft.	<input type="checkbox"/> Ramped	<input type="checkbox"/> Submerged	
Culvert Size:	Diameter:..... ft.	Height:..... ft.	Width:..... ft.	
# of Culverts:	Culvert Length:..... ft.			

**Velocity Barrier Data:** Provide all relevant data.

Nature of Barrier:	<input type="checkbox"/> Grade Control Sill	<input type="checkbox"/> Concrete Apron	<input type="checkbox"/> Channel Cross-Section	<input type="checkbox"/> Other
Length of Barrier:..... ft.	Approx. Vertical Rise:..... ft.			

**Notes:** Use the space provided to record important observations otherwise not captured on this sheet.

**CT - NRCS  
Stream Assessment Worksheet**

Degraded Buffer

Survey Basin Code:	Date: 7-16-15
Name of Stream: WILMOT Brook	Assessed By: BH AB
Reach Code: WLB-3	
Designated Stream Type:	
Site ID:	

Make All Observations Facing *Downstream*

**Location / Extent of Degraded Buffer:** 1) Mark and label the location of the degraded buffer on the map. 2) Briefly describe the location of the site relative to roads or other landmarks.

50-75' of Reach - ALL AREAS NEAR RES. STREETS

**Mark where the degraded buffer occurs.**

<input checked="" type="checkbox"/> Meander Bend	<input checked="" type="checkbox"/> Straight Section	<input type="checkbox"/> Steep Slope/Valley Wall	<input type="checkbox"/> Other
<input checked="" type="checkbox"/> Left Bank	Estimate length of degraded buffer: ft.		
<input checked="" type="checkbox"/> Right Bank	Estimate length of degraded buffer: ft.		

**Type of Degradation:**

Left Bank:	<input checked="" type="checkbox"/> Minimal Vegetation	<input checked="" type="checkbox"/> Minimal Width	<input type="checkbox"/> Invasive Plants	<input type="checkbox"/> Other
Right Bank:	<input checked="" type="checkbox"/> Minimal Vegetation	<input checked="" type="checkbox"/> Minimal Width	<input type="checkbox"/> Invasive Plants	<input type="checkbox"/> Other

Dominate Land Cover	Paved	Bare Ground	Turf/Lawn	Tall Grass	Scrub / Shrub	Trees	Other
Left Bank	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Right Bank	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

**Immediately Adjacent Land Use:** Mark the land use(s) immediately adjacent to the modified section.

Left Bank:	<input type="checkbox"/> Rural Residential	<input type="checkbox"/> Urban Residential	<input type="checkbox"/> Commercial	<input checked="" type="checkbox"/> Forested
	<input checked="" type="checkbox"/> Suburban Residential	<input type="checkbox"/> Industrial	<input type="checkbox"/> Agricultural	<input type="checkbox"/> Recreational
Right Bank:	<input type="checkbox"/> Rural Residential	<input type="checkbox"/> Urban Residential	<input type="checkbox"/> Commercial	<input checked="" type="checkbox"/> Forested
	<input checked="" type="checkbox"/> Suburban Residential	<input type="checkbox"/> Industrial	<input type="checkbox"/> Agricultural	<input type="checkbox"/> Recreational

**Existing Width of Riparian Vegetation:** Mark the average width of riparian vegetation to the modified section.

Left Bank:	<input checked="" type="checkbox"/> < 15 ft.	<input type="checkbox"/> 15 - 35 ft.	<input type="checkbox"/> 35 - 50 ft.	<input type="checkbox"/> 50 - 100 ft.	<input type="checkbox"/> > 100 ft.
Right Bank:	<input checked="" type="checkbox"/> < 15 ft.	<input type="checkbox"/> 15 - 35 ft.	<input type="checkbox"/> 35 - 50 ft.	<input type="checkbox"/> 50 - 100 ft.	<input type="checkbox"/> > 100 ft.

**Notes:** Use the space provided to record important observations otherwise not captures on this sheet.

**CT - NRCS  
Stream Assessment Worksheet**

Erosion Assessment

Survey Basin Code:	Date:
Name of Stream:	Assessed By:
Reach Code:	
Designated Stream Type:	
Site ID:	

**Make All Observations Facing *Downstream***

**Location of Bank Erosion:** 1) Mark and label the location of the erosion on the map. 2) Briefly describe the location of the site relative to roads or other landmarks.

**Mark where erosion is occurring:**

<input type="checkbox"/> Meander Bend	<input type="checkbox"/> Straight Section	<input type="checkbox"/> Steep Slope/Valley Wall	<input type="checkbox"/> Other
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**Site Dimensions:** Indicate all applicable measurements associated with the erosion site

<b>Length:</b>	Left Bank:	ft.	Right Bank:	ft.
<b>Bank Height:</b>	Left Bank:	ft.	Right Bank:	ft.
<b>Bank Angle:</b>	Left Bank:	deg.	Right Bank:	deg.

**What is the proximity of the erosion site to infrastructure (e.g. road, bridge, building, etc.)?**

<input type="checkbox"/> < 15 ft.	<input type="checkbox"/> 15 - 30 ft	<input type="checkbox"/> 30 - 45 ft	<input type="checkbox"/> 45 - 60 ft	<input type="checkbox"/> 60 - 100 ft	<input type="checkbox"/> > 100 ft.
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**Immediately Adjacent Land Use:** Mark the land use(s) immediately adjacent to the erosion site.

<input type="checkbox"/> Rural Residential	<input type="checkbox"/> Urban Residential	<input type="checkbox"/> Commercial	<input type="checkbox"/> Forested
<input type="checkbox"/> Suburban Residential	<input type="checkbox"/> Industrial	<input type="checkbox"/> Agricultural	<input type="checkbox"/> Recreational

**Land Ownership:** Mark land ownership at the location of the erosion site.

<input type="checkbox"/> Public	<input type="checkbox"/> Private	<input type="checkbox"/> Unknown
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**Existing Width of Riparian Vegetation:** Mark the average width of riparian vegetation at the erosion site.

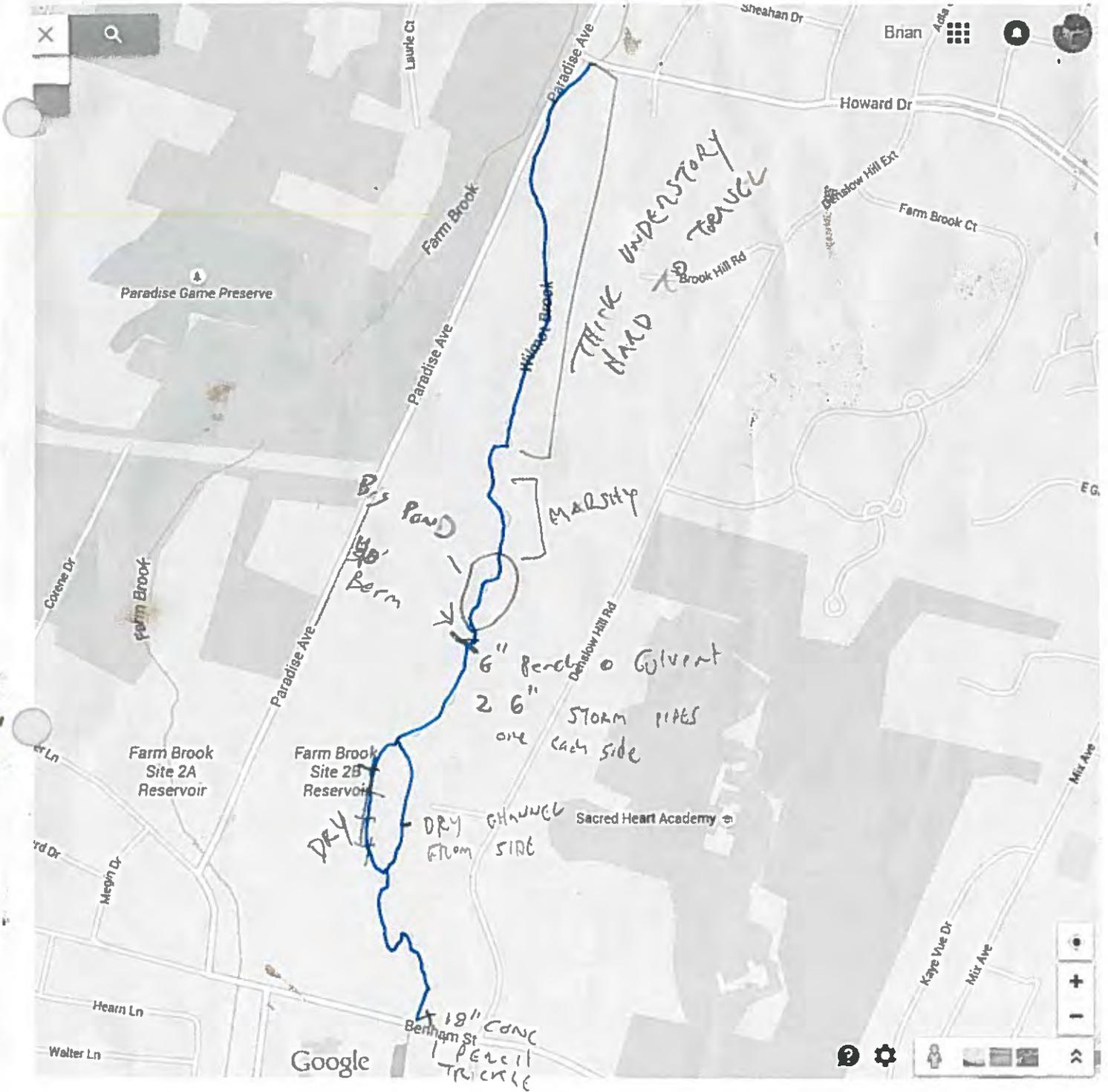
<input type="checkbox"/> < 15 ft.	<input type="checkbox"/> 15 - 35 ft.	<input type="checkbox"/> 35 - 50 ft.	<input type="checkbox"/> 50 - 100 ft	<input type="checkbox"/> > 100 ft
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**Notes:** Use the space provided to record important observations otherwise not captured on this sheet.

WCB4

1.43m

423 HOWARD DRIVE



455 BENHAM ST. HAMDEN

# CT-NRCS Stream Assessment Sheet

## Reach Level Assessment

Survey Basin Code:	Date(s): 7-21
Name of Stream: WILMOT	Assessed By: BH, TYLER
Reach Code: WLBH	
Designated Stream Type:	

**Make All Observations Facing *Downstream***

Was the entire reach of stream surveyed?  Yes  No, Which section(s) were not surveyed? Why?

**Channel Morphology:** Mark the predominate condition(s), and indicate the average measurements.

<input type="checkbox"/> Step-Pool	<input checked="" type="checkbox"/> Pool-Riffle	<input type="checkbox"/> Run	<input type="checkbox"/> Glide	<input type="checkbox"/> *Manipulated Channel (piped, lined, etc.)
Active Channel Width: 10'			Glide Depth:	
Riffle Depth: 3"			Step Height:	
Pool Depth: 1'			Bank Height (Right Bank): 1' STEEP BANK	
Run Depth:			Bank Height (Left Bank): 1' SHALLOW BANK	

**Substrate Composition:** Mark approximate percentages for each substrate type observed.

Silt or Clay	<input type="checkbox"/> <5%	<input checked="" type="checkbox"/> 5-25%	<input type="checkbox"/> 25-50%	<input type="checkbox"/> 50-75%	<input type="checkbox"/> >75%
Sand	<input type="checkbox"/> <5%	<input checked="" type="checkbox"/> 5-25%	<input type="checkbox"/> 25-50%	<input type="checkbox"/> 50-75%	<input type="checkbox"/> >75%
Gravel (0.1-2 inches)	<input checked="" type="checkbox"/> <5%	<input type="checkbox"/> 5-25%	<input type="checkbox"/> 25-50%	<input type="checkbox"/> 50-75%	<input type="checkbox"/> >75%
Cobble (2-10 inches)	<input type="checkbox"/> <5%	<input type="checkbox"/> 5-25%	<input checked="" type="checkbox"/> 25-50%	<input type="checkbox"/> 50-75%	<input type="checkbox"/> >75%
Boulder (>10 inches)	<input type="checkbox"/> <5%	<input type="checkbox"/> 5-25%	<input type="checkbox"/> 25-50%	<input type="checkbox"/> 50-75%	<input type="checkbox"/> >75%
Bedrock	<input type="checkbox"/> <5%	<input type="checkbox"/> 5-25%	<input type="checkbox"/> 25-50%	<input type="checkbox"/> 50-75%	<input type="checkbox"/> >75%

**Describe Water Conditions:** Mark all that apply.

<input checked="" type="checkbox"/> Clear	<input type="checkbox"/> Stained ("iced tea")	<input type="checkbox"/> *Turbid (muddy / silty)
<input type="checkbox"/> *Green	<input type="checkbox"/> *Rusty-Red	<input type="checkbox"/> *Milky
<input type="checkbox"/> *Odors	<input type="checkbox"/> *Other (foam, dyes, chemicals)	

**Aquatic Plants in Stream:**

Floating: (e.g. duck weed)	<input type="checkbox"/> Absent	<input checked="" type="checkbox"/> In Spots	<input type="checkbox"/> *Everywhere
Attached: (e.g. water lily)	<input type="checkbox"/> Absent	<input checked="" type="checkbox"/> In Spots	<input type="checkbox"/> *Everywhere

**Algae in Stream:**

Floating: (e.g. planktonic)	<input checked="" type="checkbox"/> Absent	<input type="checkbox"/> In Spots	<input type="checkbox"/> *Everywhere
Attached: (e.g. filamentous)	<input type="checkbox"/> Absent	<input checked="" type="checkbox"/> In Spots	<input type="checkbox"/> *Everywhere

**Canopy Cover:** Mark approximate percentage of stream covered by tree canopy.

<input type="checkbox"/> >75% covered	<input checked="" type="checkbox"/> 75-50% covered	<input type="checkbox"/> 50%-25% covered	<input type="checkbox"/> <25% covered
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**Area of Concern Worksheets**  
Indicate # and type of sheets completed for this reach assessment

Erosion	_____
Fish Barrier	_____
Storm Water Outfall	_____
Modified Channel	_____
Impacted Buffer	_____
Trash / Debris	_____
Water Conditions	_____

**Note:** Items marked with an asterisk (\*) indicate a potential area of concern. Please record all relevant information on the appropriate Area of Concern Worksheet(s).

# CT-NRCS Stream Assessment Sheet

## Reach Level Assessment

**Riparian Vegetation:** Characterize the average density of vegetation in the first 35 feet adjacent to the stream for both banks.

	Left Bank	Right Bank	Left Bank	Right Bank	Left Bank	Right Bank
Turf Grass <input checked="" type="checkbox"/>	<input type="checkbox"/> Low	<input type="checkbox"/> Low	<input type="checkbox"/> Moderate	<input type="checkbox"/> Moderate	<input type="checkbox"/> High	<input type="checkbox"/> High
Grass	<input type="checkbox"/> Low	<input type="checkbox"/> Low	<input checked="" type="checkbox"/> Moderate	<input checked="" type="checkbox"/> Moderate	<input type="checkbox"/> High	<input type="checkbox"/> High
Shrubs	<input type="checkbox"/> Low	<input type="checkbox"/> Low	<input type="checkbox"/> Moderate	<input type="checkbox"/> Moderate	<input checked="" type="checkbox"/> High	<input checked="" type="checkbox"/> High
Deciduous Trees	<input type="checkbox"/> Low	<input type="checkbox"/> Low	<input type="checkbox"/> Moderate	<input type="checkbox"/> Moderate	<input checked="" type="checkbox"/> High	<input checked="" type="checkbox"/> High
Coniferous Trees <input checked="" type="checkbox"/>	<input type="checkbox"/> Low	<input type="checkbox"/> Low	<input type="checkbox"/> Moderate	<input type="checkbox"/> Moderate	<input type="checkbox"/> High	<input type="checkbox"/> High

**Surrounding Land Use:** Mark the dominate land use(s) for each "zone", if known or observed.

Immediately adjacent to stream	< ¼ Mile from stream		> ¼ Mile from stream		
<input type="checkbox"/> Rural Residential	<input checked="" type="checkbox"/> Agricultural	<input checked="" type="checkbox"/> Rural Residential	<input checked="" type="checkbox"/> Agricultural	<input checked="" type="checkbox"/> Rural Residential	<input checked="" type="checkbox"/> Agricultural
<input type="checkbox"/> Suburban Residential	<input checked="" type="checkbox"/> Forested	<input type="checkbox"/> Suburban Residential	<input checked="" type="checkbox"/> Forested	<input checked="" type="checkbox"/> Suburban Residential	<input checked="" type="checkbox"/> Forested
<input type="checkbox"/> Urban Residential	<input type="checkbox"/> Recreational	<input type="checkbox"/> Urban Residential	<input type="checkbox"/> Recreational	<input type="checkbox"/> Urban Residential	<input type="checkbox"/> Recreational
<input type="checkbox"/> Industrial	<input type="checkbox"/> Other	<input type="checkbox"/> Industrial	<input type="checkbox"/> Other	<input type="checkbox"/> Industrial	<input type="checkbox"/> Other
<input type="checkbox"/> Commercial		<input type="checkbox"/> Commercial		<input type="checkbox"/> Commercial	

**Areas of Concern Checklist:** Marking "Yes" to any of the following questions indicates that an Area of Concern Worksheet should be filled out for the appropriate concern. For each occurrence observed, complete and area of concern sheet.

Is there evidence of either stream bank erosion or streambed instability within the reach?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Are there any dams or any other possible natural or artificial barriers to fish migration?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
Are there any storm water outfalls, discharge pipes or discharges within the reach? Indicate the number observed: _____	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
Is there any portion of the channel that has been modified (not culvert) (channeled, piped, rip rap)?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Is there any portion of the reach where the riparian buffer has been compromised or is nonexistent?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Is there any portion of the reach that contains trash or other debris (cars, appliances, construction waste)?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
Is there any portion of the reach that has a change in water conditions?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No

**Notes:** Use the space provided to record important observations otherwise not captured on the Reach Assessment Sheet or the Areas of Concern Worksheets.

**CT - NRCS  
Stream Assessment Worksheet**

Fish Barrier

Survey Basin Code:	Date: 7-21
Name of Stream: WILMOT	Assessed By: BH TA
Reach Code: WLG-4	
Designated Stream Type:	
Site ID:	

**Make All Observations Facing *Downstream***

**Location of Barrier:** Mark and label the location of the barrier on the map and provide a brief description of the location of the barrier relative to roads or other landmarks.

@ 3/4 MILE IN

**Type of Barrier:** Mark the type of fish barrier.

<input checked="" type="checkbox"/> Dam	<input checked="" type="checkbox"/> Culvert	<input type="checkbox"/> Velocity Barrier	<input type="checkbox"/> Other
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**Dam Data:** Provide all relevant data.

Height of Dam: 40 ft.	Length of Spillway: 10 ft.	Shape of Spillway: <input checked="" type="checkbox"/> Straight	<input type="checkbox"/> Crescent
Materials: <input type="checkbox"/> Stone	<input checked="" type="checkbox"/> Concrete	<input type="checkbox"/> Stone & Concrete	<input type="checkbox"/> Timber-Crib
<input checked="" type="checkbox"/> Other <i>LARTHEN</i>			
Is there other infrastructure associated with the Dam? <input checked="" type="checkbox"/> No			
<input type="checkbox"/> Yes (If yes mark the type below)			
<input type="checkbox"/> Factory	<input type="checkbox"/> Hydro Facility	<input type="checkbox"/> Mill	<input type="checkbox"/> Residence
<input type="checkbox"/> Other			

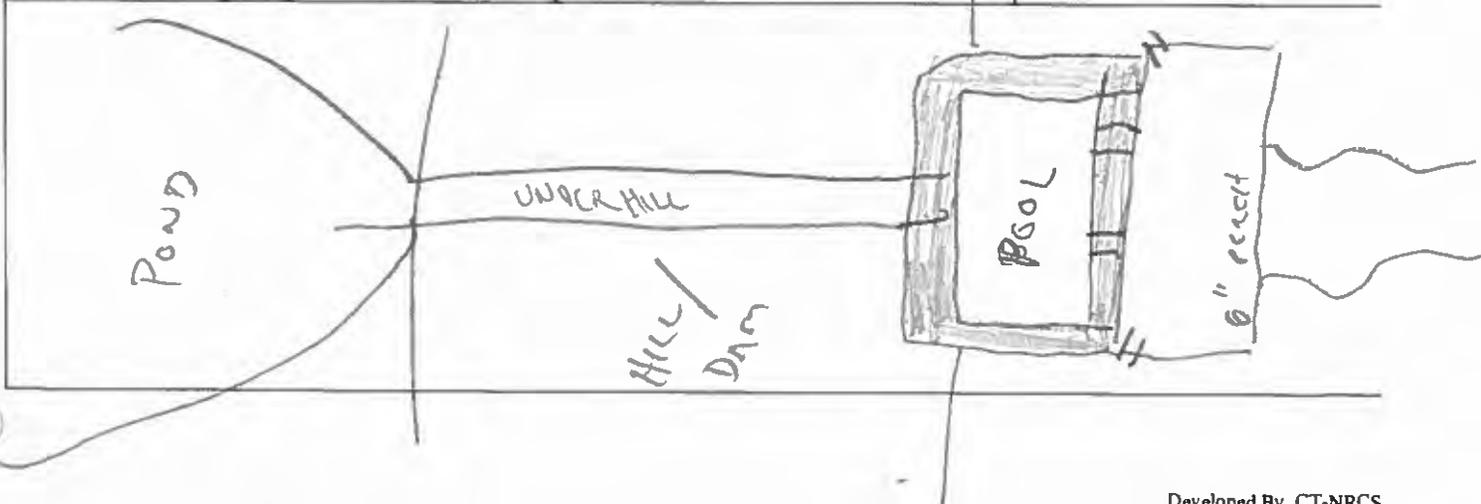
**Culvert Data:** Provide all relevant data.

Type of Culvert: <input type="checkbox"/> Box	<input checked="" type="checkbox"/> Pipe	<input type="checkbox"/> Pipe-Arch	<input type="checkbox"/> Arch
Culvert Material: <input checked="" type="checkbox"/> Concrete	<input type="checkbox"/> Corrugated Metal	<input type="checkbox"/> Plastic	<input type="checkbox"/> Stone
Culvert Outlet: <input type="checkbox"/> Perched:..... ft.	<input type="checkbox"/> Ramped	<input checked="" type="checkbox"/> Submerged	
Culvert Size: Diameter: 3 ft.	Height: ft.	Width: ft.	
# of Culverts: 1	Culvert Length: 100 ft.		

**Velocity Barrier Data:** Provide all relevant data.

Nature of Barrier: <input type="checkbox"/> Grade Control Sill	<input checked="" type="checkbox"/> Concrete Apron	<input type="checkbox"/> Channel Cross-Section	<input type="checkbox"/> Other
Length of Barrier: ft.	Approx. Vertical Rise: ft.		

**Notes:** Use the space provided to record important observations otherwise not captured on this sheet.



**CT - NRCS  
Stream Assessment Worksheet**

Trash / Debris

Survey Basin Code:	Date: 7-21
Name of Stream: WLM-T	Assessed By: BIT TA
Reach Code: WLBH	
Designated Stream Type:	
Site ID:	

Make All Observations Facing *Downstream*

**Location / Extent of Trash or Debris:** Mark and label the location of the trash or debris on the map and provide a brief description of the location relative to roads or other landmarks.

TRASH THROUGHOUT

Within Stream       Riparian Area:     Left Bank     Right Bank

<b>Type:</b>	<input checked="" type="checkbox"/> Residential	<input type="checkbox"/> Commercial	<input type="checkbox"/> Industrial	
<b>Material:</b>	<input type="checkbox"/> Plastic	<input checked="" type="checkbox"/> Tires	<input type="checkbox"/> Appliances	<input type="checkbox"/> Other
	<input type="checkbox"/> Paper	<input checked="" type="checkbox"/> Metal	<input checked="" type="checkbox"/> Automotive	
	<input type="checkbox"/> Yard Waste	<input checked="" type="checkbox"/> Construction	<input type="checkbox"/> Medical	
<b>Source:</b>	<input type="checkbox"/> Unknown	<input checked="" type="checkbox"/> Flooding	<input checked="" type="checkbox"/> Illegal Dumping	<input type="checkbox"/> Local Outfall
<b>Land Ownership:</b>	<input type="checkbox"/> Private	<input type="checkbox"/> Public	<input checked="" type="checkbox"/> Unknown	

**Notes:** Use the space provided to record important observations otherwise not captures on this sheet.

MOSTLY OLD, SPREAD THROUGHOUT.  
2 CARS  
6 TIRES

## CT - NRCS Stream Assessment Worksheet

Storm Water Outfall

Survey Basin Code:	Date: <u>7.21</u>
Name of Stream: <u>WILMOT</u>	Assessed By: <u>BK TA</u>
Reach Code: <u>WLB4</u>	
Designated Stream Type:	
Site ID:	

**Make All Observations Facing *Downstream***

**Location of Outfall:**  Right Bank  Left Bank Mark and label the location of the outfall on the map and provide a brief description of the location of the outfall relative to roads or other landmarks.

Outfall Type:	<input checked="" type="checkbox"/> Pipe	<input type="checkbox"/> Leak Off	<input type="checkbox"/> Channel	
Flow:	<input type="checkbox"/> None	<input checked="" type="checkbox"/> Trickle	<input type="checkbox"/> Moderate	<input type="checkbox"/> Substantial
Odor:	<input checked="" type="checkbox"/> None	<input type="checkbox"/> Sewage	<input type="checkbox"/> Rancid / Sour	<input type="checkbox"/> Sulfur (rotten eggs)
Deposits / Stains	<input checked="" type="checkbox"/> None	<input type="checkbox"/> Sediment Delta	<input type="checkbox"/> Oily Stain	<input type="checkbox"/> Black
Benthic Growth	<input checked="" type="checkbox"/> None	<input type="checkbox"/> Brown	<input type="checkbox"/> Green	<input type="checkbox"/> Orange

**Pipe Data:** Provide all relevant data.

Pipe Material:	<input checked="" type="checkbox"/> Concrete	<input type="checkbox"/> Corrugated Metal	<input type="checkbox"/> Plastic	<input type="checkbox"/> Other
Contributing Source(s):	<input checked="" type="checkbox"/> Road	<input type="checkbox"/> Parking Lot	<input type="checkbox"/> Other	<input type="checkbox"/> Unknown
Pipe Outlet:	<input checked="" type="checkbox"/> Perched..... <u>1</u> ft.	<input type="checkbox"/> Ramped	<input type="checkbox"/> At Stream Level	
Pipe Size:	Diameter: <u>1.5</u> ft.			
# of Pipes:	<input checked="" type="checkbox"/> 1	<input type="checkbox"/> 2	<input type="checkbox"/> 3 +	

**Leak-Off Data:** Provide all relevant data.

Leak-Off Swale:	<input type="checkbox"/> Concrete	<input type="checkbox"/> Asphalt	<input type="checkbox"/> Stone	<input type="checkbox"/> Earthen
Contributing Source (s):	<input type="checkbox"/> Road	<input type="checkbox"/> Parking Lot	<input type="checkbox"/> Recreational Field	<input type="checkbox"/> Other
Length of Swale:     ft.				
Width of Swale:     ft.				

**Channel Data:** Provide all relevant data.

Channel Material:	<input type="checkbox"/> Concrete	<input type="checkbox"/> Asphalt	<input type="checkbox"/> Stone	<input type="checkbox"/> Earthen
Contributing Source (s):	<input type="checkbox"/> Road	<input type="checkbox"/> Parking Lot	<input type="checkbox"/> Recreational Field	<input type="checkbox"/> Other <input type="checkbox"/> Unknown
Channel Length:     ft.				
Channel Width:     ft.				

**Notes:** Use the space provided to record important observations otherwise not captures on this sheet.

**CT - NRCS  
Stream Assessment Worksheet**

Modified Channel

Survey Basin Code:	Date: 7-21
Name of Stream: WILMOT	Assessed By: BH TA
Reach Code: WCB4	
Designated Stream Type:	
Site ID:	

**Make All Observations Facing *Downstream***

**Location / Extent of Modified Channel:** Mark and label the location of the modified channel on the map and provide a brief description of the location of the channel section relative to roads or other landmarks.

CULVERT <sup>THROUGH</sup> LARGE BERM/EARTHEN DAM @ 40' TALL  
/ LARGE IMPOUNDMENT

**Mark where channel modification occurs:**

Meander Bend     Straight Section     Steep Slope/Valley Wall     Other

**Estimate length of channel modification:** 100 ft.

**Estimate height of bank modification:** ft.

**Type of Manipulation:**     Channelization     Bank Armoring     Concrete Channel     Other

**Extent of Manipulation:**     Right Bank     Left Bank     Channel Bottom

**Channel / Bank Materials:**     Natural     Rip Rap     Concrete     Gabions     Metal

**Immediately Adjacent Land Use:** Mark the land use(s) immediately adjacent to the modified section.

Rural Residential     Urban Residential     Commercial     Forested  
 Suburban Residential     Industrial     Agricultural     Recreational

**Existing Width of Riparian Vegetation:** Mark the average width of riparian vegetation to the modified section.

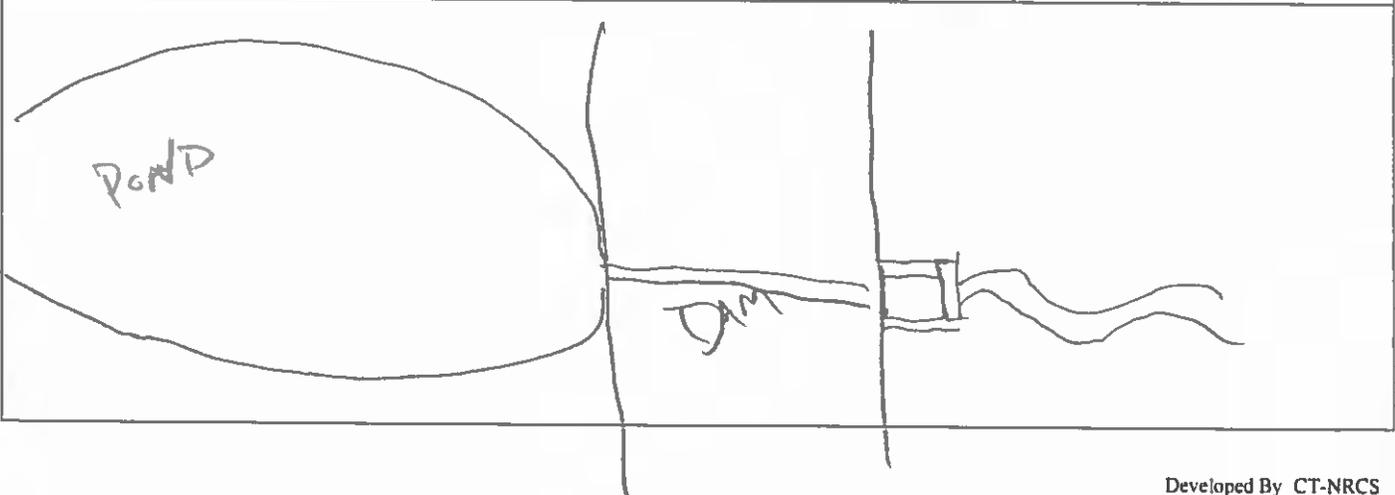
< 15 ft.     15 - 35 ft.     35 - 50 ft.     50 - 100 ft.     > 100 ft

Is there a change in the average width of the active channel?     Yes / Estimate Width: 3 ft     No

Is there evidence of sediment deposition in the channel?     Yes     No

Is the channel connected to a floodplain?     Yes     No

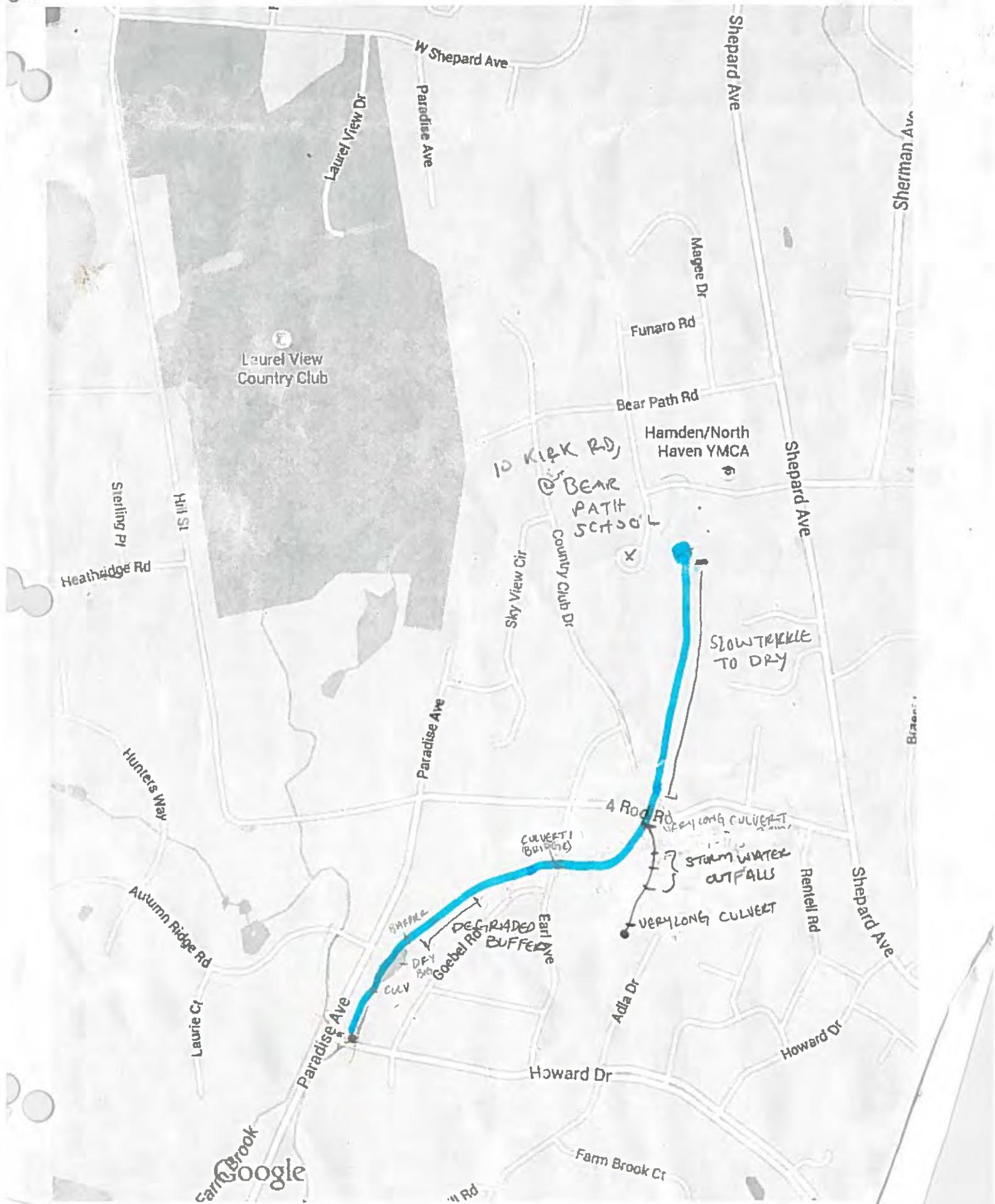
**Notes:** Use the space provided to record important observations otherwise not captures on this sheet.



WLB 5

0.90 MILES

10 KIRK RD



423 HOWARD DRIVE

proprio  
current  
planning



## CT-NRCS Stream Assessment Sheet

Reach Level Assessment

Survey Basin Code:	Date(s): 7/23/15 1h 1/2
Name of Stream: WILMOT	Assessed By: AB, DE
Reach Code: WLBS	
Designated Stream Type:	

Make All Observations Facing *Downstream*

Was the entire reach of stream surveyed?  Yes  No, Which section(s) were not surveyed? Why?  
SORRY!

**Channel Morphology:** Mark the predominate condition(s), and indicate the average measurements.

<input type="checkbox"/> Step-Pool	<input checked="" type="checkbox"/> Pool-Riffle	<input type="checkbox"/> Run	<input checked="" type="checkbox"/> Glide	* <input type="checkbox"/> Manipulated Channel (piped, lined, etc.)
Active Channel Width:		Glide Depth: 8"		
Riffle Depth: 3"		Step Height:		
Pool Depth: 8'-1'		Bank Height (Right Bank): 1 1/2		
Run Depth:		Bank Height (Left Bank): 1 1/2		

**Substrate Composition:** Mark approximate percentages for each substrate type observed.

Silt or Clay	<input checked="" type="checkbox"/> <5%	<input type="checkbox"/> 5-25%	<input type="checkbox"/> 25-50%	<input type="checkbox"/> 50-75%	<input type="checkbox"/> >75%
Sand	<input type="checkbox"/> <5%	<input type="checkbox"/> 5-25%	<input type="checkbox"/> 25-50%	<input checked="" type="checkbox"/> 50-75%	<input type="checkbox"/> >75%
Gravel (0.1-2 inches)	<input type="checkbox"/> <5%	<input checked="" type="checkbox"/> 5-25%	<input type="checkbox"/> 25-50%	<input type="checkbox"/> 50-75%	<input type="checkbox"/> >75%
Cobble (2-10 inches)	<input type="checkbox"/> <5%	<input checked="" type="checkbox"/> 5-25%	<input type="checkbox"/> 25-50%	<input type="checkbox"/> 50-75%	<input type="checkbox"/> >75%
Boulder (>10 inches)	<input checked="" type="checkbox"/> <5%	<input type="checkbox"/> 5-25%	<input type="checkbox"/> 25-50%	<input type="checkbox"/> 50-75%	<input type="checkbox"/> >75%
Bedrock	<input type="checkbox"/> <5%	<input type="checkbox"/> 5-25%	<input type="checkbox"/> 25-50%	<input type="checkbox"/> 50-75%	<input type="checkbox"/> >75%

**Describe Water Conditions:** Mark all that apply.

<input checked="" type="checkbox"/> Clear	<input type="checkbox"/> Stained ("iced tea")	* <input type="checkbox"/> Turbid (muddy / silty)
* <input type="checkbox"/> Green	* <input type="checkbox"/> Rusty-Red	* <input type="checkbox"/> Milky
* <input type="checkbox"/> Odors	* <input type="checkbox"/> Other (foam, dyes, chemicals)	

**Aquatic Plants in Stream:**

Floating: (e.g. duck weed)	<input type="checkbox"/> Absent	<input checked="" type="checkbox"/> In Spots	* <input type="checkbox"/> Everywhere
Attached: (e.g. water lily)	<input type="checkbox"/> Absent	<input checked="" type="checkbox"/> In Spots	* <input type="checkbox"/> Everywhere

**Algae in Stream:**

Floating: (e.g. planktonic)	<input type="checkbox"/> Absent	<input type="checkbox"/> In Spots	* <input type="checkbox"/> Everywhere
Attached: (e.g. filamentous)	<input type="checkbox"/> Absent	<input checked="" type="checkbox"/> In Spots	* <input type="checkbox"/> Everywhere

**Canopy Cover:** Mark approximate percentage of stream covered by tree canopy.

<input type="checkbox"/> >75% covered	<input type="checkbox"/> 75-50% covered	<input checked="" type="checkbox"/> 50%-25% covered	<input type="checkbox"/> < 25% covered
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**Area of Concern Worksheets**  
Indicate # and type of sheets completed for this reach assessment

Erosion	_____
Fish Barrier	_____ X
Storm Water Outfall	_____ X
Modified Channel	_____
Impacted Buffer	_____ X
Trash / Debris	_____
Water Conditions	_____

Note: Items marked with an asterisk (\*) indicate a potential area of concern. Please record all relevant information on the appropriate Area of Concern Worksheet(s).

**CT-NRCS  
Stream Assessment Sheet**

Reach Level Assessment

**Riparian Vegetation:** Characterize the average density of vegetation in the first 35 feet adjacent to the stream for both banks.

	Left Bank	Right Bank	Left Bank	Right Bank	Left Bank	Right Bank
Turf Grass	<input checked="" type="checkbox"/> Low	<input checked="" type="checkbox"/> Low	<input type="checkbox"/> Moderate	<input type="checkbox"/> Moderate	<input type="checkbox"/> High	<input type="checkbox"/> High
Grass	<input type="checkbox"/> Low	<input type="checkbox"/> Low	<input checked="" type="checkbox"/> Moderate	<input checked="" type="checkbox"/> Moderate	<input type="checkbox"/> High	<input type="checkbox"/> High
Shrubs	<input type="checkbox"/> Low	<input type="checkbox"/> Low	<input type="checkbox"/> Moderate	<input type="checkbox"/> Moderate	<input checked="" type="checkbox"/> High	<input checked="" type="checkbox"/> High
Deciduous Trees	<input type="checkbox"/> Low	<input type="checkbox"/> Low	<input checked="" type="checkbox"/> Moderate	<input checked="" type="checkbox"/> Moderate	<input type="checkbox"/> High	<input type="checkbox"/> High
Coniferous Trees	<input type="checkbox"/> Low	<input type="checkbox"/> Low	<input type="checkbox"/> Moderate	<input type="checkbox"/> Moderate	<input type="checkbox"/> High	<input type="checkbox"/> High

**Surrounding Land Use:** Mark the dominate land use(s) for each "zone", if known or observed.

Immediately adjacent to stream		< ¼ Mile from stream		> ¼ Mile from stream	
<input type="checkbox"/> Rural Residential	<input type="checkbox"/> Agricultural	<input type="checkbox"/> Rural Residential	<input type="checkbox"/> Agricultural	<input type="checkbox"/> Rural Residential	<input type="checkbox"/> Agricultural
<input checked="" type="checkbox"/> Suburban Residential	<input checked="" type="checkbox"/> Forested	<input checked="" type="checkbox"/> Suburban Residential	<input checked="" type="checkbox"/> Forested	<input type="checkbox"/> Suburban Residential	<input type="checkbox"/> Forested
<input type="checkbox"/> Urban Residential	<input type="checkbox"/> Recreational	<input type="checkbox"/> Urban Residential	<input type="checkbox"/> Recreational	<input type="checkbox"/> Urban Residential	<input checked="" type="checkbox"/> Recreational
<input type="checkbox"/> Industrial	<input type="checkbox"/> Other	<input type="checkbox"/> Industrial	<input type="checkbox"/> Other	<input type="checkbox"/> Industrial	<input type="checkbox"/> Other
<input checked="" type="checkbox"/> Commercial		<input type="checkbox"/> Commercial		<input type="checkbox"/> Commercial	

**Areas of Concern Checklist:** Marking "Yes" to any of the following questions indicates that an Area of Concern Worksheet should be filled out for the appropriate concern. For each occurrence observed, complete an area of concern sheet.

Is there evidence of either stream bank erosion or streambed instability within the reach?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Are there any dams or any other possible natural or artificial barriers to fish migration?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
Are there any storm water outfalls, discharge pipes or discharges within the reach? Indicate the number observed: _____.	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
Is there any portion of the channel that has been modified (not culvert) (channeled, piped, rip rap)?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Is there any portion of the reach where the riparian buffer has been compromised or is nonexistent?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
Is there any portion of the reach that contains trash or other debris (cars, appliances, construction waste)?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Is there any portion of the reach that has a change in water conditions?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No

**Notes:** Use the space provided to record important observations otherwise not captured on the Reach Assessment Sheet or the Areas of Concern Worksheets.

**CT - NRCS  
Stream Assessment Worksheet**

Fish Barrier

Survey Basin Code:	Date: 7/23/15 1h/2
Name of Stream: WILMOT	Assessed By: AB PE
Reach Code: WLBS	
Designated Stream Type:	
Site ID:	

**Make All Observations Facing *Downstream***

**Location of Barrier:** Mark and label the location of the barrier on the map and provide a brief description of the location of the barrier relative to roads or other landmarks.  
 NEAR END OF REACH. POND BETWEEN PARADISE AVE AND GOEBEL RD.

**Type of Barrier:** Mark the type of fish barrier.

<input type="checkbox"/> Dam	<input type="checkbox"/> Culvert	<input type="checkbox"/> Velocity Barrier	<input checked="" type="checkbox"/> Other DRIED POND
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**Dam Data:** Provide all relevant data.

Height of Dam: ft.	Length of Spillway: ft.	Shape of Spillway: <input type="checkbox"/> Straight <input type="checkbox"/> Crescent
Materials: <input type="checkbox"/> Stone <input type="checkbox"/> Concrete <input type="checkbox"/> Stone & Concrete <input type="checkbox"/> Timber-Crib <input type="checkbox"/> Other		
Is there other infrastructure associated with the Dam? <input type="checkbox"/> No <input type="checkbox"/> Yes (If yes mark the type below)		
<input type="checkbox"/> Factory	<input type="checkbox"/> Hydro Facility	<input type="checkbox"/> Mill <input type="checkbox"/> Residence <input type="checkbox"/> Other

**Culvert Data:** Provide all relevant data.

Type of Culvert: <input type="checkbox"/> Box <input type="checkbox"/> Pipe <input type="checkbox"/> Pipe-Arch <input type="checkbox"/> Arch
Culvert Material: <input type="checkbox"/> Concrete <input type="checkbox"/> Corrugated Metal <input type="checkbox"/> Plastic <input type="checkbox"/> Stone
Culvert Outlet: <input type="checkbox"/> Perched:..... ft. <input type="checkbox"/> Ramped <input type="checkbox"/> Submerged
Culvert Size: Diameter: ft. Height: ft. Width: ft.
# of Culverts: Culvert Length: ft.

**Velocity Barrier Data:** Provide all relevant data.

Nature of Barrier: <input type="checkbox"/> Grade Control Sill <input type="checkbox"/> Concrete Apron <input type="checkbox"/> Channel Cross-Section <input type="checkbox"/> Other
Length of Barrier: ft. Approx. Vertical Rise: ft.

**Notes:** Use the space provided to record important observations otherwise not captured on this sheet.

DRIED STREAM AND POND BETWEEN TWO STRETCHES OF  
THE REACH

**CT – NRCS  
Stream Assessment Worksheet**

Storm Water Outfall

Survey Basin Code:	Date: 7/23/15
Name of Stream: WILMOT	Assessed By: ABPE
Reach Code: WLBS	
Designated Stream Type:	
Site ID:	

**Make All Observations Facing *Downstream***

**Location of Outfall:**  Right Bank  Left Bank Mark and label the location of the outfall on the map and provide a brief description of the location of the outfall relative to roads or other landmarks.

4 CONCRETE

<b>Outfall Type:</b>	<input checked="" type="checkbox"/> Pipe	<input type="checkbox"/> Leak Off	<input type="checkbox"/> Channel	
<b>Flow:</b>	<input checked="" type="checkbox"/> None	<input type="checkbox"/> Trickle	<input type="checkbox"/> Moderate	<input type="checkbox"/> Substantial
<b>Odor:</b>	<input checked="" type="checkbox"/> None	<input type="checkbox"/> Sewage	<input type="checkbox"/> Rancid / Sour	<input type="checkbox"/> Sulfur (rotten eggs)
<b>Deposits / Stains</b>	<input checked="" type="checkbox"/> None	<input type="checkbox"/> Sediment Delta	<input type="checkbox"/> Oily Stain	<input type="checkbox"/> Black
<b>Benthic Growth</b>	<input checked="" type="checkbox"/> None	<input type="checkbox"/> Brown	<input type="checkbox"/> Green	<input type="checkbox"/> Orange

**Pipe Data: Provide all relevant data.**

<b>Pipe Material:</b>	<input checked="" type="checkbox"/> Concrete	<input checked="" type="checkbox"/> Corrugated Metal	<input checked="" type="checkbox"/> Plastic	<input checked="" type="checkbox"/> Other
<b>Contributing Source(s):</b>	<input checked="" type="checkbox"/> Road	<input type="checkbox"/> Parking Lot	<input checked="" type="checkbox"/> Other <small>UPAWN</small>	<input type="checkbox"/> Unknown
<b>Pipe Outlet:</b>	<input checked="" type="checkbox"/> Perched..... ft.	<input type="checkbox"/> Ramped	<input type="checkbox"/> At Stream Level	
<b>Pipe Size:</b>	Diameter: 4" ft.			
<b># of Pipes:</b>	<input type="checkbox"/> 1	<input type="checkbox"/> 2	<input type="checkbox"/> 3 +	<input checked="" type="checkbox"/> 4

**Leak-Off Data: Provide all relevant data.**

<b>Leak-Off Swale:</b>	<input type="checkbox"/> Concrete	<input type="checkbox"/> Asphalt	<input type="checkbox"/> Stone	<input type="checkbox"/> Earthen
<b>Contributing Source (s):</b>	<input type="checkbox"/> Road	<input type="checkbox"/> Parking Lot	<input type="checkbox"/> Recreational Field	<input type="checkbox"/> Other
<b>Length of Swale:</b> ft.				
<b>Width of Swale:</b> ft.				

**Channel Data: Provide all relevant data.**

<b>Channel Material:</b>	<input type="checkbox"/> Concrete	<input type="checkbox"/> Asphalt	<input type="checkbox"/> Stone	<input type="checkbox"/> Earthen
<b>Contributing Source (s):</b>	<input type="checkbox"/> Road	<input type="checkbox"/> Parking Lot	<input type="checkbox"/> Recreational Field	<input type="checkbox"/> Other <input type="checkbox"/> Unknown
<b>Channel Length:</b> ft.				
<b>Channel Width:</b> ft.				

**Notes:** Use the space provided to record important observations otherwise not captures on this sheet.

**CT - NRCS  
Stream Assessment Worksheet**

Degraded Buffer

Survey Basin Code:	Date: 7/23/15
Name of Stream: WILMOT	Assessed By: AB RE
Reach Code: WLBS	
Designated Stream Type:	
Site ID:	

Make All Observations Facing *Downstream*

**Location / Extent of Degraded Buffer:** 1) Mark and label the location of the degraded buffer on the map. 2) Briefly describe the location of the site relative to roads or other landmarks.

IN FIRST BEND OF THE REACH, LEFT BANK

**Mark where the degraded buffer occurs.**

<input checked="" type="checkbox"/> Meander Bend	<input type="checkbox"/> Straight Section	<input type="checkbox"/> Steep Slope/Valley Wall	<input type="checkbox"/> Other
<input checked="" type="checkbox"/> Left Bank	Estimate length of degraded buffer: 100 ft.		
<input type="checkbox"/> Right Bank	Estimate length of degraded buffer: ft.		

**Type of Degradation:**

<b>Left Bank:</b>	<input checked="" type="checkbox"/> Minimal Vegetation	<input checked="" type="checkbox"/> Minimal Width	<input type="checkbox"/> Invasive Plants	<input type="checkbox"/> Other
<b>Right Bank:</b>	<input type="checkbox"/> Minimal Vegetation	<input type="checkbox"/> Minimal Width	<input type="checkbox"/> Invasive Plants	<input type="checkbox"/> Other

Dominate Land Cover	Paved	Bare Ground	Turf / Lawn	Tall Grass	Scrub / Shrub	Trees	Other
<b>Left Bank</b>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Right Bank</b>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

**Immediately Adjacent Land Use:** Mark the land use(s) immediately adjacent to the modified section.

<b>Left Bank:</b>	<input type="checkbox"/> Rural Residential	<input type="checkbox"/> Urban Residential	<input type="checkbox"/> Commercial	<input type="checkbox"/> Forested
	<input checked="" type="checkbox"/> Suburban Residential	<input type="checkbox"/> Industrial	<input type="checkbox"/> Agricultural	<input type="checkbox"/> Recreational
<b>Right Bank:</b>	<input type="checkbox"/> Rural Residential	<input type="checkbox"/> Urban Residential	<input type="checkbox"/> Commercial	<input type="checkbox"/> Forested
	<input type="checkbox"/> Suburban Residential	<input type="checkbox"/> Industrial	<input type="checkbox"/> Agricultural	<input type="checkbox"/> Recreational

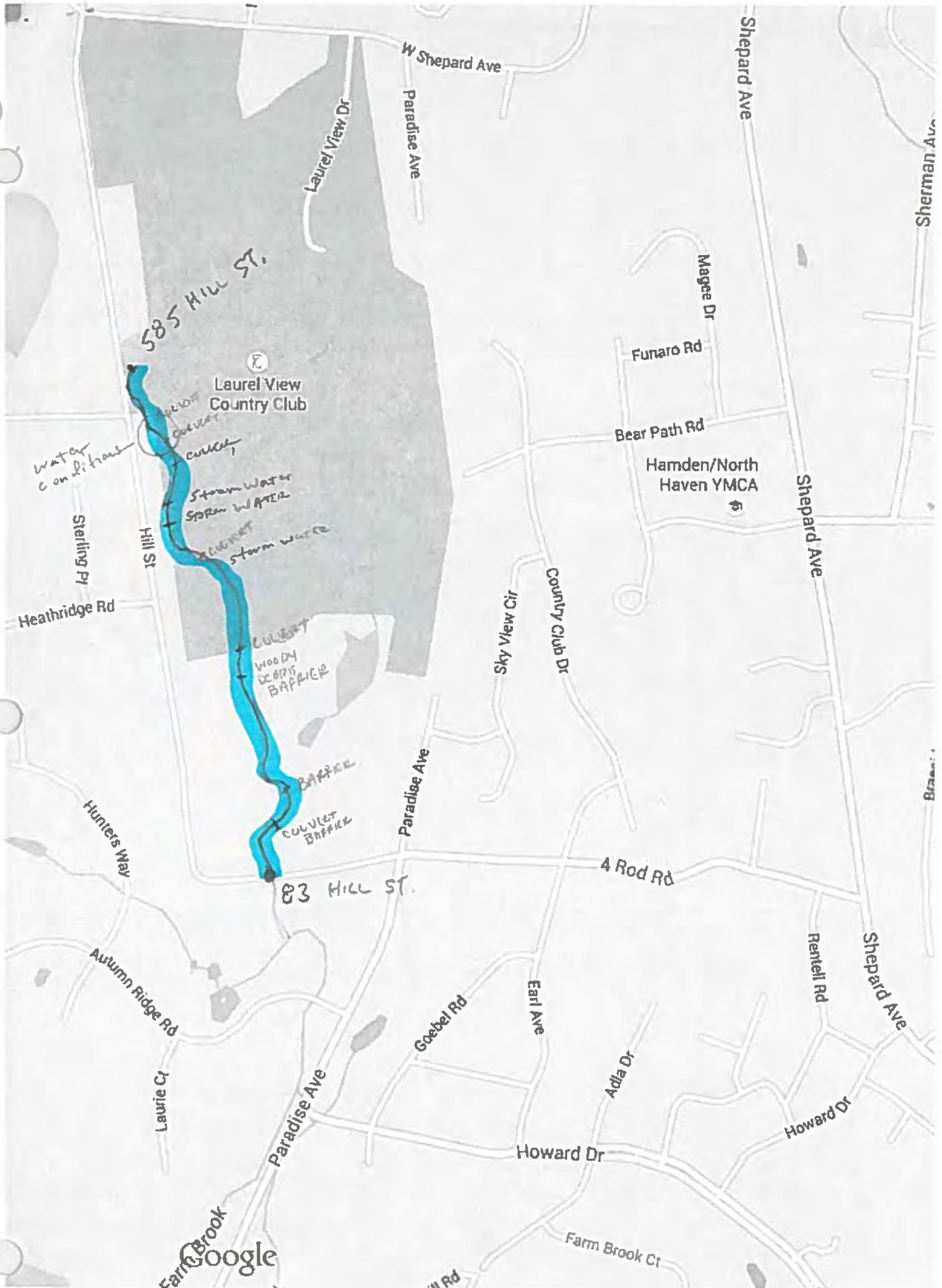
**Existing Width of Riparian Vegetation:** Mark the average width of riparian vegetation to the modified section.

<b>Left Bank:</b>	<input checked="" type="checkbox"/> < 15 ft.	<input type="checkbox"/> 15 - 35 ft.	<input type="checkbox"/> 35 - 50 ft.	<input type="checkbox"/> 50 - 100 ft.	<input type="checkbox"/> > 100 ft.
<b>Right Bank:</b>	<input type="checkbox"/> < 15 ft.	<input type="checkbox"/> 15 - 35 ft.	<input type="checkbox"/> 35 - 50 ft.	<input type="checkbox"/> 50 - 100 ft.	<input type="checkbox"/> > 100 ft.

**Notes:** Use the space provided to record important observations otherwise not captures on this sheet.

WLBSA

0.81 MILES



83 Hill St, Hamden to 585 Hill St, Hamden

**CT-NRCS  
Stream Assessment Sheet**

Reach Level Assessment

Survey Basin Code:	Date(s): 7/23/15 11:45-1 PM
Name of Stream: WILMIT	Assessed By: AB DE
Reach Code: WLBSA	
Designated Stream Type:	

Make All Observations Facing *Downstream*

Was the entire reach of stream surveyed?  Yes  No, Which section(s) were not surveyed? Why?

<b>Channel Morphology:</b> Mark the predominate condition(s), and indicate the average measurements.	
<input type="checkbox"/> Step-Pool	<input checked="" type="checkbox"/> Pool-Riffle
<input type="checkbox"/> Run	<input type="checkbox"/> Glide
* <input type="checkbox"/> Manipulated Channel (piped, lined, etc.)	
Active Channel Width:	Glide Depth: ~
Riffle Depth: 1"	Step Height:
Pool Depth: 6"	Bank Height (Right Bank): 8"
Run Depth:	Bank Height (Left Bank): 8"

<b>Substrate Composition:</b> Mark approximate percentages for each substrate type observed.					
Silt or Clay X	<input type="checkbox"/> <5%	<input type="checkbox"/> 5-25%	<input type="checkbox"/> 25-50%	<input type="checkbox"/> 50-75%	<input type="checkbox"/> >75%
Sand	<input type="checkbox"/> <5%	<input checked="" type="checkbox"/> 5-25%	<input type="checkbox"/> 25-50%	<input type="checkbox"/> 50-75%	<input type="checkbox"/> >75%
Gravel (0.1-2 inches)	<input checked="" type="checkbox"/> <5%	<input type="checkbox"/> 5-25%	<input type="checkbox"/> 25-50%	<input type="checkbox"/> 50-75%	<input type="checkbox"/> >75%
Cobble (2-10 inches)	<input type="checkbox"/> <5%	<input type="checkbox"/> 5-25%	<input type="checkbox"/> 25-50%	<input checked="" type="checkbox"/> 50-75%	<input type="checkbox"/> >75%
Boulder (>10 inches)	<input type="checkbox"/> <5%	<input checked="" type="checkbox"/> 5-25%	<input type="checkbox"/> 25-50%	<input type="checkbox"/> 50-75%	<input type="checkbox"/> >75%
Bedrock	<input checked="" type="checkbox"/> <5%	<input type="checkbox"/> 5-25%	<input type="checkbox"/> 25-50%	<input type="checkbox"/> 50-75%	<input type="checkbox"/> >75%

<b>Describe Water Conditions:</b> Mark all that apply.		
<input checked="" type="checkbox"/> Clear	<input type="checkbox"/> Stained ("iced tea")	* <input type="checkbox"/> Turbid (muddy / silty)
* <input type="checkbox"/> Green	* <input type="checkbox"/> Rusty-Red	* <input type="checkbox"/> Milky
* <input checked="" type="checkbox"/> Odors	* <input checked="" type="checkbox"/> Other (foam, dyes, chemicals)	

<b>Aquatic Plants in Stream:</b>			
Floating: (e.g. duck weed)	<input type="checkbox"/> Absent	<input checked="" type="checkbox"/> In Spots	* <input type="checkbox"/> Everywhere
Attached: (e.g. water lily)	<input type="checkbox"/> Absent	<input type="checkbox"/> In Spots	* <input type="checkbox"/> Everywhere

<b>Algae in Stream:</b>			
Floating: (e.g. planktonic)	<input type="checkbox"/> Absent	<input type="checkbox"/> In Spots	* <input type="checkbox"/> Everywhere
Attached: (e.g. filamentous)	<input type="checkbox"/> Absent	<input checked="" type="checkbox"/> In Spots	* <input type="checkbox"/> Everywhere

<b>Canopy Cover:</b> Mark approximate percentage of stream covered by tree canopy.			
<input type="checkbox"/> >75% covered	<input checked="" type="checkbox"/> 75-50% covered	<input type="checkbox"/> 50%-25% covered	<input type="checkbox"/> < 25% covered

<b>Area of Concern Worksheets</b> Indicate # and type of sheets completed for this reach assessment
Erosion
Fish Barrier
Storm Water Outfall
Modified Channel
Impacted Buffer
Trash / Debris
Water Conditions

Note: Items marked with an asterisk (\*) indicate a potential area of concern. Please record all relevant information on the appropriate Area of Concern Worksheet(s).

## CT-NRCS Stream Assessment Sheet

### Reach Level Assessment

**Riparian Vegetation:** Characterize the average density of vegetation in the first 35 feet adjacent to the stream for both banks.

	Left Bank	Right Bank	Left Bank	Right Bank	Left Bank	Right Bank
Turf Grass	<input checked="" type="checkbox"/> Low	<input type="checkbox"/> Low	<input type="checkbox"/> Moderate	<input type="checkbox"/> Moderate	<input type="checkbox"/> High	<input type="checkbox"/> High
Grass	<input checked="" type="checkbox"/> Low	<input checked="" type="checkbox"/> Low	<input type="checkbox"/> Moderate	<input type="checkbox"/> Moderate	<input type="checkbox"/> High	<input type="checkbox"/> High
Shrubs	<input type="checkbox"/> Low	<input type="checkbox"/> Low	<input type="checkbox"/> Moderate	<input type="checkbox"/> Moderate	<input type="checkbox"/> High	<input type="checkbox"/> High
Deciduous Trees	<input type="checkbox"/> Low	<input type="checkbox"/> Low	<input type="checkbox"/> Moderate	<input type="checkbox"/> Moderate	<input checked="" type="checkbox"/> High	<input checked="" type="checkbox"/> High
Coniferous Trees	<input type="checkbox"/> Low	<input type="checkbox"/> Low	<input type="checkbox"/> Moderate	<input type="checkbox"/> Moderate	<input type="checkbox"/> High	<input type="checkbox"/> High

**Surrounding Land Use:** Mark the dominate land use(s) for each "zone", if known or observed.

Immediately adjacent to stream		< 1/4 Mile from stream		> 1/4 Mile from stream	
<input type="checkbox"/> Rural Residential	<input type="checkbox"/> Agricultural	<input type="checkbox"/> Rural Residential	<input type="checkbox"/> Agricultural	<input type="checkbox"/> Rural Residential	<input type="checkbox"/> Agricultural
<input checked="" type="checkbox"/> Suburban Residential	<input checked="" type="checkbox"/> Forested	<input checked="" type="checkbox"/> Suburban Residential	<input checked="" type="checkbox"/> Forested	<input checked="" type="checkbox"/> Suburban Residential	<input checked="" type="checkbox"/> Forested
<input type="checkbox"/> Urban Residential	<input checked="" type="checkbox"/> Recreational	<input type="checkbox"/> Urban Residential	<input checked="" type="checkbox"/> Recreational	<input type="checkbox"/> Urban Residential	<input checked="" type="checkbox"/> Recreational
<input type="checkbox"/> Industrial	<input type="checkbox"/> Other	<input type="checkbox"/> Industrial	<input type="checkbox"/> Other	<input type="checkbox"/> Industrial	<input type="checkbox"/> Other
<input type="checkbox"/> Commercial		<input type="checkbox"/> Commercial		<input type="checkbox"/> Commercial	

**Areas of Concern Checklist:** Marking "Yes" to any of the following questions indicates that an Area of Concern Worksheet should be filled out for the appropriate concern. For each occurrence observed, complete and area of concern sheet.

Is there evidence of either stream bank erosion or streambed instability within the reach?	<input type="checkbox"/> Yes	<input type="checkbox"/> No
Are there any dams or any other possible natural or artificial barriers to fish migration?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
Are there any storm water outfalls, discharge pipes or discharges within the reach? Indicate the number observed: _____	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
Is there any portion of the channel that has been modified (not culvert) (channeled, piped, rip rap)?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
Is there any portion of the reach where the riparian buffer has been compromised or is nonexistent?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Is there any portion of the reach that contains trash or other debris (cars, appliances, construction waste)?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Is there any portion of the reach that has a change in water conditions?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No

**Notes:** Use the space provided to record important observations otherwise not captured on the Reach Assessment Sheet or the Areas of Concern Worksheets.

• ENTIRE REACH IS MODIFIED BY CULVERTS  
 • HIGH DECOMPOSING ORGANIC MATTER  
 • SOME UNUSUAL ALGAE  
 • MANY DRIED OUT STRETCHES / MUDDY

**CT - NRCS  
Stream Assessment Worksheet**

Fish Barrier

Survey Basin Code:	Date: 7/23/15
Name of Stream: WILMOT	Assessed By: AB RE
Reach Code: WLBSA	
Designated Stream Type:	
Site ID:	

**Make All Observations Facing *Downstream***

**Location of Barrier:** Mark and label the location of the barrier on the map and provide a brief description of the location of the barrier relative to roads or other landmarks.

MULTIPLE, THROUGHOUT REACH

**Type of Barrier:** Mark the type of fish barrier.

<input type="checkbox"/> Dam	<input checked="" type="checkbox"/> Culverts	<input type="checkbox"/> Velocity Barrier	<input checked="" type="checkbox"/> Other WOODY DEBRIS BLOCKAGE
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**Dam Data:** Provide all relevant data.

Height of Dam: ft.	Length of Spillway: ft.	Shape of Spillway: <input type="checkbox"/> Straight <input type="checkbox"/> Crescent
Materials: <input type="checkbox"/> Stone <input type="checkbox"/> Concrete <input type="checkbox"/> Stone & Concrete <input type="checkbox"/> Timber-Crib <input type="checkbox"/> Other		
Is there other infrastructure associated with the Dam? <input type="checkbox"/> No <input type="checkbox"/> Yes (If yes mark the type below)		
<input type="checkbox"/> Factory <input type="checkbox"/> Hydro Facility <input type="checkbox"/> Mill <input type="checkbox"/> Residence <input type="checkbox"/> Other		

**Culvert Data:** Provide all relevant data.

Type of Culvert: <input type="checkbox"/> Box <input checked="" type="checkbox"/> Pipe <input type="checkbox"/> Pipe-Arch <input type="checkbox"/> Arch
Culvert Material: <input checked="" type="checkbox"/> Concrete <input checked="" type="checkbox"/> Corrugated Metal <input checked="" type="checkbox"/> Plastic <input type="checkbox"/> Stone
Culvert Outlet: <input checked="" type="checkbox"/> Perched:..... ft. <input type="checkbox"/> Ramped <input checked="" type="checkbox"/> Submerged
Culvert Size: Diameter: 1-2 ft. Height: 2-5 ft. Width: 5-8 ft.
# of Culverts: Culvert Length: ft.

**Velocity Barrier Data:** Provide all relevant data.

Nature of Barrier: <input type="checkbox"/> Grade Control Sill <input type="checkbox"/> Concrete Apron <input type="checkbox"/> Channel Cross-Section <input type="checkbox"/> Other
Length of Barrier: ft. Approx. Vertical Rise: ft.

**Notes:** Use the space provided to record important observations otherwise not captured on this sheet.

- LACK OF WATER IN AREAS NEAR CULVERTS MADE IT DIFFICULT TO KNOW IF THE CULVERTS WOULD BE PERMANENT BARRIERS.  
 PRIMARY CAUSE OF FISHBARRIERS DUE TO ABSENCE OF WATER THROUGH MANY STRETCHES OF REACH  
 - WOODY DEBRIS FORMED NATURAL FISH BARRIERS

## CT - NRCS Stream Assessment Worksheet

Storm Water Outfall

Survey Basin Code:	Date: 7/23/15
Name of Stream: WILMOT Brook	Assessed By: AB RE
Reach Code: WL R5A	
Designated Stream Type:	
Site ID:	

**Make All Observations Facing *Downstream***

**Location of Outfall:**  Right Bank  Left Bank Mark and label the location of the outfall on the map and provide a brief description of the location of the outfall relative to roads or other landmarks.

1 - off large culvert - 2 ft diameter (street) - concrete  
2 - house drainage (gutters)

Outfall Type:	<input checked="" type="checkbox"/> Pipe	<input type="checkbox"/> Leak Off	<input type="checkbox"/> Channel	
Flow:	<input checked="" type="checkbox"/> None 2 small	<input checked="" type="checkbox"/> Trickle (Large or)	<input type="checkbox"/> Moderate	<input type="checkbox"/> Substantial
Odor:	<input checked="" type="checkbox"/> None	<input type="checkbox"/> Sewage	<input type="checkbox"/> Rancid / Sour	<input type="checkbox"/> Sulfur (rotten eggs)
Deposits / Stains	<input checked="" type="checkbox"/> None	<input type="checkbox"/> Sediment Delta	<input type="checkbox"/> Oily Stain	<input type="checkbox"/> Black
Benthic Growth	<input checked="" type="checkbox"/> None	<input type="checkbox"/> Brown	<input type="checkbox"/> Green	<input type="checkbox"/> Orange

**Pipe Data: Provide all relevant data.**

Pipe Material:	<input checked="" type="checkbox"/> Concrete	<input type="checkbox"/> Corrugated Metal	<input checked="" type="checkbox"/> Plastic	<input type="checkbox"/> Other
Contributing Source(s):	<input checked="" type="checkbox"/> Road	<input type="checkbox"/> Parking Lot	<input checked="" type="checkbox"/> Other	<input type="checkbox"/> Unknown
Pipe Outlet:	<input checked="" type="checkbox"/> Perched..... ft.	<input type="checkbox"/> Ramped	<input checked="" type="checkbox"/> At Stream Level	
Pipe Size:	Diameter: 2 ft.			
# of Pipes:	<input type="checkbox"/> 1	<input type="checkbox"/> 2	<input checked="" type="checkbox"/> 3 +	

**Leak-Off Data: Provide all relevant data.**

Leak-Off Swale:	<input type="checkbox"/> Concrete	<input type="checkbox"/> Asphalt	<input type="checkbox"/> Stone	<input type="checkbox"/> Earthen
Contributing Source (s):	<input type="checkbox"/> Road	<input type="checkbox"/> Parking Lot	<input type="checkbox"/> Recreational Field	<input type="checkbox"/> Other
Length of Swale: ft.				
Width of Swale: ft.				

**Channel Data: Provide all relevant data.**

Channel Material:	<input type="checkbox"/> Concrete	<input type="checkbox"/> Asphalt	<input type="checkbox"/> Stone	<input type="checkbox"/> Earthen
Contributing Source (s):	<input type="checkbox"/> Road	<input type="checkbox"/> Parking Lot	<input type="checkbox"/> Recreational Field	<input type="checkbox"/> Other <input type="checkbox"/> Unknown
Channel Length: ft.				
Channel Width: ft.				

**Notes:** Use the space provided to record important observations otherwise not captures on this sheet.

**CT - NRCS  
Stream Assessment Worksheet**

Modified Channel

Survey Basin Code:	Date: 7/23/15
Name of Stream: WILMOT	Assessed By: AB RE
Reach Code: WLBSA	
Designated Stream Type:	
Site ID:	

**Make All Observations Facing *Downstream***

**Location / Extent of Modified Channel:** Mark and label the location of the modified channel on the map and provide a brief description of the location of the channel section relative to roads or other landmarks.

END OF REACH. AND MULTIPLE TIMES THROUGHOUT REACH

**Mark where channel modification occurs:**

Meander Bend     Straight Section     Steep Slope/Valley Wall     Other

Estimate length of channel modification: 400 ft.

Estimate height of bank modification: 5 ft.

<b>Type of Manipulation:</b>	<input checked="" type="checkbox"/> Channelization	<input type="checkbox"/> Bank Armoring	<input type="checkbox"/> Concrete Channel	<input type="checkbox"/> Other	
<b>Extent of Manipulation:</b>	<input checked="" type="checkbox"/> Right Bank	<input checked="" type="checkbox"/> Left Bank	<input checked="" type="checkbox"/> Channel Bottom		
<b>Channel / Bank Materials:</b>	<input checked="" type="checkbox"/> Natural	<input checked="" type="checkbox"/> Rip Rap	<input type="checkbox"/> Concrete	<input type="checkbox"/> Gabions	<input type="checkbox"/> Metal

**Immediately Adjacent Land Use:** Mark the land use(s) immediately adjacent to the modified section.

Rural Residential     Urban Residential     Commercial     Forested  
 Suburban Residential     Industrial     Agricultural     Recreational

**Existing Width of Riparian Vegetation:** Mark the average width of riparian vegetation to the modified section.

< 15 ft.     15 - 35 ft.     35 - 50 ft.     50 - 100 ft.     > 100 ft

Is there a change in the average width of the active channel?     Yes / Estimate Width: 7 ft     No

Is there evidence of sediment deposition in the channel?     Yes     No

Is the channel connected to a floodplain?     Yes     No

**Notes:** Use the space provided to record important observations otherwise not captures on this sheet.

CHANNEL IS MODIFIED AFTER CULVERT. GOES FROM SMALL TRICKLE TO COMPLETELY DRY  
 CULVERTS RE-ROUTE STREAM UNDER GOLF COURSE

**CT - NRCS  
Stream Assessment Worksheet**

**Visual Water Conditions /  
Excessive Plant or Algae Growth**

Survey Basin Code:	Date: 7/23/15
Name of Stream: WILMOT BROOK	Assessed By: AB RE
Reach Code: WLBSA	
Designated Stream Type:	
Site ID:	

**Make All Observations Facing Downstream**

**Location / Extent of Visual Water Conditions and/or Excessive Plant or Algae Growth:** 1) Mark and label the location on the map. 2) Briefly describe the location of the site relative to roads or other landmarks.

SMALL FOOT PATH 10 FT FROM 400 HILL ST - CULVERT - LARGE POOL

**Immediately Adjacent Land Use:** Mark the land use(s) immediately adjacent to the modified section.

<input type="checkbox"/> Rural Residential	<input type="checkbox"/> Urban Residential	<input type="checkbox"/> Commercial	<input checked="" type="checkbox"/> Forested
<input checked="" type="checkbox"/> Suburban Residential	<input type="checkbox"/> Industrial	<input type="checkbox"/> Agricultural	<input checked="" type="checkbox"/> Recreational

**Describe Water Conditions:** Mark all that apply.

<input checked="" type="checkbox"/> Clear	<input type="checkbox"/> Stained ("iced tea")	<input type="checkbox"/> Turbid (muddy / silty)	<input checked="" type="checkbox"/> Odors
<input type="checkbox"/> Green	<input checked="" type="checkbox"/> Rusty-Red	<input type="checkbox"/> Milky	<input checked="" type="checkbox"/> Other (foam, dyes, chemicals)

**Canopy Cover:** Mark approximate percentage of stream covered by tree canopy.

<input type="checkbox"/> >75% covered	<input checked="" type="checkbox"/> 75-50% covered	<input type="checkbox"/> 50%-25% covered	<input type="checkbox"/> < 25% covered
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**Aquatic Plants in Stream:**

Floating: (e.g. duck weed)	<input checked="" type="checkbox"/> Absent	<input type="checkbox"/> In Spots	<input type="checkbox"/> Everywhere
Attached: (e.g. water lily)	<input checked="" type="checkbox"/> Absent	<input type="checkbox"/> In Spots	<input type="checkbox"/> Everywhere

**Algae in Stream:**

Floating: (e.g. planktonic)	<input type="checkbox"/> Absent	<input type="checkbox"/> In Spots	<input type="checkbox"/> Everywhere
Attached: (e.g. filamentous)	<input type="checkbox"/> Absent	<input type="checkbox"/> In Spots	<input type="checkbox"/> Everywhere

Is the change in water condition or excessive plant / algae growth located at or directly below a storm water outfall?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Is the change in water conditions or excessive plant / algae growth associated with a change in channel dimensions (depth & width)?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
Is the change in water conditions or excessive plant / algae growth associated with an impoundment / dam on the stream?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No

**Notes:** Use the space provided to record important observations otherwise not captures on this sheet.

REFER TO PHOTOS. SOME STRANGE ALGAL GROWTH? NOT SURE.