

AGENDA

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

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.



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	
	WIB3	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



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	

West River Watershed Stream Assessment Reaches (continued)

Reach Level Assessment

Survey Basin Cod	e.			Date(s):]
Name of Stream	~.			Assessed Rv		
Reach Code:				Assessed by.		
Designated Stream	ı Tyne:					
Designated Stream		Maka All Oba	arvations	Facing Downst	troam	
Was the entire rea	ch of stream s	where $A = 0.05$		No. Which section	n(s) were not surveyed? Why?	
was the entire rea	ch of stream s			NO, WINCH SECHO	in(s) were not surveyed? wily?	
Channel Mornho	Jogy • Mark th	e predominate o	ondition(s) a	and indicate the avera	age measurements	
□ Step-Pool	□ Pool-Riffle			e * Manipu	lated Channel (piped, lined, etc.)	
Active Channel W	idth:			Glide Depth:		
Riffle Depth:				Step Height:		
Pool Depth:				Bank Height (Ri	ight Bank):	
Run Depth:				Bank Height (Le	eft Bank):	
]
Substrate Compo	sition: Mark	approximate per	centages for	each substrate type of	observed.	
Silt or Clay	□ <5%	□ 5-25%	□ 25-50%	6 □ 50-75%	□ >75%	
Sand	□ <5%	□ 5-25%	□ 25-50%	6 □ 50-75%	□ >75%	
Gravel (0.1-2 inches	s) $\Box < 5\%$	□ 5-25%	□ 25-50%	6 □ 50-75%	□ >75%	
Cobble (2-10 inches) □ <5%	□ 5-25%	□ 25-50%	6 50-75%	□ >75%	
Boulder (>10 inches	s) $\Box < 5\%$	□ 5-25%	□ 25-50%	6 □ 50-75%	□ >75%	
Bedrock	□ <5%	□ 5-25%	□ 25-50%	6 50-75%	□ >75%	
Describe Water (Conditions:	Mark all that and	lv		Area of Concorn Works	nonte
\Box Clear \Box S	Stained ("iced	tea")	*□ Tur	bid (muddy / silty)	Indicate # and type of shee	ieets
* Green *	Rusty-Red	icu)	×□ Mil	kv	completed for this reach assess	ment
$*\Box$ Odors $*\Box$	Other (foam, d	ves, chemicals)			Erosion	
	0 unor (rouni, u	<i>jes</i> , <i>enemeals)</i>			Fish Barrier	
Aquatic Plants in	Stream:				Storm Water Outfall	
Floating: (e.g. duck	weed)	bsent 🗆 In	Spots	*□ Everywhere	Modified Channel	
Attached: (e.g. wate	er lily) $\Box A$	bsent 🛛 In	Spots	*□ Everywhere	Impacted Buffer	
Algaa in Straam.					Trash / Debris	
Floating: (e.g. plank	$(tonic) \square A$	bsent 🛛 In	Spots	* T Everywhere	Water Conditions	
Attached: (e.g. filar	(1) (1) (1) (1) (1) (1) (1) (1) (1) (1) (1)	$rac{1}{1}$	Spots	* Everywhere		
7 machea. (c.g. Illa			opois			
Canopy Cover: 1	Mark approxima	te percentage of	stream cover	red by tree canopy.		
$\square >75\%$ covered	□ 75-50%	covered \Box	50%-25%	covered $\square < 2$	25% covered	
Note: Items n	narked with a	n asterick (*)	indicate a t	notential area of a	concern Please record all relevant	
TYOLE. ILEIIIS II	informe	(-)	nuicate a p	Area of Concern	Worksheet(s)	
	monik	anon on the ap	Propriate		······································	

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	□ Low	Low	□ Moderate	□ Moderate	🗖 High	🗖 High	
Grass	□ Low	Low	□ Moderate	□ Moderate	🗖 High	🗖 High	
Shrubs	□ Low	Low	□ Moderate	□ Moderate	🗖 High	🗖 High	
Deciduous Trees	□ Low	□ Low	□ Moderate	□ Moderate	🗖 High	🗖 High	
Coniferous Trees	□ Low	□ Low	□ Moderate	□ Moderate	🗖 High	🗖 High	

Surrounding Land Use: Mark the dominate land use(s) for each "zone", if known or observed.							
Immediately adjace	ent to stream	< ¹ / ₄ Mile from strea	am	> ¹ /4 Mile from stream			
Rural Residential	□ Agricultural	Rural Residential	□ Agricultural	Rural Residential	□ Agricultural		
□ Suburban	□ Forested	Suburban	□ Forested	□ Suburban	□ Forested		
Residential		Residential		Residential			
Urban Residential	□ Recreational	Urban Residential	Recreational	Urban Residential	□ Recreational		
□ Industrial	□ Other	□ Industrial	□ Other	Industrial	□ Other		
Commercial		Commercial		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?	□ Yes	🗆 No			
Are there any dams or any other possible natural or artificial barriers to fish migration?	□ Yes	🗆 No			
Are there any storm water outfalls, discharge pipes or discharges within the reach? Indicate	□ Yes	🗆 No			
the number observed:					
Is there any portion of the channel that has been modified (not culvert) (channeled, piped, rip	□ Yes	□ No			
rap)?					
Is there any portion of the reach where the riparian buffer has been compromised or is	□ Yes	🗆 No			
nonexistent?					
Is there any portion of the reach that contains trash or other debris (cars, appliances, construction	□ Yes	🗆 No			
waste)?					
Is there any portion of the reach that has a change in water conditions?	□ Yes	□ No			

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

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	□ Low	Low	□ Moderate	□ Moderate	🗖 High	🗖 High	
Grass	□ Low	Low	□ Moderate	□ Moderate	🗖 High	🗖 High	
Shrubs	□ Low	□ Low	□ Moderate	□ Moderate	🗖 High	🗖 High	
Deciduous Trees	□ Low	Low	□ Moderate	□ Moderate	□ High	🗖 High	
Coniferous Trees	□ Low	Low	□ Moderate	□ Moderate	□ High	□ High	

Surrounding Land Use: Mark the dominate land use(s) for each "zone", if known or observed.							
Immediately adjace	ent to stream	< ¹ / ₄ Mile from strea	am	> ¹ /4 Mile from stream			
Rural Residential	□ Agricultural	Rural Residential	□ Agricultural	Rural Residential	□ Agricultural		
□ Suburban	□ Forested	Suburban	□ Forested	□ Suburban	□ Forested		
Residential		Residential		Residential			
Urban Residential	□ Recreational	Urban Residential	Recreational	Urban Residential	□ Recreational		
Industrial	□ Other	□ Industrial	□ Other	□ Industrial	□ Other		
Commercial		Commercial		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?	L Yes	L NO
Are there any dams or any other possible natural or artificial barriers to fish migration?	□ Yes	🗆 No
Are there any storm water outfalls, discharge pipes or discharges within the reach? Indicate	□ Yes	🗆 No
the number observed:		
Is there any portion of the channel that has been modified (not culvert) (channeled, piped, rip	□ Yes	🗆 No
rap)?		
Is there any portion of the reach where the riparian buffer has been compromised or is	□ Yes	🗆 No
nonexistent?		
Is there any portion of the reach that contains trash or other debris (cars, appliances, construction	□ Yes	🗆 No
waste)?		
Is there any portion of the reach that has a change in water conditions?	□ Yes	□ No

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

Visual Water Conditions / Excessive Plant or Algae Growth

Survey Basin Code:			Date:				
Name of Stream:			Assesse	ed By:			
Reach Code:							
Designated Stream Type:							
Site ID:				-			
	Mak	e All Observatio	ons Facing	Downstrea	m		1
on the <u>map</u> . 2) Briefly describe th	he location o	f the site relative t	o roads or o	ant or Alga	rks.	rk and label the	elocation
Immediately Adjacent Land U	Use: Mark	the land use(s) in	nmediatel	y adjacent to	o the modified sec	tion.	
□ Rural Residential Ⅰ	🗖 Urban Re	esidential	Com	mercial	□ For	ested	
□ Suburban Residential Ⅰ	🗆 Industria	1	🗖 Agri	cultural	□ Rec	reational	
Describe Water Conditions: 1 \Box Clear \Box Stained ("iced \Box Green \Box Rusty-Red \Box Green \Box Rusty-Red \Box 75% covered \Box 75-50% Δ quatic Plants in Stream:Floating: (e.g. duck weed) \Box Attached: (e.g. water lily) \Box Algae in Stream:Floating: (e.g. planktonic) \Box Attached: (e.g. \Box filamentous) \Box	Mark all tha tea") [mate percer % covered] Absent] Absent] Absent] Absent	at apply. Turbid (mudd) Milky Intage of stream c 50%-25% In Spots In Spots In Spots In Spots In Spots	y / silty) overed by covered Every Every Every Every	□ Odors □ Other (1 tree canopy □ < 259 where where where where	foam, dyes, chemi 7 % covered	cals)	
Is the change in water condition storm water outfall?	n or excessiv	ve plant / algae g	growth loc	ated at or di	rectly below a	□ Yes	□ No
Is the change in water condition channel dimensions (depth & w	ns or excess vidth)?	ive plant / algae	growth as	sociated wit	h a change in	□ Yes	□ No
Is the change in water condition / dam on the stream?	Is the change in water conditions or excessive plant / algae growth associated with an impoundment / Yes / dam on the stream?					D No	
Notes: Use the space provided	to record in	nportant observat	tions other	wise not ca	ptures on this shee	et.	
					<u> </u>		

Trash / Debris

Survey Basin Code:		Date:		
Name of Stream:		Assessed	By:	
Reach Code:				
Designated Stream T	ype:			
Site ID:				
	Make All C	Observations Facing $Data$	ownstream	
Location / Extent of	Trash or Debris: Ma	rk and label the location of	the trash or debris on the n	ap and provide a brief
description of the location	relative to roads or other	landmarks.		
UV:thin Stream	Dimension A		Dicht Donly	
			Right Dank	
Туре:	□ Residential	Commercial	□ Industrial	
Material:	□ Plastic	□ Tires	□ Appliances	□ Other

Material:	□ Plastic	□ Tires	□ Appliances	□ Other
	□ Paper	□ Metal	□ Automotive	
	□ Yard Waste	□ Construction	□ Medical	
Source:	Unknown	□ Flooding	□ Illegal Dumping	Local Outfall
Land Ownership:	□ Private	Public	Unknown	

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

Degraded Buffer

Survey Basin C	Code:				Date:					
Name of Stream	m:				Assessed	By:				
Reach Code:						y				
Designated Str	eam Type	e:								
Site ID:										
		Maka		orvatio	ns Facing D	own str	am			
Location / Ext	ant of D	Iviane A						- <u>CC</u>		2) Duiteffer
describe the locati	ion of the s	ite relative to roa	ds or oth	lark and er landm	label the locatio	n of the de	graded bi	iffer on the <u>n</u>	<u>1ap</u> . 4	2) Briefly
Mault whom t	ha daana	dad huffan aa								
Mark where t	ne degra	ded builter oc	t Sooti		Steen Sle	no/Vollo	w Woll		aar	
	ina		i seci	on	Estimate lar	pe/valle	y wall	huffor	f	4
\Box Left Bank					Estimate len	igin of de	graded	buller:	1	ι. γ
L Right Bank					Estimate ler	igth of de	graded	buffer:	I	t.
Type of Degra	dation:									
Left Bank:			nal Veg	retation	□ Minima	al Width	🗆 🗆 Ir	vasive Pla	nts	□ Other
Right Bank:			al Ves	retation		al Width		vasive Pla	nts	\Box Other
Tight Dumit	-									
Dominate	Paved	Bare Ground	Turf	/	Tall Grass	Scrub /	Shrub	Trees		Other
Land Cover			Law	n						
Left Bank										
Right Bank		_								
						Ľ				
						Ľ	<u> </u>			
Immediately A	⊔ Adjacent	Land Use: M	ark the	and use(s) immediately a	adjacent to	the modi	fied section.		
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Immediately A Left Bank: Right Bank: Existing Widt Left Bank: Right Bank: Notes: Use the	Adjacent Rura Subu Rura Subu Nof Ripa Adjacent Subu Contemporation Contem	Land Use: M I Residential Irban Residential I Residential I Residential I Residential I S ft. I I S ft. I ovided to reco	ark the fark the far	and use(Urb Indu Urb Indu Indu ark the av 35 ft. 35 ft. ortant o	s) immediately a ban Residentia ustrial ban Residentia ustrial verage width of n 25 – 5 2 35 – 5 bservations o	adjacent to al \Box A al \Box A al \Box A riparian veg 0 ft. 0 ft. therwise	the modi commercial co	fied section. cial ural cial ural o the modifie - 100 ft - 100 ft tures on thi	d sect	□ Forested Recreational Forested Recreational ion. > 100 ft > 100 ft
Immediately A Left Bank: Right Bank: Existing Widt Left Bank: Right Bank: Notes: Use the	Adjacent CRUTA CRU	Land Use: M I Residential Irban Residential I Residential Irban Residential Irban Residential I S ft. I 15 ft. I ovided to reco	ark the al al a al a al a 15 – 15 – rd imp	□ land use(□ Urb □ Indu □ Urb □ Indu ark the av 35 ft. 35 ft. ortant o	s) immediately a ban Residentia ustrial ban Residentia ustrial verage width of r 0 35 - 5 0 35 - 5 bservations o	adjacent to al C Al C Al C C C C C C C C C C C C C C C C C C C	the modi commerce gricultu commerce gricultu getation to 50 – 50 – 50 – not capt	fied section. cial ural cial ural o the modifie - 100 ft - 100 ft tures on thi	d sect	Forested Recreational Forested Recreational ion. > 100 ft > 100 ft eet.
Immediately A Left Bank: Right Bank: Existing Widt Left Bank: Right Bank: Notes: Use the	Adjacent Rura Rura Subu Rura Subu Adjacent Subu Comparison Rura Subu Comparison Rupa Comparison Rupa Comparison Rupa Comparison Rupa Comparison Rupa Comparison Rupa Rupa Rupa Rupa Rupa Rupa Rupa Rupa	Land Use: M I Residential Irban Residential Irban Residential Irban Residential Irban Residential I fither the second I fither	ark the al al ion: Ma 15 – 15 – rd imp	and use(Urb Indu Urb Indu ark the av 35 ft. 35 ft. ortant o	s) immediately a ban Residentia ustrial ban Residentia ustrial verage width of n 25 - 5 2 35 - 5 bservations o	adjacent to al Al Al Al Al Al Al Al Al Al A	the modi commercial gricultu commercial gricultu getation to 50 – 50 – not capt	fied section. cial ural cial ural o the modifie - 100 ft - 100 ft tures on thi	d sect	□ Forested Recreational Forested Recreational ion. > 100 ft > 100 ft > 100 ft
Immediately A Left Bank: Right Bank: Existing Widt Left Bank: Right Bank: Notes: Use the	Adjacent Rura Subu Rura Subu h of Ripa C	Land Use: M I Residential Irban Residential I Residential I Residential I Residential I Residential I S ft. I 15 ft. I ovided to record	ark the al al al 15 − 15 − rd imp	and use(Urb Indu Urb Indu ark the av 35 ft. 35 ft. ortant o	s) immediately a ban Residentia ustrial ban Residentia ustrial verage width of n 2 35 - 5 2 35 - 5 bservations o	adjacent to al Al riparian veg 0 ft. 0 ft. therwise	the modi commerci gricultu gricultu getation to 50 – 50 – not capt	fied section. cial ural cial ural o the modifie - 100 ft - 100 ft tures on thi	d sect	Forested Recreational Forested Recreational ion. > 100 ft > 100 ft

Erosion Assessment

Survey Basin Co	de:				Date:				
Name of Stream:					Assessed	By:			
Reach Code:									
Designated Strea	m Type:								
Site ID:									
		Mak	e All Obs	servations	Facing <i>Do</i>	wnstred	am		
Location of Ban site relative to roads	k Erosion or other land	: 1) Mark dmarks.	and label t	the location	of the erosion	on the <u>map</u>	9. 2) Brie	fly descr	ibe the location of the
Mark where ero	sion is oc	curring:							
□ Meander Bend	1	🗆 Strai	ght Section	on	□ Steep S	Slope/Vall	ey Wall		Other
C:4. D:	- T 1' / 1				. 1 .1 .1	• •			
Site Dimensions	Indicate al	l applicabl	e measurer	Dight Do	ated with the e	erosion site	ft		
Lengui: Bonk Hoight:	Left Dall	X. z•	ft	Right Da	nlz:		IL.		
Bank Angle:	Left Dall	X. z•	dag	Right Da	nlz:	h	11.		
Dalik Aligie.	Lett Dall	Δ.	ueg.	Rigin Da	ПК.	u	eg.		
What is the prop	ximity of (the erosi	on site to	o infrastru	cture (e.g. r	oad, bridge,	building	, etc.) ?	
□ < 15 ft.	15 - 3	80 ft	□ 30 -	45 ft	$\Box 45 - 60$) ft 🛛 🛛	60 - 1	00 ft	$\Box > 100 \text{ ft.}$
Immediately Ad Rural Residen Suburban Res	jacent La tial idential	nd Use:	Mark the in Reside strial	land use(s) in ntial	nmediately ad Commo Agricu	djacent to th ercial ltural	e erosion	site. For Rec	ested creational
Land Ownershi	n• Mark lan	downershi	in at the lo	cation of the	arosion site				
D Public	D • IVIALK TAIL	u Ownersin	\square Priv	ate	crosion site.	Г	T Unkn	own	
				ute		-		0.011	
Existing Width	of Riparia	n Veget	ation: Ma	ark the avera	ge width of ri	parian veget	tation at t	the erosic	on site.
\Box < 15 ft.		5 – 35 ft.		$\Box 35 - 50$) II.	□ 50 – J	100 ft		1 > 100 ft
Notes: Use the spa	ce provided	to record in	mportant o	bservations (otherwise not	captured on	this shee	et.	

Fish Barrier

Survey Basin Code:	Date:
Name of Stream:	Assessed By:
Reach Code:	
Designated Stream Type:	
Site ID:	
Make All Observation	ns Facing Downstroam
Location of Barrier: Mark and label the location of the barr	ier on the man and provide a brief description of the location of
the barrier relative to roads or other landmarks.	ter on the map and provide a orier description of the location of
Type of Barrier: Mark the type of fish barrier	
$\square Dam \qquad \square Culvert$	\Box Velocity Barrier \Box Other
Dam Data: Provide all relevant data	
Height of Dam: ft Length of Spillway: ft	Shape of Spillway: Straight Crescent
Materials: \square Stone \square Concrete \square St	one & Concrete \Box Timber-Crib \Box Other
Is there other infrastructure associated with the Day	\mathbf{m} ? \square No \square Yes (If yes mark the type below)
\Box Factory \Box Hydro Facility \Box Mill	$\square \text{ Residence} \qquad \square \text{ Other}$
Culvert Data: Provide all relevant data.	
Type of Culvert: \Box Box \Box Pipe	□ Pipe-Arch □ Arch
Culvert Material:	gated Metal Plastic Stone
Culvert Outlet: \Box Perched:ft.	□ Ramped □ Submerged
Culvert Size: Diameter: ft.	Height: ft. Width: ft.
# of Culverts: Culvert Length: ft.	
VI. 4 D. C. D. C. D. H. H. H. L. L.	
Velocity Barrier Data: Provide all relevant data.	ante Annon D Channel Cases Section D Other
Nature of Barrier:	Crete Apron L Channel Cross-Section L Other
Length of Barrier: It. Approx. vertica	I KISE: It.
Notes: Use the space provided to record important observed to record impor	ervations otherwise not captured on this sheet.
Notes: Use the space provided to record important observed to record impor	ervations otherwise not captured on this sheet.
Notes: Use the space provided to record important observed to record impor	ervations otherwise not captured on this sheet.
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Notes: Use the space provided to record important observations of the space provided to record	ervations otherwise not captured on this sheet.
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Notes: Use the space provided to record important observations of the space provided to record to record important observations of the space provided to record t	ervations otherwise not captured on this sheet.

Modified Channel

Survey Basin Code:	Date:
Name of Stream:	Assessed By:
Reach Code:	
Designated Stream Type:	
Site ID:	
Make All Observatio	ons Facing <i>Downstream</i>
Location / Extent of Modified Channel: Mark and la	abel 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: f	t.
Estimate height of bank modification: f	ìt.
Type of Manipulation:	Bank Armoring Concrete Channel Other
Extent of Manipulation:	Left Bank L Channel Bottom
Channel / Bank Materials: L Natural L R	$\Box Rap \square Concrete \square Gabions \square Metal$
Immediately Adjacent Land Use: Mark the land use	(s) immediately adjacent to the modified section
\square Rural Residential \square Urban Residential	Commercial
\Box Suburban Residential \Box Industrial	$\square Agricultural \square Recreational$
Existing Width of Riparian Vegetation: Mark the av	verage width of riparian vegetation to the modified section.
\Box < 15 ft. \Box 15 – 35 ft. \Box 35 –	- 50 ft. \Box 50 - 100 ft \Box > 100 ft
Is there a change in the average width of the active c	\Box Yes / Estimate Width: ft \Box No
Is there evidence of sediment deposition in the chan	$\frac{1}{1} = \frac{1}{1} + \frac{1}{1} = \frac{1}{1} + \frac{1}$
Is the channel connected to a floodplain?	\Box Yes \Box No
Notes: Use the space provided to record important o	bservations otherwise not captures on this sheet.

Storm Water Outfall

Survey Basin Code:				Date:					
Name of Stream:				Assessed	By:				
Reach Code:									
Designated Stream Ty	pe:								
Site ID:									
		Make All (Observations	s Facing <i>I</i>	Down	nstream			
Location of Outfall: A Right Bank Left Bank Mark and label the location of the outfall on the map and provide a						the map and provide a			
brief description of the location of the outfall relative to roads or other landmarks.									
Outfall Type:	D Pi	ре	Leak Of	ff		Channel			
Flow:	\square No	one	□ Trickle			Moderate		Substantial	
Odor:	\square No	one	□ Sewage			Rancid / Sour		□ Sulfur (rotten eggs)	
Deposits / Stains	□ None		□ Sediment Delta			□ Oily Stain □		Black	
Benthic Growth	\square No	one	□ Brown		□ Green □			□ Orange	
Pipe Data: Provide al	l relev	vant data.							
Pipe Material:		Concrete	Corrugated Meta		l 🛛 Plastic			□ Other	
Contributing Source	(s):	□ Road	🛛 Parking	g Lot	□ Other		ΠU	🗆 Unknown	
Pipe Outlet:		□ Perched	ft.	🗆 Ramp	bed [ПΑ	At Stream Level	
Pipe Size:		Diameter:	ft.						
# of Pipes:		\Box 1		□ 2			□3	3 +	
Leak-Off Data: Prov	ide all	relevant data.							
Leak-Off Swale:		Concrete	□ Asphalt			Stone		□ Earthen	
Contributing Source	(s):	□ Road	□ Parking	Lot		Recreational F	Field	□ Other	
Length of Swale:	ft.								
Width of Swale:	ft.								
Channel Data: Provid	de all	relevant data.							
Channel Material:		Concrete	□ Asphalt			Stone		Earthen	
Contributing Source	(s):	□ Road □	Parking Lo	ot $\Box R$	ecre	ational Field		Other Unknown	
Channel Length:	ft.								
Channel Width:	ft.								

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

Completed Stream Assessment Forms Un-named Tributary ALW





8 SPRING ST. TO 46 SPRING ST.

Reach Level Assessment

Survey Rasin	Code						ate(s).	20	0	20 0
Name of Stre	Name of Stream: UNAIAm(D) TIGAR					Assessed Py: 24 25				
Reach Code		t and t	er <u>neu</u>)			sseased by.	BM	KE	
Designated S	tream T	vpe:								
2 00.8		<u>, , , , , , , , , , , , , , , , , , , </u>	Make A	11 Obse	rvations	For	ing Downst	roav	и	
Was the entir	e reach	ofstre	am curveve	12 DS		No	Which section		lara not	cumuavad2 Whu2
was ne chu						140	, when seend.	II(3) M		suiveyeu? why?
Channel Mo	rpholog	y: Ma	ark the predom	inate cor	ndition(s).	and	indicate the avera	age me	asuremen	nts.
□ Step-Pool		Pool-F	Riffle 🛛	Run	[전] Glid	e	* Manipu	lated	Channe	(piped, lined, etc.)
Active Chan	nel Widt	h:	5 ++			G	lide Depth: c	; ÷ .	F+	
Riffle Depth:						S	tep Height:		. :	
Pool Depth:						B	ank Height (R	ight B	ank):	0
Run Depth:						B	ank Height (Le	eft Ba	nk):	0
					-	· ·	<u> </u>			
Substrate Co	omposit	ion:	Mark approxin	nate perce	entages for	ead	ch substrate type o	observe	ed.	1
Silt or Clay	-	□<5	% EF 5-2	5%	25-50	%	□ 50-75%		75%	
Sand		□ <5	% 🗆 5-2	5%	□ 25-50	%	x 50-75%		75%	
Gravel (0.1-2	inches)	₫ <5	% 🗆 5-2	5%		%	□ 50-75%		75%	
Cobble (2-10	inches)	□⊲	% 🗆 5-2	5%	□ 25-50	%	□ 50-75%		75%	
Boulder (>10	inches)	□ <5	% 🗆 5-2	5%	□ 25-50	%	□ 50-75%		75%	
Bedrock	1	□<5	% 🗆 5-2	5%	□ 25-50	%	□ 50-75%		75%	
Describe Wa	ater Cor	ditio	ns• Mark all :	that apply	v			1	1	
Clear	K Stai	ned ("	iced tea")	inai appr	<u>y.</u> │ ∗⊡ ⊤u	rhi/	(muddu / eiltu)		Area	of Concern Worksheets
* Green		istv-R	ed			Ikv	(indudy / sity)		comp	leted for this reach assessment
*⊠ Odors	*[]0t	her (fo	am dves cher	nicale)		in y				Broston
		(10			<u> </u>			J		Fish Barrier
Aquatic Plan	nts in St	tream	•						Stor	n Water Ouffall
Floating: (e.g	. duck we	ed)	Absent	🗍 In 🗄	Spots	*[] Everywhere		M	odified Channel
Attached: (e.g	g. water li	ly)	🖾 Absent	🗆 In 🛙	Spots	*[] Everywhere		1	mpacted Buffer
Aless to Ot										Trash / Debris
Algae in Str	eam:				Smata I	*	1		W	ater Conditions
rioaung: (e.g	. plankton	IIC)	Absent		Spots	<u></u> _	Lverywhere			and the state
Attached: (e.	g. filamen	tous)	म्ध्र Absent		Spots	۴L	L Everywhere	1		
Canopy Cov	er: Mar	k annro	ximate percer	tage of s	tream cov	ered	by tree canony			1
□ >75% cov	ered	3 75-5	0% covered		50%-25%	0 00	vered $\mathbb{K} < 2$	5% c	overed	None
				1						1
Note: Ite	ems mar	ked w	ith an asteris	sk (*) in the app	ndicate a	poi Ar	tential area of o ea of Concern	Work	m. Plea	ase record all relevant

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	RightBank	Left Bank	Right Bank	Left Bank	Right Bank		
Turf Grass	Low [Low	☐ Moderate	☐ Moderate	□High	🗆 High		
Grass	Low	Low [☐ Moderate	☐ Moderate	High	垣 High		
Shrubs	Low	Low	□ Moderate	□ Moderate	□High	🗆 High		
Deciduous Trees	□ Low	Low	☐ Moderate	☐ Moderate	🗆 High	🗆 High		
Coniferous Trees	Low	Low	□ Moderate	□ Moderate	□High	🗆 High		

Surrounding L	and Use:	Mark the dominate land use(s) for each "	zone", if known or observed
---------------	----------	--	-----------------------------

Surrounding Lan	d Use: Mark the	dominate land use(s) for	each "zone", if kno	wn or observed.		
Immediately adjacent to stream		< 1/4 Mile from stre	am	> ¼ Mile from stream		
DRural Residential	Agricultural	Rural Residential	Agricultural	Rural Residential	Agricultural	
Suburban Residential	Forested	Suburban Residential	Forested	Suburban Residential	D Forested	
Urban Residential	DiRecreational	Urban Residential	Recreational	Urban Residential	Recreational	
D Industrial	Other 0	Industrial	C Other	Elindustrial	Other O	
Commercial		E Commercial		E Commercial		

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? I Yes No Are there any dams or any other possible natural or artificial barriers to fish migration? I Yes No Are there any storm water outfalls, discharge pipes or discharges within the reach? Indicate I Yes No Are there any portion of the channel that has been modified (not culvert) (channeled, piped, rip I Yes No Is there any portion of the reach where the riparian buffer has been compromised or is nonexistent? I Yes No Is there any portion of the reach that contains trash or other debris (cars, appliances, construction waste)? I Yes No Is there any portion of the reach that has a change in water conditions? I Yes No	Areas of Concern Checklist: Marking "Yes" to any of the following questions indicates that an Area of	Concern W	orksheet	
Is there evidence of either stream bank erosion or streambed instability within the reach? □ Yes 2 No Are there any dams or any other possible natural or artificial barriers to fish migration? 2 Yes □ No Are there any storm water outfalls, discharge pipes or discharges within the reach? Indicate □ Yes □ No the number observed:	should be filled out for the appropriate concern. For each occurrence observed, complete and area of concern sh	neet,		
Are there any dams or any other possible natural or artificial barriers to fish migration? Image: Yes Image: No Are there any storm water outfalls, discharge pipes or discharges within the reach? Indicate the number observed: Image: Yes Image: No Is there any portion of the channel that has been modified (not culvert) (channeled, piped, rip Image: Yes Image: No Is there any portion of the reach where the riparian buffer has been compromised or is nonexistent? Image: Yes Image: No Is there any portion of the reach that contains trash or other debris (cars, appliances, construction waste)? Image: Yes Image: No Is there any portion of the reach that has a change in water conditions? Image: Yes Image: No	Is there evidence of either stream bank erosion or streambed instability within the reach?	Yes	🖾 No	
Are there any storm water outfalls, discharge pipes or discharges within the reach? Indicate Image: Second Sec	Are there any dams or any other possible natural or artificial barriers to fish migration?	[]Yes	🗆 No	
the number observed: . Image: Contract of the channel that has been modified (not culvert) (channeled, piped, rip rap)? Image: Contract of the channel that has been modified (not culvert) (channeled, piped, rip rap)? Is there any portion of the reach where the riparian buffer has been compromised or is nonexistent? Image: Contract of the reach that contains trash or other debris (cars, appliances, construction waste)? Image: Contract of the reach that has a change in water conditions? Image: Contract of the reach that has a change in water conditions? Image: Contract of the reach that has a change in water conditions?	Are there any storm water outfalls, discharge pipes or discharges within the reach? Indicate	I Yes	D No	10
Is there any portion of the channel that has been modified (not culvert) (channeled, piped, rip rap)? Is there any portion of the reach where the riparian buffer has been compromised or is nonexistent? Is there any portion of the reach that contains trash or other debris (cars, appliances, construction waste)? Is there any portion of the reach that has a change in water conditions?	the number observed:	1		
rap)? Is there any portion of the reach where the riparian buffer has been compromised or is nonexistent? Is there any portion of the reach that contains trash or other debris (cars, appliances, construction waste)? Is there any portion of the reach that has a change in water conditions? Is there any portion of the reach that has a change in water conditions? Is there any portion of the reach that has a change in water conditions?	Is there any portion of the channel that has been modified (not culvert) (channeled, piped, rip	T Yes	🗆 No	1
Is there any portion of the reach where the riparian buffer has been compromised or is nonexistent? Is there any portion of the reach that contains trash or other debris (cars, appliances, construction waste)? Is there any portion of the reach that has a change in water conditions? If Yes No	rap)?			
nonexistent? Is there any portion of the reach that contains trash or other debris (cars, appliances, construction waste)? Is there any portion of the reach that has a change in water conditions? Is there any portion of the reach that has a change in water conditions?	Is there any portion of the reach where the riparian buffer has been compromised or is	E Yes	□ No	RI
Is there any portion of the reach that contains trash or other debris (cars, appliances, construction waste)? Is there any portion of the reach that has a change in water conditions?	nonexistent?			1
waste)? Is there any portion of the reach that has a change in water conditions? I Yes 区 No	Is there any portion of the reach that contains trash or other debris (cars, appliances, construction	[]Yes	🗆 No	1
Is there any portion of the reach that has a change in water conditions?	waste)?			1
	Is there any portion of the reach that has a change in water conditions?	I Yes	No No	1

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

5. 5

-1V R Modified Channel

Survey Basin Code:		Date:	1/28		
Name of Stream: ALW-1		Assessed By	: BH RE		
Reach Code: UNNAMED			~		
Designated Stream Type:			_		
Site ID:					
M	lake All Observations	Facing Down	nstream	800 1100	
Location / Extent of Modified C brief description of the location of the c	Channel: Mark and label hannel section relative to r	the location of the oads or other land	e modified chann Imarks.	el on the <u>ma</u>	p and provide a
ENTINE STRETCH	LINCERY MOU				
Mark where channel modificat	ion occurs:	······································			
□ Meander Bend	raight Section	□ Steep Slop	e/Valley Wall	Othe	er
Estimate length of channel mod	lification: ft.	0,284			
Estimate height of bank modifi	cation: ft.				
The Charles I at the				<u></u>	
Type of Manipulation:	nannelization 🗆 Ba	nk Armoring		Channel	
Extent of Manipulation: E R	Light Bank Le	tt Bank		Bottom	
Channel / Bank Materials:	Natural LI Rip	Rap L Con	crete G	abions	🛛 🗆 Metal
Immediately Adjacent Land Us	e: Mark the land use(s) it	mmediately adiac	ent to the modifie	d section	
\square Rural Residential \square \square	rhan Residential	A Commerce		Di Foreste	
Suburban Residential	dustrial	E Commerce	<u>al</u>		tional
	uusului		ai		lional
Existing Width of Riparian Veg	setation: Mark the avera	ge width of ripari	an vegetation to t	he modified :	section.
$\leq 15 \text{ ft.}$ $\Box 15-35$	ft. 🛛 35 – 50) ft. 📉 🗌 🗆	50 – 100 ft		100 ft RIV
is there a change in the average w	vidth of the active chai	nnel?	Yes / Estimate	Width:	<u>유 씨 No</u>
is there evidence of sediment dep	osition in the channel		Yes		2 No
is the channel connected to a floo	dplain?		Yes		□ No
Notes: Use the space provided to	record important obse	muntions other	wice not centu	ton on this	
Totes. Use the space provided to	record important obse	a valions offer	wise not captu	les on uns	sneet.
All and a shift	VISISCE 7	DEALTE ?	NNA VO	6674710-	l
NO ARMORING	/ (-				

Trash / Debris

Survey Basin Code:		Date:	7-28	
Name of Stream:	52	Assesse	d By: SH P	έ
Reach Code:	ALW.1			
Designated Stream	Гуре:			
Site ID:				
	Make All	Observations Facing L)ownstream	
Location / Extent of description of the location Ti-1/K 6	f Trash or Debris: Non relative to roads or oth	Mark and label the location of er landmarks.	of the trash or debris on the	map and provide a brief
🛛 Within Stream	🖉 Riparian A	Area: 🗖 Left Bank 🛛 🖗	A Right Bank	
·				
Туре:	🛛 🛛 Residential	Commercial	🗖 Industrial	
Material	L APlastic	Tiras	17 Appliances	D Other

Material:	Plastic	Tires	Appliances	□ Other
	X Paper	Metal	Automotive	
	□ Yard Waste	Construction	Medical	
Source:	🛛 Unknown	Flooding	Illegal Dumping	Local Outfall
Land Ownership:	Private	Public	Unknown	

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

Developed By: CT-NRCS January 2008

Fish Barrier

Survey Basin Code:		Data: 7	.0			
Name of Stream: At Jar	- 1	Assessed Due	20	01		
Reach Code:		Assessed by.	D //	NE		
Designated Stream Type:						
Site ID:						<u> </u>
Site ID.	Make All Observation	E Facing Down	actronw			
Location of Barrier: Mar	k and label the location of the barr	ier on the man an	d provide a bri		en efele la cat	
the barrier relative to roads or of	ther landmarks.	ier on the <u>map</u> an	a provide a pri-	et descripti	on of the location	1 01
Type of Barrier: Mark the	type of fish barrier.	<u>.</u>				
🗖 Dam	Culvert	U Velocity B	larrier	D Oth	er	
				1		
Dam Data: Provide all relev	ant data.			-		
Height of Dam: ft. L	ength of Spillway: ft.	Shape of Spill	lway: 🗆 Str	aight [Crescent	
Materials: Stone	Concrete Sto	one & Concrete	e 🛛 🗆 Tim	ber-Crib	□ Other	
Is there other infrastruct	ure associated with the Dat	n? 🗆 No 🗆	l Yes (If yes n	nark the typ	pe below)	
□ Factory □ F	lydro Facility 🛛 🖾 Mill		Residence] Other	
Gulvert Data: Provide all re	levent dete					1000
Type of Culvert:			D Pine Arc	h	- Arch	
Culvert Material:		rated Metal	Plastic	.11		
Culvert Outlet:	\square Perched: ft.				merged	
Culvert Size:	Diameter: ft.	Height:	ft	Width		ft
# of Culverts:	Culvert Length: ft.				•	11.
			* - 0**			
Velocity Barrier Data: Pr	rovide all relevant data.					
Nature of Barrier:	Grade Control Sill LI Con	crete Apron		Cross-Se	$ction \square O$	ther
Length of Barrier:	ft. Approx. Vertica	I Rise:	ft.			
Notes: Use the space provi	ided to record important obse	muntions other	uica not ee-	hand and		
Hotes. Ose the space provi	ided to record important obse	ervations other	wise not cap	urea on	inis sneet.	
	a warte		A -4			
VNUNCUN-	(ULVERU J	PUPPERG	ED -	-		
2 1	N REACH					

Degraded Buffer

Survey Basin (Code:			Date:	7-2,8			
Name of Stream	m: Au	,w -1		Assessed	By: 131		26	
Reach Code:					<u></u>			
Designated Str	eam Type:							
Site ID:								
1 mm		Make A	Il Observatio	ns Facing Do	ownstrea	am		
Location / Ext describe the locat	tent of Deg	graded Buffer relative to road	r: 1) Mark and s or other landm	label the locatio larks.	n of the degr	aded bi	iffer on the <u>m</u>	ap. 2) Briefly
Mark where t	he degrad	ed buffer occ	urs.	(
⊔ Meander Be	end	🙀 Straight	Section	☐ Steep Slo	pe/Valley	Wall		ner
Left Bank		r		Estimate len	gth of deg	raded	buffer:	ft.
Mr. Right Bank				Estimate len	gth of deg	raded	buffer: 0.2	8 T. Miles
Type of Degra	dation:							
Left Bank:			al Vegetation	🔲 Minima	l Width	X Ir	vasive Pla	nts D Other
Right Bank:		🗌 🗆 Minima	al Vegetation	Minima	l Width	S tlr	vasive Plan	nts 🛛 Other
Dominate Land Cover	Paved B	are Ground	Turf/ Lawn	Tall Grass	Scrub / Sł	nrub	Trees	Other
Left Bank				381				
Right Bank				NZ				
Right Bank				x X				
Right Bank Immediately A	Adjacent L	Dand Use: Ma	Ink the land use	s) immediately a	adjacent to th	e modi	fied section.	
Right Bank Immediately A Left Bank:	Adjacent L	Land Use: Ma Residential	Interfection of the second sec	s) immediately a ban Residentia	adjacent to th	e modi mmero	fied section.	Forested
Right Bank Immediately A Left Bank: Right Bank:	Adjacent L	Land Use: Ma Residential Dan Residential	irk the land use(s) immediately a pan Residentia ustrial	adjacent to th	e modi mmero ricultu	fied section.	Forested Recreational
Right Bank Immediately A Left Bank: Right Bank:	Adjacent L Rural I Suburt Rural I Rural I	Land Use: Ma Residential Dan Residential Residential	Int the land use(s) immediately a ban Residentia ustrial ban Residentia	adjacent to th al Con Ag al -EFCon	e modi mmero ricultu mmero	fied section. cial tral	Forested Recreational
Right Bank Immediately A Left Bank: Right Bank:	Adjacent L Rural I Suburt Rural I Suburt Suburt	Land Use: Ma Residential Dan Residential Residential Dan Residentia	Ind use Urk the land use Urk I Ind Urk	s) immediately a pan Residentia ustrial pan Residentia ustrial	adjacent to the al Control Con	e modi mmero ricultu mmero ricultu	fied section. cial ural cial ural	Forested Recreational Forested Recreational
Right Bank Immediately A Left Bank: Right Bank: Existing Widt	Adjacent L Rural I Suburt Rural I Rural I Suburt	Land Use: Ma Residential pan Residentia Residential pan Residentia tian Vegetatio	Ind Ind Ind Ind Ind Ind Ind Ind Ind Ind	s) immediately a ban Residentia ustrial ban Residentia ustrial verage width of r	adjacent to th al Con Al Ag al - Ag Al - Ag	e modi mmero ricultu mmero ricultu tation to	fied section. cial rral cial rral	Forested Recreational Forested Recreational
Right Bank Immediately A Left Bank: Right Bank: Existing Widt Left Bank:	Adjacent L Rural I Suburt Rural I Suburt Suburt h of Ripar	Land Use: Ma Residential Dan Residentia Residential Dan Residentia Dan Residentia Dan Vegetatio	Ind Int the land use(Urb I Urb I Urb I See Ind I See Ind I See Ind I See Ind	s) immediately a pan Residentia ustrial pan Residentia ustrial /erage width of r	adjacent to the al Cor Al Ag al -EFCor al Ag iparian vegen 0 ft.	e modi mmerc ricultu mmerc ricultu tation to 3 50 –	fied section. cial ural cial iral othe modified	Forested Forested Forested Recreational Recreational section. Section.
Right Bank Immediately A Left Bank: Right Bank: Existing Widt Left Bank: Right Bank:	Adjacent L □ Rural I □ Suburt □ Rural I □ Suburt ↓ of Ripar □ < 15 ↓ ∅ < 15	Image: Constraint of the second se	Image: wide wide wide wide wide wide wide wide	s) immediately a ban Residentia ustrial ban Residentia ustrial verage width of r 25 - 5 25 - 5	adjacent to th al Con Al Con Al -E2-Con D Ag iparian veget 0 ft. C	e modi mmero ricultu mmero ricultu tation to 50 –	fied section. cial ural cial ural o the modified 100 ft	Forested Recreational Forested Recreational Recreational Section. Section. Section. Section ft D > 100 ft
Right Bank Immediately A Left Bank: Right Bank: Existing Widt Left Bank: Right Bank: Notes: Use the	Adjacent L Rural I Suburt Rural I Suburt Suburt h of Ripar Adjacent L Suburt 1 Suburt 1 Suburt	Image: Constraint of the second se	Image: state of the state	s) immediately a pan Residentia ustrial pan Residentia ustrial /erage width of r 0 35 - 5 0 35 - 5 bservations o	adjacent to th al Con adjacent to th al Con al Con	e modi mmero ricultu mmero ricultu tation to 50 – 50 –	fied section. cial ural cial oral o the modified 100 ft 100 ft	Forested Recreational Forested Recreational Forested Recreational section. X > 100 ft > 100 ft > 100 ft
Right Bank Immediately A Left Bank: Right Bank: Existing Widt Left Bank: Right Bank: Notes: Use the PHRAGE	Adjacent L Rural I Suburt Rural I Rural I Suburt h of Ripar C < 15 Space prov $1 T \in S$	Land Use: Ma Residential Dan Residentia Dan Residential Dan Residentia Dan Reside	Ind III Ind IIIIIIIIII	s) immediately a pan Residentia ustrial pan Residentia ustrial /erage width of r 0 35 - 5 0 35 - 5 bservations o	adjacent to th adjacent to th adjacent to th adjacent to th Contemporation adjacent to the Ag adjacent to the adjacent to th	e modi mmera ricultu mmera ricultu tation ta 50 – 50 – 50 – ot capt	fied section. cial ural cial iral o the modified 100 ft 100 ft ures on this	Forested Provested Recreational Forested Forested Recreational section. M > 100 ft > 100 ft s sheet.

Storm Water Outfall

Survey Basin Code:				Date: 7-08				
Name of Stream:				Assessed	By: KE BI			
Reach Code: AL	<u>N.I</u>							
Designated Stream Ty	Designated Stream Type:							
Site ID:								
		Make All C	Observations	s Facing I	Downstream	100-1		
Location of Outfall: ExRight Bank \Box 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, CATCHE BASIN NEAR ROAD -) -		
		-						
Outfall Type:	💋 Pi	pe	□ Leak Of	f	Channel			
Flow:	N	one	Trickle		Moderate		I Substantial	
Odor:	D N	one	□ Sewage		Rancid / Sour		Sulfur (rotten eggs)	
Deposits / Stains	E N	one	□ Sedimer	nt Delta	Oily Stain		Black	
Benthic Growth		one	Brown	-	Green		□ Orange	
Pipe Data: Provide al	ll rele	vant data.	215 T 2577 T 26					
Pipe Material:		Z-Concrete	Corrug	ated Meta	al 🛛 Plastic		□ Other	
Contributing Source	e(s):	Road	□ Parking Lot		Other [] Unknown	
Pipe Outlet:		Perched	ft. 🛛 Ram		ped 🔰		t Stream Level	
Pipe Size:		Diameter: ?	ft.	-			102	
# of Pipes:		M 1		[] 2	C] 3 +	
Leak-Off Data: Prov	ide al	l relevant data.	il i vers o					
Leak-Off Swale:	9	Concrete	□ Asphalt		□ Stone		Earthen	
Contributing Source	e (s):	Road	□ Parking	Lot	Recreational	Field	□ Other	
Length of Swale:	ft.							
Width of Swale:	ft.							
Channel Data: Provi	de all	relevant data.		- ^W 10-Vici		2.3		
Channel Material:		Concrete	□ Asphalt		□ Stone	_	El Earthen	
Contributing Source	: (s):		Parking Lo	t 🗆 R	ecreational Field		Other Unknown	
Channel Length:	ft.							
Channel Width:	ft.							
Notes: Use the space	provi	ded to record imr	ortant obser	rvations o	therwise not capt	ILES OF	n this sheet	
A TOTON OBO GIO SPACE	PIGVI				uler wise not capt	a 63 0		



46 SPRING ST. TO 750 SPRING ST.

Reach Level Assessment

Survey Basin Code				Det	te(s)· ~	100	1 11.00		
Name of Stream.					sessed Ru	168	4 20 -		
Reach Code: 4	1140			1.733	acaacu Dy.	151	4 165		
Designated Stream	Type:								
	1	Make All Obs	ervations	Faci	ng Downst	rec	am		-1
Was the entire read	1 of stream s	urveved?		No	Which section	n(s)	were not sur	veved? Why?	-
	- or otrouint o				Witten Section	1(3)	, were not sur	veyea. Why:	
OBSCRUED	From	6 L	6 CATION	1 4	•				
	r1227	4 1	NIDOLE,	E	ND				1
-	51.11					-			
Channel Morphole	ogy: Mark the	e predominate c	ondition(s), a	and ir	ndicate the avera	ige n	measurements.		
Step-Pool	Pool-Riffle	Run	🛛 🖾 Glid	e	*□ Manipu	late	ed Channel (p	iped, lined, etc.)	
Active Channel Wi	dth: 10fr			Gli	ide Depth:	Cr.	5		
Riffle Depth:				Ste	p Height:				
Pool Depth:				Ba	nk Height (Ri	ight	: Bank): 6'		
Run Depth:				Ba	nk Height (Le	eft E	Bank): 6		
Substrate Compos	ition: Made	annavimata na	antone for	h	auforente terre e	haa			
Silt or Clay		$\square 5_25\%$	N 25-509	each	$\Box 50.75\%$		rvea.		
Sand	□ <5%	$\Box 5-25\%$	25-50	20 0		吕	>75%		
Gravel (0.1-2 inches)	12 <5%	$\Box 5-25\%$	25-50	<u>/0</u>	[] 50-75%		>75%		
Cobble (2-10 inches)	□ <5%	$\Box 5-25\%$	25-50	%	$\Box 50-75\%$		>75%		
Boulder (>10 inches)	□<5%	□ 5-25%	25-509	%	\Box 50-75%		>75%		
Bedrock	□<5%	□ 5-25%	25-50	%	50-75%		>75%		
						7			
Describe Water Co	onditions: N	Mark all that app	oly.				Area of	Concern Works	heets
LI Clear ZX St	ained ("iced	tea")		rbid	(muddy / silty)	4	Indica	te # and type of shee	ts
* Green * Kork	Lusty-Red			iky			completed	Lioptins reach assess	ment
	Other (foam, d	yes, chemicals)]	1	EFOSION Eich Damion	
Aquatic Plants in	Stream:					1	Storm W	ater Ortfoll	
Floating: (e.g. duck v	veed) 🛛 🔀 A	bsent 🛛 Ir	1 Spots	*□	Everywhere	1	Modif	ied Channel	
Attached: (e.g. water	lily) 🔀 A	bsent 🛛 Ir	1 Spots	*□	Everywhere	1	Impa	acted Buffer	
						-	Ťr	ash / Debris	2
Algae in Stream:	•	1	<u> </u>		F	-	Water	Conditions	
r loating: (e.g. plankt	onic)	bsent U Ir	1 Spots	<u></u>	Everywhere	-	and the second second		
Attached: (e.g. filam)	entous) آصل A		Spots		Everywhere	1			
Canopy Cover: M	ark approxima	te percentage of	stream cove	ered b	by tree canopy.				
$\square > 75\%$ covered	A 75-50%	covered 🛛	50%-25%	cov	ered $\square < 2$.5%	covered		
Note: Items ma	arked with a	n asterisk (*)	indicate a	pote	ential area of c	cond	cern. Please 1	record all relevan	t
	informa	ation on the a	ppropriate	Are	a of Concern	Wo	orksheet(s).		

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 🗙	Low	Low	☐ Moderate	☐ Moderate	🗆 High	□ High				
Grass	Low	Low	Moderate	Moderate	□High	🗆 High				
Shrubs	Low	Low	Moderate	Moderate	High	🗆 Hìgh				
Deciduous Trees	Low	Low	☐ Moderate	☐ Moderate	🗆 High	🗆 High				
Coniferous Trees	Low	Low	☐ Moderate	□ Moderate	DHigh	□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 stre	am	>¼ Mile from stream		
CRural Residential	Agricultural	Rural Residential	Agricultural	Rural Residential	D Agricultural	
Suburban Residential	Forested	Suburban Residential	□ Forested	Suburban Residential	Porested	
Urban Residential	DiRecreational	Urban Residential	C Recreational	Urban Residential	Recreational	
W Industrial	🗆 Other	🖪 Industrial	Other	M Industrial	🗆 Other	
Commercial		Commercial		D Commercial		

Areas of Concern Checklist: Marking "Yes" to any of the following questions indicates that an Area of	Concern W	orksheet							
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?	🗆 Yes	12 No							
Are there any dams or any other possible natural or artificial barriers to fish migration?	A Yes	🗆 No							
Are there any storm water outfalls, discharge pipes or discharges within the reach? Indicate	E Yes	D No							
the number observed: 2.									
Is there any portion of the channel that has been modified (not culvert) (channeled, piped, rip	I Yes	No							
rap)?									
Is there any portion of the reach where the riparian buffer has been compromised or is	I Yes	D No							
nonexistent?									
Is there any portion of the reach that contains trash or other debris (cars, appliances, construction	T Yes	D No							
waste)?									
Is there any portion of the reach that has a change in water conditions?	I Yes	1 No							

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

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£.

Trash / Debris

Survey Basin Code:		Date:	7.28				
Name of Stream:	ALW2	Assessed	By: BU RC				
Reach Code:	• (<u> </u>				
Designated Stream T	vne:						
Site ID:	<u>, , , , , , , , , , , , , , , , , , , </u>						
	Make All Ot	oservations Facing $Data$	ownstream				
Location / Extent of description of the location	Trash or Debris: Mar n relative to roads or other I	k and label the location of andmarks.	the trash or debris on the <u>m</u>	ap and provide a brief			
THR	THROUGHOUT, ESP. AT CULVENT						
K Within Stream	Riparian Are	ea: 🗹 Left Bank 🛛	(Right Bank				
Туре:	E Residential	Commercial	🗖 Industrial				
Material:	R. Plastic	A Tires	Appliances	□ Other			
	🖾 Paper	M etal	Automotive				
	A Yard Waste	Construction	Medical				
Source:	🗖 Unknown	G Flooding	Illegal Dumping	Local Outfall			
Land Ownership:	Private		Unknown				
		·	- 1				
Notes: Use the space	provided to record im	nortant observations o	therwise not cantures of	n this sheet			

Survey Basin	°ode:				Data	7.2	<u>a</u>					
Name of Stree	$\frac{1}{m}$	w - 7			Date:	1° 6	0					
Reach Code:						Бу:	<u>10 10</u>	<u> </u>				
Designated Str	an Tun											
Site ID:	cam ryp							-				
Bite iD.		Maka	All Oh	omistion	Essing D	014110 01	raam					
Landian / En	4	IVIAKE	AILODS	servation	is racing D	JWIISI	reum					
Mark where the degraded buffer occurs.												
We integrated in the section is the stope of the section is the section in the section is the se							er					
E Dielt Bank					Estimate ler	igth of	degraded	buffer: 0,5 a	<u>2 ft.n.</u>			
Right Bank	٢				Estimate ler	igth of	degraded	buffer:	tt.			
Type of Degra	adation:											
Left Bank:							ts 🛛 Other					
Right Bank: I Minimal Vegetation					Z Minima	al Widt	h 🖾 Ii	nvasive Plan	ts 🛛 Other			
							0:1					
Dominate	Faveu	Bale Ground		<u></u>	Tan Grass	Scrub	/ Snrub	Irees	Other			
I and Cover			Law									
Land Cover							<u>61</u> [3]					
Land Cover Left Bank Right Bank												
Land Cover Left Bank Right Bank				Immediately Adjacent Land Use: Mark the land use(s) immediately adjacent to the modified section.								
Land Cover Left Bank Right Bank Immediately	Adjacent	Land Use: N	Aark the	land use(s) immediately	aujacem		neu section.				
Land Cover Left Bank Right Bank Immediately Left Bank:	Adjacent	Land Use: M Residential	Mark the	land use(s) immediately an Residentia	al 🛛	Commer	cial	□ Forested			
Land Cover Left Bank Right Bank Immediately Left Bank:	Adjacent	Land Use: M Residential rban Resident	Mark the	land use(s M Urba Indu) immediately an Residentia Istrial		Commer Agricult	cial aral	□ Forested □ Recreation			
Land Cover Left Bank Right Bank Immediately Left Bank: Right Bank:	Adjacent Rural	Land Use: M Residential rban Residential Residential	Mark the i	and use(s) immediately an Residentia Istrial an Residentia		Commer Agricult	cial cial	☐ Forested ☐ Recreation ☑ Forested			
Land Cover Left Bank Right Bank Immediately Left Bank: Right Bank:	Adjacent Rura Subu Rura Subu Subu	Land Use: M Residential rban Resident Residential rban Resident	Mark the T	and use(s ↓ Urba □ Indu □ Urba ↓ Indu) immediately ; an Residentia Istrial an Residentia Istrial		Commer Agricultu Commer Agricultu	cial ural cial ural	 □ Forested □ Recreation ☑ Forested □ Recreation 			
Land Cover Left Bank Right Bank Immediately Left Bank: Right Bank:	Adjacent Adjacent Rura Bubu Rura Subu Adjacent	Land Use: M Residential rban Residential Residential rban Resident	Mark the tial tial	and use(s Urba Indu Urba Indu) immediately an Residentia Istrial an Residentia Istrial	al al al al al al al al	Commer Agricultu Commer Agricultu	cial ural cial ural	Forested Recreation Forested Recreation Recreation			
Land Cover Left Bank Right Bank Immediately Left Bank: Right Bank: Existing Widt Left Bank:	Adjacent Adjacent Rura Subu Rura Subu Subu Adjacent	Land Use: M Residential rban Resident Residential rban Resident rian Vegetat	Mark the tial tial tial	and use(s Urba Urba Urba Indu Indu Indu ark the ave 35 ft.	i) immediately an Residentian istrial an Residentian istrial erage width of a 35 - 5	al a	Commer Agricultu Commer Agricultu regetation t	cial ural cial ural o the modified - 100 ft	 □ Forested □ Recreation: ☑ Forested □ Recreation: section. □ > 100 ft 			
Land Cover Left Bank Right Bank Immediately Left Bank: Right Bank: Existing Widt Left Bank: Right Bank:	Adjacent Adjacent Rura Bubu Rura Subu Aura Aura Aura Aura Aura Aura Aura Aur	Land Use: M Residential rban Residential rban Residential rban Residential urian Vegetat 15 ft.	Mark the tial tial ti on: Ma 15 – 15 –	And use(s Urba Urba Urba Indu Indu ark the ave 35 ft. 35 ft.	i) immediately i an Residentia Istrial an Residentia Istrial erage width of 1 0 35 - 5 0 35 - 5	al a	Commer Agricultu Commer Agricultu /egetation t 0 50 -	cial ural cial ural o the modified - 100 ft - 100 ft	 □ Forested □ Recreation: □ Forested □ Recreation: section. □ > 100 ft □ > 100 ft 			

Storm Water Outfall

Survey Basin Code:	Date: 7-28
Name of Stream: KLW Z	Assessed By: Re BH
Reach Code:	
Designated Stream Type:	
Site ID:	

Make All Observations Facing Downstream

Location of Outfall: D Right Bank D 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:	D Pi	pe	Leak O	🗖 Leak Off		Channel				
Flow:	D N	one	Trickle		☐ Moderate			□ Substantial		
Odor:	N	one	□ Sewage	□ Sewage		□ Rancid / Sour		□ Sulfur (rotten eggs)		
Deposits / Stains	D N	one	□ Sedime	□ Sediment Delta		□ Oily Stain		□ Black		
Benthic Growth	ΣN	one	Brown			Green		Oran	ze	
Pipe Data: Provide a	a second and	1			and the second	CARRENT				
Pipe Material:		Concrete	Corrug	ated Meta	al 🗌	Plastic			Other	
Contributing Source	e(s):	KRoad	Parking	g Lot		□ Other	ΠU	Inknov	vn	
Pipe Outlet:		Perched	. ft.	🛛 🗆 Ramı	bed		JE A	t Strea	ım Level	
Pipe Size:	Pipe Size:									
# of Pipes:				应2						
Leak-Off Data: Provide all relevant data.										
Leak-Off Swale:		Concrete	□ Asphalt			Stone			rthen	
Contributing Source (s):		Road	D Parking	Lot		Recreational F	ield		her	
Length of Swale:	ft.	•		·		-				
Width of Swale:	ft.									
Channel Data: Provi	ide all	relevant data.								
Channel Material:		Concrete	Asphalt			Stone			urthen	
Contributing Source	e (s):	□ Road [Parking Lo	ot 🛛 🛛 R	lecre	ational Field		Other	Unknown	
Channel Length:	ft.									
Channel Width:	ft.		1							

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



46 SPRING ST TO 270 BOSTON POST RD. WEST HAY

Reach Level Assessment

Sumon Dania Cada					ata(a), ala		10115		
Survey Basin Code		071		Date(s): $7/2g = 10^{-1}s = 11^{-1}s$					
Name of Stream:	Unnan	cd (215		A	ssessed By:	154	RE		
Reach Code: 7	Tuna			+					
Designated Stream	Type:			-					
	M	lake All Ob	servations	Fac	cing DOWNST	ream		10.1111 0	
Was the entire react	n of stream su	rveyed? L	Yes pa	No	, Which section	i(s) we	ere not	surveyed? Why?	
GNLY V	BIBLE AT	STAT	t AT	r	RONT AVE				
n ucli	15 000	ELGROUN	Ъ						
							_		
Channel Mornhol	Denne Manladha			4	1				
Channel Worphon	Dgy: Mark the			, ano de	* Manipu	ge mea	Suremen Shanne	(nined lined etc.)	
Active Channel Wi			lide Depth	ateu t		r (piped, fined, etc.)			
Riffle Depth:			ten Height:		-				
Pool Denth:					Rank Height (Ri	oht Ba	ink):	6.	
Run Depth:				B	Bank Height (Le	ft Bar	k): 0		
Substrate Compos	ition: Mark a	pproximate p	ercentages fo	or ea	ch substrate type o	bserved	<u>.</u>		
Silt or Clay	□ <5%	□ 5-25%	25-5)%	50-75%		75%		
Sand	□ <5%	□ 5-25%	25-5)%	50-75%	_□>;	75%		
Gravel (0.1-2 inches)	E <5%	□ <u>5-25%</u>	□ 25-5)%	□ 50-75%		75%		
Cobble (2-10 inches)	0<5%		25-5)%	□ 50-75%		75%		
Boulder (>10 ineffes)	LI <5%	<u>U 5-25%</u>	25-5	J%	<u>Ц 50-75%</u>		/5%		
Bedrock	L <5%	□ 5-25%	23=31	J%	1 20-75%		15%		
Describe Water C	onditions: M	lark all that a	oply.			Γ	Атея	of Concern Worksheets	
Clear 🛛 🖸 St	ained ("iced t	ea")	* 🗖 T	urbi	d (muddy / silty)		In	dicate # and type of sheets	
* Green * 🗷 I	Rusty-Red		*□ M	lilky	/		comp	eted for this reach assessment	
* Odors * 0 (Other (foam, dy	es, chemicals	5)					Erosion	
A 41 - 101 4- 1	<u> </u>						-	Fish Bauter	
Aquatic Plants in	Stream:		In Conta	*	T Francisco -		Stom	n Water Ontial	
Attached: (e.g. duck)		osent D	In Spots	× [l li	M	odmed Chamel	
Attached. (e.g. water			in opois				E	Trach / Debris	
Algae in Stream:							W	ster Conditions	
Floating: (e.g. plankt	onic) 📴 Al	osent 🛛	In Spots	*	Everywhere		U	and conditions	
Attached: (e.g. filam	entous) 🖾 Al	bsent 🛛 🗖	In Spots	*[D Everywhere				
Canopy Cover: N	lad: approvimate	- norcentada	of stroom on		d by tree conony			1	
R >75% covered		overed I	7 50%-259		$rac{1}{0}$ vered $\Pi < 2$	5% cc	vered	-	
Ind - 1518 covered	<u> </u>		_ 5070-25			570 00	, voicu	1	
Note: Items m	arked with an	asterisk (*) indicate	a po	tential area of o	oncer	n. Plea	se record all relevant	
	information on the appropriate Area of Goncern Worksheet(s).								

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	LeftBank	Right Bank			
Turf Grass	Low	Low	☐ Moderate	☐ Moderate	🗆 High	🗆 High			
Grass	Low	Low	Moderate	Moderate	□ High	🗆 High			
Shrubs	Low	Low	Moderate	Moderate	High High	□ High			
Deciduous Trees	Low	Low Low	☐ Moderate	Moderate	High	🗆 High			
Coniferous Trees	Low Low	Low	D Moderate	D Moderate	High	High			

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

Immediately adjace	ent to stream	< 1/4 Mile from stre	am	> 1/4 Mile from stream			
Rural Residential	D Agricultural	Rural Residential	□ Agricultural	Rural Residential	Agricultural		
🗆 Suburban	D Forested	🗖 Suburban	G Forested	🗆 Süburban	□ Forested		
Residential	A. Lander	Residential		Residential			
Urban Residential	CA Recreational	🛛 Urban Residential	Recreational	Urban Residential	Recreational		
Industrial	D Other		C Other	D Industrial	🗆 Other		
Commercial		Commercial		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?	1 Yes	N No				
Are there any dams or any other possible natural or artificial barriers to fish migration?	🗆 Yes	No No				
Are there any storm water outfalls, discharge pipes or discharges within the reach? Indicate	VYes	D No				
the number observed:						
Is there any portion of the channel that has been modified (not culvert) (channeled, piped, rip	I Yes	D No				
rap)?						
Is there any portion of the reach where the riparian buffer has been compromised or is	Yes	D No				
nonexistent?						
Is there any portion of the reach that contains trash or other debris (cars, appliances, construction	D Yes	D No				
waste)?						
Is there any portion of the reach that has a change in water conditions?	D Yes	D No				

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

Modified Channel

Name of Stream: ∧LW - ? Assessed By: BH PC Reach Code: Designated Stream Type: Site ID: Site ID: 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 problem of the location of the channel section relative to roads or other landmarks. ONC Steen the location of the channel section relative to roads or other landmarks. ONC Feechen gleng Perhal lot one feechen gleng Steep Slope/Valley Wall Other Estimate length of channel modification: /o ft. Estimate height of bank modification: ft. Type of Manipulation: Channelization Ø Bank Armoring Concrete Channel OC Extent of Manipulation: Right Bank Ø Concrete Gabions Me Channel / Bank Materials: Natural Rip Rap Concrete Gabions Me Immediately Adjacent Land Use: Mark the land use(s) immediately adjacent to the modified section. Me Recreational Existing Width of Riparian Vegetation: Mark the average width of riparian vegetation to the modified section. Sto – 100 ft > 100 ft Is there a cha		Date:	7.28		
Reach Code:	Name of Stream: ALW - 3	Assessed	By: BH R	e	
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 probried description of the location of the channel section relative to roads or other landmarks. orde Feech alegy forkey lat conc block y' x 2' x 2' Mark where channel modification occurs: □ Mark where channel modification occurs: □ Straight Section □ Steep Slope/Valley Wall □ Other Estimate length of channel modification: / o 0 ft. Estimate height of bank modification: / ft. Type of Manipulation: □ Channelization Bank Armoring □ Concrete Channel □ C Extent of Manipulation: □ Right Bank Defet Bank □ Channel Bottom □ Channel / Bank Materials: □ Natural □ Rip Rap Z Concrete Gabions □ Immediately Adjacent Land Use: Mark the land use(s) immediately adjacent to the modified section. □ Recreational Immediately Adjacent Land Use: Mark the average width of riparian vegetation to the modified section.	Reach Code:				
Make All Observations Facing Downstream Location / Extent of Modified Channel: Mark and label the location of the modified channel on the map and probrief description of the location of the channel section relative to roads or other landmarks. owe Secha alay forking lat Gane black y'x z'xz' Mark where channel modification occurs: Gane black y'x z'xz' Mark where channel modification: 10° ft. Estimate length of channel modification: 1° ft. Type of Manipulation: Channelization 1° ft. Type of Manipulation: Channelization 1° ft. Channel / Bank Materials: Natural Rip Rap Concrete Immediately Adjacent Land Use: Mark the land use(s) immediately adjacent to the modified section. 1° Forested Suburban Residential Urban Residential 1° Commercial 1° Forested Suburban Residential 15 ft. 15 ft. 15 ft. 10 ft Is there a change in the average width of the active channel? Yes 100 ft 100 ft Is there evidence of sediment deposition in the channel? Yes 100 ft 100 ft	Designated Stream Type:				
Make All Observations Facing Downstream Location / Extent of Modified Channel: Mark and label the location of the modified channel on the map and probrief description of the location of the channel section relative to roads or other landmarks. orde Feeching along forking for	Site ID:				
Mark An Observations Pacing Downstream Mark and label the location of the modified channel on the mag and probrief description of the location of the channel section relative to roads or other landmarks. ONC Section Mark where channel modification occurs: Meander Bend Straight Section Estimate length of channel modification: ft. Estimate height of bank modification: ft. Type of Manipulation: Channelization Right Bank Extent of Manipulation: Ghat Channel / Bank Materials: Natural Rip Rap Immediately Adjacent Land Use: Mark the land use(s) immediately adjacent to the modified section. Rural Residential Urban Residential Gomercial Forested Suburban Residential Ibran Urban Residential So – 100 ft > 100 ft Is there a change in the average width of the active channel? Yes Si Notes: Yes Notes: Use the space provided to record important observations otherwise not captures on this sheet.	Make All Obs	ametiana Fasing D	ownstraam		
Mark where channel modification occurs: Meander Bend Straight Section Steep Slope/Valley Wall Other Estimate length of channel modification: \[] 0 0 ft. Estimate length of channel modification: \[] ft. Type of Manipulation: \[] Channelization \[] Bank Armoring Concrete Channel \[] 0 Concrete Channel Concrete Channel O Extent of Manipulation: Channelization Right Bank Pateft Bank Concrete Channel Bottom Channel / Bank Materials: O Natural Rip Rap Concrete Gabions Me Immediately Adjacent Land Use: Mark the land use(s) immediately adjacent to the modified section. Rural Residential Urban Residential Urban Residential Urban Residential Urban Residential Suburban Residential Profested Suburban Residential Suburban Residential Suburban Residential Suburban Residential Subere a change in the average width of the active	Location / Extent of Modified Channel: Ma brief description of the location of the channel section ONC Fection along Parking	rk and label the location relative to roads or other $\int d^{3} d^{$	of the modified chann r landmarks. black 4 × 2	el on the <u>map</u> a	nd provide a
□ Meander Bend ☑ Straight Section □ Steep Slope/Valley Wall □ Other Estimate length of channel modification: / o 0 ft. Estimate height of bank modification: / ft. Type of Manipulation: □ Channelization Ø Bank Armoring □ Concrete Channel □ C Extent of Manipulation: □ Right Bank ☑ Left Bank □ Channel Bottom □ C Channel / Bank Materials: □ Natural □ Rip Rap Ø Concrete □ Gabions □ Me Immediately Adjacent Land Use: Mark the land use(s) immediately adjacent to the modified section. □ Rural Residential □ Urban Residential □ Commercial □ Forested □ Suburban Residential □ Urban Residential □ Agricultural □ Recreational Existing Width of Riparian Vegetation: Mark the average width of riparian vegetation to the modified section. □ 15 - 35 ft. □ 35 - 50 ft. □ 50 - 100 ft □ > 100 ft Is there a change in the average width of the active channel? □ Yes ☑ N Is there evidence of sediment deposition in the channel? □ Yes ☑ N Is the channel connected to a floodplain? □ Yes ☑ N Notes: Use the space provided to record important observations otherwise not captures on this	Mark where channel modification occurs:				
Estimate length of channel modification: /o 0 ft. Estimate height of bank modification: // ft. Type of Manipulation: □ Channelization /@ Bank Armoring □ Concrete Channel □ C Extent of Manipulation: □ Right Bank /@ Left Bank □ Channel Bottom □ Channel / Bank Materials: □ Natural □ Rip Rap /@ Concrete □ Gabions □ Me Immediately Adjacent Land Use: Mark the land use(s) immediately adjacent to the modified section. □ Rural Residential □ Urban Residential /@ Commercial □ Forested □ Suburban Residential □ Urban Residential /@ Commercial □ Recreational Existing Width of Riparian Vegetation: Mark the average width of riparian vegetation to the modified section. Is there a change in the average width of the active channel? □ Yes / Estimate Width: ft Im N Is there evidence of sediment deposition in the channel? □ Yes Im N Notes: Use the space provided to record important observations otherwise not captures on this sheet.	Meander Bend Straight Section	on 🛛 Steep	Slope/Valley Wall	Other	
Estimate height of bank modification: ft. Type of Manipulation: Channelization Bank Armoring Concrete Channel Concrete Channel Extent of Manipulation: Right Bank Eleft Bank Concrete Concrete Channel Concrete Concrete Gabions Me Channel / Bank Materials: Natural Rip Rap Concrete Gabions Me Immediately Adjacent Land Use: Mark the land use(s) immediately adjacent to the modified section. Me Rural Residential Urban Residential Gommercial Forested Suburban Residential Midth of Riparian Vegetation: Mark the average width of riparian vegetation to the modified section. St construct 15 - 35 ft. 35 - 50 ft. 50 - 100 ft Is there a change in the average width of the active channel? Yes Subth: ft Is the channel connected to a floodplain? Yes	Estimate length of channel modification:	/00 ft.			
Type of Manipulation: \Box Channelization \blacksquare Bank Armoring \Box Concrete Channel \Box CExtent of Manipulation: \Box Right Bank \blacksquare Left Bank \Box Channel BottomChannel / Bank Materials: \Box Natural \Box Rip Rap \blacksquare Concrete \Box Gabions \Box MeImmediately Adjacent Land Use:Mark the land use(s) immediately adjacent to the modified section. \Box MeImmediately Adjacent Land Use:Mark the land use(s) immediately adjacent to the modified section. \Box Rural Residential \Box Urban Residential \blacksquare Commercial \Box Forested \Box Suburban Residential \blacksquare Industrial \Box Agricultural \Box RecreationalExisting Width of Riparian Vegetation: Mark the average width of riparian vegetation to the modified section. \blacksquare 50 – 100 ft \ge 100 ftIs there a change in the average width of the active channel? \Box Yes \blacksquare NIs there evidence of sediment deposition in the channel? \Box Yes \blacksquare NIs the channel connected to a floodplain? \Box Yes \blacksquare NNotes:Use the space provided to record important observations otherwise not captures on this sheet.	Estimate height of bank modification:	பு ft.			
Type of Manipulation: Indentization Image Bank Armoring Indentization Image Concrete Channel Image Concrete Channel<	Type of Manipulation:			01	
Channel / Bank Materials: Image: Natural Rip Rap Concrete Gabions Me Immediately Adjacent Land Use: Mark the land use(s) immediately adjacent to the modified section. Rural Residential Immediately Adjacent Land Use: Mark the land use(s) immediately adjacent to the modified section. Suburban Residential Immediately Adjacent Land Use: Mark the land use(s) immediately adjacent to the modified section. Suburban Residential Immediately Adjacent Land Use: Mark the land use(s) immediately adjacent to the modified section. Existing Width of Riparian Vegetation: Mark the average width of riparian vegetation to the modified section. Mark Immediately Adjacent Use: Mark the average width of riparian vegetation to the modified section. Mark Immediately Adjacent Use: Mark the average width of riparian vegetation to the modified section. Mark Immediately Adjacent Use: Mark the average width of riparian vegetation to the modified section. Mark Immediately Adjacent Use: Immediately Adjacent Use: Immediately Adjacent Use: Is there a change in the average width of the active channel? Immediately Yes Immediately Adjacent Use: Is the channel connected to a floodplain? Immediately Adjacent Use: Immediately Adjacent Use:	Extent of Manipulation:	DI ABANK Armor		Channel	L Other
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. Is there a change in the average width of the active channel? Section for the section in the channel? Yes / Estimate Width: Is there evidence of sediment deposition in the channel? Yes Image: Section for the section for the section for the section for the composition of the channel for the composition of the channel for the section for the composition of the channel for the section of the section of the composition of the channel for the composition of the channel for the composition of the channel for the composition of the comp	Channel / Bank Materials			Bottom	
Immediately Adjacent Land Use: Mark the land use(s) immediately adjacent to the modified section. \Box Rural Residential \Box Urban Residential \Box Commercial \Box Forested \Box Suburban Residential \square Industrial \Box Agricultural \Box RecreationalExisting Width of Riparian Vegetation: Mark the average width of riparian vegetation to the modified section. $\blacksquare < 15 \text{ ft.}$ $\Box 15 - 35 \text{ ft.}$ $\Box 35 - 50 \text{ ft.}$ $\Box 50 - 100 \text{ ft}$ $\Box > 100 \text{ ft}$ Is there a change in the average width of the active channel?Yes / Estimate Width: ftIs there evidence of sediment deposition in the channel?YesIs the channel connected to a floodplain?YesNotes: Use the space provided to record important observations otherwise not captures on this sheet.	Channel / Dank Materials: Li Natural		Concrete $\Box G$	abions L	_ Metal
□ 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. □ Social Structural □ Recreational Existing Width of Riparian Vegetation: Mark the average width of riparian vegetation to the modified section. □ Social Structural □ Recreational Existing Width of Riparian Vegetation: Mark the average width of riparian vegetation to the modified section. □ Social Structural □ Recreational Existing Width of Riparian Vegetation: Mark the average width of riparian vegetation to the modified section. □ Social Structural □ Recreational Existing Width of Riparian Vegetation: Mark the average width of riparian vegetation to the modified section. □ Social Structural □ Recreational Existing Width of Riparian Vegetation: Mark the average width of the active channel? □ Social Structural □ Social Structural Is there a change in the average width of the active channel? □ Yes □ Notes: □ Notes: Is the channel connected to a floodplain? □ Yes □ Notes: □ Notes: Notes: Use the space provided to record important observations otherwise not captures on this sheet. □ Social Structural Structural	Immediately Adjacent Land Use: Mark the I	and use(s) immediately	adjacent to the modifie	d section	<u> </u>
□ Suburban Residential □ Industrial □ Agricultural □ Recreational Existing Width of Riparian Vegetation: Mark the average width of riparian vegetation to the modified section. □ □ 15 minimized for the modified section. □ 15 - 35 ft. □ 15 - 35 ft. □ 35 - 50 ft. □ 50 - 100 ft □ > 100 ft □ s there a change in the average width of the active channel? □ Yes / Estimate Width: ft □ N □ s there evidence of sediment deposition in the channel? □ Yes □ N □ s the channel connected to a floodplain? □ Yes □ N Notes: Use the space provided to record important observations otherwise not captures on this sheet. □	Rural Residential Urban Resider	ntial 🔏 Comr	nercial	Forested	
Existing Width of Riparian Vegetation: Mark the average width of riparian vegetation to the modified section. $M < 15$ ft. $\Box 15 - 35$ ft. $\Box 35 - 50$ ft. $\Box 50 - 100$ ft $\Box > 100$ ft Is there a change in the average width of the active channel? \Box Yes / Estimate Width: ft \blacksquare Notes: Use the space provided to record important observations otherwise not captures on this sheet.	Suburban Residential		ultural	Recreation	nal
Existing Width of Riparian Vegetation: Mark the average width of riparian vegetation to the modified section. $M < 15 \text{ ft.}$ $\Box 15 - 35 \text{ ft.}$ $\Box 35 - 50 \text{ ft.}$ $\Box 50 - 100 \text{ ft}$ $\Box > 100 \text{ ft}$ Is there a change in the average width of the active channel? $\Box \text{ Yes}$ / Estimate Width: ft $\blacksquare N$ Is there evidence of sediment deposition in the channel? $\Box \text{ Yes}$ $\blacksquare N$ Is the channel connected to a floodplain? $\Box \text{ Yes}$ $\blacksquare N$ Notes: Use the space provided to record important observations otherwise not captures on this sheet.					
$\square < 15 \ ft.$ $\square 15 - 35 \ ft.$ $\square 35 - 50 \ ft.$ $\square 50 - 100 \ ft$ $\square > 100 \ ft.$ Is there a change in the average width of the active channel? $\square \ Yes / \ Estimate \ Width: \ ft \ \square \ N$ Is there evidence of sediment deposition in the channel? $\square \ Yes$ Is the channel connected to a floodplain? $\square \ Yes$ Notes: Use the space provided to record important observations otherwise not captures on this sheet.	Existing Width of Riparian Vegetation: Ma	irk the average width of	riparian vegetation to the	he modified sec	tion.
Is there a change in the average width of the active channel? Is there evidence of sediment deposition in the channel? Yes Is the channel connected to a floodplain? Is the channel connected to a floodplain? Is the space provided to record important observations otherwise not captures on this sheet.	$\square 15 - 35 \text{ ft.}$	□ 35 – 50 ft.	□ 50 – 100 ft	2 > 10	<u>)0 ft</u>
Is there evidence of sediment deposition in the channel?	Is there a change in the average width of the	activo obannol?	T Van / n.t.		
Is the channel connected to a floodplain?	Is there evidence of sediment denosition in the	active channel?	Ver	Width: ft	KI NO
Notes: Use the space provided to record important observations otherwise not captures on this sheet.	Is the channel connected to a floodplain?				
Notes: Use the space provided to record important observations otherwise not captures on this sheet.			I LI YES		
	to the enamer connected to a noouplain?				
	Notes: Use the space provided to record impo	ortant observations of	therwise not capture	es on this she	
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	Notes: Use the space provided to record impo	ortant observations of	otherwise not captur	es on this sh	eet.

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Degraded Buffer

Survey Basin C	Code:				Date:		7-2.8			
Name of Stream	n: Al	W-5			Assessed	Bv:	REB	11		
Reach Code:										
Designated Stre	eam Type									
Site ID:										
		Make /	All Ob	servation	ns Facing Da	owr	nstream			
Location / Ext	ent of De	graded Buffe	er: 1) N	/lark and l	abel the locatio	n of t	the degraded bi	uffer on the <u>m</u>	ap. 2) Briefly	
describe the locati	on of the si	te relative to road	ds or oth	er landma	arks.		t oth	Ed an	Store C	
Degra	ded bu	ffps in	no	difee	(-e chim	4	C1 011	Com CT	<i>V</i> .	
	AND	MUUI P	hRAG	miles	THROU	GHO	M			
Mark where the degraded buffer occurs.										
□ Meander Be	nd	Straigh 🖉	t Secti	on	Steep Slo	pe/\	alley Wall	🗆 Oth	ier	
🕰 Left Bank					Estimate len	igth	of degraded	buffer: 19	• ft.	
🗆 Right Bank					Estimate len	igth	of degraded	buffer:	ft.	
Type of Degra	dation									
Left Bank:	uation.	Minin	nal Veo	retation		al W	idth 🗍 🖂 Ir	wasiye Plar	ats D Other	
Right Bank:			mal Vegetation			al W	idth Dr Ir	Invasive Plants Other		
				501111011		*1 **		IT USITE I IUI		
Dominate	Paved	Bare Ground	1 Turf /		Tall Grass	Tall Grass Scr		Trees	Other	
Land Cover			Lawn						- Ping	
Left Bank								<u> </u>		
Right Bank L L L M M J J J J										
Immediately A	djacent	Land Use: M	ark the	land use(s	s) immediately a	adjac	ent to the modi	fied section.		
Left Bank:	Left Bank: D Rural Residential			🛛 Urb	an Residentia	al	E Commer	cial	G Forested	
-	□ Suburban Residential			🗷 Indu	ıstrial		□ Agricult	ıral	C Recreational	
Right Bank:	Right Bank: Rural Residential			🛛 Urb	an Residentia	al	Commer 2	cial	□ Forested	
🗆 Suburban Reside			ntial 🛛 🖾 Indu		ustrial		□ Agricultu	ural	□ Recreational	
Existing Widtl	h of Ring	rian Vogotati	on• M	alt the ex	anna width af i		an constation t	- the modifier	i	
Left Bank:	<u>y</u> < 1	15 ft.	1 15 –	\cdot 35 ft	$\square 35 - 5$	$\frac{1}{0}$ ft	$\square 50 -$	- 100 ft	$\square > 100 \text{ ft}$	
Right Bank:		15 ft.	115 -	35 ft.	135 - 50 ft		<u> </u>	- 100 ft	$\square > 100 \text{ ft}$	
	, —									
Notes: Use the	space pro	ovided to reco	rd imp	ortant ol	bservations o	ther	wise not cap	tures on this	s sheet.	

Developed By: CT-NRCS January 2008
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Trash / Debris

Survey Basin Co	ode:	Date:	7-28	
Name of Stream	: ALW-3	Assesse	d By: RETBH	
Reach Code:				
Designated Stre	am Type:	C	1996	
Site ID:				
	Make All	Observations Facing L	ownstream	
Location / Extended International Journal Internation International Inte	ent of Trash or Debris: Nocation relative to roads or othe	Aark and label the location of er landmarks.	of the trash or debris on the	map and provide a brief
	THROUGHOUT 1	LEACH		
	111.00 -0.0			
+				
🐺 Within Stream	m 🛛 🖉 Riparian /	Area: 🗆 Left Bank 🛛	J Right Bank	
Туре:	🖓 Residential		Industrial	
Matanial	D R Dlostia	IT There	E Appliances	D Other

	W-1			
Material:	Plastic	D Tires	Appliances	□ Other
	De Paper	芭 Metal	🖾 Automotive	
	A Yard Waste	Construction	Medical	
Source:	Unknown	□ Flooding	Illegal Dumping	□ Local Outfall
Land Ownership:	Private	Public	🖉 Unknown	

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

Storm Water Outfall

Survey Basin Code:				Date		7.2.8			
Name of Stream: A	11.14	3		Accessed	- Ru	KH OC			
Reach Code:	CW.	<u> </u>		<u> Assessed</u>	Бу	DA R.D			
Designated Stream Tr	une.						-		
Site ID:	ype.						-	·	
Dite ID.		Make All (beervations	Facing I	2000	nstraam	and a second	1999	
Location of Outfall:		aht Bank Il et	t Bank Mor	r and label	tha l	antion of the out	fall a	n the man and provide a	
brief description of the lo	cation o	f the outfall relative	to roads or oth	ier landmar	uie i ks		uan c	sh the map and provide a	
				VGA	Ŀ	Rin R	DA	0	
LEAK	0(1	ASY //·		VED	(
·	2a								
Outfall Type		na	M Look Of	Ŧ.		Channel			
Flow:		pe one	Trickle	1		Moderate			
Flow: A None I Ir				_	<u> </u>	Danaid / Sour	┥╴	J Substantiat	
Deperite / Staine	dor: 12 None LIS			+ Dalta	C Ranciu / Sour			Disale	
Depusits / Status									
Bine Deter Provide o		uent dete	LI BIOWII						
Pipe Data: Flovide a	II ICIC	Vall Gamarata	Come	atad Mate	1	Dlastia		D Other	
Fipe Material:	(1)				ш				
Dine Outlots	e(s):	D Road							
Pipe Outlet:	_	Diemeter	<u>П.</u>		bea			At Stream Level	
Pipe Size:		Diameter:	π.					. D.	
# 01 Pipes:								3+	
	: in		I						
Leak-Off Data: Prov		relevant data.	NOF A 1 - 14			04			
Leak-Uli Swale:	- (-)-		Asphalt	T - 4		Stone	1.1.1		
Contributing Source	e (s):	Koad	L Parking	Lot		Recreational P	leid	LI Other	
Length of Swale:	<u> 11.</u>								
Width of Swale: Z	<u> </u>		termine and the second second						
Channel Data: Provi	ide all	relevant data.				1.0.			
Channel Material:			L Asphalt		I	I Stone			
Contributing Source	e (s):		Parking Lo		ecre	ational Field			
Unannel Length:	tt.								
Channel Width:	ft.		b					1	

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

Completed Stream Assessment Forms Beaver Brook



Reach Level Assessment

Survey Basin	Code:		<u>.</u>		Date(s): 8-	4-15	5	
Name of Stre	am: F	FIVER	Brock		Assess	ed By:	BH.	1 71	>BBP
Reach Code:	ß	B-1				230-11	30		
Designated S	tream 7	Гуре:							
			Make All Ob	servations	Facing	Downst	ream	1	
Was the entir	e reach	of stream	surveyed?	Yes D	No, Wh	ich sectio	n(s) we	ere not	surveyed? Why?
					- 1				
								-	
Channel Mo	rpholo	gy: Mark th	e predominate o	condition(s),	and indica	te the avera	nge mea	suremen	ts,
□ Step-Pool	[] []	Pool-Riffl	e 🗆 Run	🗆 🗆 Glid	<u>e *[</u>] Manipu	lated (Channe	l (piped, lined, etc.)
Active Chan	nel Wid	th: <u>12-</u>	15' AUG	12	Glide	Depth: -	-		
Riffle Depth:	6"				Step H	eight:			
Pool Depth:	12	+0 2			Bank I	leight (R	ight Ba	ank):	6
Run Depth:	_	-			Bank I	leight (Le	eft Ban	ık):	6
Substrate Co	omnosi	tion Mark	approvimate ne	rcentages for	each sub	strate tune o	bserver	4	
Silt or Clay	>	S%	□ 5-25%	25-50	% 5	0-75%		75%	
Sand		□ <5%	5-25%	25-50	% □ 5	0-75%		75%	
Gravel (0.1-2	inches)	■ <5%	5-25%	25-50	% □ 5	0-75%		75%	
Cobble (2-10	inches)	□<5%	5-25%	25-50	% □ 5	0-75%		75%	
Boulder (>10	inches)	13 <5%	5-25%	25=50	% 0 5	0-75%		75%	
Bedrock	X	□ <5%	□ 5-25%	25-50	% □ 5	0-75%		15%	
TD 11 XX/							1 6	141	
Describe Wa	ater Co	nditions:	Mark all that ap	ply.	1.1.1			Area	of Concern Worksheets
		ined ("iceo	tea")		rbid (mµ	ldy/silty)		in	dicate # and type of sheets
		usty-reed-			іку			comp	Tencing
*Li Odors		ther (loam,)	dyes, chemicals))					Erosiou Fich Parmier
Aquatic Pla	nts in S	tream:	FEW					Stor	Water Onfall
Floating: (e.g	. duck w	ed) 🖪	Absent II	n Spots	* Eve	rywhere		M	stified Channel
Attached: (e.	g. water l	ily) 🛛 /	Absent 🛛 🖾 I	n Spots	* Eve	rywhere		I	moacted Buffer
									Trash / Debris
Algae in Str	eam:			0	* 🗖 🕤	1		W	ater Conditions
Floating: (e.g	. plankto	nic) [224, /	Absent 1	n Spots	* U Eve	rywhere			Conter contenent
Attached: (e.	g. filamei	ntous) 🛛 A	Absent M	n Spots	*⊔ Eve	rywhere			
Canopy Cov	er: Ma	rk approxim	ate percentage o	f stream cove	ered by tre	e canopy.			
风 >75% cov	ered	□ 75-50%	covered	50%-25%	covered	1 2 < 2	5% co	vered	
	-	1 1 14		a - 11		1		-	-1 -1
Note: Ite	ems ma	rked with a	in asterisk (*)	indicate a	potentia	l area of o	concer	n. P.lea	se record all relevant

8

information on the appropriate Area of Concern Worksheet(s).

Reach Level Assessment

Riparian Vegetat	ion: Character	rize the average de	ensity of vegetation	in the first 35 feet a	djacent to the stre	am for both banks.
	Left Bank	Right Bank	Left Bank	Right Bank	LeftBank	Right Bank
Turf Grass	Low	Low	Moderate	☐ Moderate	🗆 High	I High
Grass	Low	Low	☐ Moderate	Moderate	🗆 High	🗆 High
Shrubs	Low [Low	☐ Moderate	Moderate	E High	High
Deciduous Trees	Low Low	Low	☐ Moderate	☐ Moderate	🖿 High	High
Coniferous Trees	□ Low	Low	☐ Moderate	□ Moderate	🗆 High	🗆 High

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

Immediately adjace	ent to stream	< 1/4 Mile from stre	am	>1/4 Mile from stre	am
D Rural Residential	Agricultural	Rural Residential	Agricultural	IRural Residential	Agricultural
Suburban Residential	Forested	Suburban Residential	Forested	Süburban Residential	Forested
Urban Residential	Recreational	Urban Residential	Recreational	D Urban Residential	Recreational
D]Industrial	Other 🗆	🗖 Industrial	Other	A Industrial	D Other
Commercial		Commercial	1	Commercial	

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

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

12

Fish Barrier

Survey Basin Code:	Date:	8-4-(5
Name of Stream: BB-1	Asse	sed By: BH +	<u> </u>
Reach Code:			
Designated Stream Type:			
Site ID:			
M	ake All Observations Facin	g Downstream	
Location of Barrier: Mark and label	the location of the barrier on th	e map and provide a brief	Edescription of the location of
the barrier relative to roads or other landma	arks.	map and provide a blie	description of the location of
AM/ CULVERY AT	MAT + ENLIGE		
	The FINGH		
Type of Barrier: Mark the type of fish	barrier.		
Dam Durvey	rert 🛛 Ve	locity Barrier	☐ Other
		Locity Durrier	
Dam Data: Provide all relevant data.	and the second second	Sector and the sector of the s	and the second sec
Height of Dam: 4 ft. Length of	Spillway:/d ft. Shape	of Spillway: M Stra	ight Crescent
Materials: Stone	Concrete Stone &	Concrete Di Timb	er-Crib Dther
Is there other infrastructure assoc	ciated with the Dam?	No Ves (If ves m	ark the type helow)
Factory Hydro Fac	ility		Other
Culvert Data: Provide all relevant data			
Type of Culvert: Box	D Pipe	Pipe-Arch	n 🛛 🗆 Arch
Culvert Material:	crete Corrugated N	fetal Delastic	Stone Stone
Culvert Outlet:	hed: ft. 🗆 Ra	mped	□ Submerged
Culvert Size: Diamete	er: ft. Heigl	nt: ft.	Width: ft.
# of Culverts: Culver	t Length: ft.		
Velocity Barrier Data: Provide all re	elevant data.		1. 2. 2. 2. 2. 2
Nature of Barrier: Grade Co	ontrol Sill Concrete A	pron Channel C	Cross-Section D Other
Length of Barrier: ft.	Approx. Vertical Rise:	ft.	
Notes: Use the space provided to re-	cord important observation	s otherwise not canti	red on this sheet.
/			
			Developed By CT-NRCS
			January 2008

n. .

Storm Water Outfall

Survey Basin Code:				Date:	g	- 4-15				
Name of Stream:		-		Assessed	By	BH +				
Reach Code:	B-1					- <u>-</u>				
Designated Stream Ty	ype:	,	1			304				
Site ID:										
		Make All O	Observations	s Facing I	Dow	nstream				
Location of Outfall:	RI Ri	ght Bank 🛱 Lei	ft Bank Mar	k and label	the l	ocation of the out	fall on	the map and provide a		
brief description of the loc	cation o	f the outfall relative	to roads or oth	her landmar	ks.					
0		The Sec	MP							
1	(*	rec dee								
Outfall Type:	E Pi	pe	Leak Of	f		Channel				
Flow:	No No	one	Trickle			Moderate		Substantial		
Odor:	D .None				□ Rancid / Sour □			□ Sulfur (rotten eggs)		
Deposits / Stains	No.	one	□ Sediment Delta			Oily Stain		Black		
Benthic Growth	No.	one	Brown		Green			Orange		
Pipe Data: Provide a	ll relev	vant data.	194 3 - I				-			
Pipe Material:		Concrete	Corruga	ated Meta	d	□ Plastic		□ Other		
Contributing Source	e(s):	Road	Z Parking	g Lot	CKOther IX		₽ U	Unknown		
Pipe Outlet:	-	Perched G	- 2 ft.	🗆 Ramp	ped 🗷			At Stream Level		
Pipe Size:		Diameter:31 2	ft.				_			
# of Pipes:							AZI 3	13+ 9		
Leak-Off Data: Prov	ide all	relevant data.			1			A STATE OF STATE		
Leak-Off Swale:		Concrete	□ Asphalt			Stone		Earthen		
Contributing Source	e (s):	□ Road	D Parking	Lot		Recreational F	ield	□ Other		
Length of Swale:	ft.									
Width of Swale:	ft.									
Channel Data: Provi	de all	relevant data.					211			
Channel Material:		Concrete	□ Asphalt			Stone		Earthen		
Contributing Source	: (s):	□ Road □	Parking Lo	t 🛛 R	ecre	ational Field)ther 🛛 Unknown		
Channel Length:	ft.									
Channel Width:	ft.		4							

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

•

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 r $A \mathcal{E} \mathcal{M} \mathcal{A} \mathcal{R} + \mathcal{R} \mathcal{R} \mathcal{R} \mathcal{R} \mathcal{R} \mathcal{R}$	oads or other landmarks.
	5.
Mark where channel modification occurs:	<u> </u>
Meander Bend	□ Steep Slope/Valley Wall □ Other
Estimate length of channel modification: ft.	C Jor REACH
Estimate height of bank modification: 6 ft.	
Type of Manipulation: Channelization R	nk Armoring
Extent of Manipulation: MRight Bank	ft Bank
Channel / Bank Materials: D Natural Rip	Rap Concrete Gabions General
Immediately Adjacent Land Use: Mark the land use(s) in	mmediately adjacent to the modified section.
Li Rural Residential	Commercial Ex Forested
Suburban Residential LI Industrial	☐ Agricultural ☐ Recreational
Existing Width of Riparian Vegetation: Mark the avera	ge width of riparian vegetation to the modified section
\swarrow < 15 ft. \Box 15 – 35 ft. \Im 35 – 50	ft. $\Box 50 - 100 \text{ ft}$ $\Box > 100 \text{ ft}$
In these a change in the surrout still of the still of the	
Is there a change in the average width of the active change is the standard of and international in the standard of the standa	nnel? U Yes / Estimate Width: ft INO
Is the channel connected to a flood plain?	
is the channel connected to a hoodplain?	
Notes: Use the space provided to record important obse	rvations otherwise not captures on this sheet.

Degraded Buffer

Survey Basin (Code:	··			Date:	9	- 44 + 1	15			
Name of Stream	<u>m:</u>				Assessed	By	: (34	*4		
Reach Code:	<u> </u>	<u>B-L</u>									
Designated Str	eam Type										
Site ID:											
		Make A	II Ob	servation	s Facing D	owi	nstrea	m			
Location / Ext describe the locat	t ent of D a ion of the si	egraded Buffer ite relative to road	r: 1) M s or ot	Mark and la her landma	abel the locatio irks.	n of	the degra	ded bi	uffer on the <u>n</u>	nap.	2) Briefly
Mark where t	he degra	ded buffer occ	urs.								
Meander Be	end	🕅 Straight	Secti	on	□ Steep Slo	pe/	Valley V	Vall	🗆 🗆 Ot	her	
E Left Bank	1				Estimate ler	igth	of degra	aded	buffer: 10	NO I	ft.
🗆 Right Bank					Estimate ler	igth	of degra	aded	buffer:		ft.
T CD											
L of Do-la	idation:	121 1 4	-1.37		the second	1 37	7* 1.1	10.4	4 994		
Lett Bank: Minimal Vegetation			getation	Minimal Width					ints	U Othe	
Right Bank:		Minim	al ve	getation	Minimal width Invasive Pla					ints	L Othe
Dominate Land Cover	Paved	Bare Ground	Turf	f/ /n	Tall Grass	Sc	rub / Sh	rub	Trees		Other
Left Bank				es l							
Right Bank											
Immediately	Adiogent	Land User M.	-1.41		N. 1			1.	C 1		
Left Bank.		Lanu Ose: Ma	ark the	Iand use(s) Immediately	aojao	\Box \Box \Box	modi	tied section.	- ch	Forestad
Dett DallKi		rhan Residentio	al		an residenti	a1		ioule	ural		r orested
Right Bank.		Residential			an Residential D Commercial			cial	کلیوا التار	Forestad	
		rban Residenti	al		Istrial	41		icult	iral	ा मद्भा जिल	Recreation
							<u> </u>			- International Contraction	reoreation
Existing Widt	h of Rip:	arian Vegetatio	on: M	ark the ave	erage width of	гіраг	ian vegeta	ation t	o the modifie	ed sec	tion.
Left Bank:	<u> </u>	15 ft.	<u>- 15 -</u>	<u>- 35 ft.</u>		0 ft	. [50 -	- 100 ft		>100 ft
Right Bank:	🗆 <	<u>15 ft.</u>	<u>- 15 -</u>	- 35 ft.		0 ft	. [[50 -	- 100 ft		>100 ft
Notes: Use the	snace pr	ovided to recor	rd imr	ortant of		the	nvise no	t can	tures on th	is ch	pet
JAPA	NESE	KNOTW	EED	> Im	EXICAJ	34	N BO C)		13 311	, ,
		1	100								
CI-17	ca A	GRAPE / 1	Fox	SRAPE	6.007	J	3-454				

Developed By CT-NRCS January 2008

Completed Stream Assessment Forms Belden Brook





Reach Level Assessment

urvey Basin Code:	Date(s): 7.9.15					
Name of Stream: BELDEN BROOM		Assessed By: 1	BH AB	RE		
Reach Code: BLB-1	ode: BLB-1 10 00					
Designated Stream Type:						
Make All Obser	vations F	Facing Downst	ream			
Was the entire reach of stream surveyed? X	es 🗆 N	No, Which sectio	n(s) were not	surveyed? Why?		
Channel Morphology: Mark the predominate cond	lition(s), a	nd indicate the avera	ige measuremei	nts.		
□ Step-Pool	□ Glide	* Manipu	lated Channe	el (piped, lined, etc.)		
Active Channel Width: 12'		Glide Depth:	_	- (- · · · · · · · · · · · · · · · · · ·		
Riffle Depth: 0 3"		Step-Height:				
Pool Depth: 1/2		Bank Height (Ri	ight Bank):	2.		
Run Depth:		Bank Height (Le	eft Bank):	2		
	1	27				
Substrate Composition: Mark approximate percer	ntages for o	each substrate type of	bserved.			
Silt or Clay 🔽 <5% □ 5-25% □	1 25-50%	6 🛛 50-75%	□ >75%			
Sand 🗆 <5% 🗆 5-25% 🗖	25-50%	b 🛛 50-75%	■>75%			
Gravel (0.1-2 inches)	25-50%	6 🛛 50-75%	□ >75%			
Fobble (2-10 inches) Image: Signature Image: Signa] 25-50%	6 🛛 50-75%	□ >75%			
Boulder (>10 inches) 🛛 <5% □ 5-25% □] 25-50%	6 🛛 50-75%	□ >75%	1		
Bedrock 🔲 <5% 🖾 5-25% 🖾] 25-50%	6 🛛 50-75%	□ >75%			
Describe Water Conditions: Mark all that apply.	_		Amon	of Concom Workshort		
Clear Stained ("iced tea")	* Tur	oid (muddy/silty)	Area	dicate # and type of sheets		
* Green * Rusty-Red VERY MINIMAL	* Mill	(V	comp	leted for this reach assessment		
* Odors * Other (foam, dyes, chemicals)		-		Erosion		
				Fish Barrier		
Aquatic Plants in Stream:			Storn	n Water Outfall 3		
Floating: (e.g. duck weed) 🖾 Absent 🗆 In S	pots *	[*] Everywhere	M	odified Channel		
Attached: (e.g. water lily) 🛛 🖾 Absent 🗌 In Sp	pots 🕴	[•] D Everywhere	I	mpacted Buffer		
Algoe in Streeme				Trash / Debris		
Algae in Stream:			W	ater Conditions		
Attached. (pots *	L Everywhere				
Attached: (e.g. filamentous) 🛛 Absent 🗆 In S	pots *	L Everywhere				
Canopy Cover: Mark approximate percentage of str	eam cover	ed by tree canony]		
$\square >75\%$ covered $\square 37.50\%$ covered $\square 50\%$	-2.5% (covered $\square < 2$	5% covered	50%		
	10 23 10 0		5 /0 COVERED] , , , 0		
Note: Items marked with an asterisk (*) ind	licate a p	otential area of c	oncern. Plea	se record all relevant		
information on the appr	opriate A	Area of Concern	Worksheet(s)			

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 🗙	E Low	Low	D Moderate	☐ Moderate	🗖 High	🗖 High			
Grass	Low	Low	Moderate	D Moderate	🗖 High	🗆 High			
Shrubs	Low	Low	☐ Moderate	☐ Moderate	🛛 High	🗆 High			
Deciduous Trees	Low	Low	☐ Moderate	Moderate	🖪 High	🗆 High			
Coniferous Trees	Low	Low	D Moderate	☐ Moderate	🛛 High	🗖 High			

Surrounding Land Use: Mark the dominate land use(s) for each "zone", if known or observed.									
Immediately adjace	ent to stream	< 1/4 Mile from strea	am	> ¼ Mile from stream					
Rural Residential	□ Agricultural	Rural Residential	G Agricultural	□ Rural Residential	□ Agricultural				
Suburban Residential	□ Forested	Suburban Residential	□ Forested	Suburban Residential	Forested				
Urban Residential	Recreational	Urban Residential	Recreational	Urban Residential	Recreational				
Industrial	Other	Industrial	C Other	S Industrial	🖸 Other				
Commercial		Commercial		Commercial					

Areas of Concern Checklist: Marking "Yes" to any of the following questions indicates that an Area of	Concern W	orksheet						
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?	A Yes	D No						
Are there any dams or any other possible natural or artificial barriers to fish migration?	🖾 Yes	🗆 No						
Are there any storm water outfalls, discharge pipes or discharges within the reach? Indicate	□ Yes	🗆 No						
the number observed:								
Is there any portion of the channel that has been modified (not culvert) (channeled, piped, rip	□ Yes	D No						
rap)?		T						
Is there any portion of the reach where the riparian buffer has been compromised or is	□ Yes	🗆 No						
nonexistent?								
Is there any portion of the reach that contains trash or other debris (cars, appliances, construction	□ Yes	D No						
waste)?								
Is there any portion of the reach that has a change in water conditions?	□ Yes	□ No						

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

Dan was Nutural - Dowwess Trees, Brush, Trash, Leaves -see Trash/Debris Sheet -

Trash / Debris

Survey Basin Code:	Date: 7	-9-15	
Name of Stream: Beldy Bruck	Assessed	BY: BH AB RE	
Reach Code: BLB - 1			
Designated Stream Type:			
Site ID:			
Make A	ll Observations Facing $Data$	ownstream	
Location / Extent of Trash or Debris:	Mark and label the location of	the trash or debris on the m	ap and provide a brief
description of the location relative to roads or o	other landmarks.	LANGER LEASE	C
FLOOD DEBRUS-L	UMBER LOGS D'	CAULAET CENTE	
PIN PRODUCO, PILOTO			
Within Stream D Riparian	Area: 🗆 Left Bank 🛛	Right Bank	
Fype: Residential	Commercial		
Material:	Tires	Appliances	D Other
	L Metal	Automotive	LOGS
Source:			
Land Ownersnip: D Private		Unknown	
Notes: Use the space provided to record	d important observations o	thamuica not anoturas a	n this sheet
Notes. Ose the space provided to record	a important observations o	therwise not captures o	ii ulis sheet.
Log Jam Fron	FLOCDING		
BROOM WIDER - 1	2		
12-2 BANK			

New Gonstuck. River Left -New Outfill Clob' fran Brook Natural Flood Pelas Garsing Fish Barrier Trach, Dourse tree, Logs, Leaves River Funds - BETH SIDES BLOCKED Rive L, 2' Corr. metal Woodin Disch. Pipe, Conc. Rubble. FUL Barr Riv R l' Corr. Metal Ouch Pipe Bridge/ Culturent Under Wooben JI -3 Pisch. Pilis 2' Conc 1' Conc 1' metclin Bresse Abitmar.

Erosion Assessment

Survey Basin Co	ode:				Date:	7. 9.	-15		
Name of Stream	: Belden	Brook			Assessed By: (A) AI? R.F.				
Reach Code:	BLB-1				110000000	- 29.		<u> </u>	
Designated Stre	am Type:						,		
Site ID:									
L'and a state of the state of t		Make	AllOh	comutions	Facing D	ownet	COM NO		
Location of Ba	nk Fraciar	IVIANC	and label	the leastion	Facing D	OWILS LI			11- 41- 1 C 41
site relative to road	s or other lan	admarks.	anu label	the location	of the erosic	on on the <u>n</u>	<u>nap</u> . 2) Brie	effy descr	ibe the location of the
Kal	1 50	ut lad	unday	Bldg					
Der.				ſ					
Mark where er	osion is oc	curring							
Meander Ben	d	□ Straid	tht Secti	07	0 Steen		alley Wal)thar
- meander Den	<u> </u>		sin occu		Ne Steep	Slober v	ancy wai		
Site Dimension	s: Indicate a	ll applicable	measure	ments associ	ated with the	e erosion s	ite		
Length:	Left Ban	k: 75	ft.	Right Ba	nk: 🗾	$\overline{\mathbf{x}}$	ft.		
Bank Height:	Left Ban	k: 30'	ft.	Right Ba	nk:	Ζ'	ft.		
Bank Angle:	Left Ban	k: 60	deg.	Right Ba	nk:	13	deg.		
		41	** *	1.0 /					
what is the pro	XIMITY OF	the erosic	on site to	0 infrastru	icture (e.g	. road, brid	lge, building	$\frac{1}{2}$, etc.)?	
<u><u><u></u></u> <u></u> <u></u></u>	<u> 64 15 - 1</u>	30 ft	LI 30 -	45 II	$ \Box 45 - 0$	bU ft	LI 60	100 ft	$\Box > 100 \text{ ft.}$
Immediately A	diacent La	and Use:	Mark the	land use(s) i	mmediately	adjacent t	o the erosion	n site	
Rural Resider	ntial	🛛 Urbai	n Reside	ential	🖄 Comr	nercial			ested
Suburban Res	sidential	🗆 Indus	trial		□ Agric	ultural			reational
			1						
Land Ownersh	ip: Mark lar	nd ownershi	p at the lo	cation of the	erosion site	•	1		
			D Priv	ate			🛛 🖾 Unkn	Iown	
Existing Width	of Rinaria	an Vegeta	tion: M	ark the avera	ee width of	rinarian u	antation at	the energie	
$\Box < 15 \text{ fr}$		5 - 35 ft		$\square 35 - 50$	ge width of				π site. [−] 1 ∧ 100 θ
	1991	<u>5 – 55 n.</u>			11.		- 100 II	1.	
Notes: Use the sp	ace provided	to record in	nportant c	bservations	otherwise no	ot captured	on this she	et.	
a 1	el	Bide	IT.C	P 076	r tor	of	SLAR		
Steep	1000	0.09			1-1	1	3101-	/	
a second	. h.	cleare	mid	then	brock				
6602100 CO	c (9	210 p.c	1100		VIVI				
No sh	ruls/ 10	ster	cn c	100 C (xoout	root	stactu	r-(
		.gr	1				•		
				{					
				{					
				(
				(
				(

urvey Basin Code:		Date: 7-9-15						
Name of Stream:	R-1	DEAL BROOK		Assessed By: NJ AR RE				
Reach Code:	0-1			115565564	29	· VA AB	400	
Designated Stream Ty	/ne:	н. 						
Site ID:								
Contraction of the second s		Make All (bservations	Eacing I	Dow	nstream		
Location of Outfall:		ght Bank 🖾 Lei	t Bank Mar	k and label	the l	location of the out	fall or	the map and provide a
brief description of the loc	ation o	f the outfall relative	to roads or otl	her landmai	ks.			
	•							
				-				
Outfall Type:	🗷 Pi	pe	Leak Of	f		Channel		
Flow:	12 No	one	Trickle			Moderate		Substantial
Odor:	X N	one	□ Sewage			Rancid / Sour		Sulfur (rotten eggs)
Deposits / Stains	D N	one	□ Sedimer	nt Delta		Oily Stain		Black
Benthic Growth	DA No	one	Brown	9		Green		Orange
Pipe Data: Provide all relevant data.								
Pipe Material:		S Concrete	Corrugated Meta		<u>l</u>	D Plastic		□ Other
Contributing Source	e(s):	🖾 Road	🛛 🗆 Parking	g Lot		□ Other	ΟU	Inknown
Pipe Outlet:		Perched	<u> </u>	🗆 Ramp	bed			t Stream Level
Pipe Size:		Diameter: 2	ft.					
# of Pipes:		<u>1</u>			,			+
T 1 0 00 7 1 7								
Leak-Off Data: Prov	ide al	relevant data.		- Anno	-	_		
Leak-Off Swale:	(-)		☐ Asphalt	T .	느	Stone		D Earthen
Contributing Source	: (S):	Koad		Lot		Recreational F	leld	Li Other
Length of Swale:	<u>IL.</u>	Alone -	NEW	Contant	IC (
Channel Dates Droui	IL.	ralavant data			_	•		
Channel Material		Concrete			Tr	1 Stone		- Forthan
Contributing Source	(c).		Parking Lo	t IIP		ational Field		ther Ulluknown
Channel Length	ft		Tageing Lo					
Channel Width:	ft.							
		1	3				-	
Notes: Use the space	provid	led to record imp	ortant obser	rvations o	ther	wise not captu	res or	n this sheet.
. 7	1	E d		Reed	1	New Ca	Eh	uction
NWNS @ 19	5	PROM JA	lan	Draw	*		<u>.</u>	
)	-				-	_		-

urvey Basin Code:		Date: 7-9-15						
Name of Stream:	Se lde	w Brock		Assessed	l By	RH A	ß	RE
Reach Code: RLR	~1	· · · · · · · · · · · · · · · · · · ·					<u> </u>	1000
Designated Stream T	ype:							
Site ID:	2.4						_	
		Make All C	Observation	s Facing	Dow	nstream	-	
Location of Outfall: brief description of the lo	X R	ight Bank CXLef	ft Bank Mar to roads or ot	rk and labe her landma	the l rks.	ocation of the out	fall o	n the <u>map</u> and provide a
Outfall Type:	D.P	ipe	Leak O	ff		Channel	1	
Flow:	Z N	lone	Trickle			Moderate		I Substantial
Odor:		one	□ Sewage			Rancid / Sour		Sulfur (rotten eggs)
Deposits / Stains	-₩ N	one	□ Sedime	nt Delta		Oily Stain		Black
Benthic Growth	N	one	Brown			Green] Orange
Pipe Data: Provide a	ll rele	vant data.						
Pipe Material:	🛛 🖾 Corrug	ated Meta	al	Plastic		□ Other		
Contributing Source	e(s):	Road	Parking Lot			□ Other	Πι	Jnknown
Pipe Outlet:		Perched	ft.		ped		$\Box A$	At Stream Level
Pipe Size:		Diameter:	ft.					
# of Pipes:				□ 2	C		□ 3	+
					12			
Leak-Off Data: Prov	vide al	l relevant data.						
Leak-Off Swale:		Concrete	□ Asphatt			Stone		Earthen
Contributing Source	e (s):		D Parking	Lot		Recreational F	ield	□ Other
Length of Swale:	ft.							
Width of Swale:	ft.							
Channel Data: Provi	ide all	relevant data.			-	1 - N		
Channel Material:		Concrete	□ Asphalt] Stone		□ Earthen
Contributing Source	e (s):		Parking Lo	ot 🛛 🗖 R	ecre	ational Field		Other Unknown
Channel Length:	ft.							
Channel Width:	ft.							
Notes: Use the space	provi	ded to record imp	oortant obse	rvations o	other	wise not captu	res o	n this sheet.
RIV, R =	: 5.	-all Corr.	Metel	from		Cemetary	e	I'D. L'etw
RN L:	- (netel, Co	S'D.	11 10	\vee	off stream	1	From Steep Bank
(Sroke.	n stobs beneat	th.					

urvey Basin Code:	urvey Basin Code:				Date: 7-9-15				
Name of Stream: TR	CIDE	N BROOK		Assessed By: RH AB RE					
Reach Code:	SLB1					<u></u>			
Designated Stream T	vne:								
Site ID:	/								
		Make All (Observations	Eacing I	Daw	nstream			
Location of Outfall:	RI Ri	ght Bank D Le	ft Bank Mar	k and label	the I	ocation of the out	fall or	the <u>ma</u>	p and provide a
brief description of the lo	cátion o	f the outfall relative	to roads or ot	her landma	rks.				
AT U	NeoDI	IN ST. BI	21966						
<u> </u>									
Outfall Type:	M Pi	pe	Leak Of	f		Channel			
Flow:	Ø,N	one				Moderate		Subst	antial
Odor:	12 N	one	Sewage			Rancid / Sour		Sulfu	r (rotten eggs)
Deposits / Stains	D.N.	one	🗆 Sedimer	nt Delta		Oily Stain		Black	
Benthic Growth	İ \$KN	one	Brown			Green		Oran	ge
Pipe Data: Provide all relevant data.									
Pipe Material:		D Concrete	Corrug	ated Meta	ıl	□ Plastic			Other
Contributing Source(s):		Road	D Parking	g Lot		Other	ΠU	Inknov	vn
Pipe Outlet:		Perched. 2.1	<u>ft.</u>	🗆 Ram	bed		MA	t Strea	um Level /
Pipe Size:		Diameter: 2,	Z, \ft.						
# of Pipes:						X 3	+ 3		
Leak-Off Data: Prov	vide al	relevant data.							
Leak-Off Swale:		Concrete	Asphalt		□ Stone			Earthen	
Contributing Source	e (s):	Road	D Parking	Lot		Recreational F	ïeld		ther
Length of Swale:	ft.								
Width of Swale:	ft.								
Channel Data: Provi	ide all	relevant data.							
Channel Material:		Concrete	Asphalt		TC	Stone			urthen
Contributing Source	e (s):	Road	Parking Lo	t 🗆 R	ecre	ational Field)ther	
Channel Length:	ft.								
Channel Width:	ft.				+				
Notes: Use the space	nrovi	led to record im-	ortant obse	rvations o	ther	wise not captu	rec or	n this s	heet
. totest obe the space	PIOVI		Sortant Obser	varions (-ticl	wise not captu	105 01	a uns s	moot.
2' 5	ONE								
	1021	-	11- 4						
ι	netel	IN ROU	Timer -						
R11. 7	U CH	DIRCA -	T DO.	AGK					
110 0	sol and a	- 4 1-6 - 1	lo Fici	1	-			-	

Reach Level Assessment

Jurvey Basin Code:		- N. 2		Date(s): 7 - R	-15		
Name of Stream:	BECDEJ	BROOK		Assessed By: (3H RE	AB	
Reach Code: BLI	3-2			SPART	1200		
Designated Stream T	Туре:			END	1330		
	N	Jake All Obs	ervations E	acing Downst	tream		
Was the entire reach	of stream s	urveyed? 🗖	Yes 🗆 N	o, Which sectio	n(s) were not	t surveyed? Why?	
Channel Morpholo	gy: Mark the	predominate co	ndition(s), an	d indicate the avera	age measureme	nts.	
□ Step-Pool IX	Pool-Riffle	Run	Glide	* Manipu	lated Channe	el (piped, lined, etc.)	
Active Channel Wid	th: 12'	I		Glide Depth:			
Riffle Depth:	3"		· · · · · ·	Step Height:		anda ar an ar a	
Pool Depth: 15	to Z		~	Bank Height (R	ight Bank):	1	
Run Depth:	· · ·			Bank Height (L	eft Bank):	1'	
					,		
Substrate Composi	tion: Mark a	pproximate percent	centages for e	ach substrate type	observed.		
Silt or Clay	□<5%	□ 5-25%	□ 25-50%	□ 50-75%	□ >75%		
Sand	□ <5%	□ 5-25%	□ 25-50%	X 50-75%	□ >75%		
Gravel (0.1-2 inches)	□<5%	□ 5-25%	25-50%	□ 50-75%	□ >75%		
Cobble (2-10 inches)	□ <5%	5-25%	□ 25-50%	□ 50-75%	□ >75%		
Boulder (>10 inches)	⊠<5%	□ 5-25%	□ 25-50%	□ 50-75%	□ >75%		
Bedrock	□<5%	□ 5-25%	25-50%	□ 50-75%	□ >75%		
Describe Water Co	nditions: N	fark all that appl	lv.		Area	of Concern Worksheets	
🖾 Clear 🛛 Stai	ined ("iced (tea")	* Turb	id (muddy / silty)	I	dicate # and type of sheets	
*□ Green	usty-Red		*□ Milk	V	comp	leted for this reach assessment	
* Odors * O	ther (foam, dy	ves, chemicals)				Erosion	
						Fish Barrier 2	
Aquatic Plants in S	tream:			· ·	Stor	m Water Outfall 3	
Floating: (e.g. duck we	ed) 🖾 A	bsent 🗆 In	Spots *	<u>Everywhere</u>	M	odified Channel	
Attached: (e.g. water li	ily) 🛛 🔀 A	bsent 🗆 In	Spots *	□ Everywhere	1	Impacted Buffer	
Algae in Stream:						Trash / Debris	
Floating: (e.g. planktor	nic) 🚺 🕅 A	bsent 🗆 In	Spots *	Everywhere			
Attached: (e.g. filamen	ntous) 🛛 A	bsent 🛛 🖾 In	Spots *	Everywhere			
Canopy Cover: Mai	rk approximat	e percentage of s	stream covere	d by tree canopy.]	
$\square >75\%$ covered \square	Z 75-50% c	overed 🛛 🗄	50%-25% c	overed $\Box < 2$	25% covered		
Note: Items man	ked with an information	asterisk (*) i tion on the ap	ndicate a po propriate A	otential area of o area of Concern	concern. Plea Worksheet(s	ase record all relevant).	

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	Low	Low	Moderate	□ Moderate	🚰 High	🔀 High			
Grass	Low	Low	☐ Moderate	Moderate	🛛 High	🗆 High			
Shrubs	Low	Low	☐ Moderate	Moderate	🗆 High	🗖 High			
Deciduous Trees	Low	Low	☐ Moderate	□ Moderate	🛛 High	🔀 High			
Coniferous-Trees	Low	Low	☐ Moderate	☐ Moderate	🛛 High	🗖 High			

Surrounding Land Use: Mark the dominate land use(s) for each "zone", if known or observed.								
Immediately adjace	ent to stream	< 1/4 Mile from strea	am	> ¼ Mile from stream				
CRural Residential	Agricultural	Rural Residential	🔁 Agricultural	Rural Residential	Agricultural			
🖾 Suburban	B Forested	Suburban	□ Forested	Suburban	□ Forested			
Residential		Residential		Residential				
BUrban Residential	Recreational	Urban Residential	Recreational	Urban Residential	Recreational			
Industrial	🖾 Other	Industrial	□ Other	Industrial	□ Other			
Commercial		Commercial		Commercial				

Areas of Concern Checklist: Marking "Yes" to any of the following questions indicates that an Area of	Concern W	orksheet
should be filled out for the appropriate concern. For each occurrence observed, complete and area of concern sh	leet.	
Is there evidence of either stream bank erosion or streambed instability within the reach?	P Yes	🗆 No
Are there any dams or any other possible natural or artificial barriers to fish migration?	P AYes	🗆 No
Are there any storm water outfalls, discharge pipes or discharges within the reach? Indicate	Yes Yes	🗆 No
the number observed:	in the second	
Is there any portion of the channel that has been modified (not culvert) (channeled, piped, rip	I X Yes	
rap)?		
Is there any portion of the reach where the riparian buffer has been compromised or is	Ø Yes	🗆 No
nonexistent?		
Is there any portion of the reach that contains trash or other debris (cars, appliances, construction	Yes Yes	🗆 No
waste)?		
Is there any portion of the reach that has a change in water conditions?	I Yes	X 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 THROUGHENT FIRST 3/4 ALL MODIFIED CHANNEL - RIP RAP

Developed By: CT-NRCS January 2008

e El - 21 11 - 01

Fish Barrier

Survey Basin Code:	Date: 7-9-15
Name of Stream: RELDEN	Assessed By: Pil AR RI
Reach Code: RLR - 7	Assessed by. BH no ne
Designated Stream Type:	
Site ID:	
Make All Obs	amustions Essing Downstrage
Location of Barrier: Mark and label the location of the barrier relative to roads or other landmarks. AT STANLEY R	f the barrier on the map and provide a brief description of the location of
Type of Barrier: Mark the type of fish barrier.	
Dam 🛛 🗶 Culvert	□ Velocity Barrier □ Other
Dam Data: Provide all relevant data. Height of Dam: ft. Length of Spillway: Materials: □ Stone □ Concrete Is there other infractory store store of spillway: □ Concrete	ft. Shape of Spillway: Straight Crescent Stone & Concrete Timber-Crib Other the Dem2 No. Vec (If the second secon
Is there other intrastructure associated with	the Dam ? LINO LI Yes (If yes mark the type below)
L Factory L Hydro Facility	Mili Li Residence Li Other
Culvert Data: Provide all relevant data.	
Type of Culvert: D Box	Pipe Dipe-Arch DArch
Culvert Material:	Corrugated Metal Plastic Stone
Culvert Outlet:	3_ft. □ Ramped □ Submerged
Culvert Size: Diameter:	ft. Height: ft. Width: ft.
# of Culverts: 2 Culvert Length:	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 impor	ant observations otherwise not enplured on this sheet
Trotes. Ose the space provided to record impor	and observations otherwise not captured on this sneet.

Fish Barrier

-Z. Make All (Assessed By	: BH	AB	RE	
- Z. Make All (,	·	110		
Make All (_			
Make All (
Make All (4			
and label the locati)bservation	s Facing Dow	nstroam			
	on of the barri	ier on the man ar	non cum	brief descrip	ation of the locat	ion of
her landmarks. Mercit	Г РК	νY				
ype of fish barrier.	_					
Culvert		U Velocity I	Barrier		ther	
				-		
ant data.	0					
ength of Spillwa	V: ft	Shape of Spil	lway:	Straight	Crescent	
		one & Concret	e D	Fimber-Cri	h D Other-	~
ure associated w	ith the Dar	n? DINO [Ves (If y	es mark the	whe below)	/
Ivdro Facility	D Mill		Residen	d Taken	Other	
- <u>y</u> y				of lar		
levant data.	-					
B Box	D Pipe	P	D Pipe-	Arch	Arch	
Concrete Concrete	🛛 🗆 Corrug	gated Metal	🗆 Plasti	c	□ Stone	
🕅 Perched:	ft.	□ Ramped		🗆 🗆 Si	ubmerged	
Diameter:	ft.	Height:	6	ft. Widt	ih: 6	ft.
Culvert Length	1:225 ft.					
rovide all relevant da	ta					_
Grade Control Sil		crete Apron	Chan	nel Cross-S	Section 🔲	Other
ft. Appro	ox. Vertica	Rise:	ft.		1-	
ded to record imp	oortant obse	ervations other	wise not	captured or	this sheet.	
To	1-95 .	Nors 5T	, C	LVERT		
		100 0				
	ype of fish barrier. Culvert ant data. ength of Spillwa Concrete re associated w ydro Facility evant data. Concrete Perched: Diameter: Culvert Length ovide all relevant da Grade Control Sil ft. Approd ded to record imp	ype of fish barrier. Culvert ant data. ength of Spillway: ft Concrete State re associated with the Data ydro Facility Will evant data. State Pipe Concrete Concrete Corrug Perched:ft. Diameter: ft. Culvert Length: 225 ft. ovide all relevant data. Grade Control Sill Concreta ft. Approx. Vertica ded to record important obse To 1-95	ype of fish barrier.	ype of fish barrier. Culvert Uelocity Barrier ant data. ength of Spillway: ft Shape of Spillway: L'Concrete Stone & Concrete re associated with the Dam? Tho Yes (Iry ydro Facility Mill Residen evant data. EXBOX Pipe Pipe Concrete Corrugated Metal Plasti Perched:ft. Ramped Diameter: ft. Height: 6 Culvert Length: 225 ft. ovide all relevant data. Grade Control Sill Concrete Apron Chant ft. Approx. Vertical Rise: ft. ded to record important observations otherwise not of To 1-95 Noncoro Concellance	ype of fish barrier.	ype of fish barrier. Q Culvert Ulvert ant data. ength of Spillway: ft Shape of Spillway: Q Concrete Stone & Concrete Q for Facility Mill Residence Q for Spillway: g Concrete Corrugated Metal Q Concrete Concrete Q Concrete Corrugated Metal Pipe-Arch Arch Q Concrete Corrugated Metal Diameter: ft. Height: 6 Culvert Length: 225 ft. ovide all relevant data. Grade Control Sill Grade Control Sill Concrete Apron To 1-95 To 1-95

Survey Basin Code:				Date:	7.	-9-15			
Name of Stream:				Assessed	By:	BIt	AB	RE	
Reach Code:	BLI	32							
Designated Stream T			_						
Site ID:									
		Make All C	Observations	s Facing <i>L</i>)own	stream			
Location of Outfall: brief description of the lo	Cation o	ght Bank 🕅 Lef f the outfall relative	ft Bank Man to roads or of	k and label her landmar	the loo ks.	cation of the out	tfall or	a the <u>map</u> and provide a	
Outfall Type:		ne	T Leak Of	f		'hannel	1		
Flow.	N	one	Trickle			Anderate		Substantial	
Odor		one				ancid / Sour		Sulfur (rotten eggs)	
Denosits / Stains		one		nt Delta		allelu 7 5001	十는	Black	
Benthic Growth		one							
Pine Data: Provide all relevant data							Totalige		
Pine Material:			1 Carner	ated Meta	1			Other 50	
Contributing Source	Contributing Source(s): M Road 7			z Lot	<u>*</u>	Other	X U		
Pipe Outlet:		Perched	ft.				t Stream Level		
ipe Size:		Diameter:	<u>ft.</u>						
# of Pipes:		1						3+	
		<u> </u>		1					
Leak-Off Data: Prov	vide all	relevant data.							
Leak-Off Swale:		C Concrete	□ Asphalt			tone		E Earthen	
Contributing Source	e (s):	Road	D Parking	Lot	Recreational Field		Field	□ Other	
Length of Swale:	ft.		¥.						
Width of Swale:	ft.								
Channel Data: Prov	ide all	relevant data.							
Channel Material:		Concrete	Asphalt			Stone		□ Earthen	
Contributing Source	e (s):	Road	Parking Lo	t 🗆 R	ecrea	tional Field		Other Unknown	
Channel Length:	ft.								
Channel Width:	ft.							-	
Notes: Use the space	provid	led to record imp	ortant obse	rvations o	therw	ise not captu	res o	n this sheet.	
Metal P.	95 .	Conc	Block .			1.1			
From RU	ligent	"I Vue	Likib	Stree		-rols.			

						-	
ourvey Basin Code:				Date: 7	1-9-15		
Name of Stream:	Ber	DEN BROOK		Assessed	By: BH AB	RE	,
Reach Code:	BRA	32					
Designated Stream Ty	ype:						
Site ID:		-					
		Make All C	Observations	Facing L	Downstream		
Location of Outfall: brief description of the loc	Ri cation o	ght Bank Lef f the outfall relative	to roads or oth	k and label her landmar	the location of the out ks.	fall on	the map and provide a
Outfall Tunos	D: D:		T Lool: Of	r.	Channel .	1	
Flow		pe		1			Substantial
Clow:				D Reneid / Sour	┼岩	Substantian	
		one 🗆 Sewage				Sultur (rollen eggs)	
Deposits / Stains		one		it Dena		┼⊢	Black
Benthic Growth X None Brown					Green		Orange
Pipe Data: Provide a		vant data.					C Other
Pipe Material:		E Concrete				1 1 1 1	
Contributing Source	e(s):	Koad					nknown
Pipe Outlet:	-	M Perched	<u> </u>	L Ramped L At Stream L			t Stream Level
Pipe Size:	-	Diameter: 2	ft.				
# of Pipes:	-	<u>R</u> (1		Ц2			+
		,					
Leak-Off Data: Prov	vide al	relevant data.					
Leak-Off Swale:)	Concrete	□ Asphalt		Stone Stone		□ Earthen
Contributing Source	e (s):	Road	□ Parking	Lot	Recreational F	Field	□ Other
Length of Swale: 3	<u>5 ft.</u>	RIF	RAP	· <u> </u>	NIG TO	BI	00K
Width of Swale: (, ft.		0.4	9.7	r ngo		
Channel Data: Provi	ide all	relevant data.		a star a did	- Carlos		
Channel Material:		Concrete	🛛 Asphalt		□ Stone		Earthen
Contributing Source	e (s):	□ Road □ □	Parking Lo	ot 🛛 🗆 R	ecreational Field		Other Unknown
Channel Length:	ft.						
Channel Width:	ft.						
Notes: Use the space	provid	ded to record im	oortant obser	rvations c	otherwise not captu	ires or	n this sheet.

}	_								
Jurvey Basin Code:				Date:	7-9-15				
Name of Stream:	BCL	DEN OR		Assessed	lBy: BH	AB .	RE		
Reach Code:	6	SLA Z					_		
Designated Stream T	ype:								
Site ID:									
		Make All (Observation	s Facing I	Downstream				
Location of Outfall:	R	ight Bank 🛛 Le:	ft Bank Ma	rk and label	the location of the	outfall or	n the <u>map</u> and provide a		
brief description of the lo	cation o	of the outfall relative	to roads or ot	her landmai	rks.				
RIVER R									
	_								
Outfall Type:	🛛 Pi	pe	Leak O	ff	Channel				
Flow:		one	D Trickle		□ Moderate		Substantial		
Odor:	N 🖾	one	□ Sewage		🛛 Rancid / Sou	ır 🗆	Sulfur (rotten eggs)		
Deposits / Stains	Ģ KN	one 🛛 🖾 Sedime		nt Delta	Oily Stain		Black		
Benthic Growth	DN	one	Brown		Green Green		Orange		
Pipe Data: Provide all relevant data.									
Pipe Material:		Concrete	🛛 🖉 Øprfug	ated Meta	d 🛛 🖾 Plastic		□ Other		
Contributing Source	e(s):	💐 Road	Parking Lot		Other		Inknown		
Pipe Outlet:		🛛 Perched	<u> </u>	<u>5</u> ft. 🛛 Ramped			t Stream Level		
Pipe Size:		Diameter: 1.5	ft.						
# of Pipes:		<u>A</u>					<u> </u>		
Leak-Off Data: Prov	vide al	l relevant data.							
Leak-Off Swale:		Concrete	□ Asphalt		🖄 Stone	_	Earthen		
Contributing Source	e (s):	N Road	Parking	Lot	Recreational	Field	□ Other		
Length of Swale: 17	<u>7_ft.</u>								
Width of Swale: 5	ft.								
Channel Data: Provi	de all	relevant data.					r"=-		
Channel Material:		Concrete	☐ Asphalt		Stone				
Contributing Source	e (s):		Parking Lo	ot $\square R$	ecreational Field		Other 🗆 Unknown		
Channel Length:	<u> </u>								
Channel Width:	ft.								
Notes: Use the space	provid	ded to record imp	ortant obse	rvations o	therwise not cap	tures of	n this sheet.		
STONEWS	RK	JWALE,	RANPED	~					

Modified Channel

Survey Basin Code:	Date: 7-9-15
Name of Stream: DELPEN	Assessed By: BH AB RE
Reach Code: BLB-Z	
Designated Stream Type:	
Site ID:	
Make All Observ	vations Facing Downstream
Location / Extent of Modified Channel: Mark a	and label the location of the modified channel on the map and provide a
DowNSTRCAM 3/4	arre to roads of other fandmarks.
/	
Mark where channel modification occurs:	
Meander Bend Image: Straight Section	Steep Slope/Valley Wall
Estimate length of channel modification:	1. O.Y MILES
Estimate height of bank modification:	5 ft.
Expe of Manipulation: Channelization	Bank Armoring Concrete Channel Other
Extent of Manipulation: Right Bank	Image: Section of the section of t
Channel / Bank Materials:	Rip Ran Concrete D Gabions D Metal
mmediately Adjacent Land Use: Mark the land	I use(s) immediately adjacent to the modified section.
Rural Residential Urban Residentia	al Commercial Forested
Suburban Residential 🛛 Industrial	Agricultural Recreational
Existing Width of Ringrian Vegetation. Mark	the average width of ringsign variation to the modified parties
$\Im < 15 \text{ ft}$ $\Box 15 - 35 \text{ ft}$	$35 - 50$ ft $\Box 50 - 100$ ft $\Box > 100$ ft
s there a change in the average width of the acti	ive channel?
s there evidence of sediment deposition in the c	channel? NA 🗆 Yes 🗆 No
s the channel connected to a floodplain?	□ Yes 🖾 No
Notors Use the same manifed to use of image	
voles: Use the space provided to record importa	ant observations otherwise not captures on this sheet.
	Dea Brack
LAWN, FENCE, RIP	RAP ORCOUNT
	A
	11
Thank F	
The p	
1 miles	
1 mil	

Degraded Buffer

Name of Stran	JUUC:				Date:	7-9-1	5			
Name of Stream: BELDEN					Assessed	By:	sit .	18	RE	
Reach Code:	B	LBZ	-				- 1		1-0	
Designated Str	eam Type	2:								
Site ID:					1.1		_			
		Make A		ruotion	Eaging D	nunstra	am			
Location / Fy	tont of Dr	Wake F			is racing D		un			a) p : g
describe the locat	ion of the si)ないいろう	TREAM 3	ls or other	landma	rks. Reach				<u></u>	<i>2) 2</i>
Mark where t	he degra	ded buffer oc	urs.							
☐ Meander Be	nd	🖾 Straight	Section		□ Steep Slo	pe/Valle	/ Wall		Other	
Left Bank					Estimate len	gth of de	graded	buffer:	1	ît
A Right Bank	۲ <u>ــــــــــــــــــــــــــــــــــــ</u>				Estimate len	gth of de	graded	buffer:	1	ît.
Type of Doge	dation									
I oft Ronk.	iuatioli;	Minim		tation	Minime	Width	<u>п</u> т.	avacivo	Dianto	C Other
Dight Donk:			tation		a width		ivasive	Plants		
Right Dank:			al vegel	lation				Ivasive	Plants	
Dominate Land Cover	Paved	Bare Ground	Turf / Lawn		Tall Grass	Scrub / S	Shrub	Trees		Other
Left Bank										
Right Bank			E							
Immediately	Adjacent	Land Use: M	ark the lar	ad use(s) immediately	discent to	tha modi	fied sect	ion	
Left Bank:		Residential		I Use(a	an Residentia		ommer	cial		Forested
Dert Dumt.	Subu	rhan Residenti	al [istrial		gricult	ural		Recreation
 Right Bank•		Residential			an Residentia		ommer	rial		Forested
ingin Dunit.	M Subu	rban Residenti	al [ustrial		griculti	ural		Recreations
		roan residenti					Bricuitt		1	recitation
	h of Ding	arian Vegetati	on: Mark	the ave	erage width of r	iparian veg	etation t	o the mo	dified sect	ion.
Existing Widt	л от ктра		115 _ 3	5 ft		0 ft [\Box 50 -	- 100 ft		> 100 ft
Existing Widt Left Bank:		15 ft. 🛛 🛛	-10 - 0	5 11.	1 - 22 - 2	on.		100 10		100 11



Fish Barrier

			-		,			
Survey Basin Code:			Date: <u>7-</u>	14 -15				
Name of Stream: VEL	Der		Assessed By	KI+		5		
Reach Code: CL	-13 - 3			r				
Designated Stream Type:								
Site ID:			L					
	Make All O	bservation	ns Facing Dow	nstream			-	
Location of Barrier: Mai the barrier relative to roads or o れて C	rk and label the locatio other landmarks. My THROUG	n of the barr	ier on the <u>map</u> a S Acc II	nd provide	a brief	`descripti	on of the loca	tion of
Type of Barrier: Mark the	type of fish harrier.							
Dam			Velocity I	 Barrier			ler	
- Duni			The velocity i	Darrier	_			
Dam Data: Provide all rele	vant data							
Height of Dam: 8 ft	Length of Snillway	v: 20 ft	Shape of Spi	llway: F	7 Stra	ight f	7 Crescent	
Materials: M Stone			one & Concret	te 🗍 🗖	Time	er-Crib		•
Is there other infrastruc	ture associated wi	th the Da	m^2/\mathbb{Z} No f	T Ves (1)	vee m	ork the tu	na balow)	
	Hydro Facility			l Recide	yes ma	<u>ark the ty</u>	Other	
			6		lice			
Culvert Data: Provide all r	elevant data.							
Type of Culvert:	□ Box	□ Pipe		D Pipe	-Arch		C Arch	
Culvert Material:	Concrete	Corru	gated Metal	D Plas	tic		□ Stone	
Culvert Outlet:	Perched:	ft.	Ramped			🗖 Sub	merged	
Culvert Size:	Diameter:	ft.	Height:		ft.	Width	:	ft.
# of Culverts:	Culvert Length	: ft.						
17.1. 19. 19 1 P								
Velocity Barrier Data: I	Provide all relevant dat	a.						
Nature of Barrier:	Grade Control Sill	Con	crete Apron	Cha	nnel C	cross-Se	ction 🛛 🗆	Other
Length of Barrier:	ft. Appro	x. Vertica	l Rise:	ft.				
Notes: Use the space prov	vided to record imp	ortant obs	ervations other	rwise no	capti	ired on t	this sheet.	
was wall t	owe stane	ON	4					
							Developed By	CT-NRCS
								9000

BELDEN BLB - 3

BH + ASHA

7-14-15

2 OUTFAUS

1 AT MAIN ST. BRIDGE RIN R - ROAD RUNOFE 12" CONC. 1 1/10 M South RIV R 8" PUC LAWN PRAVAGE

B.TH PERCIEG O G"

Storm Water Outfall

Survey Basin Code:				Date:	7-1	4-15			
Name of Stream:	BELD	ien or		Assessed	I By:	BRIAN	+ 4	SHA	
Reach Code: Bu	-B - :	3							
Designated Stream T	ype:								
Site ID:									
		Make All (Observation	s Facing I	Dow	nstream	-		
Location of Outfall:	Ri Ri	ght Bank ELe	ft Bank Mai	rk and label	the l	ocation of the ou	tfall c	on the map and provide a	
brief description of the lo	cation c	of the outfall relative	to roads or ot	her landma	rks.			hal.	
1 OUTFACS	17	Dam	- 12" 0	enc in	PV	15716 - 1	1	PRY	
2- A7	r	BRIDGE N	EAN RO	ore HAM	ì	DR. R=	TR	icn le	
	ſ				T	L=	DR	Y	
Outfall Type:	🗷 Pi	pe	Leak Of	ff		Channel		<u> </u>	
Flow:	K N	one	🙇 Trickle			Moderate		J Substantial	
Odor:		one	□ Sewage		Rancid / Sour			□ Sulfur (rotten eggs)	
Deposits / Stains	M N	one 🛛 🗖 Sedime		nt Delta		□ Oily Stain		Black	
Benthic Growth	D (N)	one	Brown		Green] Orange	
Pipe Data: Provide a	Il relev	vant data.	1						
Pipe Material:		E Concrete	Corrug	ated Meta	al	D. Plastic		🗆 Other	
Contributing Source	e(s):	Road	D Parking	g Lot 🛛 Other			Unknown		
Pipe Outlet:		Perched	ft.	□ Ramped			At Stream Level		
Pipe Size:		Diameter:	/ ft.						
# of Pipes:				2			AI:	K 13+	
					_				
Leak-Off Data: Prov	vide all	relevant data.							
Leak-Off Swale:		Concrete	□ Asphalt			Stone		Earthen	
Contributing Source	e (s):	□ Road	Parking	Lot		Recreational F	ield	🗆 Other	
Length of Swale:	ft.								
Width of Swale:	ft.								
Channel Data: Provi	ide all	relevant data.	to case the second	1 all		and the second second	241		
Channel Material:		Concrete	□ Asphalt			Stone		Earthen	
Contributing Source	e (s):	□ Road □	Parking Lo	t 🗆 R	ecre	ational Field		Other Unknown	
Channel Length:	ft.								
Channel Width:	ft.								

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

Reach Level Assessment

	Date(s): 7-	• 14
	Assessed By:	ASHA + BRIAN
	1130-13	20 (INCL. PAPERS AT EN
		C.
servations	Facing Downst	ream
₹Yes 🗆	No, Which section	n(s) were not surveyed? Why?
condition(s),	and indicate the avera	age measurements.
	le * Manipu	lated Channel (piped, lined, etc.)
	Ginde Deptit:	
	Step Height:	6
	Bank Height (Ri	ight Bank): /2 "
	Bank Height (Le	eft Bank): 12
rcentages for	r each substrate type o	bserved
25-50	$\% \square 50-75\%$	1 >75%
25-50	% □ 50-75%	□ >75%
25-50	% □ 50-75%	□ >75%
25-50	%	□ >75%
25-50	% □ 50-75%	□ >75%
25-50	% □ 50-75%	□ >75%
oply.		Area of Company West day
* Tu	rbid (muddy / silty)	Indicate #and type of sheets
*🗆 Mi	ilky	completed for this reach assessme
)		Erosion
		Pish Bamier
		Storm Water Ontfall
n Spots	* Everywhere	Modified Channel
n Spots	* Everywhere	Impacted Builfer
		Trash / Debris
n Snots	* Everywhere	Water Conditions
n Spots	* Everywhere	
		1
f stream cov	ered by tree canony	
1 Sucan Cove	ered by acc canopy.	
	servations Yes condition(s), Glic condition(s), Condition(s)	Assessed By: Assessed By: I 3 0 - 12 servations Facing Downst Yes Do, Which section Condition(s), and indicate the averation Glide *Depth: Step Height: Bank Height (R Bank Height (R Bank Height (R Bank Height (L Content of the section) Step Height: Bank Height (L Step Height: Step Height: Bank Height (L Step Height: Step Height: Bank Height (L Step Height: Step Height: Bank Height (L Step Height: Bank Height (L Step Height: Step Height: Bank Height (L Step Height: Bank Height (L Step Height: Bank Height (L Step Height: Step Height: Bank Height (L Step Height: Step Height: Bank Height (L Step Height: Step Height: Step Height: Bank Height (L Step Height: Step Height: Bank Height (L Step Height: Step Height: Bank Height (L Step Height: Step Height: Bank Height (L Step Height: Step Height

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).

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 🗙	Low	Low	☐ Moderate	□ Moderate	🗆 High	🗆 High			
Grass	Low	Low	☐ Moderate	D Moderate	High	🗆 High			
Shrubs	🖬 Low	Low	☐ Moderate	□ Moderate	🗆 High	🗆 High			
Deciduous Trees	Low	Low	☐ Moderate	□ Moderate	High	High High			
Coniferous Trees	🖾 Low	Low	D Moderate	□ Moderate	🗆 High	DHigh			

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		> ¼ Mile from stream	
CRural Residential	Agricultural	Rural Residential	Agricultural	Rural Residential	Agricultural
Suburban Residential	Forested	Suburban Residential	E Forested	Suburban Residential	Forested
Urban Residential	Recreational	Urban Residential	Recreational	UUrban Residential	Recreational
🖸 Industrial	Other 0	Industrial	Other 🛛		Other 0
Commercial	10	Commercial		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? Yes D No Are there any dams or any other possible natural or artificial barriers to fish migration? Yes D No Are there any storm water outfalls, discharge pipes or discharges within the reach? Indicate IX Yes D No the number observed: Is there any portion of the channel that has been modified (not culvert) (channeled, piped, rip I Yes Z No rap)? Is there any portion of the reach where the riparian buffer has been compromised or is □ Yes No No nonexistent? Is there any portion of the reach that contains trash or other debris (cars, appliances, construction I Yes No No waste)? Is there any portion of the reach that has a change in water conditions? D No 1 Yes

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 INFORSTAUCTURC. ALL NATURALLY OCCURRING MINIMAL TRACH, ONE CAR
Fish Barrier

Survey Basin Code:			Date:				
Name of Stream: BLB	- 3		Assessed By:	•			
Reach Code: BELDE	N Br.						
Designated Stream Type:	_						
Site ID:							
2	Make All C	bservation	s Facing Dow	nstream			
Location of Barrier: Mark the barrier relative to roads or oth	and label the locatio her landmarks.	n of the barri	er on the <u>map</u> an	nd provide a brief	descript	ion of the locatio	on of
Type of Barrier: Mark the b	vne of fish barrier.				-		
Dam			U Velocity I	Barrier		ner	
<u></u>							
Materials: Stone Is there other infrastruct Factory	Z Concrete are associated wi ydro Facility	e Sto ith the Dat Mill	ne & Concret n? 🖾 No 🛛	te D Timb D Yes (If yes ma D Residence	er-Crib ark the ty	pe below) Other Other	_
Guivert Data: Provide all rel	evant data	-o- Junopor I	-11-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-		-		
Type of Culvert:		D Pipe		D Pine-Arch		Arch	
Culvert Material:			pated Metal			☐ Stone	
Culvert Outlet:	D Perched:	ft				hmerged	
Culvert Size:	Diameter	. <u>1</u> ft	Height.	ft	Widtl	1. 1.	f
# of Culverter	Culvert Longth		Treight	4.64	Widti		
Velocity Barrier Data: Pr Nature of Barrier: Def Length of Barrier:	ovide all relevant da Grade Control Sil ft. Appro	ta. 	crete Apron I Rise:	Channel C ft.	Cross-S	ection 🔲 🤇	<u>Other</u>
Notes: Use the space provi	ided to record imp	portant obs	ervations othe	rwise not captu	ired on	this sheet.	
Two steps	- 6", "	3,51					
5							



Reach Level Assessment

Survey Basin Co	ode:			Date(s):		
Name of Stream	: BELDEN	<u> </u>		Assessed By:	PSHA	BRION
Reach Code:	RIR	-4		720 - 2	64	
Designated Stre	am Type:	1				
1	<u> </u>	Make All Obs	ervations	Facing Downst	ream	
Was the entire r	each of stream	surveyed?	Ves []]	No. Which section	n(c) were	not surveyed? Why?
	each of baccult			ivo, winen seetto	n(a) were	not surveyed: why?
Channel Morp	hology: Mark-th	e predominate co	ondition(s), a	and indicate the aver	age measur	ements
D Step-Pool	De Pool-Riffle	Run	Glid	e * Manipu	ilated Cha	annel (piped, lined, etc.)
Active Channel	Width:	5 (1-81)	Glide Depth:		
Riffle Depth:	1	2	1	Step Height:	4"	
Pool Depth:	1			Bank Height (R	ight Bank): 1.5'
Run-Depth:				Bank Height (L	eft Bank):	1.5
Substrate Com	nosition: Mark	nanovimata nan	anntanas fa-	anali auliaturta tura		
Silt or Clay	C Stron. Mark	approximate per	Centages for	each substrate type $\frac{1}{1}$	observed.	4
Sand	□ <5%	X 5-25%	25-50		1 >750	0
Gravel (0.1-2 inch	nes) $\Box < 5\%$	⊠ 5-25%	25-509	6 D 50-75%		
Cobble (2-10 inch	nes) 🗆 <5%	5-25%	25-50%	% □ 50-75%	□ >75%	0
Boulder (>10 incl	hes) 🗆 <5%	5 -25%	25-509	% □ 50-75%	□ >75%	6
Bedrock	□ <5%	□ 5-25%	25-509	% □ 50-75%	□ >75%	6
Departies Weter	Q. 114		_			
Describe water	Conditions:	Mark all that app	ly.			rea of Concern Worksheets
*□ Green *[Rusty-Red	tea)		Old (muddy / silty)	-	indicate # and type of sheets
* Odors *	\Box Other (form d	ves chemicals)		Ку	-	Brosion
		iyes, elletinears)				Fish Barrier
Aquatic Plants	in Stream:				S	tonn Water Outfall
Floating: (e.g. du	ck weed)	bsent 🗆 In	Spots	*□ Everywhere	-	Modified Channel
Attached: (e.g. w	ater lily)	bsent (🖾 In	Spots	* C Everywhere		Impacted Buffer
Algae in Stream	n:					Trash / Debris
Floating: (e.g. pla	nktonic)	bsent 🗆 In	Spots	* Everywhere		Water Conditions
Attached: (e.g. fil	lamentous)	bsent 🛛 In	Spots	* Everywhere		
						_
Canopy Cover:	Mark approxima	te percentage of	stream cove	red by tree canopy.		
Del >13% covere	a LL <u>/5</u> -50%	covered []	50%-25%	covered $\square < 2$	5% cover	ed
Note: Items	marked with a	n asterisk (*) i	ndicate a	potential area of o	concern.	Please record all relevant

information on the appropriate Area of Concern Worksheet(s).

Reach Level Assessment

The stream of the average density of vegetation in the first 35 feet adjacent to the stream for both banks.											
Riparian Vegetation: Characterize me average density of Vegetation Right Bank Left Bank Right Bank Right Bank											
	Left Dank	Let ow	Der Dunit	D Moderate	D High	🗆 High					
Turt Grass Marc L	E Low		☐ Moderate	☐ Moderate	🗆 High	High					
Grass X	LILOW	S Low	☐ Moderate	☐ Moderate	🗆 High	High					
Shrubs	LOW	LOW		☐ Moderate	High	D High					
Deciduous Trees	LILOW	L LOW		D Moderate	High	High					
Coniferous Tree		LIBLOW	I Intoderate		James Brit						

1	Surrounding	Land I	Ise.	Mark the	dominate l	and use(s)	for each	"zone",	, if known o	or observed.

Surrounding Lan	- the stream	<1/ Mile from stre	am	>¼ Mile from stream		
Immediately adjacent to stream		19 Dural Decidential	T Agricultural	Rural Residential DAgricultur		
Rural Residential	LI Agricultural	C Suburban	R Forested	B.Suburban	E.Forested	
□ Suburban	Suburban I orested			Residential		
Residential	LiRecreational	Urban Residential	Recreational	DUrban Residential	Recreational	
Clusterial	Other		D Other	🖸 Industrial	🗆 Other	
El Commercial	Gould	Commercial		Commercial		

Areas of Concern Checklist: Marking 'Yes' to any of the following questions indicates that an Area of	leet.	orksileet
should be filled out for the appropriate concern. For each occurrence observed, comparison of streambed instability within the reach?	D Yes	N O
Is there evidence of either stream bank crossion of streambed modernity from migration?	Yes	D No
Are there any storm water outfalls, discharge pipes or discharges within the reach? Indicate	🕅 Yes	🗆 No
the number observed: 2 Is there any portion of the channel that has been modified (not culvert) (channeled, piped, rip	🗆 Yes	DA No
rap)? Is there any portion of the reach where the riparian buffer has been compromised or is	🔯 Yes	D No
nonexistent? Is there any portion of the reach that contains trash or other debris (cars, appliances, construction	🗆 Yes	K No
waste)?	□ Yes	No

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

Reach Level Assessment

Survey Dasin Code:	Date(s): 7-	14-15		
Reach Code: B: D - F	<u> </u>	Assessed By:	K,A	
Designated Stream Type:	_	3-33	o rm	
Make All Obs	amotions	Fasing Downey	waam	
Was the entire reach of stream surveyed?		No. Which coatio	reum	aumioused 0, 11/hu 9
was the entire reach of stream surveyed?	IES	No, which sectio	n(s) were not	surveyed? why?
STREAM WIDTH / 12."	DLP-	TH 0 7.7	" HAR	D TO TRACK
Meri Andres to	I C.	10 2 - 5	1	
VILY WARSHY, TIHC	r U	NUCRSTIF	4 - NO	NEED TO REVIS
Channel Morphology: Mark the predominate co	ndition(s).	and indicate the aver	age measuremen	ts MARINY TRIC
□ Step-Pool □ Pool-Riffle □ Run	Glio	de * Manipu	lated Channe	l (piped, lined, etc.)
Active Channel Width: 121		Glide Depth:		
Riffle Depth: 2"-3"		Step Height:		
Pool Depth: 2"-3"		Bank Height (R	ight Bank):	23"
Run Depth:	-	Bank Height (L	eft Bank):	13"
Substrate Composition Mathematicat			1. 1	
Silt or Clay	centages to	oz ach substrate type	observed.	
Sand $\square \leq 5\%$ $\square 5-25\%$	D 25-50		D >75%	LOV OF OCG
Gravel (0.1-2 inches) $\Box \leq 5\%$ $\Box \leq 5.25\%$	□ 25-50 □ 25-50		□ >75%	MUCK
Cobble (2-10 inches) $\Box < 5\%$ $\Box 5-25\%$		% □ 50-75%		
Boulder (>10 inches)	□ 25-50	% 🛛 50-75%	□ >75%	
Bedrock □ <5% □ 5-25%	25-50	% 🗆 50-75%	□ >75%	
Describe Water Conditioner Mathematic	1			
Glear Stained ("iced tea")	<u>iy.</u> *Г ТТь	urbid (muddu / siltu)	Area	of Concern Worksheets
Green * Rusty-Red		ilkv	comp	leted for this reach assessment
[*] □ Odors [*] □ Other (foam, dyes, chemicals)			-	Erosion
(com, s),				Fish Bamier
Aquatic Plants in Stream:			Storn	a Water Outfall
rloating: (e.g. duck weed)	Spots	* Everywhere	Mi	diffed Channel
Attached: (e.g. water lily)	Spots	*LI Everywhere	Ti	mpacted Buffer
Algae in Stream:			- the second	Trash / Debris
Floating: (e.g. planktonic) 🛛 🖾 Absent 🛛 In	Spots	* Everywhere	w w	ater Conditions
Attached: (e.g. filamentous) 🕅 Absent 🛛 In	Spots	* Everywhere		
				1
Canopy Cover: Mark approximate percentage of	stream cov	ered by tree canopy.		
× 15% covered □ 75-50% covered □	50%-25%	o covered □ < 2	25% covered	

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 🗙	Low [Low	☐ Moderate	☐ Moderate	🗆 High	🗆 High				
Grass	Low [Low	☐ Moderate	□ Moderate	A High	🗷 High				
Shrubs	□ Low	Low Low	☐ Moderate	D Moderate	UX High	High High				
Deciduous Trees	Low [Low	Moderate	Moderate	High	🗆 High				
Coniferous Trees	Low	Low	☐ Moderate	D Moderate	DHigh	High				

Surrounding Land Use: Mark the dominate land use(s) for each "zone", if known or observed.										
Immediately adjac	ent to stream	< 1/4 Mile from stre	Mile from stream >1/2 Mile from stream							
D _i Rural Residential	Agricultural	Rural Residential	□ Agricultural	Rural Residential	Agricultural					
Suburban Residential	Forested	Suburban Residential	Forested	D Sübürban Residential	A Forested					
Urban Residential	Recreational	Urban Residential	Recreational	[]Urban]Residential	□Recreational					
🗆 Industrial	Other Other	🗖 Industrial	□ Other	Industrial	Other 0					
Commercial		Commercial		Commercial						

Areas of Concern Checklist: Marking "Yes" to any of the following questions indicates that an Area of	Concern W	orksheet						
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?								
Are there any dams or any other possible natural or artificial barriers to fish migration?	🗆 Yes	No						
Are there any storm water outfalls, discharge pipes or discharges within the reach? Indicate the number observed:	□ Yes	No						
In these environmentations of the channel that has have a fifth of the share of the		1						
rap)?	LI Yes	HA NO						
Is there any portion of the reach where the riparian buffer has been compromised or is nonexistent?	🗆 Yes	No						
Is there any portion of the reach that contains trash or other debris (cars, appliances, construction waste)?								
Is there any portion of the reach that has a change in water conditions?	• Yes	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



820.478-1264

Reach Level Assessment

Survey Basin	Code:				<u>.</u>	D	ate(s): 4/17	115		11:20
Name of Stre	am:	Fas.	Break			A	ssessed By:	2= 13	28/11	6
Reach Code:	F	BI				· ·			PILC	· I.J
Designated S	tream 1	Type:							_	
			Make	All Obse	ervations	Fac	ing Downst	ream	1	1
Was the entir	e reach	of stre	am survey	ed?	Yes 🛛	No.	Which section	1(s) w	ere not	surveyed? Why?
						,		-(-)		
Channel Mo	rpholo	gy: M	ark the predo	minate co	ndition(s),	and	indicate the avera	ge mea	surement	S.
Step-Pool		Pool-I	Riffle D] Run	B Glid	le	* Manipu	lated (Channel	(piped, lined, etc.)
Active Chann	nel Wid	th:	6'			G	lide Depth:	6"		
Riffle Depth:						St	ep Height:			
Pool Depth:						B	ank Height (Ri	ght Ba	ank):	
Run Depth:						B	ank Height (Le	ft Bar	ık):	
Substrata Co	mnosi	tion	Mark anarovi	mate nor	antagas fa		h cubetrata turra a	branic	4	
Silt or Clay	mposi			25%		%	\square 50-75%		75%	
Sand	-		% П.5-	25%	25-50	%	[3t 50-75%		75%	
Gravel (0 1-2	inches)		% X 5.	25%	25-50	%	□ 50 _{-75%}		75%	
Cobble (2-10)	inches)		% RT 5-	25%	25-50	%	<u> </u>		75%	
Boulder (>10	inches)	E <5	% 05-	25%	25-50	%	□ 50-75%		75%	
Bedrock		□ <5	% 🗆 5-	25%	25-50	%	□ 50-75%		75%	
D										
Describe Wa	ter Co	nditio	ns: Mark al	that app	ly.				Area	of Concern Worksheets
* Clear		ined (*	iced tea")			rbic	(muddy/silty)		In	licate # and type of sheets
		usty-K	ed			іку			compi	Leader assessment
	UU	iner (fo	oam, dyes, ch	emicals)						Erosion Frida Branier
Aquatic Plan	nts in S	tream	•						Stor	Water Ortfall
Floating: (e.g.	duck w	eed)	Absent	In In	Spots	*[Everywhere		Mo	dified Channel
Attached: (e.g	g. water l	ily)	Absent	In In	Spots	*	l Everywhere		Ir	npacted Buffer
										Trash / Debris
Algae in Stro	eam:		17 A h		C	*	I Taxana da a		W	ater Conditions
rioaung: (e.g.	plankto	nic)	HADSent		Spots Spots		Everywhere			AL STREET
Attached: (e.g	g. filamei	ntous)	PS-Absent		Spots	<u> </u>	Everywhere]		
Canopy Cov	er: Ma	irk appro	oximate perce	ntage of	stream cove	ered	by tree canopy.			
🖻 >75% cov	ered	75-	50% covere	d 0:	50%-25%	00 co	vered $\square < 2$	5% co	vered	
				• • •					-	····
Note: Ite	ms ma	rked w	nth an aster	1sk (*) i	ndicate a	pot	ential area of c	oncer	n. Plea	se record all relevant
	-	.ini	cormation o	n the ap	propriate	Ar	ea of Concern	Works	sneet(s)	

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 Righ										
Turf Grass	□ Low	Low	D Moderate	☐ Moderate	A High	D'High				
Grass	Low	Low	☐ Moderate	□ Moderate	🗆 High	🗆 High				
Shrubs	Low	Low	A Moderate	K Moderate	🗆 High	🗆 High				
Deciduous Trees	Low Low	Low	Moderate	Moderate	🗆 High	High				
Coniferous Trees	Low	Low	☐ Moderate	□ Moderate	High	I High				

Surrounding Land Use: Mark the dominate land use(s) for each "zone", if known or observed.									
Immediately adjace	ent to stream	< 1/4 Mile from stre	am	> 1/4 Mile from stream					
Rural Residential	Agricultural	Rural Residential	Agricultural	Rural Residential	Agricultural				
Suburban Residential	□ Forested	Suburban Residential	□ Forested	Suburban Residential	DiForested				
Urban Residential	DiRecreational	Urban Residential	Recreational	Urban Residential	Recreational				
	🗆 Other	🗖 Industrial	Other	E Industrial	D Other				
E-Commercial		Commercial		E 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?	I Yes	🗆 No						
Are there any dams or any other possible natural or artificial barriers to fish migration?	Yes	D No						
Are there any storm water outfalls, discharge pipes or discharges within the reach? Indicate	E Yes	🗆 No						
the number observed:								
Is there any portion of the channel that has been modified (not culvert) (channeled, piped, rip	I Yes	🗆 No						
rap)?								
Is there any portion of the reach where the riparian buffer has been compromised or is	Yes Yes	D No						
nonexistent?								
Is there any portion of the reach that contains trash or other debris (cars, appliances, construction	I Yes	K.No						
waste)?								
s there any portion of the reach that has a change in water conditions?								

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

Trash / Debris

Survey Basin Code:		Date:		
Name of Stream:		Assesse	d By:	
Reach Code:				
Designated Stream 7	Гуре:			
Site ID:				
	Make All	Observations Facing D	Downstream	
description of the locatio	I Trash or Debris: Non relative to roads or othe	fark and label the location o er landmarks	f the trash or debris on the <u>m</u>	ap and provide a brie
U Within Stream	🗆 Riparian A	Area: 🗆 Left Bank 🛛	Right Bank	
T			1	
Type:			☐ Industrial	
waterial:	LI Plastic		Appliances	
	□ Paper			
Source				
	+ L U H K H	L Flooding	LI Illegal Dumning	I I I Local Outfall
Land Ownership:				
Land Ownership: Notes: Use the space	Private provided to record i	Public mportant observations	Otherwise not captures o	n this sheet.
Land Ownership: Notes: Use the space	Private	Public	otherwise not captures o	n this sheet.

C

Erosion Assessment

Survey Basin Co	de:				Date:	4			
Name of Stream:					Assessed	By:			
Reach Code:									
Designated Strea	m Type:			. =					
Site ID:						~			
Langer		Make	All Obs	servations	Facing Da	ownstre	eam		
Location of Ban site relative to roads	k Erosion or other lar	1: 1) Mark Idmarks.	and label	the location	of the erosion	n on the <u>m</u> a	<u>ap</u> . 2) Brie	fly descri	be the location of the
Mark where ero	sion is oc	curring:							
☐ Meander Bend	1	🗆 Straig	ght Section	on	🗆 Steep	Slope/Va	lley Wall		ther
Site Dimensions	: Indicate a	ll annlicable	measurer	nents associ	nted with the	arosion elt			
Length:	Left Ban	k:	ft.	Right Ba	nk:	erosion sit	ft		
Bank Height: Left Bank: ft Right B			Right Ba	nk:		ft			
Bank Angle:	Left Ban	k:	deg.	Right Ba	nk:		deg.		
NT72 - 4 1- 41 -	1 1/ 17								
What is the property $\Box < 15.6$	ximity of	the erosic	on site to	<u>) infrastru</u>	icture (e.g.	road, bridg	e, building	<u>, etc.)?</u>	
$\Box < 15 \text{ ft.}$	<u> L 15</u>	30 ft	Ц 30 -	45 ft	<u> Ll 45 – 6</u>	0 ft	LI 60 - 1	<u>00 ft</u>	$\square > 100$ ft.
Immediately Ad	jacent La	and Use:	Mark the	land use(s) i	mmediately a	adiacent to	the erosion	site.	
□ Rural Residen	tial	🛛 Urba	n Reside	ntial	Comm	nercial		□ Fore	sted
🗆 Suburban Res	idential	🛛 Indus	strial		🛛 Agricı	ltural		C Reci	reational
Land Ownershi	D* Mark lar	nd our om hi							
Dana Ownershi	p. mark lai	iu ownersm	\square Priv	cation of the	erosion site.		U Unkn	011/17	
			UTIN.				L UIKI	UWII	
Existing Width	of Ripari	an Vegeta	ation: Ma	ark the avera	ge width of r	riparian veg	getation at t	he erosio	n site.
\Box < 15 ft.		<u>5 – 35 ft.</u>		□ 35 - 50	<u>) ft.</u>	□ 50 -	- 100 ft		> 100 ft
Notes: Use the spa	ce provided	to record in	mortant	hearuntione	othomuico ne	•			
	ee provided	to record n	nportant o	USCI VALIONS	otherwise no	t captured (on this snee	:.	
						_			

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 Observatio	ns Facing Downstream						
Location / Extent of Visual on the <u>map</u> . 2) Briefly describe	Water Conditions and/or Ex the location of the site relative to	cessive Plant or Algae Growth: o roads or other landmarks.	1) Mark and label the	e location				
Immediately Adjacent Land	Use: Mark the land use(s) in	nmediately adjacent to the modifi	ied section					
Rural Residential	\Box Urban Residential		Forested					
Suburban Residential								
Describe Water Conditions:	: Mark all that apply.							
Clear Stained ("ice	d tea") 🛛 🗖 Turbid (muddy	//silty) 🛛 Odors						
Green Rusty-Red	🗆 Milky	□ Other (foam, dyes,	chemicals)					
Canopy Cover: Mark appro □ >75% covered □ 75-50 Aquatic Plants in Stream: Floating: (e.g. duck weed) Attached: (e.g. duck weed) Attached: (e.g. water lily) Algae in Stream: Floating: (e.g. planktonic) Attached: (e.g. filamentous) Is the change in water conditi storm water outfall? Is the change in water conditi channel dimensions (depth & Is the change in water conditi / dam on the stream? Notes: Use the space provide	ximate percentage of stream co % covered 50%-25% Absent In Spots Absent In Spots Absent In Spots Absent In Spots Absent In Spots on or excessive plant / algae gons or excessive plant / algae width)? ons or excessive plant / algae gons or excessi	overed by tree canopy. covered Covered Everywhere Everywhere Everywhere Everywhere rowth located at or directly below growth associated with a change growth associated with an impou tions otherwise not captures on th	v a Que Yes in Que Yes ndment Que Yes is sheet.	□ No □ No □ No				
)				_				

Storm Water Outfall

Survey Basin Code:	Date: $g / 13 / 15 = 10 - 1/3 $					
Name of Stream: Farm Brook	Assessed	By: FE /2B/	LCD			
Reach Code: FB1						
Designated Stream Type:						
Site ID:			÷.			
Make All Observati	ions Facing D	ownstream				
Location of Outfall: A Right Bank I Left Bank brief description of the location of the outfall relative to roads o	Mark and label to r other landmark	the location of the outf ks.	fall on the map and provide a			
Our falls are marked on map	us st	D - there a	re at least 23			
throughour the reach. M.	ustly Stra	set or lawn d	raiwage			
,						
Outfall Type: 🛛 Pipe 🗖 Leak	Off	Channel				
Flow: 🔄 None 🖸 Trick	kle	Moderate	Substantial			
Odor: 🛛 None 🗖 Sewa	age	🗆 Rancid / Sour	D Sulfur (rotten eggs)			
Deposits / Stains 🛛 None 🔲 Sedi	ment Delta	Oily Stain	Black			
Benthic Growth 🛛 None 🗆 Brow	vn	Green	□ Orange			
Pipe Data: Provide all relevant data.	- 16 · · ·	11-	1			
Pipe Material: 🛛 Concrete 🖾 Cor	rugated Meta	l 🖾 Plastic	D-Other			
Contributing Source(s): ZRoad DPar	king Lot	D Other	🖻 Unknown			
Pipe Outlet: Perched f	t. 🛛 🛛 Ramp	ed	At Stream Level			
Pipe Size: Diameter: 1 "- 3 ft.						
# of Pipes: □ 1			(23)			
Leak-Off Data: Provide all relevant data.	- 11 A					
Leak-Off Swale:	halt	□ Stone	Earthen			
Contributing Source (s): □ Road □ Park	ing Lot	□ Recreational F	ield 🛛 🗖 Other			
Length of Swale: ft.						
Width of Swale: ft.						
Channel Data: Provide all relevant data						
Channel Data. 110vide all relevant data.	alt 🛛 Stone 🗆 Earthen					
Channel Material: Concrete Asp	halt	L Stone				
Channel Material: Concrete Asp Contributing Source (s): Road Parking	halt $\Box R$	Creational Field	Other Unknown			
Channel Material: □ Concrete □ Asp Contributing Source (s): □ Road □ Parking Channel Length: ft. □	halt $\Box R$	Creational Field	Other Unknown			

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

Degraded Buffer

Course Desta C	7. 1										
Survey Basin Code:					Date:	8/1	3/15		10 1	3.	
Name of Stream	n: Far	BROOK			Assessed	l By	: ps/	201	40		
Reach Code:											
Designated Str	eam Type	e:									
Site ID:			-								
		Make	All Ob	convetion	Teoling D	0142	netroc	11/1		-	
Location / Ext	ont of D	agreeded Duff		Servation	is racingar		I WIICU				
describe the locati	ion of the s Ent	ite relative to roa	ds or ot	her landma	arks.		uie degra		iller on the <u>m</u>	<u>14p</u> .	2) Briefly
Mark where t	he degra	ded buffer oc	curs.								
Meander Be	nd	🔄 🗆 Straigh	nt Secti	on	□ Steep Slo	ppe/	Valley V	Wall	🗆 Otł	ıer	
🛛 Left Bank					Estimate ler	ngth	of degr	aded	buffer:		ft 59 m.
🖾 Right Bank					Estimate ler	igth	of degr	aded	buffer:		ft. 159
Type of Degra	idation:										
Left Bank: Minimal Vegetation				getation	- Minim	🛛-Minimal Width 🛛 Invasive Pla			nts	Other	
Right Bank:		🗆 Minin	nal Ve	getation	🛛 🖪 Minim	al Width 🛛 Invasive Pla			nts	C Other	
Dominata	David										
Land Cover	Faveu	Bare Ground		[/	Tall Grass	Scrub / Shrub		Irees		Other	
Land Cover		<u> </u>	Law	/n 							
Dish4 Dank					<u> </u>	<u>_</u>					
Right Bank											
Immediately A	Adjacent	Land Use: M	fark the	land use(s) immediately	adia	cent to the	a modi	Find continu		
Left Bank:		Residential			an Residenti	aujau al		nmer	nieu secuon.		Forested
	Subu	rhan Resident	ial		arrial	a1		ioult.	ural	븜	Poresteu
Right Bank		Residential	.141						Recreational		
rubit Dank.	Subu	rban Basidant	int		all Residenti			niner		님	Porested
		a ball Resident			Istrial			riculti	Iral		Recreational
Existing Widt	h of Ripa	arian Vegetat	ion: M	ark the av	erage width of	rinar	- ian veget	ation t	o the modifie	d sec	tion
Left Bank:	<u></u> <u></u>	15 ft.	□ 15 -	- 35 ft.	$\Box 35 - 5$	0 ft		1 50 -	- 100 ft		> 100.6
Right Bank:	> 🖸	15 ft.	\Box 15 -	- 35 ft	$\Pi 35 - 5$	0 ft		1 50 -	- 100 ft		> 100 ft
						0 10	• [5		100 11	-	100 11
Notes: Use the	space pr	ovided to reco	rd imp	ortant ol	oservations of	the	rwise no	ot cap	tures on thi	s sh	eet.
)					<u></u>						

С

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Fish Barrier

Survey Basin Code:			Date: 8	1.	2/15 1	0-11.3		
Name of Stream: Farm	Bruck		Assessed	$\overline{\mathbf{B}\mathbf{v}}$:	DELZBI	LCD		
Reach Code: F81] -				
Designated Stream Type:								
Site ID:								
	Make All Ob	servation	s Facing D	owi	nstream	-		
Location of Barrier: Mark the barrier relative to roads or ot 2 Fish	and label the location of her landmarks. Barriers ! De	of the barri	Culver	p an	d provide a brief	descript	ion of the locatio	m of
Type of Barrier: Mark the t	vpe of fish barrier.							
☐ Dam	S Culvert		U Velocit	tv B	Barrier	🗆 Otł	ner	
L	[<u></u>	-						
Dam Data: Provide all relev	ant data.		and the second s					- 14
Height of Dam: 2 ft. L	ength of Spillway:	ft.	Shape of S	pill	lway: 🗆 Stra	ight l	Crescent	
Materials: Stone	Concrete	□ Sto	one & Conc	rete	e K Timb	er-Crib	O Other	
Is there other infrastruct	ure associated with	the Dar	n? 🖾-No] Yes (If yes ma	ark the ty	pe below)	
□ Factory □ F	lydro Facility 🛛 🛛 🗖] Mill			Residence		🗆 Other	
Culvert Deter p 11 11		Concernance of	Poliquert	-		ar weathing to-		
Type of Culverte	levant data.	Dine.			E Dies Aud	-		
Culvert Motorial					Dipe-Arch			
Culvert Qutlet:	Dorahadi		Bated Metal Flastic				L Stone	
Culvert Size:	Diamatar:	11. 1 A	Llaight.	a	<u>6</u>		omergea	
# of Culverts: 2	Culvert Longth:	r II.	rieight.		11.	widin	1	<u> </u>
	Culvert Lengen.	60 IL.	1	_				
Velocity Barrier Data: P	rovide all relevant data.	1.10	Contras -	_				
Nature of Barrier:	Grade Control Sill		crete Apron	1	Channel C	ross-Se	ection 🛛 🗆 C)ther
Length of Barrier:	ft. Approx.	Vertical	I Rise:		ft.			
Notes: Use the space provi	ided to record impor	rtant obse	ervations of	her	wise_not captu	ired on	this sheet.	
							Developed By (Jan	CT-NRCS uary 2008

Modified Channel

Survey Basin Code:		Date:	8/13/15 10	-11:30				
Name of Stream: Farm	Brook	Assessed	Assessed By: RE/ZB/LCD					
Reach Code: FB1								
Designated Stream Type:								
Site ID:								
1	Make All Observat	ions Facing D	ownstream		100			
Location / Extent of Modi	ified Channel: Mark and	l label the location	of the modified chan	nel on the map a	and provide a			
brief description of the location of	of the channel section relativ	e to roads or othe	er landmarks.					
Entire fe	ach							
Mark where channel mod	lification occurs:							
Meander Bend	Straight Section	🗌 🗆 Steep	Slope/Valley Wal	1 🛛 Other				
Estimate length of channe	el modification: . 59	ft. miles						
Estimate height of bank n	nodification: 2	ft.						
Type of Manipulation:	Channelization [Rank Armor	ing 🛛 🖾 Concrete	Channel	Other			
Extent of Manipulation:	Right Bank	Left Bank		Bottom				
Channel / Bank Materials	s: 🖾 Natural 🛛 🖾	Rip Rap	Concrete D	abions [Metal			
				[-				
Immediately Adjacent La	nd Use: Mark the land us	se(s) immediately	adjacent to the modifi	ed section.				
	Urban Residential	Comr	nercial	☐ Forested				
Suburban Residential		☐ Agric	ultural	Recreatio	nal			
Existing Width of Riparia	In Vegetation: Mark the	average width of	rinarian vegetation to	the modified sec	tion			
🖾 < 15 ft. 🛛 🗆 15	$5 - 35$ ft. $\Box 35$	= 50 ft.	\Box 50 – 100 ft	$\square > 10$	1011. 10 ft			
Is there a change in the ave	rage width of the active	channel?	☐ Yes / Estimate	Width: ft	🖾 No			
Is there evidence of sedime	nt deposition in the cha	innel?	□ Yes		No No			
Is the channel connected to	a floodplain?		□ Yes		🗹 No			
Notes: Use the space provid	ded to record important	observations	therwise not capt	res on this sh	eet			
riotest obe ale space provi	ded to record important	. observations e	inci wise not capit	ites on uns si				
One Section	on bfs wall 1	(R Bunk)	Martha r	A FRA				
		~ /		'E ' ~ E				

AUTUMN RIDGE RD, HAMDEN



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Reach Level Assessment

Survey Basin	Code					ata(a). al.	-		
Name of Stee					Date(s): \$/13/15 1 15 = 2 30				
Reach Code:	alli. Farw	Brook				ssessed By:	25/2	BILCO)
Designated S	tream Type	-							
Designated 5	arcan Type.	361-4	11 01		T.	· Down			
117 -1	1 6	Make A	II Obse	rvations	Fac	ing Downst	rean	1	
Was the entir	re reach of st	ream surveyed	dy 🖂 y	Yes L	No,	Which section	n(s) w	ere not	surveyed? Why?
L	arge pat	ches of n	narsh	inp	~ 5	rible -	app.	ears	to be mustly
h	serland			· ·					
Channel Mo	rphology: N	Aark the predom	inate con	dition(s),	and	indicate the avera	ige mea	suremen	ts.
LI Step-Pool		-Riffle	Run	🛛 🖾 Glio	le	*□ Manipu	lated	Channe	(piped, lined, etc.)
Active Chanr	nel Width:	3			G	lide Depth: 4	6 "		
Riffle Depth:					St	ep Height:			
Pool Depth:					B	ank Height (Ri	ght B	ank):	
Run Depth:					B	ank Height (Le	eft Ba	nk):	
Substrate Compositions Mark annuints and for the last of the									
Silt or Clay			5%	25_50	0/	I Substrate type t		a. 75%	
Sand		5% D 5-2	5%	- 25-50 FI 25-50	0%			75%	
Gravel (0.1.2	inches) K	5% D 5-2	5%		0/			750/	
Cobble (2-10)	inches) by <	5% □ 5-2	5%		0/0	$\Box 50-75\%$		75%	
Boulder (>10	inches) $\square <$	5% D 5-2	5%	$\Box 25-50$ $\Box 25-50$	0/0	$\Box 50-75\%$		75%	
Bedrock		5% 15-2	5%	□ 25-50	%	$\Box 50-75\%$		75%	
			570 [70,8			1,570	
Describe Wa	ater Conditi	ons: Mark all (that apply	/.				Area	of Concern Worksheets
Clear	□ Stained (("iced tea")		*🗆 Tu	rbid	(muddy/silty)		In	dicate shand type of sheets
*□ Green	* KRusty-I	Red		* □ Mi	ilky			compl	eted for this reach assessment
*□ Odors	* Other (foam, dyes, cher	nicals)					2 1	Erosion
Aquatia Pla	nto in Stugo-						1	7	Fish Barrier
Floating: (a.g.	duck wood)	II:		Snots	*	Evenushare		Stom	Water Ouffall
Attached: (a.g.	. duck weed)	Absent		Spots	*	Everywhere		Mo	diffed Channel
Fritacticu. (e.g	s. water my)	L Absent		spors	· L	Lverywhere	1	. Li	Inpacted Butter
Algae in Str	eam:						1		Trash / Debris
Floating: (e.g. planktonic) Absent In Spots * Everywhere Water Conditions								ater Conditions	
Attached: (e.g	g. filamentous)	Absent	🖾 In S	Spots	*	Everywhere	1		
0									
Canopy Cov	er: Mark app	roximate percen	tage of st	tream cov	ered	by tree canopy.		_	
□ >/5% COV	ered 1 KL 75	-50% covered		0%-25%	o CO	vered $ \Box < 2$	5% co	overed	
Note: Ite	ms marked	with an asteris	sk (*) in	idicate a	pot	ential area of c	concer	n. Plea	se record all relevant
	ir	nformation on	the apr	propriate	Ar	ea of Concern	Work	sheet(s)	

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	🖾 Low	Low	☐ Moderate	□ Moderate	🗆 High	I High			
Grass	Low	Low	☐ Moderate	□ Moderate	High High	High			
Shrubs	Low	Low	☐ Moderate	□ Moderate	High High	E High			
Deciduous Trees	Low	Low	☐ Moderate	☐ Moderate	E High	High			
Coniferous Trees	Low	Low	☐ Moderate	□ Moderate	High	DHigh			

Surrounding Land Use: Mark the dominate land use(s) for each "zone", if known or observed.										
Immediately adjace	ent to stream	4 Mile from stre	am	>1/1 Mile from stream						
Rural Residential	Agricultural	Rural Residential	Agricultural	Rural Residential	Agricultural					
A Suburban Residential	Forested	Suburban Kesidential		Silburban Residential	Forested					
Urban Residential	Recreational	Urban Residential	Recreational	Urban Residential	AlRecreational					
Industrial	Other	🛛 🖾 Industrial	C Other	🗆 Industrial	Other					
Gommercial	Gommercial									

Areas of Concern Checklist: Marking "Yes" to any of the following questions indicates that an Area of (Concern W	orksheet
should be filled out for the appropriate concern. For each occurrence observed, complete and area of concern sho	eet.	
Is there evidence of either stream bank erosion or streambed instability within the reach?	🗆 Yes	D No
Are there any dams or any other possible natural or artificial barriers to fish migration?	I Yes	🗆 No
Are there any storm water outfalls, discharge pipes or discharges within the reach? Indicate	Yes Yes	D No
the number observed:		
Is there any portion of the channel that has been modified (not culvert) (channeled, piped, rip	□ Yes	🖾 No
rap)?		
Is there any portion of the reach where the riparian buffer has been compromised or is	□ Yes	🖪 No
nonexistent?		
Is there any portion of the reach that contains trash or other debris (cars, appliances, construction	🗆 Yes	🗵 No
waste)?		_
Is there any portion of the reach that has a change in water conditions?	I Yes	🗆 No
Are there any dams or any other possible natural or artificial barriers to fish migration? Are there any storm water outfalls, discharge pipes or discharges within the reach? Indicate the number observed: Is there any portion of the channel that has been modified (not culvert) (channeled, piped, rip rap)? Is there any portion of the reach where the riparian buffer has been compromised or is nonexistent? Is there any portion of the reach that contains trash or other debris (cars, appliances, construction waste)? Is there any portion of the reach that has a change in water conditions?	 ✓ Yes 	

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

Erosion Assessment

Survey Basin Co	de:				Date:				
Name of Stream	:				Assessed	By:			
Reach Code:									
Designated Strea	ım Type:							-	
Site ID:									
		Make	All Obs	servations	Facing Dc	ownsti	ream		
Location of Bar site relative to roads	k Erosion or other land	1: 1) Mark dmarks.	and label	the location (of the erosior	n on the <u>r</u>	<u>nap</u> . 2) Brid	efly descr	ibe the location of the
Mark where ere	osion is oc	curring:							
□ Meander Ben	d	🛛 Straig	ght Section	on	🗆 Steep 🛛	Slope/V	alley Wal		Other
Site Dimension	t Indicata al	ll annligable	magnum	nente occosi	ated with the	arosion	ite		
Length:	Left Ban	n appricaoie k∙	ft	Right Ra	nk [.]	<u>erosion</u> s	ft		
Bank Height:	Left Ban	<u>k:</u>	ft	Right Ba	nk		ft		
Bank Angle:	Left Ban	<u>k:</u>	deg.	Right Ba	nk:		deg.		
B				Bitt and			<u> </u>	-	
What is the pro	ximity of t	the erosic	on site to	o infrastru	cture (e.g.	road, brid	dge, buildin	g, etc.)?	
\Box < 15 ft.		30 ft	0 30 -	45 ft	□ 45 - 6	0 ft	60 -	100 ft	$\square > 100 \text{ ft.}$
Immediately Ac	liacent La	und Use:	Mark the	land use(s) in	mmediately a	diacent t	o the erosio	n site	
Rural Resider	ntial	Urba	n Reside	ntial		ercial	o the crosto		ested
Suburban Res	idential	🗆 Indus	strial		🗆 Agricı	Iltural			reational
Land Ownershi	p: Mark lan	id ownershi	p at the lo	cation of the	erosion site.				
L Public				ate				nown	
Existing Width	of Riparia	an Vegeta	ation: Ma	ark the avera	ge width of r	iparian v	egetation at	the erosic	n site.
□ < 15 ft.		5 – 35 ft.		□ 35 - 50) ft.		– 100 ft		$\exists > 100 \text{ ft}$
					-		-	1	
Notes: Use the spa	ce provided	to record in	nportant o	bservations	otherwise not	t captured	l on this she	et.	
						_	_	_	

Visual Water Conditions / Excessive Plant or Algae Growth

Survey Basin Code:			Date:	8/13/	15 1:15 - 2:	30		
Name of Stream: Farm	Brook		Assesse	ed By:	FE 12B/LG	2D		
Reach Code: FB 2		_						
Designated Stream Type:								
Site ID:								
P	Make	All Observatio	ons Facing	Downst	ream			
Location / Extent of Visual	Water Condit	ions and/or Ey	cessive P	lant or /	Algae Growth	: 1) Mark a	and label the	e location
on the map. 2) Briefly describe	e the location of	the site relative t	o roads or	other land	lmarks.	,		o roounon
Farm Brook	Resivoir							
Immediately Adjacent Land	d Use: Mark th	he land use(s) in	mmediatel	y adjace	nt to the modi	fied sectio	n. –	
Rural Residential	Urban Res	sidential	Con	mercial		K Forest	ed	
Suburban Residential	☐ Industrial		🗌 Agri	cultural			ational	
				eureatur				
Describe Water Conditions	: Mark all that	apply.						
Clear Stained ("ice	ed tea")	Turbid (mudd	v / silty)	DO C	ors			
Green ERusty-Red		l Milky	<i>,, , , , , , , , , , , , , , , , , , ,</i>		er (foam dves	chemical	(2)	
			_		er (rourn, ayes	, enemiea	<u>(3)</u>	
Canopy Cover: Mark appro	ximate percent	age of stream c	overed by	tree can	lonv.			
$\square >75\%$ covered $\square 75-5$	0% covered	0 50%-25%	covered	R<	25% covered	-		
		1	ec. ec.		2570 COVERED	_		
Aquatic Plants in Stream:								
Floating: (e.g. duck weed)	Absent	In Spots	☑ Every	where	-			
Attached: (e.g. water lily)	Absent	In Spots	R Every	where				
<u> </u>				miere				
Algae in Stream:								
Floating: (e.g. planktonic)	D Absent	In Spots	D Every	where				
Attached: (e.g.	DK Absent	□ In Spots		where				
filamentous)		— opoto		Where .				
			I					
Is the change in water condition	ion or excessive	e plant / algae a	rowth loc	ated at o	r directly belo	wa	P Yes	
storm water outfall?								
Is the change in water condition	ions or excessiv	ve plant / algae	orowth as	sociated	with a change	in		
channel dimensions (denth &	width)?	ie plant, algae	510 millius	soentea	while a change			
Is the change in water condition	ions or excession	ve plant / algae	growth as	coninted	with an impo	indmont	SI Vaa	
/ dam on the stream?	OIIS OF EXCESSIV	ve plant / algae	growin as	socialeu	with an impor	mament	INE TES	
7 dam on the stream.								
Notes: Use the space provide	d to record imr	ortant observa	tions other	nvise no	t captures on t	his cheat		
Hotes: ese me space provide	a to record mig	Softant Observa		1 44130 110	t captures on t	ins sheet.		
Kusty Red b	actura N	rear culve	wt					
Ø								

Modified Channel

Survey Basin Code:		Date:					
Name of Stream:		Assessed	By:				
Reach Code:							
Designated Stream Type:							
Site ID:		(
	Make All Observa	ations Facing $Data$	ownstream				
Location / Extent of Mod brief description of the location	ified Channel: Mark an of the channel section relat	nd label the location ive to roads or other	of the modified char landmarks.	inel on the <u>ma</u>	<u>p</u> and provide		
Mark where channel mo		1					
Meander Bend	☐ Straight Section	□ Steep	Slope/Valley Wa	ll 🛛 🗆 Othe	r		
Estimate length of chann	el modification:	ft.	,	,			
Estimate height of bank	modification:	ft.		-			
					-		
Type of Manipulation:	Channelization	Bank Armor	ing 🛛 🗖 Concret	e Channel	Othe Othe		
Extent of Manipulation:	Right Bank	Left Bank	Channe 🗌	l Bottom	_		
Channel / Bank Material	s: 🗆 Natural 🛛 🛛	🛛 Rip Rap 🛛 🗖	Concrete	Gabions	🛛 Metal		
T							
Immediately Adjacent La	and Use: Mark the land i	use(s) immediately a	adjacent to the modif	ied section.			
	Urban Residential		hercial		d		
LI Suburban Residential			iltural		tional		
Existing Width of Rinari	an Vegetation Mark th	e average width of	inarian vegetation to	the modified	section		
$\square < 15 ft$ $\square 1$	5 = 35 ft	5 - 50 ft	\Box 50 $-$ 100 ft		100 ft		
		<u>5 50 m.</u>			100 11		
Is there a change in the ave	erage width of the activ	/e channel?	🗆 Yes / Estimat	e Width:	ft 🛛 No		
Is there evidence of sedim	ent deposition in the ch	annel?	🗆 Yes		🗆 No		
Is the channel connected to	a floodplain?		□ Yes		🗆 No		
					-		
Notes: Use the space prov	ided to record importar	nt observations o	therwise not capt	ures on this	sheet.		

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Fish Barrier

Survey Pasin Code:			Data	al c lia	4.4.4		
Name of Streams			Date: <u>GII</u>	3/15 1:15	- 2:30		
Parah Coda: Frank B.	->0K_		Assessed By	RE/281	10		
Reach Code: F31							
Designated Stream Type:							
Site ID:					_		
	Make All O	bservatior	is Facing Dow	nstream	-	-	-
the barrier relative to roads or ot	and label the location her landmarks.	n of the barr	er on the <u>map</u> an	id provide a brie	descripti	ion of the location	on of
Type of Barrier: Mark the t	vpe of fish barrier.						
Dam	Culvert		🗆 Velocity I	Barrier	Dth	ner	
Dam Data: Provide all releva	ant data.						
Height of Dam: 25 ft. L	ength of Spillway	r: ft.	Shape of Spil	lway: 🗆 Stra	ight [
Materials: Stone	M Concrete		one & Concret	e 🛛 Timb	er-Crib		
Is there other infrastruct	ure associated wi	th the Da	\mathbf{n} $\mathbf{\Sigma}$ No $\mathbf{\Gamma}$	Yes (If yes m	ark the tv	ne below)	
□ Factory □ H	vdro Facility			Residence		Other	
				- restachee			
Culvert Data: Provide all rel	evant data.						
Type of Culvert:	🖾 Box	2 Pipe		Pipe-Arcl	1		
Culvert Material:	∠Concrete	Corru	gated Metal	□ Plastic		Stone	
Culvert Outlet:	Perched:	ft.	Ramped		🗆 Sut	omerged	
Culvert Size:	Diameter:	3 ft.	Height:	ft.	Width	:	ft.
# of Culverts:	Culvert Length	: 50 ft.					
Valasity Dominy Dates P							
Neture of Denniery	ovide all relevant dati				1. 0		24
Nature of Barrier:	Grade Control Sill		crete Apron		cross-Se	ection PECC	Jther
Length of Barrier: 25	o n. Appro	x. Vertica	Rise: 30	<u>n.</u>			
Nindana II. ala ana ana ana at	1.1.			•	•		
Notes: Use the space provi	ded to record imp	ortant obs	ervations other	wise not capti	ured on	this sheet.	
Large Res	ervoir						
•							
1							
)							
						Developed By Jan	CT-NRCS Juary 2008

Storm Water Outfall

Survey Basin Code:				Date:	81	13/15 1:19	5-2:	30	
Name of Stream:	Arm	Brook		Assessed	By:	RE / 23 /	107	>	
Reach Code: FB2	/								
Designated Stream Ty	ype:								
Site ID:						-			
		Make All (Observations	s Facing J	Dowr	istream			
Location of Outfall:									
Outfall Type:	Pi Pi	ne	□ Leak Of	ff		Channel			
Flow:	IV.N	one	Trickle			Moderate		Substantial	
Odor:	G N	one	□ Sewage			Rancid / Sour		Sulfur (rotten eggs)	
Deposits / Stains		one	□ Sedimer	Sediment Delta		Oily Stain		Black	
Benthic Growth Some			Brown			Green		Orange	
Pipe Data: Provide all relevant data.									
Pipe Material:	Corrug	ated Meta	al	Plastic		🛛 Other			
Contributing Source	e(s):	Z Road	D Parking	g Lot		□ Other	ΠU	nknown	
Pipe Outlet:		Perched	ft.	🛛 🗆 Ram	ped			t Stream Level	
Pipe Size:		Diameter:	2 ft.						
# of Pipes:		ਈ 1		□2				□ 3 +	
Leak-Off Data: Prov	ride al	l relevant data.							
Leak-Off Swale:		Concrete	□ Asphalt			Stone		Earthen	
Contributing Source	e (s):	🛛 Road	Parking	Lot		Recreational F	ield	□ Other	
Length of Swale:	ft.								
Width of Swale:	ft.								
Channel Data: Prov	ide all	relevant data.							
Channel Material:		Concrete	□ Asphalt			Stone		Earthen	
Contributing Source	e (s):	Road C	Parking Lo	ot 🛛 R	lecre	ational Field		Other Unknown	
Channel Length:	ft.								
Channel Width:	ft.								
Notes: Use the space	provi	ded to record im	oortant obse	rvations o	other	wise not captu	res or	n this sheet.	

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Trash / Debris

urvey Basin Code:		Date:	Date:				
vame of Stream:		Assesse	a By:				
Ceach Code:							
Ste ID.	iype:						
Site ID:							
	Make Ali	Observations Facing L)ownstream				
lescription of the locatio	on relative to roads or oth	er landmarks.					
□ Within Stream	🗆 Riparian A	Area: 🗆 Left Bank 🛛 🛛	J Right Bank				
	1						
Гуре:	Residential		Industrial				
Aaterial:	🗖 Plastic	Tires	□ Appliances	□ Other			
	Paper	🗆 Metal	□ Automotive				
	☐ Yard Waste	Construction	Medical				
ource:	Unknown	☐ Flooding	Illegal Dumping	Local Outfal			
Land Ownership:	Private		🗖 Unknown				

Degraded Buffer

Survey Basin C	Code:					Date:						
Name of Stream	n:					Assessed	By:					
Reach Code:												
Designated Stre	eam Type	:										
Site ID:												
		-	Make	All Obs	servation	ns Facing Da	own	strea	m		53	
Location / Ext describe the locati	ent of De on of the si	grad te rela	led Buff ative to roa	er: 1) N ids or oth	Aark and her landm	abel the locatio arks.	n of th	ie degra	ided bi	iffer on the <u>n</u>	nap. 3	2) Briefly
Mark where t	he degrae	ded b	ouffer oc	curs.								
Meander Be	nd		□ Straig	nt Section	on	□ Steep Slo	pe/Va	alley	Wall		her	
🗆 Left Bank						Estimate len	igth o	f degr	aded	buffer:	t	ît.
🗆 Right Bank						Estimate len	igth o	f degr	aded	buffer:	f	ft.
Type of Begra	dation:					- Anti-						
Left Bank:	uation.			nal Vec	retation		at Wiz	dth		wasiya Dla	nte	
Right Bank:							al Wid	dth		wasiye Pla	inte	
Augue Dunke												
Dominate	Paved Bare Ground Turf / Tall Grass Scrub / Shrub Tree						Trees		Other			
Land Cover			Lawn									
Left Bank			<u> </u>				_					
Right Bank	L											
Immediately A	djacent	Land	d Use: N	lark the	land use(s) immediately a	adiacer	nt to the	e modi	fied section.		
Left Bank:		Res	idential		Urb	ban Residential D Commercial					Forested	
	🗆 Subu	rban	Resident	ial	🗆 Ind	ustrial			ıral			
Right Bank:	C Rural	Res	idential		🗖 Urb	an Residentia	al [Cor	nmer	cial		Forested
_	Subu:	rban	Resident	ial	🛛 Ind	ustrial	1	🗆 Agı	ricultu	iral		Recreational
Existing Widt	h of Ding	rior	Vocator	ion:) /						- d - 110	1	
Left Bank.	$\square < 1$	15 fr	vegetat		$\frac{ark}{35}$ fr	rage width of 1	ripariai Offi	n veget	$\frac{1}{50}$	the modifie		
Right Bank:		15 ft		$\frac{115}{115}$	- 35 ft		0 ft. 0 ft		1 50 -	. 100 ft		> 100 ft
					55 R.		0 It.		1 0 0	100 11	<u></u> ^	10011
Notes: Use the	space pro	ovide	ed to reco	ord imp	ortant o	bservations o	therw	vise no	ot cap	tures on th	is she	eet.



									Rea	ach Level As	sessment
Survey Basin	Code:					Date(s):	7	121115	~	9-1015 pm	18/18/15
Name of Strea	am: F	AFM	BETO	R		Assessed By	·: · ·	AB	RE	1 10/10 10/11	19:30-11:2
Reach Code:		FB 3	2								RF /LCD
Designated St	ream Ty	ype:									
			Mak	e All Obs	ervations	Facing Dow	nsti	ream			
Was the entire	e reach o	of strea	am surve	yed? 🖪	Yes 🛛	No, Which se	ction	n(s) we	re not	surveyed? Wh	ıy?
		2				J.		14	SGCT SUR	ION LVEYED	
Channel Mor	pholog	v: Ma	rk the pre	lominate co	ondition(s).	and indicate the	avera	ge meas	ureme	nts	
□ Step-Pool		Pool-R	iffle	🗆 Run	Glid	e *🗆 Mai	nipul	lated C	hanne	l (piped, lined.	etc.)
Active Chann	el Widt	h: 6	1			Glide Depth	:				
Riffle Depth:	2*					Step Fleight:					
Pool Depth:	1	1/2'				Bank Heigh	t (Ri	ght Ba	nk):	1/2	
Run Depth: Bank Height (L							t (Le	ft Ban	k): 1	1/2	
										1	
Substrate Co	mpositi	ion: M	fark appro	ximate per	centages for	each substrate t	ype ol	bserved		1	
Silt or Clay	1	□ <5%	6 📋	5-25%	M _25-50	% LJ 50-75%	6	$\square >7$	5%		
Sand		□<5%		5-25%	La 25-50	% 🗆 50-75%	6	□>7	5%		
Gravel (0.1-2 in	nches)	LI <5%	6 124	5-25%	□ 25-50	% <u>□ 50-75</u> %	6		5%	-	
Cobble (2-10 in	nches)	□<5%	6	5-25%	25-50	% 🖸 50-75%	6	0 >7	5%		
Boulder (>10 i	nches)	□ <5%	6 50	5-25%	□ 25-50	% 🗆 50-75%	6	□ >7	5%		
Bedrock		口<5%	6 🗆	5-25%	25-50	% 🛛 🗆 50-75%	6	$\square > 7$	5%		
Describe Wa	ter Con	dition	s: Mark	all that app	olv.				Aros	of Concern V	Vorksheets
DA Clear	🖾 Stair	ned ("i	ced tea")	*□ Tu	rbid (muddy / si	ilty)		h	dicate shand type	of sheets
* Green	* 🖸 Ru	sty-Re	d		*⊠KMi	Iky	<u> </u>		comp	leted for this read	h assessment
* Odors	* Otl	her (foa	ım, dyes,	chemicals)		,			-	Brosio	1
										Fish Barrie	IT
Aquatic Plan	its in St	ream:							Ston	m Water Outfal	
Floating: (e.g.	duck wee	ed)		nt EIn	Spots	* Everywh	ere		M	odified Channe	1
Attached: (e.g.	. water lil	ly)		nt 🛛 🖾 In	i Spots	*□ Everywh	ere		1	impacted Builte	a X
Algae in Stre	am:								~	Trash / Debri	s
Floating: (e.g.	plankton	ic)	Abse	nt 🗵 In	Spots	* Everywh	ere		10	ater Condition	S
Attached: (e.g	. filament	tous)		nt 🗹 In	Spots	* Everywh	ere				
								1		_	

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

 >75% covered
 >75% covered
 >25% covered

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

Developed By CT-NRCS January 2008 ø

Reach Level Assessment

Riparian Vegetation: Characterize the average density of vegetation in the first 35 feet adjacent to the stream for both banks.										
	LeftBank	RightBank	Left Bank	Right Bank	Left Bank	Right Bank				
Turf Grass	Low	D Low	☐ Moderate	☐ Moderate	□High	□ High				
Grass	Low	□ Low	Moderate	Moderate	High	□High				
Shrubs	Low	Low	Moderate	Moderate	High	High				
Deciduous Trees	Low	Low	Moderate	Moderate	🗆 High	🗆 High				
Coniferous Trees	Low	Low	☐ Moderate	D Moderate	High	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 stre	am	> 1/1 Mile from stream			
C Rural Residential	Agricultural	□ Rural Residential	Agricultural	[]Rural Residential	□ Agricultural		
SL Süburban Residential	Forested	Suburban Residential	Forested	Suburban Residential	Forested		
Urban Residential	Recreational	Urban Residential	Recreational	Urban Residential	Recreational		
🖸 Industrial	🗆 Other	🛛 🗖 Industrial	Other		Other		
Gommercial		Commercial		Gommercial			

Areas of Concern Checklist: Marking Yes to any of the following questions indicates that an Area of	Concern W	orksheet					
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?	🗆 Yes	🗆 No					
Are there any dams or any other possible natural or artificial barriers to fish migration?	TYes	`🗆 No					
Are there any storm water outfalls, discharge pipes or discharges within the reach? Indicate	Yes Yes	🗆 No					
the number observed:							
Is there any portion of the channel that has been modified (not culvert) (channeled, piped, rip	I Yes	K No					
rap)?		r					
Is there any portion of the reach where the riparian buffer has been compromised or is	Yes Yes	🗆 No					
nonexistent?							
Is there any portion of the reach that contains trash or other debris (cars, appliances, construction	□ Yes	12 No					
waste)?		/-					
Is there any portion of the reach that has a change in water conditions?							

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

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Storm Water Outfall

Survey Basin Code:				Date	7	Jailie		101111		
Name of Stream:	DR	NBBOOK		Δscesser	1 Rv	14/12		<u>1 X 11815</u>		
Reach Code:		CR2		<u></u>	107	· AP PC		I ICE LCD		
Designated Stream Tv	ne:	-03								
Site ID:	PU .									
		Make All (Observation	Facing I	Doub	netranin				
Location of Outfall:	DAR	ight Bank XI.e	ft Bank Ma	t and label	thal	nonicum		- Ale		
brief description of the loca	brief description of the location of the outfall relative to roads or other landmarks.									
MI NI D	TAT	L BEND OF	PEACH, LI	EMDING	INT	o GIMHDEN				
@ AT CU	1) AT CULVERT PROPER FRAD (out falls are labled STO on man)									
				```				r)		
Outfall Type:	<b>D</b> Pi	pe	🗵 Leak Of	ff		Channel	-			
Flow:	ΠN	one	<b>A</b> Trickle	Red in	h	Moderate	╎┍	1 Substantial		
Odor:		one	□ Sewage	CLAY U		Rancid / Sour		Sulfur (rotten egge)		
Deposits / Stains		one	□ Sedimer	nt Delta	늡	Oily Stain	╶┼╞╴	Black		
Benthic Growth		one	Brown	in Dona	금	Green				
Pipe Data: Provide all	l rele	vant data.	Biomi			Green		1 Orange		
Pipe Material:		Concrete		ated Meta	ə1	1 Plastic				
<b>Contributing Source(</b>	(s):	I Road	Parking Lot		N Other (a) Rite					
Pipe Outlet:		Perched	ft. DRam		ned		At Stream Level			
Pipe Size:	Pipe Size: Diameter: 2/-2									
# of Pipes:			□ 2					FIG		
Leak-Off Data: Provid	de al	relevant data.	and a start		1					
Leak-Off Swale:		Concrete	- Asphalt			Stone		Earthen		
<b>Contributing Source</b>	(s):	-EX Road	Parking Lot		C Recreational Fie		ield			
Length of Swale:	ft.	10	0							
Width of Swale:	ft.	2'								
<b>Channel Data:</b> Provid	le all	relevant data.	10 1 200		21			Contraction of the second		
Channel Material:	-	Concrete	□ Asphalt			Stone		🖸 Earthen		
Contributing Source	(s):	🗆 Road 🛛 🗖	Parking Lo	t 🗆 R	ecre	ational Field		Other Unknown		
Channel Length:	ft.			_						
Channel Width:	ft.									
Notes: Use the conce -	roui	lad to record in	ortent el -							
Trotes. Ose the space provided to record important observations otherwise not captures on this sheet.										
PLASTIC HOSES USED TO WATER GARDEN										
	- Large Box entrart under Hunter's Way 10									
- Large Box cult	culvert - 12 in total									
- Large Box cult culvert - 12	in -	212/	a in total							
- Large Box cult culvert - 12	in 1	- / AF 07						7		
- Large Box cult culvert - 12 - Last Sto befo	in t	the Reservone	- had p	nsty Re	R	dircharge		, i i i i i i i i i i i i i i i i i i i		
- Large Box cult culvert - 12	in 1	12/2/	t A							

	Stream	CT – 1 Assessn	NRCS nent Works	sheet		Fi	ish Bar	rrier
Survey Basin Code:			Date:	7/21/15		9-10	.15	
Name of Stream:	ARMBRUDK		Assessed By	: AB RE	3			
Reach Code:	FB3							
Designated Stream Type:				8/18/15	_ 1	RE L	CD	
Site ID:								
Location of Barrier: Ma the barrier relative to roads or BPD OFE AT A	rk and label the locatio other landmarks. STUMN PLOGE AVE.	LEFT CL PIGHT CU	ier on the <u>map</u> a UVENT TOU UVENT BLOU	nd provide a brief 0 SHALLOW CKED WITH F	descript	tion of the	location	of
Type of Barrier: Mark the	type of fish barrier.							
Dam Dam			U Velocity	Barrier		her		
□ Factory □ Gulvert Data: Provide all r Type of Culvert: Culvert Material: Culvert Outlet: Culvert Size: # of Culverts: 2 Volcait: Parmian Deta:	Hydro Facility elevant data. Box 3 Concrete Perched: Diameter: Culvert Length	☐ Mill ☐ Pipe ☐ Corrug . ft. ft. ft. ft. ft.	gated Metal	Residence	۱	□ Other □ Arcl □ Ston bmerged h: 2 S	1 le	ft
Nature of Barrier:	Grade Control Sil		anata Aman		Summer C			11
Length of Barrier:	ft. Annro	x. Vertica	l Rise:	fr	1055-5	ection		ег
Notes: Use the space prov Soveral cubb	vided to record imp a dams pas	oortant obse	ervations othe	rwise not captu	ired on	this shee	et.	
						Develop	ed By CT- Januar	NRC y 200

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Degraded Buffer

Survey Basin C	urvey Basin Code:						1221	15			
Name of Stream	<u>n:</u>	FARMBRO	OK		Assessed	₿y	AI	BZ	-E		
Reach Code:	F	LB3									
Designated Stre	eam Type	•			- V						_
Site ID:					-67						
		Make	All Obs	servatio	ns Facing Da	owi	nstrea	ım			
Location / Extent of Degraded Buffer: 1) Mark and label the location of the degraded buffer on the <u>map</u> . 2) Briefly describe the location of the site relative to roads or other landmarks. LAWN OF HOUSE ON LEFT BANK											
Mark where t	he degrae	ded buffer o	ccurs.								
Meander Be	nd	🗹 Straig	ht Secti	on	□ Steep Slo	pe/	Valley `	Wall		] Other	
🗹 Left Bank					Estimate len	igth	of degr	raded b	ouffer	: 100	ft.
🗆 Right Bank					Estimate len	igth	of deg	raded t	ouffer	•	ft.
Type of Degra	dation										
Loft Bonk:			mal Var	atation	M Minimu	-1 31	/: data	<b></b>	•	- Dia 141	
Dight Dank.			mai vegetation			ai w			vasive Plants		
Right Dank:			mai veg	getation		ai w	lath		vasive	e Plants	U Other
Dominate	Paved	Bare Ground	Turf	1	Tall Grass	Sc	rub / Sł	ırub	Trees	5	Other
Land Cover			Law	n	0						
Left Bank				X.							
Right Bank											
Immediately A	Adjacent	Land Use:	Mark the	land use(	s) immediately :	adiad	ent to th	e modif	ied sec	tion.	
Left Bank:	🗖 Rural	Residential		🗆 Urb	an Residenti	al		mmerc	ial		Forested
	区 Subu	rban Residen	tial		ustrial		☐ Agricultural		ral 🛛		Recreational
<b>Right Bank:</b>		Residential			an Residential						
6	Subu	rban Residen	tial		ustrial	strial					Recreational
								ricuitu	141	1	recercational
Existing Widt	<u>h of Ripa</u>	rian Vegeta	tion: Ma	ark the av	erage width of	ripar	ian vegel	tation to	the mo	odified se	ction.
Left Bank:	<u> </u>	15 ft.	□ 15 -	-35 ft.	□ 35 – 5	0 ft	. [	<b>]</b> 50 –	100 f	ì 🗆	>100 ft
Right Bank:		15 ft.	□ 15 -	35 ft.	0 35 - 5	0 ft	.   C	<b>]</b> 50 –	100 f	ì 🛛	> 100 ft
Notes: Use the	shace pr	ovided to rec	ord imp	ortant o	beamyotions	that	nuico n	at anot		m this sh	
Troles. Use life	space pro		ora imp	onanto	<u>bservations o</u>	uner	wise no	ot capt	<u>ures o</u>	on this sr	leet.

# -B4 0.48 m



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× 5

.

Reach Level Assessment

Survey Basir	n Code:	<u> </u>				D	ate(s): X-	18.	-15	11 45 - 14 - 44
Name of Stre	eam:	FARMR	00=14			A	ssessed Bv:	12	26 1 40	H 57 12 **
Reach Code:	1	FRH						15		·
Designated S	Stream T	vpe:								
		<u>, , , , , , , , , , , , , , , , , , , </u>	Make A	11 Ob	ervation	Fac	ing Downst	ro	am	
Was the entir	re reach	of stream	Surveya	d9 [			Which section	n(c)	) wore not	aumieured 2 Wheel
was nie enni	re reach	or sucam:	surveye	u: L		1 190,	which sectio	11(5)	) were not	surveyed? why?
	The stream bed was dry,									
						F				
Channel Ma	mholos			•	**.* / >					
Channel Mu		Dool Diff		Dum		, and	indicate the avera	age	measuremen	ts.
Active Chan	nol Widt	F00I-KIIII	: []	Kun			T * 🗆 Manipu	llate	ed Channe	(piped, lined, etc.)
Diffle Donth		<u>.n:</u>					lide Depth:			
Riffle Depth:							ep Height:	• •		
Pool Depth:							ank Height (Ri	ight	t Bank):	
Run Depth:						B	ank Height (Le	eft l	Bank):	
Substrate C	omposit	ion: Mark	approxim	nate nei	centages fo	or eac	h substrate type o	ohse	rved	1
Silt or Clay		□ <5%	5-2	5%	25-5	0%	50-75%		]>75%	
Sand		□ <5%	□ 5-2	5%	25-50	0%		İĒ	1>75%	
Gravel (0.1-2	inches)	□ <5%	5-2	5%	25-50	0%	□ 50-75%		] >75%	
Cobble (2-10	inches)	□ <5%	5-2	5%	25-50	0%	□ 50-75%		1>75%	
Boulder (>10	inches)	□ <5%	□ 5-2	5%	25-50	0%	□ 50-75%		]>75%	
Bedrock		□<5%	5-2	5%	25-50	0%	□ 50-75%		]>75%	
-	_									
Describe Wa	ater Cor	iditions:	Mark all t	that app	oly.				Area	of Concern Worksheets
	☐ Stai	ned ("iced	tea")	_	<u>*□ Tı</u>	urbid	(muddy/silty)		In	dicate # and type of sheets
* Green		sty-Red			<u> </u>	lilky		eted for this reach assessment		
*LI Odors	<u>_*⊔</u> Ot	her (foam, d	lyes, chen	nicals)						Freston
Aquatic Pla	nts in St	ream•						1	-	Fish Banner
Floating: (e.g.	duck we	ed)	hsent	l 🗆 Īr	Snots	*	Everywhere	1	Ston	1 Water Ourall
Attached: (e.g	z. water li	$ v\rangle \square A$	bsent		Snots	*	Everywhere		IVIC	annea Channel
				<u> </u>			Brerymiere	J	- <b>-</b>	Trach / Debris
Algae in Str	eam:								W	ster Conditions
Floating: (e.g.	. plankton	ic)	bsent	🗆 Ir	Spots	*□	Everywhere			
Attached: (e.g	<u>g. fila</u> ment	tous) 🛛 🗆 A	bsent	🛛 🗆 Ir	Spots	*□	Everywhere			
Canony Cov	or Mar	k anorovie	to porte	taca - F	eteo					
$\square > 75\% cov$		$\frac{1}{75}$	covered		SITE STEE SITE	/erea	by tree canopy.	50/	aguarad	
/J/0C0V			Lovered		5070-237	0 001		.5%	covered	
Note: Ite	ems mar	ked with a	n asteris	k (*)	indicate a	a pot	ential area of c	cond	cern. Plea	se record all relevant
		informa	ation on	the aj	ppropriate	e Are	a of Concern	Wo	orksheet(s)	

### Reach Level Assessment

Riparian Vegetation: Characterize the average density of vegetation in the first 35 feet adjacent to the stream for both banks.							
	LeftBank	Right Bank	Left Bank	Right Bank	LeftBank	Right Bank	
Turf Grass	Low	Low	☐ Moderate	D Moderate	🗆 High	🗆 High	
Grass	Low [	Low	☐ Moderate	D Moderate	D High	🗆 High	
Shrubs	Low	Low	D Moderate	☐ Moderate	🗆 High	🗆 High	
Deciduous Trees	Low	Low	D Moderate	□ Moderate	🗆 High	High	
Coniferous Trees	Low	D Low	D Moderate	D Moderate	High	High	

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

Surrounding Land Use: Mark the dominate land use(s) for each "zone", if known or observed.							
Immediately adjacent to stream		<¼ Mile from stre	am	> 1/4 Mile from stream			
Rural Residential	Agricultural	Rural Residential	Agricultural	DIRural Residential	□ Agricultural		
Suburban Residential	Forested	C Suburban Residential		□ Suburban Residential	E Forested		
Urban Residential	DiRecreational	Urban Residential	Recreational	D Urban Residential	Recreational		
	Other Other	🛛 Industrial	🛛 Other		Other		
Commercial		Commercial		Gommercial			

Areas of Concern Checklist: Marking "Yes" to any of the following questions indicates that an Area of	Concern W	orksheet					
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?	Ves .	🗆 No					
Are there any dams or any other possible natural or artificial barriers to fish migration?	🗆 Yes	🗆 No					
Are there any storm water outfalls, discharge pipes or discharges within the reach? Indicate	□ Yes	D No					
the number observed:							
Is there any portion of the channel that has been modified (not culvert) (channeled, piped, rip	□ Yes	🗆 No					
rap)?							
Is there any portion of the reach where the riparian buffer has been compromised or is	□ Yes	🗆 No					
nonexistent?							
Is there any portion of the reach that contains trash or other debris (cars, appliances, construction	□ Yes	🗆 No					
waste)?		1.000					
Is there any portion of the reach that has a change in water conditions?	D Yes	🗆 No					

Notes: Use the space provided to record important observations otherwise not captured on the Reach Assessment Sheet or the Areas of Concern Worksheets.
## Visual Water Conditions / Excessive Plant or Algae Growth

Survey Basin Code:			Date:		8/18/1	5		
Name of Stream: Farm	Brook		Assesse	ed By:	RF.	LOD		
Reach Code: FB3								
Designated Stream Type:	-							
Site ID:								
	Mak	e All Observatio	ns Facing	Downstr	eam			
Location / Extent of Visual on the map. 2) Briefly describ	Water Cond e the location o	itions and/or Ex f the site relative to	cessive P o roads or (	lant or A other lands	lgae Gro marks.	wth: 1) Mark a	and label th	e location
Immediately Adjacent Lan	d Use: Mark	the land use(s) ir	nmediatel	v adiacer	it to the m	odified sectio	n	
Rural Residential		esidential		mercial	ii to the fil		ed	
Suburban Residential	🛛 Industria	1		cultural			ational	
			1	burturur			attonat	
<b>Describe Water Conditions</b>	: Mark all that	at apply.						
Clear Stained ("ice	ed tea")	Turbid (mudd	//silty)	Odo 🗖	rs			
Green 🛛 Rusty-Red		≱Milky		🛛 🗆 Othe	er (foam, d	lyes, chemical	ls)	
Canopy Cover: Mark appro	ximate percer	ntage of stream c	overed by	tree cano	opy.			
LJ >75% covered Ld 75-5	0% covered		covered		25% cover	red		
Aquatic Plants in Stream:					7			
Floating: (e.g. duck weed)	🖾 Absent	In Spots	□ Every	where				
Attached: (e.g. water lily)	□ Absent	In Spots	Every	where				
Algae in Stream:					1			
Floating: (e.g. planktonic)	□ Absent	In Spots	C Every	where				
Attached: (e.g.	□ Absent	□ In Spots	D Every	where				
filamentous)		· · · · · · · · · · · · · · · · · · ·						
Is the change in water condit storm water outfall?	ion or excessi	ve plant / algae g	rowth loc	ated at or	directly b	below a	-ET Yes	🗆 No
Is the change in water condit	ions or excess	ive plant / algae	growth as	sociated	with a cha	nge in		DR No.
channel dimensions (depth &	width)?	ine plant / algue	5romar as	Sociated	with a cha	inge m		EFINO
Is the change in water condit	ions or excess	ive plant / algae	growth as	sociated :	with an in	noundment		
/ dam on the stream?		- P	5. o	booraroa	···	ipounament		
					-			<u>                                     </u>
Notes: Use the space provide	ed to record in	nportant observat	ions othe	rwise not	captures of	on this sheet.		
CHange 15 doi	Un Stream	of Farm B	nuck R	exercities and	Ve			
0								

# Completed Stream Assessment Forms Lower West River

					1 1			A STATE STATE			
Survey Basin Code:				Date:	8/19/15	-	-				
Name of Stream: V	lest	River		Assessed	d By: Gara	Zrel	ol				
Reach Code:		1		Frank Delico							
Designated Stream T	ype:			Frank Cochran							
Site ID: #/					200						
		Make All	Observation	s Facing	Downstream						
Location of Outfall:	$\Box R$	ight Bank 🗖 🕰	eft Bank Ma	ark and labe	I the location of the o	utfall or	the m	<b>ap</b> and provide a			
brief description of the loo	cation of	of the outfall relativ	e to roads or o	ther landma	arks.						
Latitude 41.29	30	Longitude	-72.949	350							
# I on Map	Dra	mase thru	RU B	0							
		1		1							
Outfall Type:	$\square P$	ipe	□ Leak C	off	□ Channel	FI	on H	un Rip Rap			
Flow:	$\Box$ N	one	□ Trickle		Moderate		l Subs	tantial			
Odor:	<b>R</b> N	one	□ Sewage	e	Rancid / Sou	r 🛛 🗆	l Sulfi	ur (rotten eggs)			
Deposits / Stains	N.B.	one	□ Sedime	ent Delta	□ Oily Stain		Black	κ.			
Benthic Growth	Benthic Growth Denome				Green		□ Orange				
Pipe Data: Provide a	ll rele	vant data.									
Pipe Material:		Concrete	Corrug	gated Met	al 🛛 Plastic			Other			
<b>Contributing Source</b>	e(s):	□ Road	D Parkin	ıg Lot	□ Other	ΠU	Inknov	wn			
Pipe Outlet:		□ Perched	ft.	🗆 Ram	ped		t Stre	am Level			
Pipe Size:		Diameter:	ft.			1.00	1.1				
# of Pipes:		$\Box$ 1		$\square 2$			+				
						-	1				
Leak-Off Data: Prov	vide al	l relevant data.									
Leak-Off Swale:		Concrete	□ Asphal	t	□ Stone		$\Box E$	arthen			
<b>Contributing Source</b>	e (s):	Road	Parking	g Lot	□ Recreational	Field	<b>⊠</b> 0	ther Construction Are			
Length of Swale:	ft.										
Width of Swale:	ft.				S						
Channel Data: Provi	de all	relevant data.									
Channel Material:		Concrete	□ Asphal	t	□ Stone		$\Box E$	arthen			
<b>Contributing Source</b>	e (s):	□ Road □	Parking L	ot 🛛 🖬 F	Recreational Field		Other	🛛 Unknown			
Channel Length:	ft.	and the second				10.1					
Channel Width:	ft.										
Notes: Use the space	provi	ded to record im	portant obse	ervations of	otherwise not capt	ures o	n this	sheet.			
Bank ha	5 .	rip rapi	flow	frem a	above area	a V	NG S	construction			
material g	star	age.									

						1		
Survey Basin Code:		_		Date: 5	5/	19/15		
Name of Stream: W	lest	RIVER		Assessed	l By:	' Cary	Cre	45
Reach Code:				1		Frank	P	eleo
Designated Stream T	ype:			1		Frank	Co	ahrac
Site ID: #Z				(				
and the second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second s		Make All	Observation	s Facing I	Dowi	nstream	-	
Location of Outfall: brief description of the lo Latitude - 46 # 2 on Map	$\square$ R cation of 29 - A	ight Bank X Le of the outfall relative 35/* Long ppcars tz	ft Bank Ma e to roads or of these - 7	rk and label ther landma 22 • 950 Ne Ve	the lorks.	ocation of the out	tfall or	n the <u>map</u> and provide a
Outfall Type		ine	□ Leak O	ff		Channel	TI	the second
Flow:		one	Trickle	11		Moderate	-17	Substantial
Odor:		one	Sowage			Paneid / Sour		Substantial
Donosite / Stains		one	C Sodimo	nt Dolto		Cily Stein		Phole
Deposits / Status		one		III Della		Courses		Orango
Dentific Growin	a. Provide all relevant data					Gieeli		l'Oralige
Dine Material:	III I CIC	Valle Uala.		atad Mat	1	Dlastia		D Other
Contributing Source	(0).			aled Met	a1	D Plastic		
Dine Outlate	e(s):				head			
Pipe Outlet:		Diamatam	ll.		ped			at Stream Level
Pipe Size:			It.					1
# of Pipes:			1		-		<u>ц</u> з	+
Leak-Off Data: Prov	ride al	l relevant data	4		_			
Leak-Off Swale	iue ai		D Asphalt	+		Stone		☐ Farthen
Contributing Source	e (s).		D Parking	Lot		Recreational F	field	$\Box$ Other
Length of Swale	ft	- Houd	- I u king	, LOI		reereational 1	Ioiu	
Width of Swale	ft	3						
Channel Data: Provi	ide all	relevant data						
Channel Material:	iue un		- Asphalt	•		Stone		☐ Farthen
Contributing Source	e (s).		Parking L		ecre	ational Field		Other Unknown
Channel Length	ft					ational Pielo		
Channel Width:	ft.				-			
Channel Whath	10							
Notes: Use the space	provi	ded to record imp	portant obse	rvations o	other	wise not captu	res of	n this sheet.
Clauly du Printez Shawn a	sah Lan	erse and e, storm 615 map	odagou - seve	- Sve	usc	Z cate	s i Lh V	n line with Dasing is



				1000	late	_				
Survey Basin Code:	-			Date:	8/19/15					
Name of Stream:	Nes	+ River		Assessed	By Gary	Zin	elub			
Reach Code:					Frank	De	Lea			
Designated Stream T	ype:			Frank Cechran						
Site ID: # 3										
		Make All C	Observations	Facing I	Downstream					
Location of Outfall: brief description of the loc Latitude - 41.29 # 3 on Map	□ Ri cation c 527	ight Bank K Lef of the outfall relative Longe trule	it Bank Mar to roads or ot -72.95 = $25aia$	k and label her landman 6919	the location of the ou iks. www. Flea Mar	tfall or	the <u>map</u> and provide a Parkey Lot			
		M		1						
Outfall Type:	🗆 Pi	pe	Leak Of	f	□ Channel	T	IN RY Rep			
Flow:	$\Box$ N	one	Trickle		□ Moderate		Substantial			
Odor:	Ddor:				□ Rancid / Sour		Sulfur (rotten eggs)			
Deposits / Stains	sits / Stains & None Sedi		□ Sedimer	nt Delta	□ Oily Stain		Black			
Benthic Growth None			□ Brown		□ Green		Orange			
Pipe Data: Provide a	ll rele	vant data.								
Pipe Material:		Concrete	Corrug	ated Meta	al 🛛 Plastic		□ Other			
<b>Contributing Source</b>	e(s):	□ Road	🛛 🗆 Parking	g Lot	□ Other		Inknown			
Pipe Outlet:		□ Perched	ft.	🗆 Ramp	ped		At Stream Level			
Pipe Size:		Diameter:	ft.	-						
# of Pipes:				$\Box 2$			+			
	1	1. To								
Leak-Off Data: Prov	vide al	l relevant data.			T					
Leak-Off Swale:		Concrete	□ Asphalt		□ Stone		□ Earthen			
<b>Contributing Source</b>	e (s):	□ Road	Parking	Lot	□ Recreational I	Field	□ Other			
Length of Swale:	ft.					(				
Width of Swale:	ft.									
Channel Data: Provi	ide all	relevant data.								
<b>Channel Material:</b>	~ *	Concrete	□ Asphalt		□ Stone		□ Earthen			
<b>Contributing Source</b>	e (s):	□ Road □	Parking Lo	t 🗆 R	ecreational Field		Other Unknown			
Channel Length:	ft.									
Channel Width:	ft.									
Notes: Use the space	provi	ded to record imp	ortant obse	rvations c	otherwise not captu	ires o	n this sheet.			

Survey Basin Code:				Date: 9	5/19/15					
Name of Stream: \	lest	- River		Assessed	By:	210				
Reach Code:	1	1510 21			E.	E Dil				
Designated Stream T	vne:				Frit	F Ver	10.1			
Site ID: # 4	JF									
		Make All (	Observations	Facing I	Downstream					
Location of Outfall: brief description of the loc Lattinde - 41 #4 Map	©Ri cation c . 297	ight Bank 🗆 Let of the outfall relative 03 Longe Tide Gate	ft Bank Mar to roads or ot the - >2 e an W	tk and label her landmar 2,7506	the location of the second second second second second second second second second second second second second s	he outfall o	n the map and provide a $gestet$			
Outfall Type	□ Pi	ne	□ Leak Of	f	□ Channel		1			
Flow:		one	Trickle		☐ Moderate	Г	Substantial			
Odor: $\Box$ None			□ Sewage		□ Rancid / S	Sour [	Sulfur (rotten eggs)			
Deposits / Stains	$s$ $\Box$ None $\Box$ Sedim			nt Delta Oily Stain			Black			
Benthic Growth	hic Growth $\Box$ None $\Box$ Brown				□ Green	E	] Orange			
Pipe Data: Provide a	ll rele	vant data.								
Pipe Material:		Concrete	Corrug	ated Meta	al 🛛 Plastic	с	□ Other			
<b>Contributing Source</b>	e(s):	□ Road	D Parking	g Lot	□ Other □		Jnknown			
Pipe Outlet:		□ Perched	ft.	🗆 Ramp	bed		At Stream Level			
Pipe Size:		Diameter:	ft.							
# of Pipes:							+			
	1.1.1									
Leak-Off Data: Prov	vide al	l relevant data.								
Leak-Off Swale:		Concrete	□ Asphalt		□ Stone		□ Earthen			
<b>Contributing Source</b>	e (s):	□ Road	□ Parking	Lot	□ Recreation	nal Field	□ Other			
Length of Swale:	ft.									
Width of Swale:	ft.	1								
Channel Data: Provi	ide all	relevant data.								
Channel Material: Concrete Asphalt					□ Stone	and the second	□ Earthen			
<b>Contributing Source</b>	e (s):	□ Road □	Parking Lo	ot 🛛 🗆 R	ecreational Fi	eld 🛛	Other Unknown			
Channel Length:	ft.	1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.								
Channel Width:	Channel Width: ft.									
Notes: Use the space	provid	led to record imp	oortant obse	rvations o	therwise not c	aptures o	n this sheet.			

Survey Basin Code	_		-	Date:	81	9/15			
Name of Stream:				Assessed	By	(1) Zu	61		
Reach Code:				110000000	. <i>D</i> J .	Ender	21		
Designated Stream T	vne:			Erek Carlos					
Site ID:	JPC.					travic c		n an	
		Make All	Observations	Facing I	Dow	nstream			
Location of Outfall: brief description of the lo Lathtrule 41.2 # 5 on Map	□ Ri cation c 9262 Pc	ight Bank E Le of the outfall relative Langstack	ft Bank Man to roads or ot 2 - 72.94	rk and label her landma	the larks.	Acalemy	fall or	n the <u>map</u> and provide a	
Outfall Type:	D Pi	pe	Leak Of	ff	P	Channel	1		
Flow:	BN	one	□ Trickle			Moderate		Substantial	
Odor:	dor: ZPNone		□ Sewage			Rancid / Sour		Sulfur (rotten eggs)	
Deposits / Stains	12 N	ne 🗆 Sedimen		nt Delta	□ Oily Stain		Ē	Black	
Benthic Growth	DN	None 🛛 Bro				Green		l Orange	
Pipe Data: Provide a	ll rele	vant data.			1			0	
Pipe Material:		□ Concrete	Corrug	ated Meta	al	□ Plastic		□ Other	
<b>Contributing Source</b>	e(s):	□ Road	□ Parking Lot			□ Other	ΠU	Jnknown	
Pipe Outlet:		D Perched	ft.	. 🗆 Rampe			$\Box A$	t Stream Level	
Pipe Size:		Diameter:	ft.						
# of Pipes:				□ 2				+	
Leak-Off Data: Prov	vide al	l relevant data.			-				
Leak-Off Swale:	-	Concrete	□ Asphalt			Stone		Earthen	
<b>Contributing Source</b>	e (s):	□ Road	Parking	Lot		Recreational F	ield	□ Other	
Length of Swale:	ft.				1				
Width of Swale:	ft.								
Channel Data: Provi	ide all	relevant data.		-					
<b>Channel Material:</b>		Concrete	□ Asphalt			Stone	6.1	Earthen	
<b>Contributing Source</b>	e (s):	Road E	Parking Lo	t 🗆 R	lecre	ational Field		Other 🛛 Unknown	
Channel Length:	ft.						1.1		
Channel Width:	ft.								
Notes: Use the space	provid	ded to record imp	portant obse	rvations c	other	wise not captu	res o	n this sheet.	



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#### Reach Level Assessment

Survey Basir	Code:					Da	te(s): 8/	13/1	5	
Name of Stre	am:	WEST	16106	<u>n</u>		As	sessed By:	GP	TEAM	- JC GM BH
Reach Code:			<i>м-</i> 1							AP KB
Designated S	tream T	ype:								
			Make A	ll Ob	servation	s Faci	ng Downs	strea	m	
Was the entir	e reach (	of stream	surveyed	1? 5	ûYes □	] No,	Which secti	on(s)	were no	ot surveyed? Why?
Channel Mo	rpholog	y: Mark th	e predom	inate o	condition(s)	, and i	ndicate the ave	erage r	neasurem	ents.
L Step-Pool		Pool-Rittl		Run	🛛 🗆 Gli	ide	*□ Manip	oulate	d Chann	el (piped, lined, etc.)
Active Chan	iel Widt	h: <b>C</b> o	0.			G	ide Depth:		· · · · · · · · · · · · · · · · · · ·	
Riffle Depth:						Ste	p Height:	<b>D1</b>		
Pool Depth:						Ba	nk Height (	Right	Bank):	6
Run Deptn:		5				Ва	nk Height (	Left H	Sank):	6
Substrate Co	omposit	ion: Mark	approxim	ate pe	rcentages f	or each	substrate type	e obsei	ved	
Silt or Clay	1	□ <5%	5-2	5%	25-5	0%	€ 50-75%		>75%	
Sand	1	□ <5%	□ 5-2:	5%	25-5	0%	□ 50-75%		>75%	
Gravel (0.1-2	inches)	□ <5%	▶ 5-2:	5%	25-5	0%	□ 50-75%		>75%	
Cobble (2-10	inches)	⊠<5%	5-2	5%	25-5	0%	□ 50-75%		>75%	
Boulder (>10	inches)	<b>S</b> <5%	5-2	5%	25-5	0%	□ 50-75%		>75%	
Bedrock	1	<b>L</b> <5%	5-2:	5%	25-5	0%	□ 50-75%		>7,5%	
Describe We	ter Con	ditions:	Mark all t	hot on	alu					
Clear	<b>F</b> Stair	ned ("iced	tea [?]	nai ap	<u>ארח</u> דו (אינים)	urhid	(muddy / silty	1	Are	a of Concern Works
* Green	*□ Ru	stv-Red	icu j			filky	(muddy r siny	/	com	pleted for this reach asses
*□ Odors	*□ Otl	her (foam, o	lves, chen	nicals				-	-	Erosion
									1	Fish Banier
Aquatic Pla	nts in St	ream:				1		_	Stor	m Water Outfall
Floating: (e.g	. duck wee	ed) KUA	Absent		n Spots		Everywhere		N	Iodified Channel
Attached: (e.	g. water lil	y) <b>EQ</b> A	Absent		n Spots		Everywhere	2	1	Impacted Buffer
Algae in Str	eam:									Trash / Debris
Floating: (e.g	. plankton	ic)	Absent		n Spots	*	Everywhere	-	ji ji	Water Conditions
Attached: (e.	z. filament	tous)	Absent		n Spots	*□	Everywhere	2		
-						<u>.</u>				_
Canopy Cov	er: Mar	k approxima	ite percent	tage o	f stream co	vered t	y tree canopy	0.50		
□ >/3% COV	ered   L	1 /3-50%	covered		1 30%-25%	% COV	ered 141 <	25%	covered	
Note: Ite	ems marl	ked with a	n asteris	k (*)	indicate	a pote	ntial area of	fcond	ern. Pla	ease record all relevar
C.C. Comercia		inform	ation on	the a	ppropriat	- A	a of Concer	Wa	-kehaat(	e)
1		mitoriti	anon on	uic a	ppropriat	C MIC	a of Concer		INSTICCT	s).

Reach Level Assessment

Riparian Vegetation: Characterize the average density of vegetation in the first 35 feet adjacent to the stream for both banks.											
	LeftBank	Right Bank	Left Bank	Right Bank	Left Bank	Right Bank					
Turf Grass	Low [	Low Low	☐ Moderate	□ Moderate	High	I High					
Grass	Low [	Low	☐ Moderate	Moderate	High	High					
Shrubs	Low	Low	☐ Moderate	Moderate	L High	High					
Deciduous Trass	Low Low	Low	☐ Moderate	☐ Moderate	🗆 High	High					
Coniferous Tracs	Low	Low Low	D Moderate	□ Moderate	DiHigh	DiHigh					

Surrounding Lan	d Use: Mark the	dominate land use(s) for	each "zone", if kno	wn or observed.			
Immediately adjac	ent to stream	<¼ Mile from stre	am	> / Mile from stream			
Rural Residential	Agricultural	C Rural Residential	Agricultural	Rural Residential	Agricultural		
Suburban Residential	Forested	Suburban     Residential	A Forested	Süburban Residential	Forested		
Urban Residential	DiRecreational	Urban Residential	Recreational	UrbanResidential	Recreational		
□,Industrial	A Other	🗖 Industrial	🗷 Other		Other		
Commercial		Commercial		Commercial			

Areas of Concern Checklist: Marking Yes" to any of the following questions indicates that an Area of	Concern W	orksheet
should be filled out for the appropriate concern. For each occurrence observed, complete and area of concern sh	neet.	
Is there evidence of either stream bank erosion or streambed instability within the reach?	🗆 Yes	12 No
Are there any dams or any other possible natural or artificial barriers to fish migration?	I Yes	<b>D</b> No
Are there any storm water outfalls, discharge pipes or discharges within the reach? Indicate the number observed: Dozen's - 2 Not AT BRIDGES	🛛 Yes	🗆 No
Is there any portion of the channel that has been modified (not culvert) (channeled, piped, rip rap)?	A Yes	🗆 No
Is there any portion of the reach where the riparian buffer has been compromised or is nonexistent?	A Yes	🗆 No
Is there any portion of the reach that contains trash or other debris (cars, appliances, construction waste)?	□ Yes	BNo
Is there any portion of the reach that has a change in water conditions?	I Yes	🔊 No

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

Degraded Buffer

					Date:	alli	<u> </u>			
Name of Strea	<u>m: We</u>	ST RIVER	·		Assessed	By: Ge	, TEN	1m		
Reach Code:		LW-1								
Designated Str	eam Typ	e:								
Site ID:										
141		Make	All Oh	servatio	ns Facing D	ownstr	am	1 1023	1416	
Location / Ext	tent of D	egraded Bui	fer: 1) M	Mark and	label the locatio	n of the de	amded h	.ffer on the		D : C
describe the locat	ion of the s	ite relative to re	bads or oth	her landm	arks.	n or the ue	graded Di	utter on the <u>n</u>	<u>nap</u> . 2	briefly
BANKS	HAVE	SPACTINA	Imn	EDIATE	LY AT C	SANK,	WITH	PHRAG	MITE	ES
FURTHER	NRND	, SIME	REF	CAO +	MAMMAL	WIDTH	l			
Mark where t	he degra	ded buffer o	occurs.							
<b>E</b> Meander Be	end	🗌 🗆 Straig	ght Secti	on	□ Steep Slo	pe/Valle	v Wall	D Otl	her	
🛛 Left Bank					Estimate ler	ngth of de	graded	buffer:	f	t.
🛛 Right Bank					Estimate ler	ngth of de	graded	buffer:	f	 t.
Toma CD										
1 ype of Degra	idation:	( <b>1</b> )					1.0.0		,	
Left Bank:			imal Ve	getation	A Minima	al Width	_ R Ir	wasive Pla	nts	Other Other
Right Bank:			imal Ve	getation	I 🗷 Minima	al Width		ivasive Pla	nts	Other 0
Dominate	Paved	Bare Ground	d Turf	F/	Tall Grass	Scrub /	Shrub	Trees		Othor
Land Cover			Law	/n	run Oruss	Deruo / :	Sinuo	TICES		Other
Left Bank			Butt	RI	R	, DA	•			
<b>Right Bank</b>					 					<u> </u>
									I	
Immediately A	Adjacent	Land Use:	Mark the	land use(	s) immediately	adjacent to	the modi	fied section.		
Immediately A Left Bank:	Adjacent	Land Use: l Residential	Mark the	land use()	s) immediately an Residenti	adjacent to al C	the modi	fied section. cial		Forested
Immediately A Left Bank:	Adjacent	Land Use: l Residential rban Resider	Mark the	land use() Urb	s) immediately an Residenti ustrial	adjacent to al C	the modi commerce gricultu	fied section. cial ıral		Forested Recreation
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ſ	Survey Basin Code:				Date:	8/	13/15			
	Name of Stream: We	51	RIVER		Assessed	By	GP TEAM	า		
ſ	Reach Code: LW -	1			i de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la comp					
	Designated Stream Ty	/pe:								
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	The second second	-	Make All O	Observations	s Facing 1	Dow	nstream		- Hard	
	Location of Outfall: brief description of the loc Multiple PVC 2 15' CONC ONE LEAK	Ri cation o out f out f	the outfall relative the outfall relative cells ar Spru fuls of Spru rive war	ft Bank Mar to roads or ot JG 57 7 CR PR	k and label her landman 1-95 1 TE	the l rks. .(cvi	ocation of the out AUC DR UC DRJ	fall on	the <u>map</u> and provide a	
ſ	Outfall Type:	(2 Pi	pe	🖬 Leak Of	ff		Channel			
t	Flow:	<b>D</b> No	one	A Trickle			Moderate		Substantial	
ľ	Odor:	Z No	one	□ Sewage			Rancid / Sour		Sulfur (rotten eggs)	
Ī	Deposits / Stains	EN	one	🛛 Sedimer	nt Delta	Oily Stain			Black	
ſ	Benthic Growth	DN	one	Brown			Green		Orange	
	Pipe Data: Provide all relevant data.									
	Pipe Material:		Concrete	Corrug	ated Meta	al	R Plastic		🗆 Other	
	<b>Contributing Source</b>	e(s):	Road	Parking Lot			Other	ΠU	Inknown	
	Pipe Outlet:		A Perched 99.7	10 40' ft.	🛛 🗆 Ramj	ped	1)	<b>E</b> A	t Stream Level	
	Pipe Size:		Diameter: 5 101	<u>کت</u> 'ft			14			
	# of Pipes:							<b>Ø1</b> 3	+ MANY	
	Leak-Off Data: Prov	ride all	relevant data.							
	Leak-Off Swale:			🖾 Asphalt			Stone		Earthen	
	<b>Contributing Source</b>	<del>:</del> (s):	□ Road	<b>Parking</b>	Lot		Recreational F	field	□ Other	
	Length of Swale: 15	ft.								
	Width of Swale: 6	ft.								
ſ	Channel Data: Provi	de all	relevant data				11	1		
	Channel Material:		Concrete	C Asphalt			] Stone		Earthen	
	Contributing Source	e (s):		Parking Lo	ot   🗆 R	lecre	eational Field		Other Unknown	
	Channel Length:	ft.								
	Channel Width:	ft.								
[	Notes: Use the space provided to record important observations otherwise not captures on this sheet.									

Modified Channel

Survey Basin Code:       Date: 8/12/15         Name of Stream:       WGTT LIVER         Assessed By: GY TEAM       Assessed By: GY TEAM         Reach Code:       WM-1         Designated Stream Type:       Site ID:         Image: Stream:       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.         Rift Burg       RAMGLING       RIN L       DAWK         Mark where channel modification occurs:       Mander Bend       Straight Section       Steep Slope/Valley Wall       Other         Estimate length of bank modification:       2 mo?ft.       Estimate height of bank modification:       3 ft.         Type of Manipulation:       Channelization       Bank Armoring       Concrete Channel       Other         Extent of Manipulation:       Right Bank       Channel Johnel       Other         Channel / Bank Materials:       Natural       Rip Rap       Concrete       Gabions       Metal         Immediately Adjacent Land Use:       Mark the land use(s) immediately adjacent to the modified section.       Suburban Residential       Industrial       Forested         Suburban Residential       Industrial       Agricultural       <					
Name of Stream:       UEST ENER       Assessed By: GY TEAM         Reach Code:       LW-1         Designated Stream Type:       Site ID:         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.         Ref       Ref       REACLING       REVERT         Mark where channel modification occurs:       BANK       BANK       Mark where channel modification cocurs:         Meander Bend       Straight Section       Steep Slope/Valley Wall       Other         Estimate height of bank modification:       3       ft.         Type of Manipulation:       Channelization       Bank Armoring       Concrete Channel       Other         Extent of Maaipulation:       Right Bank       Channel Bottom       Channel / Bank Materials:       Immediately adjacent to the modified section.         Rural Residential       Urban Residential       Concrete       Gabions       Metal         Immediately Adjacent Land Use:       Mark the land use(s) immediately adjacent to the modified section.       Rereational         Extent of Manipulatinal:       Urban Residential       Agricultural       Recreational       Sonon         Suburban Resid	Survey Basin Code:	Date: 8	/13/15		
Reach Code: $\mathcal{W} = 1$ 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: 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.         Ref Ref Ref Ref CLOSG Ref CLOSG Ref CLOSG Ref CLOSG Ref CLOSG Ref CLOSG Ref CLOSG Ref CLOSG Ref CLOSG Ref CLOSG Ref CLOSG Ref CLOSG Ref CLOSG Ref CLOSG Ref CLOSG Ref CLOSG Ref CLOSG Ref CLOSG Ref CLOSG Ref CLOSG Ref CLOSG Ref CLOSG Ref CLOSG Ref CLOSG Ref CLOSG Ref CLOSG Ref CLOSG Ref CLOSG Ref CLOSG Ref CLOSG Ref CLOSG Ref CLOSG Ref CLOSG Ref CLOSG Ref CLOSG Ref CLOSG Ref CLOSG Ref CLOSG Ref CLOSG Ref CLOSG Ref CLOSG Ref CLOSG Ref CLOSG Ref CLOSG Ref CLOSG Ref CLOSG Ref CLOSG Ref CLOSG Ref CLOSG REf CLOSG REf CLOSG REf CLOSG REf CLOSG REf CLOSG REf CLOSG REf CLOSG REf CLOSG REf CLOSG REf CLOSG REf CLOSG REf CLOSG REf CLOSG REf CLOSG REf CLOSG REf CLOSG REf CLOSG REf CLOSG REf CLOSG REf CLOSG REf CLOSG REf CLOSG REf CLOSG REf CLOSG REf CLOSG REf CLOSG REf CLOSG REf CLOSG REf CLOSG REf CLOSG REf CLOSG REf CLOSG REf CLOSG REf CLOSG REf CLOSG REf CLOSG REf CLOSG REf CLOSG REf CLOSG REf CLOSG REf CLOSG REf CLOSG REf CLOSG REf CLOSG REf CLOSG REf CLOSG REf CLOSG REf CLOSG REf CLOSG REf CLOSG REf CLOSG REf CLOSG REf CLOSG REf CLOSG REf CLOSG REf CLOSG REf CLOSG REf CLOSG REf CLOSG REf CLOSG REf CLOSG REf CLOSG REf CLOSG REf CLOSG REf CLOSG REf CLOSG REf CLOSG REf CLOSG REf CLOSG REf CLOSG REf CLOSG REf CLOSG REf CLOSG REf CLOSG REf CLOSG REf CLOSG REf CLOSG REf CLOSG REf CLOSG REf CLOSG REf CLOSG REf CLOSG REf CLOSG REf CLOSG REf CLOSG REf CLOSG REf CLOSG REf CLOSG REf CLOSG REf	Name of Stream: WEST RIVER	Assessed	By: GY TEAC	h	
Designated Stream Type:         Site ID:         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: Mark and label the location of the modified channel on the map and provide a brief description of the location of the channel: Mark and label the location of the modified channel on the map and provide a brief description of the location of the channel: Mark and label the location of the modified channel on the map and provide a brief description of the location of the 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:	Reach Code: LW-1				
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 reads or other landmarks. <i>R</i> : <i>P</i>	Designated Stream Type:				
Make All Observations Facing Downstream         Location / Extent of Modified Channel: Mark and label the location of the map and provide a brief description of the location of the channel section relative to roads or other landmarks.         RPR       #AMGELWG       RWW       BWK         Mark where channel modification occurs:       BWK       BWK         Meander Bend       Straight Section       Steep Slope/Valley Wall       Other         Estimate length of channel modification:       Concrete       Channel       Other         Estimate height of bank modification:       3       ft.       Type of Manipulation:       Channelization       Bank Armoring       Concrete Channel       Other         Extent of Manipulation:       Right Bank       CLeft Bank       Channel Bottom       Metal         Immediately Adjacent Land Use:       Mark the land use(s) immediately adjacent to the modified section.       Rural Residential       Forested         Suburban Residential       Urban Residential       Commercial       Forested         Suburban Residential       Industrial       35 – 50 ft.       50 – 100 ft       > 100 ft         Is there a change in the average width of the active channel?       Yes       Ston       So No         Is there a change in the average width of the active channel?       Yes       So No	Site ID:				
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.         RAR MAR KMGLING ALONG RIV L BANK -         MULRONG TO SPRING ST.         Mark where channel modification occurs:         Meander Bend       Straight Section         Estimate length of channel modification: 2000 ft.         Estimate height of bank modification: 3 ft.         Type of Manipulation:       Channelization         Right Bank       Channel Bottom         Channel / Bank Materials:       Natural         Meraid Residential       Urban Residential         Immediately Adjacent Land Use: Mark the land use(s) immediately adjacent to the modified section.         Rural Residential       Urban Residential         Buburban Residential       Agricultural         Residential       Industrial         Residential       Industrial         Residential       Industrial         Stating Width of Riparian Vegetation: Mark the average width of riparian vegetation to the modified section.         Is there a change in the average width of the active channel?       Yes         Is there a change in the average width of the active channel?       Yes         Is there a change in the average width of the active channel?       Yes	Make All Observatio	ns Facing D	ownstream	State of the	15-1
Immediately Adjacent Land Use: Mark the land use(s) immediately adjacent to the modified section.         □ Rural Residential       □ Urban Residential       □ Gorested         □ Suburban Residential       □ Industrial       □ Agricultural       □ Recreational         Existing Width of Riparian Vegetation: Mark the average width of riparian vegetation to the modified section.       □ < 15 ft.	Location / Extent of Modified Channel: Mark and la brief description of the location of the channel section relative to RR RR MARGEING LONG Mark where channel modification occurs: Meander Bend Straight Section Estimate length of channel modification: 2000 ff Estimate height of bank modification: 3 ff Type of Manipulation: Channelization Extent of Manipulation: Right Bank Z Channel / Bank Materials: Natural	bel the location to roads or othe K R(V L K S T, D Steep t. t. Bank Armor Left Bank ip Rap	ing Concrete	e Channel Bottom	nd provide a
Immediately Adjacent Land Use: Mark the land use(s) immediately adjacent to the modified section.         □ Rural Residential       □ Urban Residential       □ Forested         □ Suburban Residential       □ Industrial       □ Agricultural       □ Recreational         Existing Width of Riparian Vegetation: Mark the average width of riparian vegetation to the modified section.       □          □ < 15 ft.	Channel / Dank Materials: U Natural A	пр кар   Ц		iabions   L	⊿ Metal
$\square$ Rural Residential $\square$ Urban Residential $\square$ Commercial $\square$ Forested $\square$ Suburban Residential $\square$ Industrial $\square$ Agricultural $\square$ Recreational <b>Existing Width of Riparian Vegetation:</b> Mark the average width of riparian vegetation to the modified section. $\square$ State and the average width of riparian vegetation to the modified section. $\square < 15 \text{ ft.}$ $\blacksquare$ 15 – 35 ft. $\square$ 35 – 50 ft. $\square$ 50 – 100 ft $\square > 100 \text{ ft}$ Is there a change in the average width of the active channel? $\square$ Yes / Estimate Width: ft $\blacksquare$ No         Is there evidence of sediment deposition in the channel? $\square$ Yes $\blacksquare$ No         Is the channel connected to a floodplain? $\square$ Yes $\blacksquare$ No         Notes: Use the space provided to record important observations otherwise not captures on this sheet.	Immediately Adjacent Land Use: Mark the land use	s) immediately	adjacent to the modifi	ed section	<u> </u>
□ Suburban Residential       □ Industrial       □ Agricultural       □ Recreational         Existing Width of Riparian Vegetation: Mark the average width of riparian vegetation to the modified section.       □ < 15 ft.	Rural Residential     Urban Residential		nercial	Forested	
Existing Width of Riparian Vegetation: Mark the average width of riparian vegetation to the modified section. $\Box < 15 \text{ ft.}$ $\blacksquare 15 - 35 \text{ ft.}$ $\Box 35 - 50 \text{ ft.}$ $\Box 50 - 100 \text{ ft}$ $\Box > 100 \text{ ft}$ Is there a change in the average width of the active channel? $\Box \text{ Yes}$ / Estimate Width: ft $\blacksquare \text{ No}$ Is there evidence of sediment deposition in the channel? $\Box \text{ Yes}$ $\blacksquare \text{ No}$ Is the channel connected to a floodplain? $\Box \text{ Yes}$ $\blacksquare \text{ No}$ Notes: Use the space provided to record important observations otherwise not captures on this sheet.	□ Suburban Residential □ Industrial		ultural		
Existing Width of Riparian Vegetation: Mark the average width of riparian vegetation to the modified section. $\Box < 15$ ft. $\Xi 15 - 35$ ft. $\Box 35 - 50$ ft. $\Box 50 - 100$ ft $\Box > 100$ ftIs there a change in the average width of the active channel? $\Box$ Yes / Estimate Width: ft $\Xi$ NoIs there evidence of sediment deposition in the channel? $\Box$ Yes $\Xi$ NoIs the channel connected to a floodplain? $\Box$ Yes $\Xi$ NoNotes: Use the space provided to record important observations otherwise not captures on this sheet.				L Recreatio	<u>1141</u>
$\Box < 15 \text{ ft.}$ $\blacksquare 15 - 35 \text{ ft.}$ $\Box 35 - 50 \text{ ft.}$ $\Box 50 - 100 \text{ ft}$ $\Box > 100 \text{ ft}$ Is there a change in the average width of the active channel? $\Box \text{ Yes}$ / Estimate Width: ft $\blacksquare \text{ No}$ Is there evidence of sediment deposition in the channel? $\Box \text{ Yes}$ $\blacksquare \text{ No}$ Is the channel connected to a floodplain? $\Box \text{ Yes}$ $\blacksquare \text{ No}$ Notes: Use the space provided to record important observations otherwise not captures on this sheet.	Existing Width of Riparian Vegetation: Mark the av	erage width of	riparian vegetation to	the modified sec	tion,
Is there a change in the average width of the active channel?       Is Yes / Estimate Width: ft       Is No         Is there evidence of sediment deposition in the channel?       Is Yes       Is No         Is the channel connected to a floodplain?       Is Yes       Is No         Notes: Use the space provided to record important observations otherwise not captures on this sheet.       Is sheet.	$\Box < 15 \text{ ft.}$ $\Xi 15 - 35 \text{ ft.}$ $\Box 35 -$	50 ft.	□ 50 - 100 ft	□ > 10	)0 ft
Is there a change in the average width of the active channel?       Yes / Estimate Width:       ft       Image: No         Is there evidence of sediment deposition in the channel?       Yes       Image: No         Is the channel connected to a floodplain?       Image: Yes       Image: No         Notes: Use the space provided to record important observations otherwise not captures on this sheet.					
Is there evidence of sediment deposition in the channel? Is the channel connected to a floodplain? Notes: Use the space provided to record important observations otherwise not captures on this sheet.	Is there a change in the average width of the active c	hannel?	☐ Yes / Estimate	Width: ft	🖾 No
Is the channel connected to a floodplain? Notes: Use the space provided to record important observations otherwise not captures on this sheet.	Is there evidence of sediment deposition in the chann	nel?	□ Yes		🗷 No
Notes: Use the space provided to record important observations otherwise not captures on this sheet.	Is the channel connected to a floodplain?		□ Yes		🛃 No
<b>Notes:</b> Use the space provided to record important observations otherwise not captures on this sheet.	Notes He de service de la la la la la la la la la la la la la		4		
	Notes: Use the space provided to record important o	bservations of	therwise not captu	res on this sh	eet.



Google Maps

8/18/2015

Reach Level Assessment

Sumar Dagin	Cadar	1.1.1					ata (a). Orling			
Survey Basin		LVV	2	-				10-41	5	
Name of Stre	am: VV	usi	KIVER			A	ssessed By: P	-rai	<u>nk ('o</u>	chiran, Frank De ro
Reach Code:	<u>LW</u>	<u>~</u>				(	Gary Zre	lak		
Designated S	tream T	ype:		-						
			Make A	ll Obse	rvations	Fac	cing Downst	reai	m	
Was the entir	e reach	of str	eam surveye	d? 🔁 🛛	Yes 🗆	No	, Which sectio	n(s) v	vere not	surveyed? Why?
						-				
Channel Mo	rpholog	gy: M	lark the predom	inate cor	ndition(s).	and	indicate the average	ige me	easuremen	ts.
□ Step-Pool		Pool-	Riffle 🛛	Run	D Gli	de	* Manipu	lated	Channe	(piped, lined, etc.)
Active Chanr	nel Widt	th: 🔗	0-12	01		G	lide Depth: 7	21		
Riffle Depth:						S	tep Height:			
Pool Depth:						B	ank Height (R	ight E	Bank):	3'-51
Run Depth:						B	ank Height (Lo	eft Ba	ank): G	+
Substrate Co	omposit	tion:	Mark approxin	nate perce	entages fo	or ead	ch substrate type o	bserv	ed.	
Silt or Clay		$\Box < $	5% 🛛 5-2	5%	25-50	1%	<b>⊠</b> 50-75%		>75%	
Sand		$\square < $	5% 🛛 5-2	5%	25-50	%	50-75%		>75%	
Gravel (0.1-2	inches)	$\square < $	5% 🛛 🖾 5-2	5%	25-50	1%	50-75%		>75%	
Cobble (2-10 i	inches)	$\Box < $	5% 🛛 5-2	5%	25-50	1%	50-75%		>75%	
Boulder (>10	inches)	$\square \leq$	5% 🛛 5-2	5%	25-50	1%	□ 50-75%		>75%	
Bedrock		$\square < $	5% 🛛 5-2	5%	25-50	1%	<b>50-75%</b>		>75%	
Describe Wa	iter Con	nditio	ns: Mark all	that apply	y.				Area	of Concern Worksheets
Li Clear (Li Stained (liced teal) * 2 Tu							1 (muddy / silty)		In	licate # and type of sheets
* Green									compi	eted for this reach assessment
		ner (f	oam, dyes, cher	nicals)				J		Erosion V
Aquatic Play	nts in St	tream	1:		-			1	Store	Water Outfoll
Floating: (e.g.	duck we	ed)	Z Absent		Spots	*	Everywhere		Mo	dified Channel
Attached: (e.g.	, water li	1v)	25 Absent		Spots	*	Everywhere		T	nneoted Buffer
		-11					- 51019 111010	1	ш	Trash / Debris
Algae in Stre	eam:								W	ater Conditions
Floating: (e.g.	. plankton	nic)	Absent	🗆 In S	Spots	*[	] Everywhere			
Attached: (e.g	g. filamen	tous)	🖸 Absent	🗆 In S	Spots	*	] Everywhere	] '		
00										
Canopy Cov	er: Mar	rk appr	oximate percen	tage of st	tream cov	ered	by tree canopy.			
□ >/3% cov	ered   L	J 75-:	50% covered		0%-25%	0 CO	vered 2	5% C	overed	
Note: Ite	ems mar	ked w	ith an asteris	sk (*) ir	idicate a	pot	tential area of a	once	rn. Plea	se record all relevant
		in	formation on	the apr	propriate	Ar	ea of Concern	Work	(sheet(s)	

#### Reach Level Assessment

<b>Riparian Vegetat</b>	ion: Characte	rize the average de	nsity of vegetation	in the first 35 feet a	djacent to the stre	am for both banks.
	Left Bank	Right Bank	Left Bank	Right Bank	Left ³ Bank	Right Bank
Turf Grass	Low	Low	☐ Moderate	D Moderate	🗆 High	🗆 High
Grass	Low	Low	□ Moderate	☐ Moderate	□ High	🗆 Àigh
Shrubs	Low	Low	☐ Moderate	☐ Moderate	🗆 High	🗆 High
Deciduous Trees	Low	Low	☐ Moderate	□ Moderate	🗆 High	🗆 High
Coniferous Trees	Low	Low	☐ Moderate	Moderate	🗆 High	🗆 High

Surrounding Lan	d Use: Mark the	dominate land use(s) for	each "zone", if kno	wn or observed.	Second Second
Immediately adjace	ent to stream	< 1/4 Mile from stream	am	> ¼ Mile from strea	m
C Rural Residential	□ Agricultural	Rural Residential	□ Agricultural	Rural Residential	Agricultural
Suburban	□ Forested	Suburban	□ Forested	Suburban	Forested
Residential		Residential	t.	Residential	
Urban Residential	Recreational	🗷 Urban Residential	Recreational	🛛 Urban Residential	Recreational
Industrial	C Other	<b>E</b> Undustrial	□ Other	<b>Z</b> Industrial	Diher
Gommercial		Commercial		Commercial	4

Areas of Concern Checklist: Marking "Yes" to any of the following questions indicates that an Area of	Concern W	orksheet
should be filled out for the appropriate concern. For each occurrence observed, complete and area of concern sh	neet.	-
Is there evidence of either stream bank erosion or streambed instability within the reach?	□ Yes	🛛 No
Are there any dams or any other possible natural or artificial barriers to fish migration?	I Yes	🗆 No
Are there any storm water outfalls, discharge pipes or discharges within the reach? Indicate	Z Yes	🗆 No
the number observed:		
Is there any portion of the channel that has been modified (not culvert) (channeled, piped, rip	🖾 Yes	🗆 No
rap)?		
Is there any portion of the reach where the riparian buffer has been compromised or is	Yes Yes	D No
nonexistent?		-
Is there any portion of the reach that contains trash or other debris (cars, appliances, construction	EI Yes	D No
waste)?		
Is there any portion of the reach that has a change in water conditions?	□ Yes	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 abuting land on the right hand (westerly side) is tidal wetland 2 As to stream bank enosion, there was evidence in wany places of previous efforts to address and a few where wore way be needed 3. Fish barrier = tide gates 4. Much of the "riparian buffer" consists of old nip rap with vegetated infill

## Reach Level Assessment

<b>Riparian Vegetat</b>	ion: Character	ize the average de	nsity of vegetation i	in the first 35 feet a	djacent to the stream	am for both banks.
	Left Bank	Right Bank	Left Bank	Right Bank	Left Bank	Right Bank
Turf Grass	Low	Low	☐ Moderate	☐ Moderate	🗆 High	🗆 High
Grass	Low	Low Low	☐ Moderate	☐ Moderate	🗆 High	🗆 High
Shrubs	Low	Low	☐ Moderate	☐ Moderate	🗆 High	🗆 High
Deciduous Trees	Low	Low	D Moderate	D Moderate	🗆 High	🗆 High
Coniferous Trees	Low Low	Low	☐ Moderate	D Moderate	🗆 High	🗆 High

Surrounding Lan	d Use: Mark the d	lominate land use(s) for	each "zone", if know	wn or observed.	
Immediately adjace	ent to stream	<¼ Mile from stre	am	> ¼ Mile from strea	m
Rural Residential	Agricultural	Rural Residential	Agricultural	Rural Residential	Agricultural
Suburban Residential	Forested	☐ Suburban Residential	□ Forested	Suburban Residential	Forested
Urban Residential	C Recreational	Urban Residential	Recreational	Urban Residential	Recreational
Industrial	Other	🗖 Industrial	□ Other		Other
Commercial		Commercial		Commercial	

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

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

Reach Level Assessment

General Notes 1. Behird Riverside Academy, own launch ste, there is a vegetative buffer, believed to be spartive, and hatf 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 own survey. A formal boat launch should be constructed at that site For kayaks + cances.

2. The water twittity was general: one could not see the substrate more than a foot. While most of this was probably silt, some may have been feed material which "bounces" on tide changes.

3. Whatever the water quality issues, the birds an doiving well. We saw waders of all sizes, jumping fish and literally thousands of crabs as well as muscels, 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 butter for the several news beyond. Also notable is a deteriorated trolley bridger pilings remain there and for two docking or newing facilities in this reach.

Survey Basin Code:				Date:		
Name of Stream:				Assessed	By:	
Reach Code:					· · · · ·	
Designated Stream Ty	ype:					
Site ID:						
		Make All O	Observations	Facing I	Downstream	
Location of Outfall:	🗆 Ri	ght Bank 🛛 Lei	ft Bank Mar	k and label	the location of the ou	tfall on the <u>map</u> and provide a
brief description of the loc	cation o	of the outfall relative	to roads or ot	her landmai	'ks.	
Outfall Type:	🗆 Pi	ре	Leak Of	f	Channel	
Flow:		one	Trickle		□ Moderate	Substantial
Odor:		one	□ Sewage		Rancid / Sour	□ Sulfur (rotten eggs)
Deposits / Stains		one	□ Sedimer	nt Delta	Oily Stain	Black
Benthic Growth		one	□ Brown		Green	□ Orange
Pipe Data: Provide a	ll rele	vant data.	-	win in	A Strategy and	
Pipe Material:		Concrete	Corrug	ated Meta	al 🛛 Plastic	□ Other
Contributing Source	e(s):	Road	🛛 🗆 Parking	g Lot	Other	
Pipe Outlet:		Perched	ft.	🗆 Ramp	ped	□ At Stream Level
Pipe Size:		Diameter:	ft.			
# of Pipes:				□ 2		<u>□3+</u>
- 1 ^{**}						
Leak-Off Data: Prov	ide al	l relevant data.		Sure and	A CONTACTORE	
Leak-Off Swale:		Concrete	□ Asphalt		□ Stone	Earthen
Contributing Source	e (s):	□ Road	□ Parking	Lot	Recreational F	Field Other
Length of Swale:	ft.					
Width of Swale:	ft.					
Channel Data: Provi	de all	relevant data.				
Channel Material:	ial: 🛛 Concrete		□ Asphalt		Stone	🗆 Earthen
Contributing Source	Contributing Source (s): Contributing Source (s):		Parking Lot $ \Box R$		ecreational Field	Other   Unknown
Channel Length:	<u>ft.</u>		· · · · · · · · · · · · · · · · · · ·	<i>x</i>	-	
Channel Width:	ft.					
Notes: Use the space	nrovie	led to record imr	ortant obser	rvations o	therwise not cantu	ures on this sheet
Trotost Obe the space	<u>pro m</u>		ortuine object		unerwise not cupit	
		3				
		5	1		6	
						Ъ.

**Erosion Assessment** 

Survey Basin Co	de:			- U	Date: e	10.2	GIE		1
Name of Stream:	WRED	River	• • • • •	-	Assessed	BV: FL	ant Co	clanch	. Event Diler
Reach Code:	1W2			-	Gar	Drel	int		
Designated Strea	m Type:			2	Con a				
Site ID:		•							
		Make	All Obs	servations	Facing Do	wnstr	eam		
Location of Ban site relative to roads Right	ik Érosion: or other land	: 1) Mark a Imarks. SDE	and label i	the location	of the erosion $50 \text{ yds}$	on the <u>m</u> below	a <u>ap</u> . 2) Brid	efly descrit Sates	be the location of the
Mark where ero	sion is occ	urring:				2 1	000		1 II 2 II. I
KMeander Ben	d	□ Straig	ht Section	on	□ Steep S	lope/Va	alley Wal	1 🗆 0	ther
Site Dimensions	Indicate all	applicable	measurer	nents associa	ted with the e	rosion si	te		
Length:	Left Bank		ft.	Right Ba	nk: no	1	ft.		
Bank Height:	Left Bank		ft.	Right Ba	nk: L	1	ft.		
Bank Angle:	Left Bank	:	deg.	Right Ba	nk:		deg.		
What is the pro	vimity of t	he erosio	n site te	infrastru	cture (e.e. r	ond brid	ga huilding	. ata )9	
$\square < 15 \text{ ft}$		0 ft	$\square$ 30 -	45 ft	$\Box 45 - 60$	ft		$00 \oplus$	100  ft
		0 11	<b>U</b> 50			10			14 - 100 11.
<b>Immediately Ad</b>	ljacent La	nd Use: 1	Mark the	land use(s) i	nmediately ac	ljacent to	the erosion	n site.	
Rural Residen	itial [	Urban	Reside	ntial		ercial			sted
□ Suburban Res	idential	-ES Indust	trial		Agricul	tural		C Reci	reational
Land Ownershi	p: Mark land	l ownership	at the loc	cation of the	erosion site.		-		
Public			Priva	ate			Unkn	lown	=1 V
Enisting Width	of Dimensio		4*	1.4		-	_		
Existing width $\Box < 15  \Theta$	<u>oi kiparia</u>	n vegeta	tion: Ma	ark the avera	ge width of ri	parian ve	getation at	the erosion	1 site. $1 > 100.0$
<u><u> </u></u>		9 – 55 n.		<u> </u>	п.	L 30 -	- 100 π		$1 > 100 \pi$
Notes: Use the spa	ce provided t	to record im	portant o	bservations	otherwise not	captured	on this she	et.	
Some	ne has	d cut	ati	rail th	rouchin	veret	tation	- PVO	SION
created	mudl	sand	bar	much	Ervore	dby	j smal	Isho	rebirds
NB.	There 1	ver	NNN	revou	s point	ES, p	anticu	lavl-	1 along
the left	side	with 1	evide	nce d	E old ?	VOSI	on rei	Medre	Alan
(Formal a	Nr JONE	Corna	ir'ni	P vap	i comp	osed	of	Tone_	old blaceto
three an	d in a	010 010	Astan	10 010	0 NO IN	L. a	bok N	ve dr	not
advice of	it wh	in the		the way	CAR CA	1CAI		0000	
any we a	UZINAD	ING. IL	ver b	CONFERN					
			.4						
					0				

Degraded Buffer

Survey Basin C	Code:						Date:							
Name of Stream	n:						Assessed	By	:					
Reach Code:						-	1							. 11
Designated Str	eam Type	:												_
Site ID:							L							
			Make	All Ob	servation	ns	Facing De	owi	nstrea	m				
Location / Ext	tent of De	gra	ded Buffe	er: 1) N	Mark and	lab	el the locatio	on of	the degra	aded bu	affer on the	<u>map</u> .	2) Briefly	/
describe the locati	ion of the si	te re	lative to roa	ds or oth	her landm	ark	<s.< th=""><th></th><th></th><th></th><th></th><th></th><th></th><th></th></s.<>							
Mark where t	he degra	ded	buffer oc	curs.	F		1 0 0					_		
☐ Meander Be	end		LI Straigh	t Secti	on		J Steep Slo	pe/	Valley	Wall		ther		
Left Bank						E	stimate ler	igth	of deg	aded	buffer:		ft.	
🛛 Right Bank	5					E	Estimate ler	igth	of degi	aded	buffer:	_	ft.	
Type of Degra	dation					_		-				-		_
Left Bank	idation.		□ Minin	al Ve	retation	Т		al V	/idth		vasive P	ants		•r
Right Bank.				nal Veo	retation	╉		al V	/idth		wasive Pl	ants		/L
Right Dank.				Tur v ez	Setution	_		<u>ai 11</u>	ium		ITASITC I	uno		74
Dominate	Paved	Bar	e Ground	Turf	f/	Т	all Grass	Sc	rub / Sł	rub	Trees		Other	
Land Cover				Law	/n			_						
Left Bank												200		
<b>Right Bank</b>														
	4 81 4		1.77											
Immediately A	Adjacent		id Use: M	lark the	land use(s	s) i	immediately	adjad	cent to th	e modi	fied section	l. 		
Leit Bank:		Ke	sidential			an	h Kesidenti	al		nmer			Forested	
DILLO		rban	Resident	ial		usi	trial			riculti	iral	_	Recreati	onal
Right Bank:					an	n Residenti	al		mmer		井블	Forested		
		rban	Resident	ial		usi	trial	_	LI Ag	riculti	iral		Recreati	onal
Existing Widt	h of Ring	ria	a Vegetat	ion: M	ark the av	er	age width of	ripar	ian veget	ation to	the modif	ied se		
Left Bank:	0<	5 ft		□ 15 -	- 35 ft.		$\Box 35 - 5$	0 ft	.   [	1 50 -	- 100 ft		> 100 ft	
Right Bank:		15 ft	t.	<u> </u>	- 35 ft.		$\square 35 - 5$	0 ft		<u> </u>	· 100 ft		> 100  ft	
Notes: Use the	space pro	ovid	ed to reco	rd imp	ortant o	bs	ervations o	other	rwise no	ot cap	tures on t	his sh	leet.	
													T	

) () an ing

Survey Basin Code:	Date: 8/19/2015
Name of Stream: West River	Assessed By: Frank Cochran, Prank
Reach Code: LW2	Dileo, Gary Zrelak
Designated Stream Type:	
Site ID:	
Make All Observatio	ns Facing Downstream
Location / Extent of Modified Channel: Mark and la brief description of the location of the channel section relative Most of left hand side b been naised by fill etc (eld) and of mprap Mark where channel modification occurs:	abel the location of the modified channel on the <u>map</u> and provide a to roads or other landmarks. ank of this reach - hants had modified by a variety of forms
The Meander Bend De Straight Section	Di Steen Slone/Valley Wall D Other
Estimate length of channel modification:	t.
Estimate height of bank modification:	t - 12ft /variable
Type of Manipulation: Channelization	Bank Armoring Concrete Channel Other
Extent of Manipulation: DRight Bank	Left Bank Channel Bottom
Channel / Bank Materials:   🗆 Natural 🛛 🛛 🕅	ip Rap   Concrete   Gabions   Metal
□ Rural Residential       □ Urban Residential         □ Suburban Residential       ☑ Industrial         Existing Width of Riparian Vegetation: Mark the avoid structure         ☑ < 15 ft.	Description       Image: Forested         Image: Commercial       Image: Forested         Image: Commercial       Image: Commercial         Image: Commercial       Image: Commercial         Verage: width of riparian vegetation to the modified section.         - 50 ft.       Image: Commercial         Image: Commercial       Image: Commercial         Verage: width of riparian vegetation to the modified section.         - 50 ft.       Image: Commercial         Image: Commercial       Image: Commercial         - 50 ft.       Image:
Is there a change in the average width of the active of	hannel? Yes / Estimate Width: ft ZNO
Is there evidence of sediment deposition in the chan	nel? X Yes INO
is the channel connected to a floodplain?	
Notes: Use the space provided to record important c	bservations otherwise not captures on this sheet.
1. Although there is little above the nip rap slopes d there was, most though not o repansar regetation prowing	space for repanian vegetation ue to use of land for parking etc. Il places, "invasive" and other in lon rip rap

Fish Barrier

Sumar Dasin Coder	Datas Chicula as C
Name of Stream: With the Diser	Assessed But For Ja Contraction To La
Reach Code: 1) A 10	Assessed by Frank COUNTAIN FVANK
Designated Stream Type:	Difeo, Dany Zrelak
Site ID:	
Make All Observation	ns Facing Downstream
Location of Barrier: Mark and label the location of the bar	rier on the man and provide a brief description of the location of
the barrier relative to roads or other landmarks.	ier on the map and provide a oner description of the location of
Just down from Route 1.	Tide gates
L	
Type of Barrier: Mark the type of fish barrier.	
	Velocity Barrier
Dam Data: Provide all relevant data.	
Height of Dam: ft. Length of Spillway: ft.	Shape of Spillway: Straight Crescent
Materials: Stone Concrete Stone	one & Concrete
Is there other infrastructure associated with the Da	<b>m?</b> $\square$ No $\square$ Yes (If ves mark the type below)
□ Factory □ Hydro Facility □ Mill	
Culvert Data: Provide all relevant data.	
Type of Culvert:         □ Box         □ Pipe	Pipe-Arch     Arch
Culvert Material: Concrete Corru	gated Metal Plastic Stone
Culvert Outlet:  Perched: ft.	□ Ramped □ Submerged
Culvert Size: Diameter: ft.	Height: ft. Width: ft.
# of Culverts: Culvert Length: ft.	
Valanity Barrier Datas Bravids all relevant data	and the second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second sec
Noture of Barrier: Grade Control Sill Grade	acrete Apron D Channel Cross Section D Other
Longth of Barrier: D Olde Control Sin D Col	Direct Apron D Chaimer Cross-Section D Other
Length of Darrier. It. Approx. vertice	i Kise: it.
Notes: Use the space provided to record important obs	any attenuise not contured on this cheet
Notes. Ose the space provided to record important obs	ervations otherwise not captured on this sheet.
A number of the old	er tide cates are defenioration
Brindia East. If they were	heplaced ware file word
Carried District The Provent	period , man a reset woomed
pass.	

Trash / Debris

Survey Basin Code:		Date: &	19/2015	
Name of Stream: V	Lest River	Assessed	By:	
Reach Code: LM	12			
Designated Stream Ty	ype:			
Site ID:				
	Make All Ob	oservations Facing $Do$	wnstream	
Location / Extent of	Trash or Debris: Mar	k and label the location of t	he trash or debris on the <u>ma</u>	and provide a brief
description of the location	relative to roads or other l	andmarks.		
□ Within Stream	🗆 Riparian Are	a: 🗖 Left Bank 🕅 I	Right Bank	0
Type:				
Material:		K. Tires		☐ Other
	D Vand Waste		Automotive	
Sources				
Jond Ownershin				
Land Ownersmp:		ruone		
Notes: Use the space	provided to record imr	ortant observations of	herryise not contures of	a this sheet
Notes: Ose the space		Jortani Observations of	nerwise not captures of	i uns sneet.
We have	e elected to	use one f	orm, and not	the
map becaus	e while them	e were a gri	eat number of	f tires in
in many po	rtions of the	heft side of	- the reach, o	and
some on the	- right, they	weve for the	most part he	pive to
stabilize m	ud banks. T	he same was.	true of cever	al other
automotive	wastes" and	much of the	blacktop chi	unk hip vap
(Aphoto sv	lows Mussels	growing an of	ld blacktop.	
Those We	realso at le	ast three shop	pivy carts, son	re floating
De a	Historezalia	tide but for	1 fam place	tic bacs.
material on	ING. INCOMING	rule, and re	me it and the	
beer cans et	ē.			

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#### Reach Level Assessment

Name of Stream: Reach Code: Designated Stream	WEST R	WF.P						
Reach Code: Designated Stream	1111-2	No Dec	Name of Stream: WEST RIVER A					
Designated Stream					130-2	-45		
	Туре:							
	1	Make All Ob	servation	s Fa	cing Downs	tream		
Was the entire reac	h of stream	surveyed?	Yes E	] No	o, Which section	on(s) were no	t surveyed? Why?	
Channel Morphol	ogy: Mark th	e predominate o	condition(s)	), and	l indicate the ave	rage measureme	nts.	
□ Step-Pool □	] Pool-Riffle	e 🙇 Run	GI	ide	*  Manip	ulated Chann	el (piped, lined, etc.)	
Active Channel Wi	dth: 17	51		0	Glide Depth:	~		
Riffle Depth:		15	tep Height:					
Pool Depth:		E	Bank Height (F	(ight Bank):	12"			
Run Depth:	75'			E	Bank Height (L	eft Bank):	12"	
Substants Commen	itions 14.1						7	
Substrate Composition: Mark approximate percentages for					ch substrate type	observed.	-	
Sand	Silt of Clay $\square < 5\%$ $\square 5-25\%$ $\square 25-50\%$		0%	<b>E</b> 50-75%	1 >75%	-		
Gravel (0.1.2 inches)				1 >75%				
Cobble (2.10 inches)	ST <50/		1 23-3	07/0		LI >/3%	-	
Boulder (>10 inches)	M <50/	T 5 250/	0 23-3	0/0		L >/3%	1	
Bedrock	X <5%	$\Box 5-25\%$	D 25-5	0%			-	
Deditoex				070	1 1 30-7378	12/1370	1	
Describe Water C	onditions:	Mark all that ap	ply.			Area	a of Concern Worksho	
Clear St	ained ("iced	tea")	<u> * 🗆 T</u>	urbi	d (muddy / silty)	E	ndicate # and type of sheets	
*□ Green   *□ F	Rusty-Red			filky	/	com	oleted for this reach assessn	
$\square Odors   \square Odors   □ Odors   □ Odors   □ Odors   □ Odors   □ Odors   □ Odors   □ Odors   □ Odors   □ Odors   □ Odors   □ Odors   □ Odors   □ Odors   □ Odors   □ Odors   □ Odors   □ Odors   □ Odors   □ Odors   □ Odors   □ Odors   □ Odors   □ Odors   □ Odors   □ Odors   □ Odors   □ Odors   □ Odors   □ Odors   □ Odors   □ Odors   □ Odors   □ Odors   □ Odors   □ Odors   □ Odors   □ Odors   □ Odors   □ Odors   □ Odors   □ Odors   □ Odors   □ Odors   □ Odors   □ Odors   □ Odors   □ Odors   □ Odors   □ Odors   □ Odors   □ Odors   □ Odors   □ Odors   □ Odors   □ Odors   □ Odors   □ Odors   □ Odors   □ Odors   □ Odors   □ Odors   □ Odors   □ Odors   □ Odors   □ Odors   □ Odors   □ Odors   □ Odors   □ Odors   □ Odors   □ Odors   □ Odors   □ Odors   □ Odors   □ Odors   □ Odors   □ Odors   □ Odors   □ Odors   □ Odors   □ Odors   □ Odors   □ Odors   □ Odors   □ Odors   □ Odors   □ Odors   □ Odors   □ Odors   □ Odors   □ Odors   □ Odors   □ Odors   □ Odors   □ Odors   □ Odors   □ Odors   □ Odors   □ Odors   □ Odors   □ Odors   □ Odors   □ Odors   □ Odors   □ Odors   □ Odors   □ Odors   □ Odors   □ Odors   □ Odors   □ Odors   □ Odors   □ Odors   □ Odors   □ Odors   □ Odors   □ Odors   □ Odors   □ Odors   □ Odors   □ Odors   □ Odors   □ Odors   □ Odors   □ Odors   □ Odors   □ Odors   □ Odors   □ Odors   □ Odors   □ Odors   □ Odors   □ Odors   □ Odors   □ Odors   □ Odors   □ Odors   □ Odors   □ Odors   □ Odors   □ Odors   □ Odors   □ Odors   □ Odors   □ Odors   □ Odors   □ Odors   □ Odors   □ Odors   □ Odors   □ Odors   □ Odors   □ Odors   □ Odors   □ Odors   □ Odors   □ Odors   □ Odors   □ Od$	Other (foam, d	yes, chemicals)					Erosion	
Aquatic Plants in	Stream:						Fish Barrier	
Floating: (e.g. duck y	veed) X A	hsent III	n Snots	*	1 Everywhere	Stor	m water Outrall	
Attached: (e.g. water	lily) ZA	bsent III	n Spots	*	Everywhere	M	Imported Buffer	
							Trash / Debris	
Algae in Stream:						1	Vater Conditions	
Floating: (e.g. plankt	onic) 🛛 🗛	bsent 🛛 I	n Spots	*[	] Everywhere		and conditions	
Attached: (e.g. filam	entous) 🛛 🗖 A	bsent 🛛 🖬 I	n Spots	*[	Everywhere	-		
Canony Covers 14	a-le a!:	· · · · ·	C_4				-	
D>75% covered		covered	SOUCE	verec	vorad 5	250/ 0000000	-	
			5070-23	/0 U	Weren Inter	2376 covered		
Note: Items m	arked with a	n asterisk (*)	indicate	a po	tential area of	concern. Ple	ase record all relevant	

Reach Level Assessment

<b>Riparian Vegetat</b>	ion: Characte	rize the average de	ensity of vegetation	in the first 35 feet a	djacent to the stre	am for both banks.
	LeftBank	Right Bank	Left Bank	Right Bank	Left Bank	Right Bank
Turf Grass	Low	Low	☐ Moderate	□ Moderate	High	I High
Grass	Low	Low Low	☐ Moderate	□ Moderate	🖾 High	🗇 High
Shrubs	Low	Low	☐ Moderate	□ Moderate	<b>High</b>	High
Deciduous Trees	🖾 Low	🗷 Low	□ Moderate	☐ Moderate	🗆 High	🗆 High
Coniferous Trees	Low	Low Low	☐ Moderate	☐ Moderate	□High	High

Surrounding Lan	d Use: Mark the	dominate land use(s) for	each "zone", if kno	wn or observed.			
Immediately adjacent to stream < 1/4 Mile from		< 1/4 Mile from stre	am	>¼ Mile,from stream			
DRural Residential	Agricultural	Rural Residential	Agricultural	Rural Residential	Agricultural		
Suburban     Residential	E Forested	Suburban     Residential	K Forested	Suburban Residential	A.Forested		
Urban Residential	Recreational	Urban Residential	Recreational	Urban Residential	Recreational		
D Industrial	Other	Industrial	□ Other		🗆 Other		
Commercial		Commercial		Commercial			

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

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

4.

Storm Water Outfall

1								
Survey Basin Code:				Date:	370	3/15		
Name of Stream: W	651	RIVER		Assessed	Bv:	AH KB	7	A
Reach Code: L W	3							
Designated Stream T	ype:							
Site ID:				1				
1		Make All (	Observation	s Facing I	Down	istream		
Location of Outfall: brief description of the loc $ N \ L_{N} \in \mathbb{R}$	Cation c	ight Bank X Let of the outfall relative LEGION AV	ft Bank Matter $Matter Matter	rk and label her landma	the lo	ocation of the out	fall on	the <u>map</u> and provide a
On the U.T.				<u></u>	153.7	<u>Ola</u>		
Outian Type:		ipe		<u> </u>		Channel		LVERT
Flow:		one				Moderate	ᆛ님	Substantial
Daor:		one		( 17) 14		Rancid / Sour	ᆛ措	Sulfur (rotten eggs)
Deposits / Stains		one		nt Delta		Oily Stain	ᆉᄇᅼ	Black
Bentnic Growth		one	L Brown			Green		Orange
Pipe Data: Provide a	ll rele	vant data.		. 13.6 .				
Pipe Material:	()			ated Meta	<u>u  </u>	U Plastic		
Contributing Source	e(s):			g Lot		□ Other		nknown
Pipe Outlet:		Perched	ft.	ft. LI Ramp		bed L		t Stream Level
Pipe Size:		Diameter:	ft					
# of Pipes:			- <u>r</u>					+
Leak-Off Data: Prov	vide al	l relevant data.						
Leak-Off Swale:		Concrete	□ Asphalt			Stone		Earthen
Contributing Source	e (s):	C Road	Parking	; Lot		Recreational F	ield	□ Other
Length of Swale:	ft.							
Width of Swale:	<u>ft.</u>						_	
Channel Data: Provi	ide all	relevant data.		A.				
Channel Material:		Concrete	☐ Asphalt			Stone		Earthen
Contributing Source	e (s):	Road E	Parking Lo	ot 🗆 R	lecrea	ational Field		Other Duknown
Channel Length: ?	ft.							
Channel Width:	4 ft.							
Notes: Use the space	provi	ded to record imp	portant obse	rvations o	other	wise not captu	res oi	n this sheet.
CULVER	eT	RECTIONSUU	a Ber	e 4'	WI	DE, 18"-	TAU	
AT RIV	IC R	LEVEL						

. T.

Degraded Buffer

Survey Basin C	Code:					Date:	13	13/1	5			
Name of Stream	<u>m: We</u>	S T	RIVER			Assessed	By:	: ß	н -	TA KR		
Reach Code:	LW	1.3										
Designated Str	eam Typ	e:										
Site ID:												
Per the second			Make A	II Ob	servation	s Facing Do	owr	istrea	m	1	-	
Location / Ext	ent of D	egra	ded Buffer	r: 1) N	Aark and l	abel the locatio	n of I	the degr	aded hu	effer on the m	190	2) Briefly
describe the locati	on of the s	ite rel	lative to road	s or oth	ner landma	arks.					nap.	2) Brieny
NARROU	~ B	UFF	For A	Low	e p	ARK A	7		lie ret	14 C-US	5	
<i><b>A</b> C</i>	т., е		a		7				¥ -			
Gr	00 4	en c	7									
Mark where t	he degra	ded	buffer occ	urs.								
Meander Be	nd		🖾 Straight	Secti	on	Steep Slo	pe/\	/allev '	Wall		ner	
🗷 Left Bank			Q			Estimate len	gth	of degr	aded	buffer: Co		
🗆 Right Bank			<u>`</u>			Estimate len	gth	of degr	aded	buffer:		ft.
Type of Degra	dation:							_				
Left Bank:				al Ve _l	getation	<b>B</b> .Minima	al W	idth	🗆 In	vasive Pla	nts	Other
Right Bank:				al Ve _l	getation	🗆 Minima	al W	idth		vasive Pla	nts	□ Other
Dominate	Paved Bare Ground Turf /				- 1	Tall Grass	Somula / Shaula Traces				Other	
Land Cover	1 4 7 5 4	[ ]	e oround	Law	'n	Tall Olass	SU	u0730	iiuu	Trees		Other
Left Bank				L. C.		57						
<b>Right Bank</b>												
				L	1							
Immediately A	Adjacent	Lan	d Use: Ma	irk the	land use(s	) immediately a	adjac	ent to the	e modi	fied section.		
Left Bank:		l Res	sidential		Urb:	an Residentia	al		nmerc	cial	X	Forested
	🗆 Subu	rban	Residentia	al	🛛 🗆 Indi	ıstrial			ricultu	iral		Recreational
Right Bank:	C Rura	l Res	sidential		Urb:	an Residentia	al	Cor	nmerc	cial		Forested
	🗆 Subu	rban	Residentia	<u>1</u>	🛛 🗆 Indı	ıstrial			ricultu	iral		Recreational
Existing Widt	h of Ping	riar	Vogetati									
Left Bank.		15 ft		<u>ла Ма</u> Т 15.	ark me avi	erage width of i	npari:	an veget	ation to	the modifie	d sect	tion.
Right Bank:		15 ft		115-	- 35 ft		0 IL. 0 F		<u>1 20 -</u>	100 ft		> 100 ft
August Dunne.		15 10	·•	115-	<u> </u>		<u>0 II.</u>		1 30 -	100 11	- ECI -	2100 π
Notes: Use the	space pr	ovid	ed to recor	d imp	ortant ol	oservations o	ther	wise no	ot capt	ures on thi	s she	eet.
		_										

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Modified Channel

Name of Stream: UCST	RIVER	Assessed	BV BH	KR	TΛ	
Reach Code: Lw-3		113363360	<u>Dy. Dit</u>	110		
Designated Stream Type:						
Site ID:						
	Males All Observe	т.:. Do	matua	C1144		
Logation / Extant of Modi	Find Channels 14	Facing DO	whistre	um		
brief description of the location of	f the channel section relative to r	the location of	of the modif	fied chann	iel on the map	and provide
Calture Colasta	lee is Maal was	oada or other		-		
En lief citar	ice in the may	Ety	REVOE	D		
Mark where channel mod	figation occurs:					_
Meander Bend	Straight Section	□ Steen S	lope/Vall	av Wall	D Other	
Estimate length of channe	modification:	O 8 mills	noper van	cy wan		
Estimate height of bank m	odification:	C.C. MINE				
	It.					
Type of Manipulation:	🗷 Channelization 🛛 🛛 Ba	ink Armorir	ng 🛛 🗘	Concrete	Channel	D Othe
Extent of Manipulation:	Right Bank M Le	ft Bank		Channel	Bottom	
<b>Channel / Bank Materials</b>	X Natural C Rip	Rap C	Concrete		abions	□ Metal
Immediately Adjacent La	ad Ilso. Mark the land use (a) :		11			
Rural Residential	Urban Residential		jacent to the	ie modifie	Ed section.	
Suburban Residential			ltural		E Porestea	
					Cu Recleatio	
<b>Existing Width of Riparia</b>	n Vegetation: Mark the avera	ge width of ri	parian vege	tation to t	he modified se	ction.
$\Box$ < 15 ft. $\Box$ 15	$-35 \text{ ft.}$ <b><i>RL</i></b> $\Box 35 - 50$	) ft	□ 50 -	100 ft	AC > 1	00 ft (R)
Is there a change in the aver	age width of the active cha	nno12				
Is there evidence of sedime	age which of the active chan		M Ves	Estimate	Width: It	DA No
Is the channel connected to	a floodplain?	<u>·                                    </u>				
			ALI ICS	η		
Notes: Use the space provid	ed to record important obse	ervations ot	herwise n	ot captu	res on this sl	neet.


#### CT-NRCS Stream Assessment Sheet

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Reach Level Assessment

Name of Stream: WEST CIVER Reach Code: LW - H Designated Stream Type:	Assessed By: BH KB TA
Reach Code: <u>Lw - 4</u> Designated Stream Type:	
Designated Stream Type:	
Make All Observation	ns Facing Downstream
Was the entire reach of stream surveyed? X 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 □ G	lide <b>*</b> 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):
Silt or Clay       <5%       5-25%       25-3         Sand       <5%       5-25%       25-3         Gravel (0.1-2 inches)       <5%       5-25%       25-3         Cobble (2-10 inches)       <5%       5-25%       25-3         Boulder (>10 inches)       <5%       5-25%       25-3         Bedrock       <5%       5-25%       25-3	50% $50-75%$ $1 > 75%$ $50%$ $50-75%$ $> 75%$ $50%$ $50-75%$ $> 75%$ $50%$ $50-75%$ $> 75%$ $50%$ $50-75%$ $> 75%$ $50%$ $50-75%$ $> 75%$ $50%$ $50-75%$ $> 75%$ $50%$ $50-75%$ $> 75%$
Describe Water Conditions: Mark all that apply.	Area of Concern Worksho
K Clear □ Stained ("iced tea") *□	Indicate # and type of sheets
* Odors / * Other (from duce shamicals)	VIIIKy Economic Completed for this reach assessing
Li Odors   Li Other (Ioani, dyes, chemicais)	Fish Barrier
Aquatic Plants in Stream:	Storm Water Outfall
Floating: (e.g. duck weed) 🛛 Absent 🗍 In Spots	* Everywhere Modified Channel
Attached: (e.g. water lily)	* Everywhere Impacted Buffer
Algas in Stream.	Trash / Débris
Floating: (a a plantania)	Water Conditions
Attached: (e.g. filamentous) 21 Absent 1 In Spots	
remeneer (e.g. manenous)   pq rosent   L III Spots	
Canopy Cover: Mark approximate percentage of stream ca >75% covered   75-50% covered   50%-25	overed by tree canopy. $0\%$ covered $\Box < 25\%$ covered

#### CT-NRCS Stream Assessment Sheet

#### Reach Level Assessment

<b>Riparian Vegetat</b>	ion: Character	rize the average de	ensity of vegetation	in the first 35 feet a	djacent to the stre	am for both banks.
	Left Bank	Right/Bank	Left Bank	Right Bank	Left Bank	Right Bank
Turf Grass	Low [	Low	☐ Moderate	☐ Moderate	High	High 🗆
Grass	Low	Low	☐ Moderate	☐ Moderate	<b>M</b> High	High High
Shrubs	Low	Low	☐ Moderate	☐ Moderate	<b>M</b> High	🔊 High
Deciduous Trees	Low	Low	□ Moderate	D Moderate	🗅 High	High
Coniferous Tress	Low	Low	□ Moderate	☐ Moderate	High	🗆 High

Surrounding Lan	d Use: Mark the	dominate land use(s) for	each "zone", if kno	wn or observed.	S
Immediately adjace	ent to stream	< 1/4 Mile from stre	am	> 1/4 Mile from stree	am
<b>D</b> Rural Residential	Agricultural	🛛 Rural Residential	□ Agricultural	Rural Residential	Agricultural
Suburban Residential	Forested	□ Suburban Residential	K Forested	Suburban Residential	E Forested
UUrban Residential	Recreational	🗖 Urban Residential	Recreational	Urban Residential	Recreational
Industrial	Other	🗖 Industrial	Other		Other
Commercial		Commercial		E Commercial	

Areas of Concern Checklist: Marking Yes" to any of the following questions indicates that an Area of	Concern W	orksheet
should be filled out for the appropriate concern. For each occurrence observed, complete and area of concern sh	neet.	
Is there evidence of either stream bank erosion or streambed instability within the reach?	I Yes	D No
Are there any dams or any other possible natural or artificial barriers to fish migration?	□ Yes	No
Are there any storm water outfalls, discharge pipes or discharges within the reach? Indicate	E Yes	□ No
the number observed: 7		6
Is there any portion of the channel that has been modified (not culvert) (channeled, piped, rip	🗆 Yes	No No
rap)?		
Is there any portion of the reach where the riparian buffer has been compromised or is	□ Yes	🖾 No
nonexistent?	1. 600	
Is there any portion of the reach that contains trash or other debris (cars, appliances, construction	T Yes	DE No
waste)?	1.1	
Is there any portion of the reach that has a change in water conditions?	I Yes	No No

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

i

Storm Water Outfall

Survey Basin Code:				Date:	8-13-15		
Name of Stream: W	637	RIVER		Assessed	By: BH TA K	.C	
Reach Code:	LW.	-4					
Designated Stream T	ype:						
Site ID:				1.000	· · · · · · · · · · · · · · · · · · ·		н
		Make All (	Observations	Facing I	Downstream		
Location of Outfall: brief description of the lo	Ri cation o	ght Bank Ace	ft Bank Mar to roads or ot	k and label her landma	the location of the out rks.	tfall or	the <u>map</u> and provide a
Outfall Type:	Pi Pi	ne	□ Leak Of	f	K Channel		
Flow:		one	Trickle				Substantia
Odor:		one	Sewage		Rancid / Sour	╡┤	Sulfur (rotten eggs)
Deposits / Stains		one	Sedimer	nt Delta	Oily Stain		Black
Benthic Growth		one			Green		Orange
Pine Data: Provide a	ll relev	vant data.	<u> </u>				- Official Bo
Pipe Material:		Concrete	Сопид	ated Meta	al D Plastic		D Other
Contributing Source(s):		Road	Parking Lot		□ Other □		Inknown
Pipe Outlet:		Perched	4 ft.		ped		t Stream Level
Pipe Size:		Diameter: 0,5-	8 ft.				
# of Pipes:						⊠ 3	+ 6
Leak-Off Data: Prov	vide al	l relevant data.					
Leak-Off Swale:		Concrete	□ Asphalt		□ Stone		Earthen
<b>Contributing Source</b>	e (s):	🗆 Road	D Parking	Lot	C Recreational F	ield	□ Other
Length of Swale:	ft.						
Width of Swale:	ft.						
Channel Data: Prov	ide all	relevant data.					
Channel Material:		Concrete	Asphalt		□ Stone		Earthen
<b>Contributing Source</b>	e (s):	Road C	Parking Lo	ot 🗆 R	Recreational Field		Other \Lambda Unknown
Channel Length:	ft.						· •
Channel Width: 4	ft.		18" Th	u	CONNECTS 70	Re	FLECHING POOL?
Notes: Use the space	provid	ded to record imp	portant obse	rvations o	otherwise not captu	ires o	n this sheet.
15 4	" Ca	NC XAT	RIVER 1	ever			
8	Cu	LUFACT PIPE	, 4' PERC	R			
12"	C 6+	UC AT	water le	JEL			



## CT-NRCS Stream Assessment Sheet

### Reach Level Assessment

Survey Basin Code:				Dat	e(s): Au	a 11	1 201	5
Name of Stream: Lue	+ RII	RT.		Ass	essed By:	5		·
Reach Code: LW	5 8	t.	,	St	cohane	F	7- 6	nad
Designated Stream Type:		L		A	Agel 1	fer	ste	7
	Mak	ce All Obs	ervations	Facin	Downst	rea	n	
Was the entire reach of st	ream surv	eved?	Yes 🕅	No V	Which section	n(s) v	vere not	surveyed? Why?
Rte 34 Bn	dac	to ri	0.000	l	St Bra	lao		Surveyou: Wily:
Do aut A	Potin	e vi	regen			F		
1 can ovi a	1					a	1.	
May surve	y re	marm	de	- 1	mom	po	anti	/
Channel Mornhology:	Mark the nre	dominate co	ndition(s)	and in	dicate the avera	ne me	asuremen	te
Step-Pool DPool	-Riffle	Run			* Maninu	lated	Channe	(niped lined etc.)
Active Channel Width		351	/ 5/10	Glic	le Depth		Cintinio	· (pipea, mica, etc.)
Riffle Depth:	C			Ster	Height			
Pool Depth:	1			Ban	k Height (Ri	ght F	lank):	51
Run Depth:				Ban	k Height (Le	eft Ba	nk):	41 Wetlan
								1 company
Substrate Composition:	Mark appr	oximate perc	entages for	r each s	substrate type o	bserv	ed.	
Silt or Clay $\Box <$	5% 🛛	5-25%	25-50	% Þ	1 50-75%		75%	
Sand 🛛 <	5% 🛛	5-25%	25-50	% C	3 50-75%		75%	
Gravel (0 1-2 inches)	5% 🗵	5-25%	25-50	% E	50-75%		75%	
Cobble (2-10 inches)	5% 🗆	5-25%	25-50	%   C	<b>50-75%</b>		75%	
Boulder (>10 inches)	5% 🗆	5-25%	25-50	<u>%   C</u>	50-75%		75%	
Bedrock Z <	5% 🛛	5-25%	25-50	%   C	<b>3</b> 50-75%		75%	
Describe Water Conditi	ons: Mark	ull that appl				1		
Clear Stained	("iced tea"	י <i>ן</i> א	.y. │ <b>*⊠ि</b> Tu	rhid (	muddy / cilty)		Area	OI Concern Worksheet
* Green * Rusty-	Red	/	<u>≁⊡</u> Mi	Ikv	Nahrmy		compl	eted for this reach assessmen
*⊠ Odors *□ Other (	foam dves	chemicals)		iky	upel	17		Erosion O
	10411, 1900,	onennearsy			Phrania	Th		Fish Barrier
<b>Aquatic Plants in Stream</b>	<u>n:</u>				0	DI-	Storm	Water Outfall
Floating: (e.g. duck weed)	🛛 🖾 Abse	nt 🗆 In	Spots	*🗆 E	Everywhere		Mo	dified Channel
Attached: (e.g. water lily)		nt 🕅 In	Spots	*🗆 E	Everywhere		Ir	npacted Buffer
Alega in Education		~~~	n fer	~				Trash / Debris
Algae in Stream:			Renta T	* 🗖 ד			Wa	ater Conditions
Attached: (a = filmentonic)	ADSE		Spots		verywhere			
Auacheu. (e.g. mamentous)	ADSE		spois		werywnere	1		
Canopy Cover: Mark app	roximate pe	rcentage of s	tream cove	red by	tree canopy			
$\square > 75\%$ covered $\square 75$	50% 2016	ared M 4	50%-25%	cove	red D<2	50/2 0	overed	
	-JU /0 LUVC		////*****			J / D LI	UVCICU I	

information on the appropriate Area of Concern Worksheet(s).

#### **CT-NRCS Stream Assessment Sheet**



Reach Level Assessmen

<b>Riparian Vegetat</b>	ion: Character	rize the average de	nsity of vegetation	in the first 35 feet a	djacent to the strep	m for both banks.
	Left Bank	Right Bank	Left Bank	Right Bank	Left Bank	Right Bank
Turf Grass	Low	□ Low	☐ Moderate	Moderate	High /	High
Grass	□ Low	Low	☐ Moderate	Moderate	D'High */	🖾 High
Shrubs	Low	Low	☐ Moderate	Moderate	🗆 High	□ High
Deciduous Trees	Low	Low	D Moderate	A Moderate	🗆 High	🗆 High
Coniferous Trees	Low	Low	D Moderate	☐ Moderate	🗆 High	🗆 High

Surrounding Lan	d Use: Mark the d	lominate land use(s) for	each "zone", if know	n or observed.	
Immediately adjac	ent to stream	<¼ Mile from stre	am	> 1/4 Mile from stres	m
C Rural Residential	□ Agricultural	Rural Residential	Agricultural	Rural Residential	□ Agricultural
Suburban	Forested	Suburban	□ Forested	D Suburban	Forested
Residential		Residential		Residential - 1	
Urban Residential	C Recreational	Urban Residential	E Recreational	DUrban Residential	Recreational
Industrial	Other Parts	Industrial	Other 1-0	D Industrial	Other D-0
Commercial	1 weiterer i	Commercial	wetten of the	Commercial	westland to
	Tenny ter	( les	NB CIN	R	

Areas of Concern Checklist: Marking "Yes" to any of the following questions indicates that an Area of	Concern W	orksheet
should be filled out for the appropriate concern. For each occurrence observed, complete and area of concern sl	neet.	12
Is there evidence of either stream bank erosion or streambed instability within the reach?	□ Yes	🖄 No
Are there any dams or any other possible natural or artificial barriers to fish migration?	□ Yes	🖾 No
Are there any storm water outfalls, discharge pipes or discharges within the reach? Indicate	Yes Yes	🗖 No
he number observed:	1	[,
Is there any portion of the channel that has been modified (not culvert) (channeled, piped, rip	Ves Yes	ZI No
rap)?	r.	2
Is there any portion of the reach where the riparian buffer has been compromised or is	2 Yes	K No
nonexistent?		
Is there any portion of the reach that contains trash or other debris (cars, appliances, construction	Yes Yes	🗆 No
waste)?		.,
Is there any portion of the reach that has a change in water conditions?	🗆 Yes	X 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 Could see flow of water going north (tridal action) Average depth of water 3.8-3.5' with shallower sandhars with shallower sandhars with deeper spots Sometimes in modeller to 5' ft sometimes hear one bank sometimes hear out Paills Reach Level Assessment Along lept side is large parketland. most plants: phragmates + some Along fight back - clay bank, Jap tanotweed, some large trees - oaks + smaller understory trees elms of thees dead from return of brackish water & yrs ago Some birds observed - osprey, hawk, sea gulls, Canada geese, ducks, King Fisher (?) + 5ther small Tree cober varies from Almost none to 752, - Je average 5075-2570 OT

.....

	_					X		
Survey Basin Code:		1-2-0		Date:	8/12	L /	~	
Name of Stream:	Nes	TKIVE		Assessed	IBy: ¹			
Reach Code:	L	W S		Ster	shanie F	tz(	erald	
Designated Stream T	ype:			An-	ul Her	sl	et	
Site ID:	_			. 0				
	1.1.25	Make All	Observation	s Facing I	Downstream			
Location of Outfall: brief description of the loc	Cation of	ight Bank KLe	ft Bank Mar to roads or ot	rk and label her landma	the location of the our the location of the our the location of the our the location of the location of the location of the location of the location of the location of the location of the location of the location of the location of the location of the location of the location of the location of the location of the location of the location of the location of the location of the location of the location of the location of the location of the location of the location of the location of the location of the location of the location of the location of the location of the location of the location of the location of the location of the location of the location of the location of the location of the location of the location of the location of the location of the location of the location of the location of the location of the location of the location of the location of the location of the location of the location of the location of the location of the location of the location of the location of the location of the location of the location of the location of the location of the location of the location of the location of the location of the location of the location of the location of the location of the location of the location of the location of the location of the location of the location of the location of the location of the location of the location of the location of the location of the location of the location of the location of the location of the location of the location of the location of the location of the location of the location of the location of the location of the location of the location of the location of the location of the location of the location of the location of the location of the location of the location of the location of the location of the location of the location of the location of the location of the location of the location of the location of the location of the location of the location of the location of the location of the location of the location of the location of the location of the lo	utfall o	n the <u>map</u> and provide a	
Unde	r	Rte :	34 6	Bud	ge			
<u></u>								
Outfall Type:	Ø P	ipe	Leak O	ff	Channel		· <u>·</u>	
Flow:	🗖 N	one	Trickle		Moderate		Substantial	
Odor:	ΠN	one	Sewage		Rancid / Sour		Sulfur (rotten eggs	
Deposits / Stains		one	Sedime	nt Delta	Oily Stain		I Black	
Benthic Growth	ΠN	one	Brown		Green [		] Orange	
Pipe Data: Provide a	ll rele	vant data.	A	1. 199		1.15	Man and the sec	
Pipe Material:		Concrete	Corrug	ated Meta	I D Plastic		□ Other	
<b>Contributing Source</b>	e(s):	Road	Parking	g Lot	□ Other	Πι	Jnknown	
Pipe Outlet:	1	, 🗖 Perched	<u>ft.</u>	🗆 Ramp	bed		t Stream Level	
Pipe Size:		Diameter: 2	5 ft.					
# of Pipes:		X1		2	<u> </u>		+	
		- 10 m		and the second				
Leak-Off Data: Prov	ide al	l relevant data.	aller and the	a strand and a strand and a strand and a strand and a strand and a strand and a strand and a strand and a strand and a strand and a strand and a strand and a strand and a strand and a strand and a strand and a strand and a strand and a strand and a strand and a strand and a strand and a strand and a strand and a strand and a strand and a strand and a strand and a strand and a strand and a strand and a strand and a strand and a strand and a strand and a strand and a strand and a strand and a strand and a strand and a strand and a strand and a strand and a strand and a strand and a strand and a strand and a strand and a strand and a strand and a strand and a strand and a strand and a strand and a strand and a strand and a strand and a strand and a strand and a strand and a strand and a strand and a strand and a strand and a strand and a strand and a strand and a strand and a strand and a strand and a strand and a strand and a strand and a strand and a strand and a strand and a strand and a strand and a strand and a strand and a strand and a strand and a strand and a strand and a strand and a strand and a strand and a strand and a strand and a strand and a strand and a strand and a strand and a strand and a strand and a strand and a strand and a strand and a strand and a strand and a strand and a strand and a strand and a strand and a strand and a strand and a strand and a strand and a strand and a strand and a strand and a strand and a strand and a strand and a strand and a strand and as		1947 - 124 1		
Leak-Off Swale:		☐ Concrete	□ Asphalt		□ Stone		Earthen	
<b>Contributing Source</b>	: (s):	C Road	□ Parking	Lot	Recreational I	Field	□ Other	
Length of Swale:	ft.							
Width of Swale:	ft.							
Channel Data: Provi	de all	relevant data.			and the second second	5.55		
Channel Material:		Concrete	Asphalt		Stone		Earthen	
	(-)		Parking Lo	t DR	ecreational Field		Other Unknown	
Contributing Source	: (S):		L arking LU		cercational Tielu			
Contributing Source Channel Length:	: (s): ft.		T alking Lu					

Notes: Use the space provided to record important observations otherwise not captures on this sheet. Nothing coming out of pipe. Water smelled of Surage. Water deeper near pipe.

						1	S	torm	Water Outfall
Survey Basin Code:				Date:		8/14	17	<	
Name of Stream:	VIC	St River	r	Assessed By:					
Reach Code:	LW	5		Stephenia Etzler					
Designated Stream	Type:			0n	4	e ha		2 1-	<u>HAGIO</u>
Site ID:	- ,	<u></u>			Je	2 per	22	£1	
Sector Contractor	19425	Make All	Observation	ns Facing	Dow	nstronm	10253	190.00	- 11/V No.
Location of Outfall brief description of the l	li K R location	ight Bank 🗆 Le of the outfall relativ ~ R+	eft Bank M ve to roads or c 34	ark and labe other landma Brz	arks.	location of the ou	itfall o	n the <u>m</u>	<u>ap</u> and provide a
Outfall Tyme		ine	L Look C	) <del>f</del> f		Channel			
Flow.		ipe	Triakie	×11	님	Moderate		1 5	tential
Odor:		one			片	Panoid / Sour			
Denosite / Stains		one	C Scwag	c ant Dalta		Cil. Stain			Ir (rollen eggs)
Benthia Crowth		lone			┼岩	Olly Stain		I Blac	ĸ
Dine Data: Drouide		Vont data		L Brown		L Green		JUran	ge
Pipe Meterial	all reic	Vant Gata.			tig statt		- (		
Contributing Sour		D Road		gated Met	ai	L Plastic			Other
Disa Outlate	ce(s):	Road						Jnkno	wn
Pipe Outlet:		D' rerched	. п.	LI Kam	ped			tt Stre	am Level
Pipe Size:		Diameter: 2	S IL	100	_				·····
# 01 Pipes:		941	1		-			+	
Leak-Off Data: Pro	ovide al	l relevant data.	Tomore and the second	lain ' so innt	-		sta ju		South States
Leak-Off Swale:			Asphal	t		Stone			arthen
<b>Contributing Sour</b>	ce (s):	C Road	🗆 Parking	g Lot	Recreational Field		ld 🛛 Other		
Length of Swale:	ft.								
Width of Swale:	ft.								
<b>Channel Data:</b> Prov	vide all	relevant data.			Sec.	生物的 动脉	RE		
<b>Channel Material:</b>		Concrete	Asphal	t		I Stone		DE	arthen
<b>Contributing Source</b>	ce (s):	Road C	Parking L	ot 🗖 R	lecre	ational Field		Other	Unknown
Channel Length:	ft.								
Channel Width:	ft.								
Notes: Use the space Noth	ing er	comi Smell	ng ed	st o	other 1 Sc	pipe pipe wazł		n this :	sheet.
Strea	m	depth	- gre	ate	~	hear	- (	p	pe do

Developed By, CT-NRCS January 2008 s a

Survey Basin Code:				Date:		TY .	115		
Name of Stream:	Nes	+ Rum	/	Assessed	Assessed By				
Reach Code:	1	WR		SF	coh anie	É	Falent		
Designated Stream Type:				An	Del 11	1	at the state		
Site ID:					ger He	<u>n x</u>			
	225	Make All	Observation	s Facing I	Downstream	100.00	SERVER CARES STREET		
Location of Outfall orief description of the h	E D Ri ocation o 2/	ght Bank I Le f the outfall relative 3 of Wa 2 om 7	eto roads or o The steel	the randman $t_{\rm S}$	the location of the c rks. Chapel 2st Tenn	butfall c S S S S S	on the <u>Map</u> and provide a H. Brdge Center Pari		
Outfall Tymes				<u></u>		···			
Flow: 2		pe		Π					
Odor:							J Substantial		
Deposite / Staine				nt Dalta			J Sultur (rotten eggs)		
Pepusits / Stains				nt Delta	Ully Stain		J Black		
Dennine Growth		one	L Brown	BARRIES THAT	Green	L	J Orange		
Pipe Data: Provide a					1				
Pipe Material:			U Corrugated Meta		al U Plastic		U Other		
Loutributing Source	e(s):		A Parkin	g Lot			Jnknown		
		D'erched	<u> π.</u>				X At Stream Level ha		
ripe Size:		Diameter: /	<u> </u>						
of Pipes:							<u>}+</u>		
eak-Off Data - Pro	vide all	velevant data	State of the second second	1-1-11-11-11-11-1	and second second	Change 1	and the second state of the second		
eak-Off Swale	viuc all		Acabalt		C Stone	ENNA.			
Contributing Source	(e) •	Road	C Parking	Lot					
ength of Swale	<u>e (s).</u> ft			LUL		rieid			
Width of Swale:									
hannel Data: Prov	ide oll	relevant data	Contraction and the local	A.2. 200 - 10	CARLING AND AND A		U. NACH LEINELEINEN VON DER STERNE		
hannel Material	lac all			NET GLADINA LAN	I El Stono	e circaico	E Fouth on		
Contributing Source	e (e).		Parking I c	+ LTP	acreational Field	1	Other D University		
Channel Length:	ft.								
hannel Width	ft								
	4.6.		I				<u> </u>		
lotes: Use the space	provid	ed to record imp	portant obse	rvations o	therwise not capt	ures o	n this sheet.		
die	int	noti	co Wa	ite	moven	zu	t		
V	ree	istry i	, ne	000	+ - 10W	1			

Sumay Basin Code					Detai		1111			
Name of Stream:	1.7	Diller			Date:	d D.	8/14/	15		
Peach Code:	w	RIVER			Assess	аву	1	13		- 101
Designated Stream 7	Tuno:	Lu J.			<u></u>	<u> </u>	hene	Fit	2.17	eral
Site D.	ype:					na.	l la	- 7	7	
SHE ID.		STORE NALLASA	ΠŸ	Oheenvetien	Pasing	D	~ Iden	$\underline{\mathcal{A}}$	<u>e/ </u>	
Location of Outfall brief description of the lo	$\therefore \square R$ ocation n d	ight Bank A of the outfall rela Lev C	Le	ft Bank Mai to roads or ot apel	rk and lab her landm St	ci the arks.	location of the or nalse	utfall o	n the <u>m</u>	and provide
0-46-11 7	Tre	•								
Outfall Type:		ipe		L Leak Of		ᆜᆜ	Channel			
Flow:		lone			_		Moderate		l Subs	tantial
Udor:		lone		L Sewage		ᆜᆜ	Rancid / Sour		l Sulfi	ir (rotten egg
Deposits / Stains		lone			nt Delta	ᆛᆜ	Oily Stain		Black	٢
Benthic Growth		lone		L Brown			Green		Oran	ge
Pipe Data: Provide	all rele	vant data.	34			2.26/2				12 Alexandra de
Pipe Material:		Le Concrete			ated Me	tal	D Plastic			Other
Contributing Source	:e(s):			🗆 Parking	g Lot		🗆 Other		Inknov	vn
Pipe Outlet:		Perched		ft.		nped			t Stre	am Level
Pipe Size:		Diameter:	2	/2_ft.						
# of Pipes:			<u>_</u>						+	
Leak-Off Data: Pro	vide a	ll relevant data	4		-		Service Strengthe		699492	第二百姓 医马
Leak-Off Swale:				C Asphalt			Stone			arthen
Contributing Source	:e (s):			□ Parking	Lot		Recreational I	Field		ther
Length of Swale:	<u>ft.</u>									
Width of Swale:	ft.									
Channel Data: Prov	ide all	relevant data.	25			1		The second		金融的AGE
Channel Material:		Concrete		□ Asphalt			Stone			arthen
Contributing Source	e (s):	Road		Parking Lo	<u>t [D]</u>	Recre	ational Field		Other	Unknow
Channel Length:	<u> </u>									
Channel Width:	<u>ft.</u>									
		ded to record it	mr	ortant obser	vations	other	wise not capti	ires oi	ı this s	heet.
Notes: Use the space	: provi	ded to record i		ortanic objer	vanona			105 01		

H

Survey Basin Code:				Date:		811	41	5
Name of Stream:	W	Kuber	/	Assessed By:				
Reach Code:	Ĺ	$-W \leq$		<u></u>	pl	rance	Fi	triperal
Designated Stream	Гуре:			An	1 a e	l IIa	en l	at
Site ID:					8	- 110		-01
	1	Make Ali	Observation	is Facing.	Dow	nstream		White School Store
Location of Outfall prief description of the l	Cation	ight Bank 🛛 L of the outfall relativ	eft Bank Ma	ark and labe ther landma	l the irks.	location of the or	utfall o	n the <u>map</u> and provide a
Unde (Se	v-	Chap h)	el Si	t.Br	70	dges		rleaverp.
	42				<u> </u>		-	always
Outfall Type:	2AP	ipe	Leak C	off		Channel /	$\sim$	Grom
Flow:	<b>N</b>	lone	Trickle	-31	Ø	Moderate		Substantial
Odor:	DN	lone	D Sewage			Rancid / Sour	E	Sulfur (rotten eggs)
Deposits / Stains		lone	Sedime	ent Delta		Oily Stain		Black
Benthic Growth		lone	Brown			Green		Orange
Pipe Data: Provide	all rele	vant data.	とうなる 構造権		(19) an		1	
Pipe Material:		Concrete	Corrug	gated Met	al	Plastic		D Other
<b>Contributing Sour</b>	ce(s):	C Road	🗆 Parkin	g Lot		□ Other		Inknown
Pipe Outlet:		Perched	ft.	🗖 Ram	ped			t Stream Level
Pipe Size:		Diameter:	2/3 ft.					
# of Pipes:			/					+
Leak-Off Data: Pro	ivide a	l relevant data.	Contraction of the second	States	-	- Hannah Mille	<b>美国</b> 、	
Leak-Off Swale:			Asphal	t		Stone		E Earthen
Contributing Source	:e (s):		Parking	g Lot		Recreational I	Field	Other 🗌
ength of Swale:	ft.							
Width of Swale:	ft.							
Channel Data: Prov	vide all	relevant data.		and the second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second s	1	的复数形式	12.3	11月1日日本教育的出版。
Channel Material:			Asphale			Stone		Earthen
<b>Contributing Source</b>	:e (s):	Road [	Parking Lo	ot 🛛 🗖 R	есге	ational Field		Other Unknown
Channel Length:	ft.							
Channel Width:	ft.							

1

-			Strea	m Assessn	nent Wo	orks	sheet			
$\square$	).							S	torm Water Outfa	
~							/	1	1	
	Survey Basin Code:				Date: 8/14/15					
	Name of Stream:	We	st River		Assessed By:					
	Reach Code: 1	$.\omega$	5		Ste	n h	GM102	F	telserald	
	Designated Stream T	ype:			Ancial blackat					
	Site ID:				6	-	· · · · · · · · · · · · · · · · · · ·			
		$\mathbf{V}$	Make All	Observation	s Facing	Dow	nstream			
	Location of Outfall:	ØR.	ight Bank 🛛 Le	eft Bank Ma	rk and labe	l the	location of the ou	tfall o	n the map and provide a	
	brief description of the lo	cation of	of the outfall relative to roads or other landmarks							
	U	nr	Aerah	apel	St.	15	mag		۵	
	Ŭ			uge i	<u> </u>			el	* _	
			norrh)				appea	Oal	al	
						/	· · · · · ·			
	Outfall Type:	2 Pi	ipe	Leak O	ff		Channel			
	Flow:	ΩN	one	YZ Trickle	/	后	Moderate		Substantial	
	Odor:		one	Sewage		Rancid / Sour			Sulfur (rotten eggs	
	Deposits / Stains		one	Sediment Delta		Oily Stain			Black	
	Benthic Growth		one	Brown		盲	Green		Orange	
	Pipe Data: Provide all relevant data.				1.500 A	726	Charles Stress	4.8353		
	Pipe Material:		Concrete Corrugat		ated Metal Delastic			C. Caracity .	D Other	
	<b>Contributing Source</b>	e(s):	Road Parkin		g Lot 🛛 Other		□ Other		Inknown	
	Pipe Outlet:		Perched	. , ft.		ped			t Stream Level	
	Pipe Size:		Diameter: 2	/2 ft.						
	# of Pipes:			7					++-	
	Leak-Off Data: Prov	vide al	I relevant data.	The second	top-standard	-	all a find the for	STRING.		
[	Leak-Off Swale:		Concrete	Asphalt			Stone	_	Earthen	
	<b>Contributing Source</b>	e (s):	🗆 Road	D Parking	Lot	Lot DRecreational		ield	U Other	
	Length of Swale:	ft.								
	Width of Swale:	ft.								
	<b>Channel Data:</b> Provi	de all	relevant data.	CARLE HERE	AN TRACK	NIE	S. F. S. V. P. S. C.	60.00		
[	<b>Channel Material:</b>		Concrete	Asphalt			I Stone		Earthen	
[	Contributing Source (s):		🗆 Road 🛛 🗖	Parking Lo	ot 🛛 R	есге	ational Field		Other Unknown	
	Channel Length: ft.							-		
[	Channel Width:	ft.			·					
ļ	Notes: Use the space	provid	led to record imp	portant obse	rvations o	ther	wise not captu	res or	this sheet.	

Trash / Debris

					1			
Survey Basin Code:	1.0.		Date:	8/14	/15			
Name of Stream: (	NICIUM		Assessed	By:				
Reach Code:			Ster	shame Fit	zereral 0			
Site ID:	урс		-Angel Henslet					
Sile ID.	1.5.1. 1.15.61							
	Make All Ot	servations	Facing DO	wnstream				
description of the location	I rash or Debris: Mar relative to roads or other l	k and label the andmarks.	e location of t	the trash or debris on the	man and provide a brief			
overall, Ve	ry little	traol	~i de	bris m	riverill			
- San I me	d'sized -	TV, Sc	ome 1	slastic W	ater bonies			
E Within Stream	🗆 Riparian Are	a: Left	Bank 🔍	Right Bank	Cotato (mp			
Туре:			ercial	☐ Industrial	RPark and			
Ivlaterial:			—		Other /			
	□ Paper		untion					
Source:	M Unknown			Vienicai				
Land Ownershin	Private	D Public						
Dana Ownersmp.	LITIVAC	JA I done						
Notes: Use the space	provided to record imi	ortant obse	rvations of	herwise not cantures	on this sheet.			
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1110 1		$\mathcal{O}$	_	opecie	ing prider			
chap	el or mail	DELOC	ge-	on the	-left			
parle	<u> </u>	•			,			



Visual Water Conditions / Excessive Plant or Algae Growth

Survey Basin Code:	V.	Date: 8	714 775	
Name of Stream: $10^{25}$	+ River!	Assessed By:		
Reach Code:	WS	Stephania	Etz Cre	ald.
Designated Stream Type:		Anacli		<u>v q · o</u>
Site ID:	N. 0		respect	
Dire iD:	Make All Observed	inne Facina Downstraom	a contract of the second second	and the second second second
Location / Extent of Visual	Water Conditions and/or I	Exassive Plant or Algan	Crowthe D Made or	d tabat also toostoo
on the man 2) Briefly describe	the location of the site relative	a to roade or other landmarks	or owen. T) wark an	id label the location
Under the Same	Grand Rt= 21		A.	12
warer 1 - Saine		Charley SI	1 /	11 al 1
Floating brow	in substance	everywhere	1.	tle in par
Some Floatin	a time bubbebo	of 1/2 diame	erer, an	72-5 cast
	clusters			0000
<b>Immediately Adjacent Land</b>	d Use: Mark the land use(s)	immediately adjacent to t	he modified section	
Rural Residential	Urban Residential	Commercial	G Foreste	d
Suburban Residential	□ Industrial	Agricultural	Recreat	ional
	•	- A		
Describe Water Conditions	: Mark all that apply. W	hen stirned up	)	
Clear Stained ("ice	ed tea") 🛛 🖾 Turbid (mud	ldy / silty) 🛛 Odors		
Green Rusty-Red	🗆 Milky	🛛 Other (foa	am, dyes, chemicals	)
	-	<u></u>	100	=
Canopy Cover: Mark appro	ximate percentage of stream	covered by tree canopy.		
□ >75% covered □ 75-5	0% covered 250%-259	% covered $\Box < 25\%$	covered	
the second second second second second second second second second second second second second second second s		in the Collection		
Aquatic Plants in Stream:	/	192		
Aquatic Plants in Stream: Floating: (e.g. duck weed)	Absent D In Spots	D Everywhere		
Aquatic Plants in Stream: Floating: (e.g. duck weed) Attached: (e.g. water lily)	Absent In Spots	Everywhere Everywhere		
Aquatic Plants in Stream: Floating: (e.g. duck weed) Attached: (e.g. water lily)	Absent In Spots	Everywhere     Everywhere		
Aquatic Plants in Stream: Floating: (e.g. duck weed) Attached: (e.g. water lily) Algae in Stream:	Absent In Spots	Everywhere Everywhere		
Aquatic Plants in Stream:Floating: (e.g. duck weed)Attached: (e.g. water lily)Algae in Stream:Floating: (e.g. planktonic)	Absent In Spots Absent In Spots	Everywhere     Everywhere     Everywhere     Everywhere		
Aquatic Plants in Stream:         Floating: (e.g. duck weed)         Attached: (e.g. water lily)         Algae in Stream:         Floating: (e.g. planktonic)         Attached: (e.g.	Absent In Spots Absent In Spots Absent In Spots Absent In Spots Absent In Spots	Everywhere     Everywhere     Everywhere     Everywhere     Everywhere		
Aquatic Plants in Stream:         Floating: (e.g. duck weed)         Attached: (e.g. water lily)         Algae in Stream:         Floating: (e.g. planktonic)         Attached: (e.g.         filamentous)	Absent In Spots Absent In Spots Absent In Spots Absent In Spots Absent In Spots	Everywhere     Everywhere     Everywhere     Everywhere     Everywhere		
Aquatic Plants in Stream: Floating: (e.g. duck weed) Attached: (e.g. water lily) Algae in Stream: Floating: (e.g. planktonic) Attached: (e.g. filamentous)	Absent In Spots Absent In Spots Absent In Spots Absent In Spots Absent In Spots	Everywhere     Everywhere     Everywhere     Everywhere     Everywhere		
Aquatic Plants in Stream:         Floating: (e.g. duck weed)         Attached: (e.g. water lily)         Algae in Stream:         Floating: (e.g. planktonic)         Attached: (e.g. filamentous)         Is the change in water conditi	Absent In Spots Absent In Spots Absent In Spots Absent In Spots Absent In Spots on or excessive plant / algae	Everywhere     Everywhere     Everywhere     Everywhere     Everywhere     Everywhere     growth located at or directed a	ctly below a	Yes DNo
Aquatic Plants in Stream: Floating: (e.g. duck weed) Attached: (e.g. water lily) Algae in Stream: Floating: (e.g. planktonic) Attached: (e.g. filamentous) Is the change in water conditi storm water outfall?	Absent In Spots Absent In Spots Absent In Spots Absent In Spots Absent In Spots on or excessive plant / algae	Everywhere     Everywhere     Everywhere     Everywhere     Everywhere     growth located at or directed a	ctly below a	TYes INO
Aquatic Plants in Stream:         Floating: (e.g. duck weed)         Attached: (e.g. water lily)         Algae in Stream:         Floating: (e.g. planktonic)         Attached: (e.g.         filamentous)         Is the change in water conditistorm water outfall?         Is the change in water conditi	Absent In Spots Absent In Spots Absent In Spots Absent In Spots Absent In Spots Absent In Spots on or excessive plant / algae	Everywhere     Everywhere     Everywhere     Everywhere     Everywhere     growth located at or directed a	ctly below a	□ Yes □ No □ Yes □ No
Aquatic Plants in Stream:         Floating: (e.g. duck weed)         Attached: (e.g. water lily)         Algae in Stream:         Floating: (e.g. planktonic)         Attached: (e.g. filamentous)         Is the change in water conditistorm water outfall?         Is the change in water conditicher conditistorm water outfall?	Absent In Spots Absent In Spots Absent In Spots Absent In Spots Absent In Spots Absent In Spots on or excessive plant / algae ions or excessive plant / algae width)?	Everywhere     Everywhere     Everywhere     Everywhere     Everywhere     growth located at or directed a	ctly below a	□ Yes □ No □ Yes □ No
Aquatic Plants in Stream: Floating: (e.g. duck weed) Attached: (e.g. water lily) Algae in Stream: Floating: (e.g. planktonic) Attached: (e.g. filamentous) Is the change in water conditi storm water outfall? Is the change in water conditi channel dimensions (depth & Is the change in water conditi	Absent In Spots Absent In Spots Absent In Spots Absent In Spots Absent In Spots Absent In Spots on or excessive plant / algae width)?	Everywhere     Everywhere     Everywhere     Everywhere     Everywhere     growth located at or directed with a sociated with a	ctly below a a change in an impoundment	□ Yes □ No □ Yes □ No □ Yes □ No
Aquatic Plants in Stream:         Floating: (e.g. duck weed)         Attached: (e.g. water lily)         Algae in Stream:         Floating: (e.g. planktonic)         Attached: (e.g.         filamentous)         Is the change in water conditistorm water outfall?         Is the change in water conditistorm water conditistorm water conditistorm water conditistorm water conditistorm and the stream?	Absent In Spots Absent In Spots Absent In Spots Absent In Spots Absent In Spots Absent In Spots on or excessive plant / algae width)?	Everywhere     Everywhere     Everywhere     Everywhere     Everywhere     growth located at or directed a	ctly below a a change in an impoundment	□ Yes □ No □ Yes □ No □ Yes □ No
Aquatic Plants in Stream: Floating: (e.g. duck weed) Attached: (e.g. water lily) Algae in Stream: Floating: (e.g. planktonic) Attached: (e.g. filamentous) Is the change in water conditi storm water outfall? Is the change in water conditi channel dimensions (depth & Is the change in water conditi / dam on the stream?	Absent In Spots Absent In Spots Absent In Spots Absent In Spots Absent In Spots Absent In Spots on or excessive plant / algae width)?	Everywhere     Everywhere     Everywhere     Everywhere     Everywhere     growth located at or direct e growth associated with a e growth associated with a	ctly below a a change in an impoundment	□ Yes □ No □ Yes □ No □ Yes □ No
Aquatic Plants in Stream:         Floating: (e.g. duck weed)         Attached: (e.g. water lily)         Algae in Stream:         Floating: (e.g. planktonic)         Attached: (e.g. filamentous)         Is the change in water conditi storm water outfall?         Is the change in water conditi channel dimensions (depth & Is the change in water conditi / dam on the stream?         Notes: Use the space provide	Absent In Spots Absent In Spots Absent In Spots Absent In Spots Absent In Spots Absent In Spots on or excessive plant / algae ions or excessive plant / algae width)? ions or excessive plant / algae	Everywhere     Everywhere     Everywhere     Everywhere     Everywhere     growth located at or direct e growth associated with a e growth associated with a cations otherwise not capture	ctly below a a change in an impoundment ares on this sheet.	□ Yes □ No □ Yes □ No □ Yes □ No
Aquatic Plants in Stream:         Floating: (e.g. duck weed)         Attached: (e.g. water lily)         Algae in Stream:         Floating: (e.g. planktonic)         Attached: (e.g. filamentous)         Is the change in water conditistorm water outfall?         Is the change in water conditichannel dimensions (depth & Is the change in water conditichannel dimensions (depth & Is the change in water conditichannel dimensions (depth & Is the change in water conditichannel dimensions (depth & Is the change in water conditichannel dimensions (depth & Is the change in water conditichannel dimensions (depth & Is the change in water conditichannel dimensions (depth & Is the change in water conditichannel dimensions (depth & Is the change in water conditichannel dimensions (depth & Is the change in water conditichannel dimensions (depth & Is the change in water conditichannel dimensions (depth & Is the change in water conditichannel dimensions (depth & Is the change in water conditichannel dimensions (depth & Is the change in water conditichannel dimensions (depth & Is the change in water conditichannel dimensions (depth & Is the change in water conditichannel dimensions (depth & Is the change in water conditichannel dimensions (depth & Is the change in water conditichannel dimensions (depth & Is the change in water conditichannel dimensions (depth & Is the change in water conditichannel dimensions (depth & Is the change in water conditichannel dimensions (depth & Is the change in water conditichannel dimensions (depth & Is the change in water conditichannel dimensions (depth & Is the change in water conditichannel dimensions (depth & Is the change in water conditichannel dimensions (depth & Is the change in water conditichannel dimensions (depth & Is the channel dimensions (depth & Is the change in water condi	Absent In Spots Absent In Spots Absent In Spots Absent In Spots Absent In Spots Absent In Spots Absent In Spots on or excessive plant / algae width)? Ions or excessive plant / algae width)?	Everywhere     Everywhere     Everywhere     Everywhere     Everywhere     growth located at or direct e growth associated with a e growth associated with a cations otherwise not captu	ctly below a a change in an impoundment uresion this sheet.	□ Yes □ No □ Yes □ No □ Yes □ No □ Yes □ No
Aquatic Plants in Stream:         Floating: (e.g. duck weed)         Attached: (e.g. water lily)         Algae in Stream:         Floating: (e.g. planktonic)         Attached: (e.g. filamentous)         Is the change in water conditistorm water outfall?         Is the change in water conditicher conditistorm water outfall?         Is the change in water conditistorm water conditistorm water conditicher conditistorm water conditistorm water conditicher conditistorm water conditistorm water conditients (depth & Is the change in water conditients)         Notes: Use the space provide         Saw       lots of v	Absent In Spots Absent In Spots Absent In Spots Absent In Spots Absent In Spots Absent In Spots Absent In Spots on or excessive plant / algae width)? ons or excessive plant / algae width)?	Everywhere     Everywhere     Everywhere     Everywhere     Everywhere     growth located at or direct e growth associated with a e growth associated with a rations otherwise not capta	ctly below a a change in an impoundment uresion this sheet. Whathed	□ Yes □ No □ Yes □ No □ Yes □ No □ Yes □ No
Aquatic Plants in Stream:         Floating: (e.g. duck weed)         Attached: (e.g. water lily)         Algae in Stream:         Floating: (e.g. planktonic)         Attached: (e.g. filamentous)         Is the change in water conditistorm water outfall?         Is the change in water conditicher conditistorm water outfall?         Is the change in water conditient of the stream?         Notes: Use the space provide         Sub lots of v         Sub lots of v         Submerged	Absent In Spots Absent Algae and or excessive plant / algae width)? Absent / algae ad to record important observery MINNOWS, b Drammer	Everywhere     Everywhere     Everywhere     Everywhere     Everywhere     growth located at or direct e growth associated with a e growth associated with a rations otherwise not capture     anales	ctly below a a change in an impoundment ures on this sheet. Whathed	□ Yes □ No □ Yes □ No □ Yes □ No □ Yes □ No
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Aquatic Plants in Stream:         Floating: (e.g. duck weed)         Attached: (e.g. water lily)         Algae in Stream:         Floating: (e.g. planktonic)         Attached: (e.g.         filamentous)         Is the change in water conditistorm water outfall?         Is the change in water conditicted in the stream?         Notes: Use the space provide         Saw lots of water of submerged         Same submerged         Same submerged	Absent In Spots Absent In Absent In Spots Absent In Spots Abse	Everywhere     Everywhere     Everywhere     Everywhere     Everywhere     growth located at or direct e growth associated with a e growth associated with a cations otherwise not capture     anales	ctly below a a change in an impoundment ures on this sheet. What had a change in an impoundment	□ Yes □ No □ Yes □ No □ Yes □ No □ Tes □ No To

## CT-NRCS Stream Assessment Sheet

Reach Level Assessment

Silley Dashi Code:       Different:       Diff	Survey Pagin Code:	Date(s): 8/22/2015
Name O dote:	Name of Stream: WEST RIVER	Assessed By: AENOALL 13
Indent Order:       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.         Distep-Pool       ▲Pool-Riffle □ Run ▲Glide *□ Manipulated Channel (piped, lined, etc.)         Active Channel Width:       3.7         Glide Depth:       4.2         Will Depth:       9.4         Bank Height (Right Bank):       2.5'         Run Depth:       9.4         Bank Height (Left Bank):       2.5'         Substrate Composition:       Mark approximate percentages for each substrate type observed.       many of the bowleast the part of a coluble of the second substrate type observed.         Silt or Clusters       5.45%       5.25%       2.55%       2.55%       7.55%         Boulder (>10 inches)       5.45%       5.25%       2.50%       50.75%       7.55%       7.66% coluble apprex         Cobble (2.10 inches)       5.52%       0.5.25%       0.5.75%       2.75%       7.66% coluble apprex         Boulder (>10 inches)       5.55%       0.5.25%       0.5.75%       5.75%       7.66% coluble apprex         Charled (inches)       5.55%       0.5.25%       0.5.75%       5.75%       7.7	Reach Code: LW5	+ W1+4,
Make All Observations Facing Downstream         Was the entire reach of stream surveyed? Wy?         Was the entire reach of stream surveyed? Wy?         Channel Morphology: Mark the predominate condition(s), and indicate the average measurements.         Step-Pool       Pool-Riffle       Run       Clide       * Manipulated Channel (piped, lined, etc.)         Active Channel Width:       37       Glide Depth:       42*         Riffle Depth:       1**       Bank Height (Right Bank):       2.5'         Run Depth:       9**       Bank Height (Left Bank):       2.5'         Substrate Composition:       Mark approximate percentages for each substrate type observed.       many of the box/dars a previous as a plant of the planted approximate percentages for each substrate type observed.         Substrate Composition:       Mark approximate percentages for each substrate type observed.       many of the box/dars approximate percentages for each substrate type observed.       many of the box/dars approximate percentages for each substrate type observed.         Substrate Composition:       Mark at that apply.       2550%       5075%       755%       fool to box/dars approximate percentage of substrate type observed.         Redrock       9       5.25%       25.50%       50.75%       755%       fool to box/dars approximate percentage of substreach accore type aplated aplate approximate percentage of substra	Designated Stream Type:	
Was the entire reach of stream surveyed?	Make All Observations F	acing Downstream
Channel Morphology: Mark the predominate condition(s), and indicate the average measurements.         □ Step-Pool       Ø.Pool-Riffle       □ Run       Ø.Glide       *□ Manipulated Channel (piped, lined, etc.)         Active Channel Width:       3 1'       Glide Depth:       4 2''         Riffle Depth:       1''       Step Height:       3 2''         Pool Depth:       1''       Bank Height (Right Bank):       2 . 5''         Run Depth:       1''       Bank Height (Left Bank):       2 . 5''         Substrate Composition:       Mark approximate percentages for each substrate type observed.       many of the boold approximate percentages for each substrate type observed.       many of the boold approximate percentages for each substrate type observed.         Silt or Clay       <5%	Was the entire reach of stream surveyed? Ves	No, Which section(s) were not surveyed? Why?
Childer Volt (prool-Riffle       Run       <	Channel Morphology: Mark the predominate condition(s) a	and indicate the average measurements.
Active Fohnnel Width: 3 ft       Glide Depth: 4 2 "         Riffle Depth: 1 1 "       Step Height:         Pool Depth: 1 1 "       Bank Height (Right Bank): 2 . 5 "         Run Depth: 1 1 "       Bank Height (Right Bank): 2 . 5 "         Run Depth: 1 1 "       Bank Height (Left Bank): 2 . 5 "         Substrate Composition: Mark approximate percentages for each substrate type observed.       Pool Depth: 2 . 5 "         Substrate Composition: Mark approximate percentages for each substrate type observed.       Pranny of the bould as the provide strate type observed.         Silt or Clay       \$ 5% 0 5-25% 0 125-50% 0 50-75% 0 > 75% 0 > 75% 0 + 75% 0 + 75% 0 + 75% 0 + 75% 0 + 75% 0 + 75% 0 + 75% 0 + 75% 0 + 75% 0 + 75% 0 + 75% 0 + 75% 0 + 75% 0 + 75% 0 + 75% 0 + 75% 0 + 75% 0 + 75% 0 + 75% 0 + 75% 0 + 75% 0 + 75% 0 + 75% 0 + 75% 0 + 75% 0 + 75% 0 + 75% 0 + 75% 0 + 75% 0 + 75% 0 + 75% 0 + 75% 0 + 75% 0 + 75% 0 + 75% 0 + 75% 0 + 75% 0 + 75% 0 + 75% 0 + 75% 0 + 75% 0 + 75% 0 + 75% 0 + 75% 0 + 75% 0 + 75% 0 + 75% 0 + 75% 0 + 75% 0 + 75% 0 + 75% 0 + 75% 0 + 75% 0 + 75% 0 + 75% 0 + 75% 0 + 75% 0 + 75% 0 + 75% 0 + 75% 0 + 75% 0 + 75% 0 + 75% 0 + 75% 0 + 75% 0 + 75% 0 + 75% 0 + 75% 0 + 75% 0 + 75% 0 + 75% 0 + 75% 0 + 75% 0 + 75% 0 + 75% 0 + 75% 0 + 75% 0 + 75% 0 + 75% 0 + 75% 0 + 75% 0 + 75% 0 + 75% 0 + 75% 0 + 75% 0 + 75% 0 + 75% 0 + 75% 0 + 75% 0 + 75% 0 + 75% 0 + 75% 0 + 75% 0 + 75% 0 + 75% 0 + 75% 0 + 75% 0 + 75% 0 + 75% 0 + 75% 0 + 75% 0 + 75% 0 + 75% 0 + 75% 0 + 75% 0 + 75% 0 + 75% 0 + 75% 0 + 75% 0 + 75% 0 + 75% 0 + 75% 0 + 75% 0 + 75% 0 + 75% 0 + 75% 0 + 75% 0 + 75% 0 + 75% 0 + 75% 0 + 75% 0 + 75% 0 + 75% 0 + 75% 0 + 75% 0 + 75% 0 + 75% 0 + 75% 0 + 75% 0 + 75% 0 + 75% 0 + 75% 0 + 75% 0 + 75% 0 + 75% 0 + 75% 0 + 75% 0 + 75% 0 + 75% 0 +	□ Step-Pool □ Pool-Riffle □ Run □ Glide	e * Manipulated Channel (piped, lined, etc.)
Riffle Depth:       4"       Step Height:         Pool Depth:       14"       Bank Height (Right Bank):       2.5"         Run Depth:       16"       Bank Height (Left Bank):       2.5"         Run Depth:       16"       Bank Height (Left Bank):       2.5"         Substrate Composition:       Mark approximate percentages for each substrate type observed.       If any of the boulderstrate type observed.       If any of the boulderstrate type observed.         Silt or Clay       5%       5-25%       125-50%       50-75%       >75%         Sand       165%       5-25%       125-50%       50-75%       >75%         Gravel (0.1-2 inches)       5%       5-25%       125-50%       50-75%       >75%         Boulder (>10 inches)       5%       5-25%       125-50%       50-75%       >75%         Boulder (>10 inches)       5%       5-25%       125-50%       50-75%       >75%         Bedrouk       165%       5-25%       125-50%       50-75%       >75%         Boulder (>10 inches)       5%       5-25%       125-50%       50-75%       >75%         Bedrouk       15-25%       125-50%       50-75%       >75%       >75%         Boulder (>10 inches)       Starter       Starter	Active Channel Width: 39'	Glide Depth: 12"
Pool Depth:       Image: Construction of the second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second s	Riffle Depth: 4 4	Step Height:
Run Depth:       Bank Height (Left Bank):       2 · 5'         Substrate Composition:       Mark approximate percentages for each substrate type observed.       Imany of the private percentages for each substrate type observed.         Silt or Clay       5%       5-25%       25-50%       50-75%       >75%         Gravel (0.1-2 inches)       5%       5-25%       125-50%       50-75%       >75%         Gravel (0.1-2 inches)       5%       5-25%       125-50%       50-75%       >75%         Boulder (-10 inches)       5%       5-25%       125-50%       50-75%       >75%         Boulder (-10 inches)       5%%       5-25%       125-50%       50-75%       >75%         Boulder (-10 inches)       <5%	Pool Depth: 18"	Bank Height (Right Bank): 2,5'
Substrate Composition: Mark approximate percentages for each substrate type observed.       many of the boundary of th	Run Depth:	Bank Height (Left Bank): 2 · 5'
Substrate Composition: Mark approximate percentages for each substrate type observed.       Imany of the building of the building of the building of the building of the building of the building of the building of the building of the building of the building of the building of the building of the building of the building of the building of the building of the building of the building of the building of the building of the building of the building of the building of the building of the building of the building of the building of the building of the building of the building of the building of the building of the building of the building of the building of the building of the building of the building of the building of the building of the building of the building of the building of the building of the building of the building of the building of the building of the building of the building of the building of the building of the building of the building of the building of the building of the building of the building of the building of the building of the building of the building of the building of the building of the building of the building of the building of the building of the building of the building of the building of the building of the building of the building of the building of the building of the building of the building of the building of the building of the building of the building of the building of the building of the building of the building of the building of the building of the building of the building of the building of the building of the building of the building of the building of the building of the building of the building of the building of the building of the building of the building of the building of the building of the building of the building of the building of the building of the building of the building of the building of the building of the building of the building of the building of the building of the building of the building of the building of		
Silt or Clay       <5%	Substrate Composition: Mark approximate percentages for	each substrate type observed. many of the
Sand       □ <5%	Silt or Clay 🔲 <5% 🖾 5-25% 🖾 25-50%	6 50-75% =>75% bouldas +
Gravel (0.1-2 inches)       S%       5-25%       125-50%       50-75%       >75%       to be plated         Cobble (2-10 inches)       S%       5-25%       125-50%       50-75%       >75%       to du about         Boulder (>10 inches)       S%       5-25%       125-50%       50-75%       >75%       to du about         Redrock       <\$%	Sand 🗆 <5% 🗆 5-25% 🗐 25-50%	6 50-75% 15% Coble applanded
Cobble (2-10 inches)       25%       5-25%       25-50%       50-75%       >75%         Boulder (>10 inches)       25%       5-25%       25-50%       50-75%       >75%         Bedrouk       <5%	Gravel (0.1-2 inches) S <5% 5-25% 25-509	6 1 50-75% 12>75% to be placed
Boulder (>10 inches)       2<5%	Cobble (2-10 inches) 🛛 35% 🗆 5-25% 🗆 25-50%	10 1 50-15% 1>15% as a president
Redrock       \$\begin{aligned}{llllllllllllllllllllllllllllllllllll	Boulder (>10 inches) 🛛 <5% 🗆 5-25% 🖾 25-509	10 1 30-15% 1>15% protection +
Describe Water Conditions: Mark all that apply.         □ Clear       □ Stained ("iced tea")         *□ Green       *□ Rusty-Red         *□ Other (foam, dyes, chemicals)         *□ atic Plants in Stream:         ting: (e.g. duck weed)       □ Absent         In Spots       *□ Everywhere         *□ Stream:       *□ Absent         * (e.g. water lily)       □ Absent         In Spots       *□ Everywhere         * (e.g. filamentous)       □ Absent         * (for the approximate percentage of stream covered by tree canopy.         * (ered       □ 75-50% covered         * 50%-25% covered       □ < 25% covered	Bedrock □ <5% □ 5-25% □ 25-509	10 1 30-15% 1 >15% Channel amorta
Besteriet       Image: Stained ("iced tea")       * Image: Turbid (muddy / silty)         Clear       Image: Stained ("iced tea")       * Image: Turbid (muddy / silty)         * Green       * Image: Stained ("iced tea")       * Image: Stained ("iced tea")         * Image: Stained ("iced tea")       * Image: Stained ("iced tea")       * Image: Stained ("iced tea")         * Image: Stained ("iced tea")       * Image: Stained ("iced tea")       * Image: Stained ("iced tea")         * Image: Stained ("iced tea")       * Image: Stained ("iced tea")       * Image: Stained ("iced tea")         * Image: Stained ("iced tea")       * Image: Stained ("iced tea")       * Image: Stained ("iced tea")         * Image: Stained ("iced tea")       * Image: Stained ("iced tea")       * Image: Stained ("iced tea")         * Image: Stained (iced tea")       Absent       In Spots       * Image: Stained ("iced tea")         * Indicate # and type of sheets       Stained ("iced tea")       * Image: Stained ("iced tea")         * Image: Stained (iced team)       Absent       In Spots       * Image: Stained ("iced team]         * Indicate # and type of sheets       Stained ("iced team]       * Image: Stained ("iced team]         * Indicate # and type of sheets       Stained ("iced team]       * Image: Stained ("iced team]         * Indicate # and type of sheets       Stained ("iced team]       * Image: Stained	Describe Water Conditions: Mark all that apply.	Area of Concern Worksheets
*       Green       *       Rusty-Red       *       Milky         *       Odors       *       Other (foam, dyes, chemicals)       Frosion         uatic Plants in Stream:       In Spots       *       Everywhere         ting: (e.g. duck weed)       Absent       In Spots       *       Everywhere         hed: (e.g. water lily)       Absent       In Spots       *       Everywhere         'n Stream:       (e.g. filamentous)       Absent       In Spots       *       Everywhere         'n Stream:       (e.g. filamentous)       Absent       In Spots       *       Everywhere         'n Stream:       (e.g. filamentous)       Absent       In Spots       *       Everywhere         'n Stream:       (e.g. filamentous)       Absent       In Spots       Everywhere       Impacted Buffer         'ver:       Mark approximate percentage of stream covered by tree canopy.       (e.g. filamentous)       Absent       In Spots       (e.g. for stream)       (e.g. for stream)         'ver:       Mark approximate percentage of stream covered by tree canopy.       (e.g. for stream)       (e.g. for stream)       (e.g. for stream)       (e.g. for stream)         'ver:       Mark approximate percentage of stream covered by tree canopy.       (e.g. stream)	□ Clear □ Stained ("iced tea")  *□ Tur	rbid (muddy / silty) Indicate # and type of sheets
Brosion         Pratic Plants in Stream:       Brosion         ting: (e.g. duck weed)       Absent       In Spots       Everywhere         hed: (e.g. water lily)       Absent       In Spots       Everywhere         in Stream:       Modified Channel       Impacted Buffer         is Stream:       Brosion       Water Conditions         is grammed (e.g. filamentous)       Absent       In Spots       Everywhere         ver:       Mark approximate percentage of stream covered by tree canopy.       Partic-slearly cl-ser       Water Water Water         ver:       Mark approximate percentage of stream covered by tree canopy.       Ver Water Water       Water Water         water Water       Water Water       Water Water       Water Water         water Conditions       Water Water       Water Conditions       Water Water         water Conditions       Water Water       Water Water       Water Water         water Conditions       Water Water       Water Water       Water Water         water Conditions       Water Water       Water Water       Water Water         water Water       Soft-25% covered       Soft-25% covered       Soft-25% covered         water Water       Soft-25% covered       Soft-25% covered       Soft-25% covered       Soft	* Green * Rusty-Red * Mil	ky completed for this reach assessment
Image: Plants in Stream:       Fish Barrier         ting: (e.g. duck weed)       Absent       In Spots       * Everywhere         hed: (e.g. water lily)       Absent       In Spots       * Everywhere         in Stream:	Odors * Other (foam, dyes, chemicals)	Brosion
Imatic Plants in Stream:       In Spots       Everywhere         Indext (e.g. duck weed)       Absent       In Spots       Water Outfall         Indext (e.g. duck weed)       Absent       In Spots       Water Outfall         Indext (e.g. duck weed)       Absent       In Spots       Water Outfall         Indext (e.g. duck weed)       Absent       In Spots       Water Outfall         In Spots       In Spots       Water Outfall       Modified Channel         In Stream:       In Spots       Water Conditions       Water Conditions         (e.g. filamentous)       Absent       In Spots       Everywhere         In Spots       In Spots       Everywhere       Water Conditions         In Spots       In Spots       Everywhere       Water Conditions         In Spots       In Spots       Everywhere       Water Conditions         Inver:       Mark approximate percentage of stream covered by tree canopy.       Invert Mark approximate percentage of stream covered by tree canopy.       Invert Mark approximate percentage of stream covered by tree canopy.         'ered       75-50% covered       50%-25% covered       Invert Mark approximate percentage of stream covered by tree canopy.         's marked with an asterisk (*) indicate a potential area of concern.       Please record all relevant information on the appropriate		Fish Barrier
ting: (e.g. duck weed)       Absent       In Spots       * Everywhere         in Stream:       In Spots       * Everywhere       Impacted Buffer         in Stream:       Absent       In Spots       * Everywhere       Impacted Buffer         in Stream:       Absent       In Spots       * Everywhere       Water Conditions         ie.g. planktonic)       Absent       In Spots       * Everywhere       Water Conditions         iwater       (e.g. filamentous)       Absent       In Spots       * Everywhere       Water Conditions         iver:       Mark approximate percentage of stream covered by tree canopy.       Impacted Buffer       Winnilley         iver:       Mark approximate percentage of stream covered by tree canopy.       Impacted covered       Impacted covered         iver:       Mark approximate percentage of stream covered by tree canopy.       Impacted covered       Impacted covered         is marked with an asterisk (*) indicate a potential area of concern.       Please record all relevant       Information on the appropriate Area of Goncern Worksheet(s).         Impacted with an asterisk (*) indicate a potential area of concern.       Please record all relevant         information on the appropriate Area of Goncern Worksheet(s).       Impacted by the point of the point of the point of the point of the point of the point of the point of the point of the point of the point o	uatic Plants in Stream:	Storm Water Outfall
hed: (e.g. water lily) Absent In Spots Everywhere in Stream: (e.g. planktonic) Absent In Spots Everywhere (e.g. filamentous) Absent In Spots Everywhere (e.g. filamentous) Absent In Spots Everywhere ver: Mark approximate percentage of stream covered by tree canopy. 'ered 75-50% covered 50%-25% covered CS5% covered Is marked with an asterisk (*) indicate a potential area of concern. Please record all relevant information on the appropriate Area of Concern Worksheet(s). <i>Canopy Cover Alound Stream Through</i> <i>Canopy Cover Alound Stream Through</i> <i>Canopy Cover Alound Stream Through</i> <i>Canopy Cover Alound Stream Through</i> <i>Canopy Cover Alound Stream Through</i> <i>Cover Stream Stream Stream Through</i> <i>Cover Alound Stream Through</i> <i>Cover Stream Stream Stream Through</i> <i>Cover Stream Stream Stream Through</i> <i>Cover Stream Stream Stream Through</i> <i>Cover Stream Stream Stream Through</i> <i>Cover Stream Stream Stream Through</i> <i>Cover Stream Stream Stream Through</i> <i>Cover Stream Stream Stream Stream Stream Stream Stream Stream Stream Stream Stream Stream Stream Stream Stream Stream Stream Stream Stream Stream Stream Stream Stream Stream Stream Stream Stream Stream Stream Stream Stream Stream Stream Stream Stream Stream Stream Stream Stream Stream Stream Stream Stream Stream Stream Stream Stream Stream Stream Stream Stream Stream Stream Stream Stream Stream Stream Stream Stream Stream Stream Stream Stream Stream Str</i>	\ting: (e.g. duck weed)	* Everywhere Modified Channel
in Stream: (e.g. planktonic) □ Absent □ In Spots *□ Everywhere (e.g. filamentous) □ Absent □ In Spots *□ Everywhere (e.g. filamentous) □ Absent □ In Spots *□ Everywhere 0 on stream bed - particularly closer to 0 on stream bed - particularly closer to 1 ver: Mark approximate percentage of stream covered by tree canopy. 1 ver: Mark approximate percentage of stream covered by tree canopy. 1 ver: Mark approximate percentage of stream covered by tree canopy. 1 ver: Mark approximate percentage of stream covered by tree canopy. 1 ver: Mark approximate percentage of stream covered by tree canopy. 1 ver: Mark approximate percentage of stream covered by tree canopy. 1 ver: Mark approximate percentage of stream covered by tree canopy. 1 ver: Mark approximate percentage of stream covered by tree canopy. 1 ver: Mark approximate percentage of stream covered by tree canopy. 1 ver: Mark approximate percentage of stream covered by tree canopy. 1 ver: Mark approximate percentage of stream covered by tree canopy. 1 ver: Mark approximate percentage of stream covered by tree canopy. 1 ver: Mark approximate percentage of stream covered by tree canopy. 1 ver: Mark approximate percentage of stream covered by tree canopy. 1 ver: Mark approximate percentage of stream covered by tree canopy. 1 ver: Mark approximate percentage of stream covered by tree canopy. 1 ver: Mark approximate percentage of stream covered by tree canopy. 1 ver: Mark approximate percentage of stream covered by tree canopy. 1 ver: Mark approximate percentage of stream covered by tree canopy. 1 ver: Mark approximate percentage of stream covered by tree canopy. 1 ver: Mark approximate percentage of stream covered by tree canopy. 1 ver: Mark approximate percentage of stream covered by tree canopy. 1 ver: Mark approximate percentage of stream covered by tree canopy. 1 ver: Mark approximate percentage of stream covered by tree canopy. 1 ver: Mark approximate percentage of stream covered by tree canopy. 1 ver: Mark approximate percentage of	hed: (e.g. water lily)	* Everywhere Impacted Butter
Water Conditions (e.g. filamentous) Absent In Spots * Everywhere (e.g. filamentous) Absent In Spots * Everywhere wer: Mark approximate percentage of stream covered by tree canopy. 'ered 75-50% covered 50%-25% covered Covered 'ered 75-50% covered 50%-25% covered Covered 's marked with an asterisk (*) indicate a potential area of concern. Please record all relevant information on the appropriate Area of Concern Worksheet(s). <i>Canopy Cover alound Stream Through</i> <i>Canopy Cover alound Stream Through</i> <i>Canopy Cover alound Stream Through</i> <i>Edduwood Park</i> - Chupel St to	in Stream:	Trash / Debris
(e.g. filamentous)       □ Absent       In Spots       *□ Everywhere         ver:       Mark approximate percentage of stream covered by tree canopy.       □ artic-placed closer to wrmlley         ver:       Mark approximate percentage of stream covered by tree canopy.       □ < 25% covered	In Stream:	*D Everywhere
iver: Mark approximate percentage of stream covered by tree canopy.         'ered       ☐ 75-50% covered       ☑ < 25% covered	(e.g. filamentous)	* Everywhere
wer: Mark approximate percentage of stream covered by tree canopy.       with an approximate percentage of stream covered by tree canopy.         'ered       75-50% covered       50%-25% covered       <25% covered	(e.g. mamemous) El Absent Amopolis	treambed - particularly closer to
'ered       □ 75-50% covered       □ < 25% covered	ver: Mark approximate percentage of stream cove	ered by tree canopy.
hs marked with an asterisk (*) indicate a potential area of concern. Please record all relevant information on the appropriate Area of Goncern Worksheet(s). <i>I CANOPH COVER ALOUND STREAM Through</i> TEddewood Park - Chupel St to	'ered 275-50% covered 50%-25%	6 covered 25% covered
1 canopy cover around stream through 1 Eddewood Park - Chypel St to	hs marked with an asterisk (*) indicate a information on the appropriate	potential area of concern. Please record all relevant Area of Concern Worksheet(s).
	1 canopy cover all B. Edgewood Part	- Chupel St to
2008 R Fouthing - minimal - pretominated	2008 R Foutbridge - m	vihimal - pretominated
SUPER - bout did not extend for beyond ban tes.	such - bout did not e	extend far beyond bantes for

#### 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.									
	LeftBank	Right Bank	Left Bank	Right Bank	Left]Bank	Right Bank			
Turf Grass	Low	Low	☐ Moderate	☐ Moderate	🗆 High	🗆 High			
Grass	Low Low	Low	Moderate	Moderate	🗆 High	🗆 High			
Shrubs	Low	Low	☐ Moderate	Moderate	High	High			
Deciduous Trees	Low	Low	☐ Moderate	Moderate	🗆 High	D High			
<b>Coniferous Trees</b>	Low	Low	☐ Moderate	D Moderate	High	🗆 High			

Surrounding Lan	d Use: Mark the	dominate land use(s) for	each "zone", if kno	wn or observed.	
Immediately adjace	ent to stream	<1/4 Mile from stre	am	>1/4 Mile from strea	m
Rural Residential	Agricultural	□ Rural Residential	Agricultural	IRural Residential	Agricultural
Suburban Residential	Forested	Residential	Forested	Suburban Residential	Forested
Urban Residential	Recreational	Urban Residential	Recreational	MUrban Residential	Recreational
	Bother	🗖 Industrial	D Other		Other .
Gommercial	lack	Commercial	10.	Commercial	

Areas of Concern Checklist: Marking "Yes" to any of the following questions indicates that an Area of	Concern W	orksheet
should be filled out for the appropriate concern. For each occurrence observed, complete and area of concern sh	eet.	
Is there evidence of either stream bank erosion or streambed instability within the reach?	□ Yes	No
Are there any dams or any other possible natural or artificial barriers to fish migration?	Yes	D No
Are there any storm water outfalls, discharge pipes or discharges within the reach? Indicate the number observed: 10 - not counting for y for outfalls	Yes Yes	🗆 No
Is there any portion of the channel that has been modified (not culvert) (channeled, piped, rip rap)? Channel b/w Derby Are + Whalley was straightened long ago,	P Yes	D No
Is there any portion of the reach where the riparian buffer has been compromised or is nonexistent?	🗆 Yes	No
Is there any portion of the reach that contains trash or other debris (cars, appliances, construction waste)? LOTS OF TIRES THROUGHTAT	A Yes	D No
Is there any portion of the reach that has a change in water conditions?	X Yes	🗆 No

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

- WATER WAS FOUL SMELLING TITROUGH MUCHT OF THE REACH - BUT ESPECIALLY CLOSER TO WHATLEY AVE - ADVACENT TO STORMUTTER ONTFALLS (RT BANK) AND DINNSTREAM OF THE CSD OUTPAIL BECON THE BRIDGE HBUTMENT,

MANY OF THE ONTRANS THAT WE IDENTIFIED ARE LIKELY SUBMERGED PURING FIGHTINGET Developed By CT-NRCS SEVERAL OF THEM WERE DISCHARGING January 2008 WATER - BUT IT WAS UNCLEAR AS TO WITETMER OR NOT THIS WAS TOEH_D-GROWDH_D OR DITTER SISCATE



FIGUD NOTES

## **EDGEWOOD PARK**

Edgewood Park, one of New Haven's treasures was designed more than 100 years ago by the famous Olmsted team that designed NYC's Central Park. Today the park offers countless ways for people of all ages to enjoy nature and the outdoors - walking, jogging, bird watching, cross country skiing, tennis, basketball, soccer, relaxing by the Duck Pond and the West River, skateboarding, bocce, picnicking, dog walking, cooling off under the sundial sprinkler, playing in the playground, shopping at the Sunday Farmer's Market, working out on the fitness structures, biking, and now participating in events at the newly reopened Coogan Pavilion.

#### **THE FRIENDS OF EDGEWOOD PARK**

The Friends of Edgewood Park have been advocating for Edgewood Park for almost 50 years. Our mission is to assist the New Haven Department of Parks and Recreation in preserving and enhancing Edgewood Park for the enjoyment of all.

#### • WHAT WE DO

3/2015

• Sponsor events and programs

Maple tree tapping, sap collecting, maple social, steel band concert, fall hike, and Nature Pals – a weekly program for youngsters ages 2 - 4 with their caregivers.

#### On-going collaborations

Bike riding team and support for Rock to Rock Planning and supervision for summer Youth at Work team Planting and stewarding trees and gardens with Urban Resources Initiative

#### HOW YOU CAN PARTICIPATE

Visit the park often Read our email newsletter Visit us on Facebook Support park activities and events Join a walking, running or bicycling group Volunteer with the plant and trail maintenance team Help with school and community service group projects Join our board or a committee Donate money

#### • CONTACT US

friendsofedgewoodpark@gmail.com or call 203 500-7777

Trash / Debris

Survey Basin Code:	Date: X	22/2015	
Name of Stream: WEST RIVER	Assessed	By: KonMAL	B T
Reach Code: WS - from Dector were	115565564		
Designated Stream Type:			
Site ID:			
Make All Observation	s Facing Do	wnstream	The second second
Location / Extent of Trash or Debris: Mark and label description of the location relative to roads or other landmarks. TIRES THROUGHOUT CHANN FOUND ABOUT ONE TIRE	the location of t WEL - EVE	he trash or debris on the g NOT PILE RT 20 TAR	$\begin{array}{c} \begin{array}{c} \text{map} \text{ and provide a brief} \\ \hline D & B \cup T \\ \hline \sigma & S & O & S \\ \end{array}$
Within Stream	ft Bank	Right Bank	
Type: 🛛 Residential 🖉 Com	mercial		
Material: Plastic Paper Vard Waste Cons	l truction	□ Appliances □ Automotive □ Medical	Other
Source: Unknown DFlood	ding	Illegal Dumping	□ Local Outfall
Land Ownership: D Private Z Publi	С		
Notes: Use the space provided to record important ob	servations ot	herwise not captures	on this sheet.
TIRES LIKELY THE RE DUMPING - BUT LOCT	TION C	OF ILLEG OF DUMP	AC WG-
NOT SPECIFICATLY	(DER	= DISTRI	BJTED
TAROVOTOVT MA	My JF	TREM W.	ERE
COVERED IN ALGEA	AN	o that o c	ENALY
BEEN IN THE PEAK	cht fal	2 some	TIME.

Trash / Debris

Survey Rasin Code			Date:	8/78/2015	
Name of Stream: M	LEST RIVER		Δεερεερή	By: Lonnal	<u>c_</u> ß +
Reach Code: LW	5 - FROM DER	BY AUC	ASSESSED	win-	
Designated Stream T	vpe:	יחתננדץ			
Site ID:	<u></u>				
	Make All (	Observations 1	Facing De	ownstream	
Location / Extent of description of the location E OGEW AMERIGA	f Trash or Debris: Ma n relative to roads or other	ark and label the r landmarks.	Elocation of	the trash or debris on the n	and provide a brief STOP SIGN WI POST IN CHANNEL
				Kight Dank	
Туре:	☐ Residential	Comme	ercial	☐ Industrial	
Material:	Plastic	Tires		□ Appliances	□ Other
	Paper	□ Metal		☐ Automotive	
	Yard Waste	Constru	uction		
Source:	Unknown		ıg	[] Illegal Dumping	Local Outfall
Land Ownership:		Public			
Notes: Use the space			mations o	therwise not contures (	on this sheet
Notes: Use the space	provided to record in	iiportain obse		ulei wise not captures o	JII UIIS SHEEL.
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#### Visual Water Conditions / Excessive Plant or Algae Growth

Survey Basin Code:		<u> </u>	Date	8/23	12015		
Name of Stream: WEST	RIVER		Assessed I	<u>3v: </u>	FORM B	1	
Reach Code: LW5					MILL		
Designated Stream Type:							
Site ID:							
Batter and a second state	Mak	e All Observatio	ons Facing Do	wnstream			ST TAL ON
Location / Extent of Visual on the <u>map</u> . 2) Briefly describe THROUGHOV	Water Condi the location o T $THEK$	itions and/or Ex f the site relative t CttaNNE	accessive Plan o roads or othe C PROM O VEG.	t or Algae er landmark コーレン A	South: 1) Mark a CK POND CCF POND	nd label the TS N BZ	e location
FRom For	T 3RI	265 -70	WHAL	ce y-	- IN TESRM	1-77	W T
Immediately Adjacent Land	Use: Mark	the land use(s) in	mmediately a	djacent to	the modified section	<u>ı.</u>	
Suburban Desidential	Urban Re			ercial	Foreste	ed	
_ U Suburban Residential	I 🗆 Industria			tural	Recrea	tional	
Describe Water Conditions: Clear Stained ("ice Green Rusty-Red	Mark all that d tea")	at apply. Turbid (mudd Milky	y / silty)	Odors Other (fo	am, dyes, chemical	5)	
Canopy Cover: Mark appro	ximate percer 0% covered	tage of stream c	covered by tre	$rac{1}{1} < 25\%$	covered		
Aquatic Plants in Stream:							
Floating: (e.g. duck weed)	Absent	□ In Spots	D Everywh	еге			
Attached: (e.g. water lily)	□ Absent	In Spots	Everywh	ere	-IN SPOTS -	- A (	OTOF
	-		<u></u>		THEM-BU	TEN	TRE
Algae in Stream:					STREAM IS	EO ni	95 201
Floating: (e.g. planktonic)	L Absent		Everywh	ere	(avence	υ.	
filamentous)		M In Spots	L Everywh	ere –	- ESPECIA WHALLEY 1	tely tvet	FOOTSRU
Is the change in water conditi storm water outfall?	on or excessi	ve plant / algae g	growth locate	d at or dire	ectly below a	Yes	D No
Is the change in water conditi channel dimensions (depth &	ons or excess width)?	ive plant / algae	growth assoc	iated with	a change in	□ Yes	D No
Is the change in water condition / dam on the stream?	ons or excess	ive plant / algae	growth assoc	iated with	an impoundment	□ Yes	No
Notes: Use the space provide	d to record in	nportant observa	tions otherwi	se not cap	tures on this sheet.	10.	
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OF WHALLEY	AGÉ-L AVE	BRIDE	POR - Tr	PRE	SENT IN	レレー Developed By	CHUT
ANTINAM CSC	D(S(	HARGE	CLAS	OC	CURING -	IT ECUI-	ft 2000
RAINED 2	DAYS P	RIOR	- 50	1205	SIB ET C	S0 +	NG-FRI
STORMWATER	2 DISC	TYKE	5.				



# outfall map.





# **EDGEWOOD PARK**

Edgewood Park, one of New Haven's treasures was designed more than 100 years ago by the famous Olmsted team that designed NYC's Central Park. Today the park offers countless ways for people of all ages to enjoy nature and the outdoors - walking, jogging, bird watching, cross country skiing, tennis, basketball, soccer, relaxing by the Duck Pond and the West River, skateboarding, bocce, picnicking, dog walking, cooling off under the sundial sprinkler, playing in the playground, shopping at the Sunday Farmer's Market, working out on the fitness structures, biking, and now participating in events at the newly reopened Coogan Pavilion.

## THE FRIENDS OF EDGEWOOD PARK

The Friends of Edgewood Park have been advocating for Edgewood Park for almost 50 years. Our mission is to assist the New Haven Department of Parks and Recreation in preserving and enhancing Edgewood Park for the enjoyment of all.

#### WHAT WE DO

• Sponsor events and programs

Maple tree tapping, sap collecting, maple social, steel band concert, fall hike, and Nature Pals – a weekly program for youngsters ages 2 - 4 with their caregivers.

11

#### • On-going collaborations

Bike riding team and support for Rock to Rock Planning and supervision for summer Youth at Work team Planting and stewarding trees and gardens with Urban Resources Initiative

#### HOW YOU CAN PARTICIPATE

Visit the park often Read our email newsletter Visit us on Facebook Support park activities and events Join a walking, running or bicycling group Volunteer with the plant and trail maintenance team Help with school and community service group projects Join our board or a committee Donate money

#### • CONTACT US

friendsofedgewoodpark@gmail.com or call 203 500-7777

Storm Water Outfall

Survey Basin Code:       Date:       \$\frac{1}{23}\$ \frac{1}{20}\$ \frac{1}{20}\$         Name of Stream:       WEST RIVER       Assessed By:       \$KW/RMV Y W         Reach Code:       LWS       Shall Y       Y         Designated Stream Type:       \$FIST 2_F1PES FROM         Distance       FIST 2_F1PES FROM         Designated Stream Type:       FIST 2_F1PES FROM         Designated Stream Type:       Make All Observations Facing Downstream         Location of Outfall:       Skiph Bank       Left Bank       Mark and label the location of the outfall on the g         brief description of the location of the outfall relative to roads or other landmarks.       SEE ATTACTTED MAP.       Butter Fractors Stream         Defley       KET CARTEL ST @ THE TST SC FTTEN       TENMIS CENTER.       BELDW       MHT       (SEE SARCE)         Outfall Type:       Elpipe       Leak Off       Channel       Sour       Sub         Deposits / Stains       Dne       Sediment Delta       Oily Stain       Blag         Benthic Growth       ENone       Brown       Green       Ora         Pipe Material:       Ø Concrete       Corrugated Metal       Plastic       Mark Stream         Pipe Material:       Ø Concrete       Asphalt       Stone       Date	* 2
Name of Stream:       WESTRIVER       Assessed By:       KUNAM + W         Reach Code:       LWS       Shack - 1/11         Designated Stream Type:       FIRST 2. FIRS FROM         Site ID:       NARE All Observations Facing Downstream         Location of Outfall:       ARight Bank       Left Bank Mark and label the location of the outfall on the g         brief description of the location of the outfall relative to roads or other landmarks.       STEE ATTACHE SMARP.       Brownstream         SEELEY       REF CRAPEC ST @ THE BARSE OF THE SMARP.       Brown SEE ATTER SETOW MHT (SEE BARSE)       SEE ATTER SETOW MHT (SEE BARSE)         Outfall Type:       Deposits / Stains       Done       Streak Off       Channel         Flow:       None       Market all oblight Bank       Odderate       Sub         Odor:       VONO       None       Streak Off       Channel         Flow:       None       Strickle       Moderate       Sub         Odor:       VONone       Brown       Green       Ora         Pipe Data:       Provide all relevant data.       Plastic       Market and label the locational Field       Other         Pipe Material:       Diameter:       Generation       Scain       Data       Plastic       Market and label the location of the outfall on the ushada	
Reach Code:       LWST       Struct       1/11         Designated Stream Type:       FIKST 2       FIPES FROM         Site ID:       Make All Observations Facing Downstream         Location of Outfall:       Aright Bank       Left Bank       Mark and label the location of the outfall on the g         brief description of the location of the outfall relative to roads or other landmarks.       SEE ATTACTES MAR.       DWSTEAM         SEE ATTACTES       DWAR.       BUTCHLOSS CONTER.       DWSTEAM         Outfall Type:       DEPoint Control of the location of the outfall relative to roads or other landmarks.       SEE ATTACTES MAR.       DWSTEAMARK.         Outfall Type:       DEPoint Control of the location of the outfall relative to roads or other landmarks.       SEE ATTACTES MAR.       DWSTEAMARK.         Outfall Type:       DEPoint Control of the Control of the outfall relative to roads or other landmarks.       SEE ATTACTER.       BELOW MHT       (SEE Sorter.)         Outfall Type:       None       DErive Trickle       Moderate       Sub         Outfall Type:       None       Deposits / Stains       Site       Sub         Deposits / Stains       Site       Sediment Delta       Oily Stain       Blad         Benthic Growth       Denone       Brown       Green       Ora         Pipe Material:	144 .
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Flow:       None       Trickle       Moderate       Sub         Pipe       Mone       Trickle       Moderate       Sub         Odor:       V None       Sewage       Rancid / Sour       Sulf         Deposits / Stains       Dne       Sediment Delta       Oily Stain       Black         Benthic Growth       KNone       Brown       Green       Ora         Pipe Data: Provide all relevant data.       Parking Lo?       Ø Other       Unknot         Pipe Material:       Ø Concrete       Corrugate Metal       Plastic       Ø         Contributing Source(s):       Road       Parking Lo?       Ø Other       Unknot         Pipe Size:       Diameter:       6" T       Ramped       At Stru         Pipe Size:       Diameter:       6" T       1       2       3 +         Leak-Off Data: Provide all relevant data.       East-Off Swale:       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1<	
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Deposits / Stains       >ne       □ Sediment Delta       □ Oily Stain       □ Black         Benthic Growth       ▷None       □ Brown       □ Green       □ Oraz         Pipe Data: Provide all relevant data.       □ Parking Lol       □ Plastic       ☑         Pipe Material:       ☑ Concrete       □ Corrugate Metal       □ Plastic       ☑         Contributing Source(s):       □ Road       □ Parking Lol       ☑ Other       □ Unknow         After Outlet:       ☑ Perched       ☑ Other       □ Unknow         Pipe Size:       □ Diameter:       ☑ 'I' I''       ☑       □ A + Strepower         Pipe Size:       □ Diameter:       ☑ 'I'' I''       ☑       □ A + Strepower         # of Pipes:       □ 1       ☑ 2       □ 3 + -         Leak-Off Data:       □ Concrete       □ A sphalt       □ Stone       □ I'         Contributing Source (s):       □ Road       □ Parking Lot       □ Recreational Field       □ O'         Width of Swale:       ft.       □       □       □ O'       □         Channel Material:       □ Concrete       □ A sphalt       □ Stone       □ I'         Channel Material:       □ Concrete       □ A sphalt       □ Stone       □ I'	ur (rotten egge)
Benthic Growth       Diversion       Diversion<	k XRVS
Pipe Data: Provide all relevant data.         Pipe Material:	
Pipe Material:       Concrete       Corrugate       Metal       Plastic       A         Contributing Source(s):       Road       Parking Lot       Other       Unknown         A Specific Contributing Source(s):       Road       Parking Lot       Other       Unknown         A Specific Contributing Source(s):       Diameter:       Image: Contributing Source (s):       Image: Contributing Source (s):       Image: Concrete       Image: Concrete       Image: Stone       Image: Contributing Source (s):       Image: Concrete       Image: Concrete       Image: Stone       Image: Contributing Source (s):       Image: Concrete       Image: Concrete       Image: Stone       Image: Concrete	.50
Contributing Source(s):       □ Road       □ Parking Lol       ☑ Other       □ Unknown         Jipe Outlet:       ☑ Perched       ½ ft.       □ Ramped       □ At Structure         Pipe Size:       □ Diameter:       6 '' \$       □       □       □       □       □       □       □       □       □       □       □       □       □       □       □       □       □       □       □       □       □       □       □       □       □       □       □       □       □       □       □       □       □       □       □       □       □       □       □       □       □       □       □       □       □       □       □       □       □       □       □       □       □       □       □       □       □       □       □       □       □       □       □       □       □       □       □       □       □       □       □       □       □       □       □       □       □       □       □       □       □       □       □       □       □       □       □       □       □       □       □       □       □       □       □       □ <t< td=""><td>Other Metal</td></t<>	Other Metal
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Leak-Off Data: Provide all relevant data.         Leak-Off Swale:       □ Concrete       □ Asphalt       □ Stone       □ I         Contributing Source (s):       □ Road       □ Parking Lot       □ Recreational Field       □ C         Length of Swale:       ft.       □       □       □       □         Width of Swale:       ft.       □       □       □       □         Channel Data: Provide all relevant data.       □       □       □       □       □         Channel Material:       □       Concrete       □ Asphalt       □       Stone       □       I         Contributing Source (s):       □       □       □       □       □       □       □       □       □       □       □       □       □       □       □       □       □       □       □       □       □       □       □       □       □       □       □       □       □       □       □       □       □       □       □       □       □       □       □       □       □       □       □       □       □       □       □       □       □       □       □       □       □       □       □       □       □       <	
Leak-Off Data: Provide all relevant data.         Leak-Off Swale:          □ Concrete           □ Asphalt           □ Stone           □ I          Contributing Source (s):          □ Road           □ Parking Lot           □ Recreational Field           □ Concrete           □ King Lot           □ Concrete           □ King Lot          Width of Swale:       ft.            □ Concrete           □ Stone           □ Concrete          Width of Swale:       ft.            □ Concrete           □ Asphalt           □ Concrete           □ Stone           □ Concrete           □ Stone           □ Field          Channel Material:          □ Concrete           □ Asphalt           □ Stone           □ Field           □ Field          Contributing Source (s):        □ Road         □ Parking Lot           □ Recreational Field           □ Other          Channel Length:          □           □           □           □          Notes:          □ sece provided to record important observations otherwise not captures on this	
Leak-Off Swale:          Concrete        Asphalt           Stone           If         If         Stone           If         If         Stone	
Contributing Source (s): <ul> <li>Road</li> <li>Parking Lot</li> <li>Recreational Field</li> <li>Recreational Field</li> </ul> Width of Swale:       ft.       Image: State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State St	arthen
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Width of Swale:       ft.       Image: State of the space provided to record important observations otherwise not captures on this         Width of Swale:       ft.       Image: State of the space provided to record important observations otherwise not captures on this         Width of Swale:       ft.       Image: State of the space provided to record important observations otherwise not captures on this	
Channel Data: Provide all relevant data.         Channel Material:         □ Concrete       □ Asphalt       □ Stone       □ H         Contributing Source (s):       □ Road       □ Parking Lot       □ Recreational Field       □ Other         Channel Length:       ft.       □       □       □       □       □         Channel Width:       ft.       □       □       □       □       □         Notes:       Use the space provided to record important observations otherwise not captures on this       □       □       □         Pifes       PELACIED       □       □       □       □       □	
Channel Material: $\Box$ Concrete $\Box$ Asphalt $\Box$ Stone $\Box$ HContributing Source (s): $\Box$ Road $\Box$ Parking Lot $\Box$ Recreational Field $\Box$ OtherChannel Length:ft. $\Box$ $\Box$ $\Box$ Channel Width:ft. $\Box$ $\Box$ $\Box$ Notes: Use the space provided to record important observations otherwise not captures on this $\varphi$ if $ES$ $\varphi$ EACMED $\Box$ W $\forall$ $IDE - B \lor T$ $ARE$ $BELC$	
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Channel Width:       ft.         Notes: Use the space provided to record important observations otherwise not captures on this         Fifes       PERCINEN         Vow       +1DE       BUT         ARE       BELC	
Notes: Use the space provided to record important observations otherwise not captures on this FILES PELCINED C LOW TIDE - BUT ARE BELC	
FILES PERCIPEO C LOW TIDE - BUT ARE BELC	ahaat
FILES PERCINED C LOW TIDE - BUT ARE BELL	sneet.
MEAN HIGH TIDE LINE T PROTRUGE FROM	n Bark
ROTH PIPES ARE TRICKLING - BUT UNCEERRI	F RESOLT
OF SUBMERGED (ANDITION DURING LOW TIDE -	- ONE
OF THE TWO PIPES HAS RUST COLORED DISC ALORNO THE BASE OF THE PIPE - POSSIO	HARSE leveloped By CT-NRCS
DE TO PICE MATERIAL.	

**CT – NRCS Stream Assessment Worksheet** Storm Water Outfal etta/ELST PUCK POND YALF TENNIS CENTER Developed By: CT-NRCS January 2008

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Storm Water Outfall

Survey Basin Code:				Date:	8-1	23/201	5		
Name of Stream: V	VES	T RIVER		Assessed By: KEADALL B + WILL					
Reach Code	105	-							
Designated Stream Ty	vne:			Sheet > of 11					
Site ID [.]	/ .						· · · ·		
Make All Observation			Observations	s Facing I	Daw	nstraam			
Location of Outfall:	DRR	ght Bank DIet	f Bank Mar	t and label	the la	ocation of the out	tfall o	n the man and provide a	
brief description of the lo	cation o	f the outfall relative	to roads or ot	her landmai		UCIT O		n me map and provide a	
	C	TAPELST	181		9	7300			
		1	- 4						
	$\frown$		7.5						
-	TE Y	-15	[182]				-		
	hết thể	(		<u>ee</u>		01 1			
Outian Type:		pe		π			┥╴	7 Gulastantial	
Flow:		one				Moderate	┥╘	J Substantial	
Odor:	DELIN	one	L Sewage			Rancid / Sour	_ _	J Sulfur (rotten eggs)	
Deposits / Stains	- <u>(</u> N)	one	Sedimer	nt Delta	브	Oily Stain	<u>_</u>	Black	
Benthic Growth	12-N	one	L Brown			Green		J Orange	
Pipe Data: Provide a	ll relev	vant data.	T = -		1				
Pipe Material:		A Concrete	Corrug	ated Meta	al	□ Plastic		🖾 Other	
Contributing Source	e(s):	KRoad	🗆 Parking	g Lot		Other	AU	Jnknown	
Pipe Outlet:		Perched	<u> </u>	🛛 🗖 Ramj	ped		At Stream Level		
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Storm Water Outfall

Sumou Pagin Cada				Data: C	21221200				
Survey Basin Code:		UNEC - P		Date: 87 257 200					
Name of Stream:	<u></u>	- MDIN	ver	Assessed by: REIVOLUE BT WILL					
Reach Lode:	-5								
Designated Stream T	ype:			Shoet 3 ot-11					
Site ID:		N.C. 1	NT (*			_			
Landian of Ordfalls	da da da	Make All C	Deservation	s racing I	Downstream				
Location of Outfall: Location of the outfall on the map and provide a									
Downs TREAM OF									
-C # 3		ALE	and the second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second s	$\frown$		20	THE COM		
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O. 46-11 T	ອີກ	TELOS / /					·····		
Duttall Type:		pe		Π					
Flow:		one				┥╘	Substantial		
Daor:		one			Rancid / Sour		Sulfur (rotten eggs)		
Deposits / Stains		one		nt Delta		─┤╘	Black		
Benthic Growth		one	L Brown		Green		□ Orange		
Pipe Data: Provide all relevant data.									
Pipe Material:		<u>Concrete</u>		gated Meta	al L Plastic	1 <del>- 4</del> -			
Contributing Source	e(s):			g Lot	KOther	NAC	nknown		
Pipe Outlet:		L Perched	<u>ft.</u>		ped		At Stream Level / Stream Level		
Pipe Size:		Diameter:	<u>(</u> ft				· · · ·		
# of Pipes:							+		
T LOCTD ( D	· 1 · 1								
Leak-Off Data: Prov	/ide al	relevant data.							
Leak-Off Swale:			LI Asphal	<u>t</u>					
Contributing Source	e (s):		Parking	g Lot	Recreational	field	□ Other		
Length of Swale:	ft.								
Width of Swale:	ft.								
Channel Data: Prov	ide all	relevant data.							
Channel Material:				t Lana			Earthen		
Contributing Source	e (s):		Parking L	ot $\square R$	Recreational Field		Other   🗆 Unknown		
Channel Length:	ft.								
Channel Width:	ft.								
Notes: Use the space	nrovi	ded to record imr	nortant obse	ervations o	therwise not capt	ires o	n this sheet		
						~			
PIPE 3	×0	REN T	Prec		N CHANN		-		
TINE (		-ZFEE?	DE	LOW	ACTUE	C.	TANNE L/		
BANK	1721	GHT/ P	NHT	LEVEL	L. FIRE	1	2 SUBMERGE		
) C ion	TI	Né.							

Storm Water Outfall

Survey Basin Code:			Date: 8723/2010						
Name of Stream: Lut	Name of Stream: Lutes T KIVE/				Assessed By: KENDALL B+WILL				
Reach Code:	Reach Code: LW5								
Designated Stream Type:	Designated Stream Type:					ÊΙ	(		
Site ID:									
and the second second	Make All Observations Facing Downstream								
Location of Outfall: A Right Bank A 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 51	MACL O	VTFAC	LS V	ivs	TABON	E	STREAM		
LEVEL BEA BRIDGE	EATH AF	BUTME	N	Fa	Ch ERG		SUN DEOR		
	Dime		<u>x</u>		011				
Flow	Elpe		<u> </u>			┼┍			
Flow:	None					ᆛ블	Substantial		
	None	L Sewage	1 72 11		Rancid / Sour	┥╧	U Sultur (rotten eggs)		
Deposits / Stains	None	L Sedimer	it Delta				Black		
Benthic Growth Dernone Brown Green Orange						Orange			
Pipe Data: Provide all re	levant data.			• 1					
Pipe Material:	Concrete		gated Metal    Plastic				Other		
Contributing Source(s):	Road	🗆 Parking	ng Lot Unknown				nknown		
Pipe Outlet:	Perched	ft,	Ramped X At Stream Level				t Stream Level		
Pipe Size:	Diameter:	2ft.							
# of Pipes:		<b>X</b> 2				+			
Leak-Off Data: Provide	all relevant data.								
Leak-Off Swale:		Asphalt			Stone		Earthen		
Contributing Source (s)	: 🗆 Road	D Parking	Lot		Recreational F	ield	□ Other		
Length of Swale: f	<b>t.</b>								
Width of Swale: f	•								
Channel Data: Provide a	ll relevant data.								
Channel Material:	Concrete	Asphalt			Stone		Earthen		
<b>Contributing Source (s)</b>	: 🗆 Road 🛛 🗆	Parking Lo	t 🗆 R	есге	ational Field		Other 🛛 Unknown		
Channel Length: f	t.								
Channel Width: f	•								
Notes: Use the space pro	vided to record im	portant obser	vations o	ther	wise not captu	res oi	n this sheet.		

#### Storm Water Outfall

Survey Basin Code:				Date: 8/23/2015					
Name of Stream: L	NES-	TRIVER		Assessed By: KENDALIB TWILL					
Reach Code: Lw									
Designated Stream T	ype:			She	2et	+ 5 07	_10		
Site ID:						U			
		Make All (	Observation	s Facing 1	Dow	nstream			
Location of Outfall: I Right Bank KLeft Bank Mark and label the location of the outfall on the map and provide a									
brief description of the lo	cation o	f the outfall Telative	to roads or of	iher landmai	ks.	-8-	<		
			o alesa	ns' Arc	pr-	EBRI	pat		
	-t	5 0.	offall	Jul	ρĹ		El	Quar graves	
			Ð	Par				3	
		1							
Outfall Type:	Pin Pin	ре	Leak O	ff		Channel			
Flow:	NO NO	one	Trickle			Moderate		Substantial	
Odor:	2 No	one	□ Sewage	;		Rancid / Sour		Sulfur (rotten eggs)	
Deposits / Stains	<b>Z</b> No	one	□ Sedime	nt Delta	t Delta Dily Stain			Black	
Benthic Growth	<b>D</b> NO	one	Brown			Green		Orange	
Pipe Data: Provide a	ill relev	vant data.	1						
Pipe Material:		Concrete		gated Meta	ป	□ Plastic		□ Other	
<b>Contributing Source</b>	e(s):	Road	D Parkin	g Lot 🛛 Other 🖉			Ø	Inknown	
Pipe Outlet:		Frenched	<u>-3</u> ft.	□ Ramped □ At Stream L				t Stream Level	
Pipe Size:		Diameter:	\ ft.						
# of Pipes:		<b>1</b>				i	□ 3 +		
Leak-Off Data: Prov	vide all	relevant data.							
Leak-Off Swale:			□ Asphalt			Stone		□ Earthen	
<b>Contributing Source</b>	e (s):	C Road	🗖 Parking	g Lot		Recreational F	rield	□ Other	
Length of Swale:	ft.								
Width of Swale:	ft.								
<b>Channel Data:</b> Prov	ide all	relevant data.							
<b>Channel Material:</b>			□ Asphalt	t		1 Stone		E Earthen	
<b>Contributing Source</b>	e (s):	□ Road □ □	Parking L	ot 🛛 🗖 R	ecre	ational Field		Other 🛛 Unknown	
Channel Length:	ft.								
Channel Width:	ft.								
<b>NT 4 TT 4</b>		1 1, 1,				•			
Notes: Use the space	provid	ied to record imp	portant obse	rvations c	ther	wise not captu	ires o	n this sheet.	

#### Storm Water Outfall

Survey Basin Code:				Date:	8/23/20	(5		
Name of Stream: W	EST	RIVER		Assessed By: KENDON BY WILL				
Reach Code: VWC	)							
Designated Stream Ty	/pe:			Sh	set 6 of	((		
Site ID:					0			
		Make All O	Observations	s Facing I	Downstream			
Location of Outfall: brief description of the loc $\Lambda O \cap f \cap O \cap O \cap O \cap O \cap O \cap O \cap O \cap O \cap$	Ri cation c Eacl	ght Bank Lei of the outfall relative gewood A-	ft Bank Mar to roads or ot く 足っこく	k and label her landmar	the location of the out rks. $\overline{E_{00}}$	tfall on	a the <u>map</u> and provide a	
Outfall Type:	12KPi	pe	Leak Of	ff	Channel			
Flow:	۶N	one	Trickle		☐ Moderate		Substantial	
Odor:	NDX	one	□ Sewage		Rancid / Sour		l Sulfur (rotten eggs)	
Deposits / Stains	ØN	one		nt Delta	Oily Stain		I Black	
Benthic Growth	<b>N</b>	one	Brown		Green		Orange	
Pipe Data: Provide a	ll rele	vant data.						
Pipe Material:		<b>E</b> Concrete	Согид	ated Meta	al D Plastic		Other PRESS	
<b>Contributing Source</b>	e(s):		D Parking	g Lot	□ Other	MU	Jnknown	
Pipe Outlet:	10	Z Perched	2- ft.		ped \@	AZ	t Stream Level	
Pipe Size:		Diameter: V				-		
# of Pipes:				<b>1</b> 2			+	
			1	·/·				
Leak-Off Data: Prov	vide al	l relevant data.	1					
Leak-Off Swale:		Concrete	Asphalt		□ Stone		Earthen	
<b>Contributing Source</b>	e (s):	🖾 Road	D Parking	Lot	□ Recreational Field		□ Other	
Length of Swale:	ft.							
Width of Swale:	ft.							
Channel Data: Prov	ide all	relevant data.						
<b>Channel Material:</b>		Concrete	□ Asphalt		□ Stone		Earthen	
<b>Contributing Source</b>	e (s):	□ Road □	Parking Lo	ot 🛛 🖬 R	Recreational Field		Other Unknown	
Channel Length:	ft.							
Channel Width:	ft.							
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Partial	uj .	Alled n/	Scdim	ents.				

## Storm Water Outfall

Survey Basin Code:				Date:	81:	23/2015				
Name of Stream: W	EST	RIVER		Assessed By: KENDAN & + WILL						
Reach Code: LW5										
Designated Stream Ty	ype:			5	تمح	+70	771			
Site ID:	Site ID:						9			
Make All Observations Facing Downstream										
Location of Outfall: Right Bank $\Box$ Left Bank Mark and label the location of the outfall on the <u>map</u> and provide a brief description of the location of the outfall relative to roads or other landmarks. Nownstrang Footbridge - Bridge Abutance it										
								N Footonidge		
Outfall Type:	<b>P</b> i	ipe	Leak Of	ff		Channel				
Flow:	- 1	one	Trickle			Moderate		Substantial		
Odor:	<b>M</b> N	one	□ Sewage			Rancid / Sour		□ Sulfur (rotten eggs)		
Deposits / Stains	D N	lone 🛛 🗆 Sedim		nt Delta	□ Oily Stain			l Black		
Benthic Growth	<b>M</b> N	one	Brown		Green Ora			Orange		
Pipe Data: Provide a	ll rele	vant data.								
Pipe Material:		-Concrete	Corrug	Corrugated Metal Delastic				□ Other		
<b>Contributing Source</b>	e(s):	□ Road	D Parking	Parking Lot		Differ [		Jnknown		
Pipe Outlet:		D-Perched	<u>l ft.</u>	Ramped		ed C		At Stream Level		
Pipe Size:		Diameter:	<u>  ft.</u>							
# of Pipes:		<b>121</b>						<u>□ 3 +</u>		
Leak-Off Data: Prov	vide al	l relevant data.								
Leak-Off Swale:			☐ Asphalt			Stone		□ Earthen		
Contributing Source	e (s):	Road	D Parking	Lot		Recreational F	lield	□ Other		
Length of Swale:	<u>ft.</u>									
Width of Swale:	ft.									
Channel Data: Provi	ide all	relevant data.								
Channel Material:			🛛 🗆 Asphalt	alt 🛛 Stone 🖾 Earthen				E Earthen		
Contributing Source	e (s):		Parking Lo	ot   🗆 R	lecre	ational Field		Other   🗆 Unknown		
Channel Length:	ft.									
Channel Width:	ft.									
Notes: Use the space	provi	ded to record im	nortant obser	rvations o	ther	wise not cantu		n this sheet		

Storm Water Outfall

Survey Pasin Code:				Deter		22/200			
Name of Stream	NECT	RIVER		Assessed Bu: K-alland & fluit					
Ranch Code: /	15-	RIVER		Assessed	і Бу.	Newon	VC.	Dy with	
Designated Stream '				Shart G T II					
Site ID:	rype.	_		Under staf-11					
She ID.		Mala All	Chromitian	- Fasing I	Douine	-			
Location of Outfall	NT D	ight Bank I.a	A Bank Ma	s racing r	Abala		10-11 X	dha man an tao 11	
brief description of the l Nocth/-psh Nidoray M	ocation of ream	of the outfall relative n of footbo n 2 Edge	to roads or other ride road for	her landmar - F-	rks.		Jcf Fbri	dge	
Outfall Type:	THE D	ne		ee.		"hannel	-		
Flow.		one	Trickle			Joderste		Substantial	
Odor:		one				Panoid / Sour		Substantial	
Daposits / Stains		one	C Sedimo	nt Dalta		Vily Stoin		Disak	
Penthic Crowth						Proon			
Dine Date: Drovide		unc vent dete		÷ 10		neen		Torange	
Dine Material	an icie	Valle Uala.	Decomin	atad Mate	1	D Plactic		Lateral Transfer 1	
Contributing Sour	00(0)-			alcu Mela	u				
Vine Outlate	cc(s):						Di At Stream Level		
Dine Sizes		Diamatan ( C	$\frac{\pi}{\sqrt{2}}$				A	a Stream Level	
ripe Size:		Diameter: 1						1	
# of ripes:									
Leak-Off Data - Pr	wide al	l relevant data							
Leak-Off Swale	/ iuo di		A sphalt			tone		D Farthen	
Contributing Sour	re (s).		Parking			Recreational Field			
Length of Swale	<u> (3).</u> ft		i wi i di Kilig	LUL					
Width of Swale	ft	-			-				
Channel Data: Pro	vide all	relevant data	l					1	
Channel Material	. nav all		□ Asnhalt			Stone	-	□ Farthen	
Contributing Sour	re (s):	Road F	Parking I c	nt IR	ecrea	stional Field			
Channel Length	<u> (3).</u> ft		a maning DU						
Channel Width	ft								
	100	1						I	
Notes: Use the space	e provi	ded to record im	portant obse	rvations c	otherv	vise not captu	ires o	n this sheet.	
Parti	alm	submerged	+ F(1	ed w	( 5.	edi men	+ (	2 Low water	

Storm Water Outfall

$\smile$											
Surve	y Basin Code:				Date:	81	23/2015				
Name	of Stream: W	EST	RIVER		Assessed By: KENDAN B TWILL						
Reach	Reach Code: LW5										
Desig	Designated Stream Type:					et	9 02	((			
Site ID:											
	Make All Observations Facing Downstream										
Location of Outfall: A Right Bank KLeft Bank Mark and label the location of the outfall on the map and provide a								the map and provide a			
brief description of the location of the outfall relative to roads or other landmarks.							2				
6	e A Ce	ak	off + a	. brok	en pi	pe	on	FT 4	Pant - Camaca		
approximately A cross from "Center Pond" - Camera put of Batteries - No Pictures											
	0										
Outfa	all Type:	Pi Pi	pe	E Leak O	ff		Channel				
Flow	•	<b>N</b>	one				Moderate		Substantial		
Odor		<u>Z</u> N	one	□ Sewage			Rancid / Sour		□ Sulfur (rotten eggs)		
Depo	sits / Stains	KI N	one 🛛 🖾 Sedi		nt Delta	Delta   🗆 Oily Stain					
Bentl	hic Growth	ØN	one	Brown			Green		Orange		
Pipe	Data: Provide a	<u>ll rele</u>	vant data.			- 1		÷	A state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the sta		
Pipe	Material:		Concrete	Corrugated Meta			□ Plastic	~	Other		
Cont	ributing Source	e(s):		Parking Lot			□ Other		Inknown		
Pipe	Outlet:		Perched	ft.	🛛 🗆 Ramı	ped D			At Stream Level		
Pipe	Size:		Diameter:	ft.							
# of I	Pipes:				<b>A</b> 2				<u> </u>		
Leak	-Off Data: Prov	vide al	l relevant data.			1.1.7		11 13			
Leak	-Off Swale:		Concrete	🛛 🗆 Asphalt			Stone		Earthen		
Cont	ributing Source	e (s):		D Parking	; Lot		Recreational F	ield	Other		
Leng	th of Swale: + 3	<u>70 ft.</u>	estima	ed							
Widt	th of Swale: 5-	-8 ft.	estimate	Ed							
Char	nnel Data: Provi	ide all	relevant data.								
Chan	nnel Material:			C Asphalt	<u>t</u>		Stone	=	Earthen		
Cont	ributing Source	e (s):	Road C	Parking Lo	ot 🛛 🗆 R	lecrea	ational Field		Other D Unknown		
Char	nnel Length:	ft.				$\perp$					
Chan	nnel Width:	ft.									
Mater	s. Use the encod	nrowi	dad to record in	nortant abas	motions	tham	wing not some		n this sheat		
-   INUIC:	s: Use the space	μυνι	ucu to record Im	portant ODSC	a valions C	лисп	мізе пог сарш	ues ol	n uns snect.		

CRUMENTARINE I

Storm Water Outfall

Survey Basin Code:				Date: 8/23/2015					
Name of Stream: 4	JES.	T RIVER		Assessed By: KENOAL B + WILL					
Reach Code: LW.	5								
Designated Stream Ty	ype:			5	hoe	+ 10 01	<u>_ lr</u>		
Site ID:									
1	~ ~	Make All O	Observation	s Facing I	Down	stream			
Location of Outfall: brief description of the loc Just L Abutment	ft Bank Ma to roads or of っ みん い	rk and label her landmar 30 - 7	the lo rks.	$\gamma d s$	fall or Br	some			
Onthell Trans	br n		T Loole O	<u>cc</u>		Thermol	T	4 22	
Flown		pe	D Trialda	<u>11</u>			╧	I Substantial	
Clor:		one				Viouerate	┼╞	Substantial	
Deposite / Stains		0110	Sedimo	nt Dolto		Valiciu / Soul	┼╞	1 Plack	
Deposits / Status		one	D Proum	ni Dena		Jily Stalli Green	┼╞	I Diack	
Bine Date: Provide a		vent dete	LI BIOWII	2 - 23		JICCII			
Pipe Data: Flovide a	11 1616	Concrete	Corrue	ated Mat	1	D Plastic		D Other	
Contributing Source	(2).	Road	D Parkin	ated Mea	<u>"</u>	Cother		Inknown	
'ine Outlet'	(3).	Road Renched	$\frac{1}{2} \frac{1}{2} \frac{1}{2}$		ned 4			t Stream Level	
Pine Size:		Diameter:	<u> </u>		Jea			R Birduin Lever	
# of Pines:			16.	12 2				+	
						1			
Leak-Off Data: Prov	vide al	l relevant data.			-		-		
Leak-Off Swale:			Asphalt			Stone		Earthen	
<b>Contributing Source</b>	e (s):		Parking	Lot D Recreationa		Recreational F	ield	□ Other	
Length of Swale:	ft.			,					
Width of Swale:	ft.								
Channel Data: Provi	ide all	relevant data.							
<b>Channel Material:</b>		Concrete	□ Asphalt		□ Stone			Earthen	
<b>Contributing Source</b>	e (s):	Road C	Parking Lo	ot 🗆 R	lecrea	creational Field		Other Unknown	
Channel Length:	ft.								
Channel Width:	ft.								
Notes Lies the space	BEOLU	dad to record ima	antant ahaa	- notiona c	thom	uico not contu	rod 0	n this shoot	
Z La most is is deter during Ro svrvey, Elarge S to Brida Concrete	ge Be Jar Jar Jar Jar Jar Ge	stormwa the concr ating. t enents, ment 1. Apathne slightly	ter z ete t teary No 7 De Ita Mt. E	AT M Corrector	Se ga ok ok ve(	p-pes. tel me nuatr served ( as p Brdg N/ mi	ta Te 2.7	PRaplacel. Porthan 1-which Cows UIJ. Gle toms OJ. Gle proplacel. proplacel. proplacel. Developed By CT-NRCS i (JD January 2008 mal flow.	

CT – NRCS Stream Assessment Worksheet

Storm Water Outfal

water froming over the Rip Ref + from Whalley Ane to the fostbridge near Coagan Pavilion VERY For Smelling. Scarage like. Gran Mygae + lots of sedment mild up in Channel Bottom/Bed.
Storm Water Outfall

Survey Basin Code:	1			Date:	8	123/20	12		
Name of Stream: 4	VES	T KIVEL		Assessed	By:	KEND	m	-B+WICLR	
Reach Code: 2	-45								
Designated Stream T	ype:			shaet a	1 /	11			
Site ID:									
		Make All (	Observation	s Facing J	Dow	nstream			
Location of Outfall:		ight Bank 🛛 Le	ft Bank Ma	rk and label	the l	ocation of the out	tfall or	the map and provide a	
brief description of the lo	cation o	of the outfall relative	to roads or of	ther landma	rks.	1.	- 4		
(SO OUTFALL BENEDTH BRINGE/ WIN ABNTHENT									
	<u> </u>						•		
Outfall Type	D D	ine		ff		Channel			
Flower		Ipe	D Trial-la	11				Culestant al	
LIOW:		lone					┦╞		
		one	Sewage	; ;	M	Rancid / Sour		Sulfur (rotten eggs)	
Deposits / Stains		one	Sedime	nt Delta	말	Uily Stain		Black	
Benthic Growth		one	U Brown		R	Green		Orange	
Pipe Data: Provide a	ll rele	vant data.	1		_				
Pipe Material:	-	Concrete		gated Meta	al	□ Plastic		Other	
Contributing Source	e(s):	K Road	Parkin	g Lot		Other	ΠŬ	Inknown	
.'ipe Outlet:		Perched	<u> </u>	🛛 🗆 Ram	ped			t Stream Level	
Pipe Size:		Diameter: 2 ×	.3 ft.						
# of Pipes:		143-1						+	
Leak-Off Data: Prov	vide al	l relevant data							
Leak-Off Swale:		Concrete	□ Asphalt	t		Stone		□ Earthen	
<b>Contributing Source</b>	e (s):		D Parking	Lot		Recreational F	ield	□ Other	
Length of Swale:	ft.								
Width of Swale:	ft.								
Channel Data: Prov	ide all	relevant data	1.						
Channel Material			Asphali	ł		Stone		Earthen	
Contributing Source	e (s):		Parking L	nt ⊓ R	ecre	ational Field			
Channel Length	<u>- (3).</u> ft		- i uiking Li						
Channel Width	ft								
			]						
Notes: Use the space	provi	ded to record im	portant obse	rvations of	other	wise not captu	res o	n this sheet.	
CSO by ffall No flows observed									
tor S	Forl Smell - See Sneet 10 of 11								

Developed By: CT-NRCS January 2008

Modified Channel

Date:	82315		
Assesse	BY: NOR5A	M FIRMS	
	1 orge		
ons Facing $D$	ownstream	ı	
abel the location to roads or othe 200K BET9	n of the modified er landmarks.	channel on the <u>map</u>	and provide a NALGREENS
□ Steep	Slope/Valley	Wall D Other	
ît,			
ft.			
Bank Armor	ing 🗆 Con	crete Channel	1 Other
Left Bank		nnel Bottom	- ormer
ip Rap	Concrete	Gabions	🗆 Metal
s) immediately	adjacent to the m	odified section.	
Com	nercial	□ Forested	
	ultural	Recreation	onal
verage width of	riparian vegetatic	on to the modified se	ction
- 50 ft.	□ 50 - 100	ft $\square > 1$	00 ft
1 10			T and the second second second second second second second second second second second second second second se
hannel?	□ Yes / Esti	mate Width: ft	X No
nel?	□ Yes		M.No
	□ Yes		No
hearuntions	themuice not a	antures on this al	aat
User varions c	unerwise not c	aptures on uns sr	eet.
			1
TE BLO	cks used	TO PROTECT	WALL
TE BLO	cks used	TO PROTECT	WALL
TE BLO	cks used	TO PROTECT	WALL
TE BLO	cks used	TO PRATECT	WALL
TE BLO	cks used	TO PRATECT	WALL
TE BLO	cks used	TO PRATECT	WALL
TE BLO	cks used	TO PRATECT	WALL
TE BLO	cks used	TO PRATECT	WALL
TE BLO	cks used	TO PRATECT	WALL
TE BLO	cks used	TO PRATECT	WALL
	Assessed	Assessed By: NoRGA ns Facing Downstream abel the location of the modified to roads or other landmarks. CON PETENNA LOPM Disteep Slope/Valley t. t. Bank Armoring Con Left Bank Concrete s) immediately adjacent to the m Commercial Agricultural rerage width of riparian vegetation 50 ft. 0 50 – 100 hannel? Yes / Esti- hear yes	Assessed By: NoRGAN EARAS  ns Facing Downstream  abel the location of the modified channel on the map to roads or other landmarks.  CK PETANING LOAN BETTING I  Steep Slope/Valley Wall I Other  t.  Bank Armoring I Concrete Channel Left Bank I Channel Bottom ip Rap I Concrete I Gabions  s) immediately adjacent to the modified section.  Commercial I Forested I Agricultural I Recreation  rerage width of riparian vegetation to the modified section.  Factor of the modified section to the modified section.  Page Width of riparian vegetation to the modified section.  Page Ves  Sector of the modified section to the modified section.  Page Width of riparian vegetation to the modified section.  Page Ves  Sector of the modified section to the modified section.  Page Width of riparian vegetation to the modified section.  Page Ves  Sector of the modified section to the modified section.  Page Width of riparian vegetation to the modified section.  Page Ves  Sector of the modified section to the modified section.  Page Width of riparian vegetation to the modified section.  Page Width of riparian vegetation to the modified section.  Page Ves  Sector of the modified section to the modified section.  Page Width of riparian vegetation to the modified section.  Page Ves  Sector of the modified section to the modified section.  Page Ves  Description of the modified section.  Page Ves  Description of the modified section.  Page Ves  Description of the modified section.  Page Ves  Description of the modified section.  Page Ves  Description of the modified section.  Page Ves  Description of the modified section.  Page Ves  Description of the modified section.  Page Ves  Description of the modified section.  Description of the modified se

Modified Channel

Survey Basin Code:	Date: 82.315									
Name of Stream: WEST RIVER	Assessed By: MORGAN EVANS									
Reach Code: Linko										
Designated Stream Type:										
Site ID:										
Make All Observations	Facing Downstream									
Location / Extent of Modified Channel: Mark and label brief description of the location of the channel section relative to r	I the location of the modified channel on the <u>map</u> and provide a roads or other landmarks.									
VPSTREAM FROM 1St BRIDGE BELOW DAY STREAM ON THAT SIDE. MARKED AS (M	UPSTREAM FROM 1St BRIDGE BELOW DAM. 7-11 is closest BUILDING OFF OF STREAM ON THAT SIDE. MARKED AS (MC2) BRIDGE IS RAMSDELL AVE.									
Mark where channel modification occurs:										
Meander Bend  Straight Section	□ Steep Slope/Valley Wall □ Other									
Estimate length of channel modification: 100 ft.	de la constance de la constance de la constance de la constance de la constance de la constance de la constance									
Estimate height of bank modification: (o ft.										
Type of Manipulation:       Image: Channelization       Image: Bank Armoring       Image: Concrete Channel       Image: Other         Extent of Manipulation:       Image: Right Bank       Image: Left Bank       Image: Concrete Channel       Image: Other										
$\frac{\Box}{\Box} = \frac{\Box}{\Box} = \frac{\Box}$	Rap Concrete Gabions GMetal									
Immediately Adjacent Land Use: Mark the land use(s) in	mmediately adjacent to the modified section.									
□ Rural Residential □ Urban Residential	Commercial  Forested									
🗆 Suburban Residential 🛛 Industrial	□ Agricultural □ Recreational									
י א עעדייע איז איז א דער אין אין אין אין אין אין אין אין אין אין										
Existing Width of Riparian Vegetation: Mark the avera	ge width of riparian vegetation to the modified section. $\Box = 100 \text{ ft}$									
$\mu < 15 \pi$ . $\Box 15 - 35 \pi$ . $\Box 35 - 50$	$11.$ $\Box 30 - 100 \Pi$ $\Box > 100 \Pi$									
Is there a change in the average width of the active chan	nnel? 🛛 Yes / Estimate Width: ft 🕅 No									
Is there evidence of sediment deposition in the channel	? $\Box$ Yes $\blacksquare$ No									
Is the channel connected to a floodplain?	□ Yes 🖾 No									
Notes: Use the space provided to record important obse	ervations otherwise not captures on this sheet.									
CONCRETE STOLE WALL BUILD A	S EROSION BARRIER.									

Fish Barrier

			Date: 8	23/15			
Name of Stream: WEST	RIVER		Assessed F	V: MARGAN	FINANIS		
Reach Code: LING			1	2. Moragana	EVANO		
Designated Stream Type:							
Site ID:							
	Make All O	bservatio	ns Facing Do	wnstream			
the barrier relative to roads or of POND LIVY DAM	rk and label the location other landmarks.	n of the bar	Inter on the map ON MAP	and provide a brie	ef descrip	otion of t	he location of
Type of Barrier: Mark the	type of fish barrier.						
🖾 Dam	Culvert		□ Velocity	Barrier		her	
s there other infrastruct	Concrete	h the Da	Shape of Sp one & Concre m? INO	<b>illway: ⊠</b> Stra ete □ Timl □ Yes (If yes m	uight per-Cril ark the ty	Cres	scent Other v)
Culvert Data: Provide all re	lydro Facility	L Mill		□ Residence		□ Othe	er
vpe of Culvert:	Box	Dina					6
ulvert Material:		Corru	roted Metal	D Pipe-Arch	1	Arc	ch
ulvert Outlet:	D Perched:	ft	D Pampad	D Plastic		L Sto	ne
ulvert Size:	Diameter:	ft	Height:	Ĥ	U Su	bmerge	d
of Culverts:	Culvert Length:	ft.	Treight.	11,	wiatr	1:	ft.
elocity Barrier Data: Pr	ovide all relevant data.						
elocity Barrier Data: Pr	ovide all relevant data. Grade Control Sill	Con	crete Apron	Channel C	ross-Se	ection	1 Other
Velocity Barrier Data: Pr lature of Barrier: 0 ength of Barrier:	ovide all relevant data. Grade Control Sill ft. Approx.	Cond Vertical	crete Apron	Channel C	ross-Se	ection	Other
Velocity Barrier Data: Privature of Barrier:	ovide all relevant data. Grade Control Sill ft. Approx. ded to record impor	Cond Vertical	crete Apron Rise: rvations other	Channel C ft.	ross-Se	ection this she	Other Other

Fish Barrier

Survey Basin Code:	Date: 82315
Name of Stream: WEST RIVER	Assessed By: MORGAN EVANS
Reach Code: LW6	
Designated Stream Type:	
Site ID:	
Make All Observation	ns Facing <i>Downstream</i>
<b>Location of Barrier:</b> Mark and label the location of the barrier	ier on the $\underline{map}$ and provide a brief description of the location of
the barrier relative to roads or other landmarks.	
A NEW HUNDRED FEET UPSTREAM	OF VALLEY ST BRIDGE.
MARKED AS (B2)	ų -
Type of Rarrier. Mark the type of figh harrier	
Dom	
Dam Li Cuiveri	LI Velocity Barrier LI Other
Nom Nata. Dravida all relevant data	e. A series a constant a series a series a series a series a series a series a series a series a series a series a
Usight of Dom. 1 ft I ongth of Spillwov, 66ft	
Motorials. D Stone N Concrete D Sto	Snape of Spillway: Straight L Crescent
Is there other infrastructure associated with the Der	ne & Concrete   Li 11mber-Crib   Li Other
The Footory Dudro Fooility DMill	<b>n</b> : $\square$ NO $\square$ Y es (If yes mark the type below)
	LI Residence LI Other
Culvert Data: Provide all relevant data.	
Type of Culvert:         □ Box         □ Pipe	□ Pipe-Arch □ Arch
Culvert Material:	$\square$ $\square$ $\square$ $\square$ $\square$ $\square$ $\square$ $\square$ $\square$ $\square$
Culvert Outlet:	□ Ramped □ Submerged
Culvert Size: Diameter: ft.	Height: ft. Width: ft.
# of Culverts: Culvert Length: ft.	
Velocity Rarrier Data. Dravide all relevant data	
Nature of Barrier. D Grade Control Sill D Conc	wate Amon D Channel Cross Section D Other
Tongth of Rarrier ft Annroy Vertical	Direct Apron   Li Unannei Cross-Section   Li Unei
Length of Darrier. 11. Approx. vertical	Rise: II.
Notes: Use the space provided to record important obser	rvations otherwise not cantured on this sheet
LOW OLD CONCOUNTE DAM BRONG	
with the contract state, there	A MARKE IN MINY FORCES, NOT
CAUSING FUL BLOCK OFF STREA	M.

Survey Desin Code				Data:	0	lie			
Nome of Streem: 1.1		31.100		Accesses	0123	115	S	112	
Papah Code: 1 1	EST	KIVER		ASSessee	by.	MORGAN	EVA	26	
Reach Code: LW	0								
Designated Stream T	ype:								
Site ID:		N.(-1 A11.(	N	E . 1					
1	b(n)	Make All C	Deservations	s Facing I	Jowi	istream			
brief description of the lo	cation of	of the outfall relative	to roads or ot	k and label her landma	the lo	ocation of the ou	tfall on	the m	ap and provide a
100 FRET U	PSTRI	DAM OF E	RAMSO	EL BI	RIDE	E. MARK	ED	ON	MAP AS
$\bigcirc_1$									1.1.4 1.4.4
A 14 H M	-	/		20					
Outfall Type:	M Pi	pe	L Leak Of	1		Channel			
Flow:		one	M Trickle			Moderate		Subs	tantial
Odor:	MN	one	LI Sewage		L Rancid / Sour L			□ Sultur (rotten eggs)	
Deposits / Stains	MN	one	LI Sediment Delta			Dily Stain		Black	¢
Benthic Growth	MN	one	L Brown			Green		Oran	ge
Pipe Data: Provide a	ll relev	vant data.						1	
Pipe Material:		Concrete	Corruga	ated Meta	1	□ Plastic		🗆 Other	
<b>Contributing Source</b>	e(s):	Road Road	Parking Lot		Other		$\Box U$	nknov	vn
Pipe Outlet:	11.10	Perched	<b>2</b> ft.	Ramped		$\Box A$	□ At Stream Level		
Pipe Size:		Diameter: 3	ft.	1		_			
# of Pipes:		<b>M</b> 1		$\square 2$			$\square 3$	+	
		·			_			11	
Leak-Off Data: Prov	ide all	relevant data.							
Leak-Off Swale:		Concrete	□ Asphalt			Stone		$\Box$ Ea	arthen
<b>Contributing Source</b>	: (s):	□ Road	□ Parking	Lot		Recreational F	ield		ther
Length of Swale:	ft.	CT1.3.5	· · · · · · · · · · · · · · · · · · ·		1.4.2.				
Width of Swale:	ft.								
Channel Data: Provi	de all	relevant data.							
Channel Material:		Concrete	□ Asphalt			Stone		D Ea	arthen
<b>Contributing Source</b>	(s):	□ Road □	Parking Lo	t 🗆 R	ecrea	ational Field		ther	🗆 Unknown
Channel Length:	ft.								
Channel Width:	ft.								
Notes: Use the space	provid	led to record imp	ortant obser	vations o	therv	vise not captu	res on	this s	sheet.

Survey Basin Code:				Date: Ø	121	<				
Name of Stream:	ME	ST RIVER		Assesse	d Bv	Nozia	Eni	ANC.		*****
Reach Code:	alle				<u>a Dj.</u>	1 Weday		MAN 7		
Designated Stream T	ype:									-
Site ID:	2_1								****	
		Make All	Observation	s Facing	Down	síream				<u>lester</u>
Location of Outfall: brief description of the lo MARKED ON WAS MADE EXTER	R cation MA WALL	ight Bank IL of the outfall relative AS O2 H oF BRIC	eft Bank Ma re to roads or of TWO OUT K .	rk and labe ther landma	l the lo irks.	cation of the o	utfall o	on the <u>m</u>	ap and provide	a
		ý								
Outfall Type:	<b>₽</b> P	ipe	□ Leak Ot	ff		hannel				
Flow:		one	□ Trickle		DM	loderate	C	] Subs	tantial	
Odor:	ØŊ	one	□ Sewage		□ Rancid / Sour □		] Sulfi	ur (rotten egg	 5)	
<b>Deposits / Stains</b>	ØŊ	one	□ Sediment Delta			ily Stain		Black	K	
<b>Benthic Growth</b>	ØŃ	one	Brown		ΠG	reen	E	] Oran	ge	
Pipe Data: Provide al	ll rele	vant data.								
Pipe Material:		□ Concrete	Corrug	ated Meta	ul [	] Plastic			Other (BRICK	)
<b>Contributing</b> Source	:(s):	□ Road	□ Parking Lot		🛛 Other 🛛 🔽 🕻		1 DV	Jnknov	wn	
Pipe Outlet:		□ Perched	ft. 🛛 Ram		oed 🛛 🖸 🖌		At Stream Level			
Pipe Size:		Diameter:	ft.							
# of Pipes:		<b>V</b> 1		□ 2	□ 3			3 +		
Leak-Off Data: Provi	ide all	relevant data.		Marcenzaa						1999 - E
Leak-Off Swale:		Concrete	□ Asphalt		🗆 St	one		🗆 Ea	arthen	
<b>Contributing Source</b>	(s):	□ Road	□ Parking	Lot	🗆 Re	ecreational H	Field	🗆 Ot	ther	
Length of Swale:	ft.									
Width of Swale:	ft.									
Channel Data: Provid	le all	relevant data.		ta a sa						<b>-</b>
Channel Material:		Concrete	□ Asphalt			tone		🗆 Ea	rthen	
<b>Contributing Source</b>	(s):	□ Road □	Parking Lot		ecreati	onal Field		Other	Unknown	1
Channel Length:	ft.							l		
Channel Width:	ft.									
Notes: Use the space p	provid	ed to record imp	ortant observ	vations ot	herwi	se not captu	res or	n this s	heet.	

Survey Basin Code:			nan an	Date:	ah31	15				
Name of Stream:	WE	ST RIVER		Assesse	d By:	MOREAN	E.J.	ZUNE		
Reach Code:	LIN	Ø			X	- margin		10 - 30		
Designated Stream T	ype:		40 ⁴ 20			******			~~~~~	
Site ID:										
		Make Al	1 Observatio	ns Facing	Dowr	istream				
Location of Outfall: brief description of the lo	cation	tight Bank D I of the outfall relation	Left Bank Mive to roads or	lark and labe other landma	l the lo irks.	ocation of the or	ıtfall o	n the <u>m</u>	ap and provide a	
JUST UPSTREA	JUST UPSTREAM OF VALLEY ST. BRIDGE. 2 PIPES RIGHT NEAR EARCH									
other, also 1	DCAT	TON OF	5) FIGH 1	BARRIER .						
Outfall Type:	D/P	ine	□ Leak (	)ff		hannel				
Flow:	ØN	lone	Trickle	2 2		Aderate		1 Subo	tantial	
Odor:	<b>V</b> N	lone		e		ancid / Sour		<u>1 Sula</u> 1 Sulfi	ir (rotten eggs)	
Deposits / Stains	None		$\Box$ Sedim	Sediment Delta		)ilv Stain		$\square$ Black		
Benthic Growth	<b>D</b> N	one	Brown			ireen		] Oran	κ πe	
Pipe Data: Provide a	ll rele	vant data.			~	<u> </u>		JOIU		
Pipe Material:		Concrete	🗆 Corru	gated Meta	1	□ Plastic		П	Other	
<b>Contributing</b> Source	e(s):	Road	🗆 Parkir	□ Parking Lot		□ Other □ [		Jnknown		
Pipe Outlet:		Perched	ft.	ft. Ram		bed DA		At Stream Level		
Pipe Size:		Diameter:	2 ft.							
# of Pipes:		<b>№</b> 1	- <u>10910-0</u>	02				□ 3 +		
		and the second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second se				1 of 241				
Leak-Off Data: Prov	ide al	l relevant data.		a la suran sa						
Leak-Off Swale:		Concrete	□ Asphal	t		tone			arthen	
<b>Contributing Source</b>	(s):	🗆 Road	D Parking	g Lot	$\Box$ R	ecreational F	'ield		ther	
Length of Swale:	ft.									
Width of Swale:	ft.									
Channel Data: Provid	le all	relevant data.								
Channel Material:		Concrete	Asphal	t		Stone		ΠE	arthen	
<b>Contributing Source</b>	(s):	□ Road □	] Parking L	ot 🗆 R	ecreat	ional Field		Other	Unknown	
Channel Length:	ft.									
Channel Width:	ft.									
Notes: Use the space p	provid	ed to record im	portant obse	rvations of	herw	ise not captur	res on	this s	heet.	

Survey Basin Code				Date	8/72	115				
Name of Stream:	EST	PINDR		Assessed	$\frac{O_1}{1 \text{ By}}$	Nacion	E	10 .10		
Reach Code:	1 121	6		110000000	<u></u>	rener	F \$2007 \$	n ia :	<i>y</i>	
Designated Stream T	vne:	V						*****		
Site ID:	<u></u>									
	es a leger	Make Al	l Observation	s Facing <i>i</i>	Downs	tream				
Location of Outfall:	$\Box R$	ight Bank MI	eft Bank Ma	rk and lahel	the loc	ation of the ou	tfall or	the m	an and provide a	
brief description of the lo	cation	of the outfall relati	ve to roads or of	ther landma	rks.		tian oi.		ap and provide a	
100 FRET TOWNSTREAM OF VALLEY ST REINLE MADUR DE A										
in the humanited of villey SI. BRIDGE, MARKED AS (U) on										
MAP	MAP									
L										
Outfall Type:	<b>⊠</b> P	ipe	Leak O	ff	Cł	nannel				
Flow:	ØŅ	one	□ Trickle		ΠM	oderate		Subs	tantial	
Odor:	МЙ	one	□ Sewage	□ Sewage		□ Rancid / Sour		Sulfi	ır (rotten eggs)	
<b>Deposits / Stains</b>	ØN	one	□ Sedime	🗆 Sediment Delta		□ Oily Stain Ⅰ		□ Black		
Benthic Growth	ØN	one	🛛 Brown		🛛 Gr	reen		Oran	ge	
Pipe Data: Provide al	l rele	vant data.		ana ang						
Pipe Material:		Concrete	Corrug	ated Meta	.1 🛛	] Plastic			Other	
<b>Contributing</b> Source	(s):	☑ Road	□ Parking Lot		□ Other Ⅰ		$\Box U$	] Unknown		
Pipe Outlet:		Perched	. <u> </u>	🛛 🗆 Ramp	bed 🔲 .		ΠA	At Stream Level		
Pipe Size:		Diameter:	<u>ft.</u>							
# of Pipes:		<b>D</b> 1		□ 2			□ 3	+		
Leak-Off Data: Provi	ide all	relevant data.		g bestelen men men som som som som som som som som som som						
Leak-Off Swale:		Concrete	□ Asphalt		□ Sto	one		🗆 Ea	arthen	
<b>Contributing Source</b>	(s):	□ Road	□ Parking	Lot	🗆 Re	creational F	ield		ther	
Length of Swale:	ft.					0 . WEXNELD 10				
Width of Swale:	ft.									
Channel Data: Provid	le all	relevant data.					민만만			
Channel Material:		Concrete	□ Asphalt			tone		🗆 Ea	arthen	
Contributing Source	(s):		Parking Lo	$t \square Re$	ecreation	onal Field	$\Box 0$	ther	🗖 Unknown	
Channel Length:	ft.				ļ					
Channel Width:	ft.									
Notes: Use the space p	orovid	ed to record im	portant obser	vations ot	herwis	se not captu	es on	this s	heet.	

Reach Level Assessment

Survey Basin	Code	a 9			Date(s): 82	3/15	
Name of Strea	am:	WEST RIVI	ER.		Assessed By:	MORGAN R.	EVANS
Reach Code:	LW	16		**********			
Designated St	tream	Туре:					
			Make All Ol	oservations	Facing Downs	stream	
Was the entire	e reach	n of stream	surveyed?	X Yes 🗆	No, Which secti	on(s) were not	surveyed? Why?
Channel Mor	pholo	gy: Mark th	e predominate	condition(s),	and indicate the ave	rage measuremer	its.
□ Step-Pool	Ø	Pool-Riffle	e 🖾 Run	Glid	e ∣*□ Manip	ulated Channe	l (piped, lined, etc.)
Active Channe	el Wid	lth: 15' FE	et		Glide Depth:		anne 20 - Anno ann an Anno ann an Anno ann an Anno ann an Anno ann an Anno ann an Anno ann an Anno ann an Anno
Riffle Depth:	2'F	EET			Step Height:		
Pool Depth:	3' FE	E	*****		Bank Height (F	Right Bank): 3	S' FEET
Run Depth:	2' 70	et.			Bank Height (I	Left Bank):	S' FEET
Substrate Con	mposi	tion: Mark	approximate pe	ercentages for	each substrate type	observed.	
Silt or Clay		፟፟፟፟፟፟፟፟፟፟፟፟፟፟፟፟፟፟፟፟፟፟፟፟፟፟፟፟፟፟፟፟፟፟፟	□ 5-25%	□ 25-50%	% □ 50-75%	□ >75%	
Sand		□ <5%	⊠ 5-25%	□ 25-50%	% □ 50-75%	□ >75%	
Gravel (0.1-2 in	iches)	□ <5%	☑ 5-25%	□ 25-50%	% □ 50-75%	□ >75%	
Cobble (2-10 in	ches)	□ <5%	□ 5-25%	□ 25-50%	% □ 50-75%	⊠.>75%	
Boulder (>10 in	iches)	□ <5%	⊠ 5-25%	□ 25-50%	6 □ 50-75%	□ >75%	
Bedrock		⊠ <5%	□ 5-25%	25-50%	<u>∕</u> ₀   □ 50-75%	□ >75%	
Describe Wate	er Co	nditions: N	/lark all that ap	ply.		drea	of Concern Worksheets
🕅 Clear 🛛 🛛	🗆 Stai	ined ("iced	tea")	* 🕱 Tur	bid (muddy / silty)	l In	dicate # and type of sheets
*□ Green   *	*□ Rı	isty-Red		*🗆 Mil	ky	<u>s</u> tratol	eted for this reach assessment
*□ Odors   *	*□ Ot	her (foam, d	ves, chemicals)		na mana ang kang kang kang kang kang kang ka		Erosion
	. ~						Fish Barrier 2
Aquatic Plants	s in St	tream:		~		Storn	i Water Outfall 1-
Floating: (e.g. di	uck we	ed) 🛛 🖾 A	bsent L li	n Spots	* U Everywhere	Mo	difiedChannel 2
Attached: (e.g. v	water li	ly)   L A	bsent   🕅 Ii	n Spots   ^s	*  Everywhere		npacted Buffer
Algae in Strea	m:					] Nija	Trash / Debris uer Conditions
Floating: (e.g. pl	lankton	ic) 🛛 A	osent 🛛 🛛 Ii	n Spots 📑	[∗] □ Everywhere		eneral construction de la substant
Attached: (e.g. f	filament	tous) 🛛 🗆 Al	osent   🖾 Iı	n Spots 🛛 '	*□ Everywhere		HAINNAAANSE KATERAKAN KATERAKAN KATERAKAN KATERAKAN KATERAKAN KATERAKAN KATERAKAN KATERAKAN KATERAKAN KATERAKAN
Canopy Cover	: Mar	k approximate	e percentage of	stream cover	ed by tree canopy.		
$\exists >75\%$ covered	ed 2	₹75-50% c	overed	50%-25%	covered $\square < 2$	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).

### Reach Level Assessment

<b>Riparian Vegetat</b>	tion: Characte	rize the average de	ensity of vegetation	in the first 35 feet a	adjacent to the stre	am for both banks.
	Left Bank	Right Bank	Left Bank	Right Bank	Left Bank	Right Bank
Turf Grass	🛛 Low	Low	□ Moderate	☐ Moderate	🗆 High	☐ High
Grass	Low	<b>L</b> ow	□ Moderate	☐ Moderate	☐ High	☐ High
Shrubs	Low	□ Low	Moderate	Moderate	☐ High	
Deciduous Trees	D Low	D Low	□ Moderate	□ Moderate	<b>X</b> High	I High
Coniferous Trees	🛛 Low	🛛 Low	☐ Moderate	□ Moderate	☐ High	□ High

Surrounding Lan	d Use: Mark the d	lominate land use(s) for	each "zone", if kno	wn or observed.	******	
Immediately adjac	ent to stream	< ¼ Mile from stre	am	$> \frac{1}{4}$ Mile from stream		
□ Rural Residential	☐ Agricultural	🗆 Rural Residential	☐ Agricultural	Rural Residential		
🗆 Suburban	🗖 Forested	🖾 Suburban	□ Forested	🗖 Suburban	□ Forested	
Residential		Residential		Residential		
Urban Residential	□ Recreational	🕱 Urban Residential	🗖 Recreational	Urban Residential	□ Recreational	
Industrial	□ Other	🛛 Industrial	□ Other	□ Industrial	□ Other	
	6	🗖 Commercial		Commercial		

Areas of Concern Checklist: Marking "Yes" to any of the following questions indicates that an Area of	Concern W	orksheet
should be filled out for the appropriate concern. For each occurrence observed, complete and area of concern sh	neet.	
Is there evidence of either stream bank erosion or streambed instability within the reach?	□ Yes	🗆 No
Are there any dams or any other possible natural or artificial barriers to fish migration?	X Yes	🗆 No
Are there any storm water outfalls, discharge pipes or discharges within the reach? Indicate	X Yes	🗆 No
the number observed:		
Is there any portion of the channel that has been modified (not culvert) (channeled, piped, rip	Yes Yes	🗆 No
rap)?		
Is there any portion of the reach where the riparian buffer has been compromised or is	□ Yes	□ No
nonexistent?		
Is there any portion of the reach that contains trash or other debris (cars, appliances, construction	□ Yes	$\Box$ No
waste)?	× •s	- 110
Is there any portion of the reach that has a change in water conditions?	□ Yes	□ No
	Contraction of the second second second second second second second second second second second second second s	

**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)

		Suca	1111 A35C551	ment Sh	cei	Rea	ach Level Assessment
Survey Basin Code			r	)ata(s):	(Hal	17415	Start- 1 uni/1:15pm 2:25
Survey Basin Code:				Jale(S):		2011	(proj
Ranch Code:	argent DI	<u></u>	P	Assessed D	y MB	KIAN	Itsua Uria-
Designated Stream	Type:	REHIG		+			
Designated Stream	rype.			. D.	4		
		Make All Obs	ervations Fa	icing DOV	vnstre	eam	
Was the entire react	h of stream s	surveyed? 다	Yes LING	o, Which S	section(s	s) were not	surveyed? Why?
Channel Morphol	D <b>gy:</b> <u>Mark th</u>	e predominate co	ondition(s), and	indicate the	e average	e measuremented Channe	its.
Active Channel Wi	dth	$\mathcal{N}$ (where)	E la chiac	Jide Denti	h V		(piped, mied, etc.)
Riffle Depth:	ريس ( ريس _	0 (510	0 Lavn	Sten Heigh	at u	-6"	
Riffe Depth:	<u> </u>		C	Sonk Heigh	ht (Digk	at Bank).	128
Pup Depth:	N/2-2			Dank Heigi	ht (Kigi	Dank).	12
Kull Deptil:	n A		1	bank neigi	III (Leit	Dank):	12
Substrate Compos	ition: Mark	approximate per	centages for ea	ich substrate	type obs	served.	LEL STRAPL
Silt or Clay	1 <5%	5-25%	□ 25-50%	50-75	5%	□ >75%	pitte in the
Sand	□<5%	□ 5-25%	25-50%	50-75	5%	□ >75%	8-12" Vark Lige.
Gravel (0.1-2 inches)	□<5%	25-25%	128 30%	50-75	5%	□ >75%	gravel + san
Cobble (2-10 inches)	□ <5%	□ 5-25%	25-50%	□ 50-75	5% [	□ >75%	loal Riffin will
Boulder (>10 inches)	□ <5%	A 5-25%	25-50%		5%	>75%	nonerd yk. del
Bedrock	0<5%	5-25%	25-50%	50-75	5%	□ >75%	- cobblet
		1		1			3
Describe Water C	onditions:	Mark all that app	ly.			Area	of Concern Worksheets
Clear D St	ained ("iced	tea")	* 🗆 Turbi	id (muddy/s	silty)	It	idicate # and type of sheets
<u>´*□ Green   *□ F</u>	Rusty-Red		<u>*</u> Milk	у		comp	leted for this reach assessment
* Odors * 0	Other (foam, c	lyes, chemicals)					Brosion
	<b>D</b> 4						Fish Barrier
Electing: (	Stream:		C *1	T Francisco I	1	Stor	n Water Outfall
Floating: (e.g. duck v		Absent L In	Spots *I		here	M	odified Channel
Attached: (e.g. water			Spots   *I		nere	-	mpacted Buffer
Algae in Stream:			· · · · · · · · · · · · · · · · · · ·				Trash / Debris
Floating: (e.g. plankt	onic) 🗹 A	bsent 🛛 In	Spots *[	Everywl	here	W	ater Conditions
Attached: (e.g. filam	entous)	bsent [] In	Spots *[	□ Evervwl	here	1	
		<u> </u>	-P				
Canopy Cover: M	ark approxima	te percentage of	stream covered	d by tree can	юру.		
$\square >75\%$ covered	口 75 (50%)	covered   🗆	50%-25% co	overed   [	$\Box < 259$	% covered	
Note: Itams m	orked with a	n actoricle (*)	indicate a re	tantial are	n of ac	Diero Die	nce record all relevant
TAOLE. ILCHIS III	inform	a ascellar $(*)$	nuicaic a po	rea of Con	a of Col	orksheet(s	
Bank king	intorna it		7 35' fnd	m chur	nnel		alge brand in stream of clinin fock,? Dam?
- 1 1/1A		Skunk C	aly hade	Sa sem	1180	cfain	Luff Developed By: CT-NRCS
while r ven	1.			1	~ /		January 2008

### Reach Level Assessment

<b>Riparian Vegetat</b>	ion: Characte	rize the average de	ensity of vegetation i	n the first 35 feet a	djacent to the stre	am for both banks.
	Left Bank	Right Bank	Left Bank	Right Bank	Left Bank	Right Bank
Turf Grass	Low	Low	Moderate	□ Moderate	🗖 High	🗆 High
Grass	Di Low	Low	☐ Moderate	☐ Moderate	🗆 High	🗆 High
Shrubs	Low	Low	Moderate	□ Moderate	High	High
Deciduous Trees	Low Low	Low	Moderate	D Moderate	🗆 High	🗆 High
<b>Coniferous Trees</b>	Low	Low	☐ Moderate	□ Moderate	🖵 High	🗆 High
		A DECEMBER OF THE OWNER OWNER OF THE OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNE	and states		- 1	1

Surrounding Lan	d Use: Mark the	dominate land use(s) for	each "zone", if kno	wn or observed.		
Immediately adjacent to stream		< ¼ Mile from stre	am	> ¼ Mile from stream		
C Rural Residential	Agricultural	Rural Residential	Agricultural	Rural Residential	Agricultural	
Suburban	Forested	🗖 Suburban	Forested	Suburban	Forested	
Residential		Residential		Residential		
Urban Residential	Recreational	Urban Residential	Recreational	Urban Residential	Recreational	
Industrial	🖾 Other	🔲 Industrial	Other	Industrial	□ Other	
Commercial	Alandinel	Commercial	1	Commercial		
	H BALLA MARA	<b>N</b>	-			

Areas of Concern Checklist: Marking "Yes" to any of the following questions indicates that an Area of	Concern W	orksheet
should be filled out for the appropriate concern. For each occurrence observed, complete and area of concern sh	leet.	
Is there evidence of either stream bank erosion or streambed instability within the reach?	□ Yes	No
Are there any dams or any other possible natural or artificial barriers to fish migration?	12 Yes	□ No
Are there any storm water outfalls, discharge pipes or discharges within the reach? Indicate	□ Yes	No
the number observed:		(
Is there any portion of the channel that has been modified (not culvert) (channeled, piped, rip	□ Yes	I No
rap)?	-	
Is there any portion of the reach where the riparian buffer has been compromised or is	□ Yes	No
nonexistent?		
Is there any portion of the reach that contains trash or other debris (cars, appliances, construction	Yes	□ No
waste)?		
Is there any portion of the reach that has a change in water conditions?	□ Yes	No No

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

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Developed By: CT-NRCS January 2008

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Fish Barrier

Survey Basin Code:			Date: 7	17/2015			
Name of Stream: Shini	int for		Assessed B	Y KO A	R, B		
Reach Code: Rubin	14			6 1	c.		
Designated Stream Type	•						
Site ID:							
	Make All	Observation	s Facing Do	wnstream			
the barrier relative to roads or Marker Marker	e other landmarks. R Justa 5 mail Crach Mal	on of the barr $p$ $S \ L r = c_0$	ier on the <u>map</u>	and provide a brie	f descrip	tion of the location $-Prns$	on of
Type of Barrier: Mark th	e type of fish barrier.						
🖾 Dam	Culvert		□ Velocity	Barrier	🛛 🗆 Oti	her	
	CIN	of Renov	l i				
Dam Data: Provide all rel	evant data.				-		
Height of Dam: 4 ft.	Length of Spillwa	<b>ay:</b> 4 ft.	Shape of Sp	illway: 🗵 Stra	light	Crescent	
Materials: Stone	Concret	e 🛛 🖾 Sto	one & Concr	ete 🛛 🗆 Timb	per-Crib	D Other	
Is there other infrastru	cture associated w	ith the Da	m? 🖾 No	□ Yes (If yes m	ark the ty	/pe below) (an	weber
□ Factory □	Hydro Facility	🗆 Mill		M Residence		Other	
Culvert Data: Drouida all	relevant data			Former	_	VASUR	
Fune of Culvert.	D Boy	N Ping	100	Dina An-1		D An-h	-
Culvert Material			rated Metal	D Plastia	l		
Culvert Outlet.	Perched	G fr	Banned			bmerged	
Culvert Size:	Diameter:	)_4/" fr	Height:	fr	Wide	omergeu	fr
# of Culverts	Culvert Lengt	<u>10</u>	rieigiit.		1 WIUU	1.	п.
Velocity Barrier Data: Nature of Barrier:   []	Provide all relevant da Grade Control Si		crete Apron		Cross-Se	ection 🛛 🗆 C	Other
Length of Darrier:		Dx. veruca	i Kise:	II.			
Notes: Use the space pro	vided to record im	nortant obse	arvations othe	anwise not cant	ured on	this sheet	-
i i i i i i i i i i i i i i i i i i i	The to record init	portune 00st	a varions offic	er wise not capt		uns succt.	
Dictr.	2.						
	1.5.		6	-11			
ANA 1	a Von Aa	·n	Sand.	- 5114 0,	1 12 11.	210	
1	/				/		
mater	nal.						
	9-10'	chann	61 50	1 uppt	TAN		

Trash / Debris

Survey Basin Code			Data: 7	7/7/7			
Name of Stream: Squaret Blog K			Date: 4/ 4/2015				
Reach Code: 2-6 Ke. du			Assessed	Dy. rev. T.s. ha	LIRA NMR7		
Designated Stream T	VDe'						
Site ID: # 1							
	Mala All OI						
Location / Extant of	Trach or Data	oservations.	Facing DO	wnstream			
description of the location	I rash or Debris: Mar	k and label the	e location of t	he trash or debris on the m	ap and provide a brief		
Marked w/	pubto + goog	ybo maj	Schern .	Sha t-			
-Within Stream	🛛 🗆 Riparian Are	a: 🗆 Left	Bank 🛛 I	Right Bank			
Туре:	□ Residential		ercial	□ Industrial			
Material:	Plastic	<b>∮</b> X∕Tires		□ Appliances	D Other		
		□ Metal		Automotive	Dld Inter		
	☐ Yard Waste		iction	Medical	100 Snd ge		
Source:		☐ Floodin	g	☐ Illegal Dumping	Local Outfall		
Land Ownership:				Unknown			
Notors Lies the second							
Notes: Use the space	provided to record imp	portant obse	rvations ot	herwise not captures or	n this sheet.		
Remna. Manna	it of old is	Bridge section	Forud , dan	inging alo	155		
		K.		8 9			
					-		
)							

# Completed Stream Assessment Forms Wintergreen Brook



August 3, 2015

(Page 2)



**CT-NRCS** 

4			St	ream A	Assess	ment Sheet			191
								Rea	ach Level Assessment
Survey Basir	n Code:				E	Date(s): 9	5/3/1	5	
Name of Stre	am:	Noteci	areen	Brank		ssessed By:	121		
Reach Code:	11	BII	1.001			C.G.	Most	Rivi	16 Stewards
Designated S	tream 7	Гуре: 🖡	resh Wa	ter					
			Make All C	Observat	ions Fa	cing Downs	tream		(
Was the entir	re reach	of stream	surveyed?	V Yes		, Which section	on(s) we	re not	surveyed? Why?
<u></u>									
Channel Mo	rpholo	gy: Mark th	e predominat	e conditio	on(s), and	indicate the aver	age meas	uremer	nts
□ Step-Pool		Pool-Riffl	e 🛛 🗖 Ru	n 🛛	Glide	* Manip	ulated C	hanne	l (piped, lined, etc.)
Active Chan	nel Wid	ith:	20++			ilide Depth:			
Riffle Depth:	6	inches	<u> </u>			tep Height:	1.1.0		
Pool Depth:		18 11	iches_		<u> </u>	ank Height (R	ught Bai	<u>1k):</u>	24 inches
Run Depth:						ank Height (L	eft Bank	:):	24 inches
Substrate C	omposi	tion: Mark	approximate	percentag	es for ea	ch substrate type	observed.		]
Silt or Clay		□ <5%	5-25%	□ 2:	5-50%	<b>2</b> 50-75%	□ >7:	5%	
Sand	- X	□<5%	□,5-25%	2	5-50%	□ 50-75%	□>7:	5%	
Gravel (0.1-2	inches)	□ ≤5%	☑ 5-25%		5-50%	□ 50-75%	□ >7:	5%	
Cobble (2-10	inches)	¥ <5%	□ 5-25%		5-50%	<b>50-75%</b>	□>7:	5%	
Boulder (>10	inches)	☑ <5%	5-25%		5-50%	<u>□</u> 50-75%	□ >7:	5%	
Bedrock		□ <5%	□ 5-25%		5-50%	□ 50-75%	□ >7:	5%	]
Describe Wa	ater Co	nditions:	Mark all that	apply.			1 🔲	Area	of Concern Worksheets
D Clear	🗆 Sta	ined ("iced	tea")	*	<b>]</b> Turbi	d (muddy / silty)		In	dicate # and type of sheets
* Green		usty-Red			] Milky	,		comp	leted for this reach assessment
*□ Odors	*□ 0	ther (foam, o	lyes, chemica	ls)					Erosion
Aquatic Pla	nts in S	fream:		7			7 H	Store	Fish Barrier
Floating: (e.g	. duck we	eed)	bsent Z	In Spot	ts <b>*</b> E	] Everywhere		M	dified Channel
Attached: (e.	z. water l	ily) $\Box A$	bsent <b></b>	In Spot	ts *E	] Everywhere		I	mnacted Buffer
	,			<b>F</b>					Trash / Debris
Algae in Str	eam:						-	W	ater Conditions
Floating: (e.g	. plankto		Absent L	In Spot	IS T	L Everywhere	-		
Attached: (e.	g. filamet	ntous)   🖵 A	Absent L	In Spot	is T	J Everywhere			
Canopy Cov	er: Ma	rk approxima	ite percentage	of stream	1 covered	by tree canopy.			]
□ >75% cov	ered	75-50%	covered	□ 50%-	25% co	vered C <	25% cov	ered	
Note: Items marked with an asterisk (*) indicate a potential area of concern. Please record all relevant									
		nnorm		approp	I Iale Al	ca of Concern	W UIKSI	icci(S)	

Pa1

Pg Z 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	Low	Low	☐ Moderate	☐ Moderate	🛛 High	□ High	
Grass	Low Low	M Low	D Moderate	□ Moderate	🗆 High	🗖 High	
Shrubs	Low	Low	Moderate	Moderate	□ High	🛛 High	
Deciduous Trees	Low	Low	Moderate	□ Moderate	🖬 High	II High	
Coniferous Trees	Low	Low [	☐ Moderate	Moderate	🗖 High	🗆 High	

Surrounding Land Use: Mark the dominate land use(s) for each "zone", if known or observed.							
Immediately adjacent to stream		< 1/2 Mile from stre	am	> 1/4 Mile from stream			
Rural Residential	□_Agricultural	Rural Residential	C Agricultural	C Rural Residential	□ Agricultural		
Suburban Residential	Forested	□ Suburban Residential	Forested	Suburban Residential	G Forested		
Urban Residential	C Recreational	VI Urban Residential	C Recreational	Urban Residential	Recreational		
Industrial	C Other	Industrial	Other	Industrial	C Other		
Commercial		Commercial		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 sh	eet.					
Is there evidence of either stream bank erosion or streambed instability within the reach?	□ Yes	No No				
Are there any dams or any other possible natural or artificial barriers to fish migration?	□ Yes	🗹 No				
Are there any storm water outfalls, discharge pipes or discharges within the reach? Indicate	<b>V</b> Yes	🗆 No				
the number observed: 6						
Is there any portion of the channel that has been modified (not culvert) (channeled, piped, rip	<b>Z</b> Yes	🗆 No				
гар)?	1					
Is there any portion of the reach where the riparian buffer has been compromised or is	Z Yes	🗆 No				
nonexistent?	,					
Is there any portion of the reach that contains trash or other debris (cars, appliances, construction	<b>V</b> Yes	□ No				
waste)?		1				
Is there any portion of the reach that has a change in water conditions?	□ Yes	🗹 No				

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

**Modified Channel** 

Survey Basin Code:	Date: 4/3/15
Name of Stream: Wintergreen Brook	Assessed By:
Reach Code: WB J 4	CG West River Stewards
Designated Stream Type: Fresh	
Site ID:	
Make All Observation	ns Facing Downstream
Location / Extent of Modified Channel: Mark and lab	bel the location of the modified channel on the map and provide a
brief description of the location of the channel section relative to	o roads or other landmarks.
1. Bank behind 61 springside	Hue (nant Danie)
2 Both Banks - section from	n Blake St Bridge to West River (Entire
Mark where channel modification occurs:	
Meander Bend Straight Section	□ Steep Slope/Valley Wall □ Other
Estimate length of channel modification: ft.	GAA Lang LL
Estimate height of bank modification: ft	100 71000 FI
Type of Manipulation: PC Channelization	Bank Armoring Concrete Channel Other
Extent of Manipulation: MRight Bank	Left Bank Channel Bottom
<b>Channel / Bank Materials:</b>	p Rap Concrete Gabions Metal
Immediately Adjacent Land Use: Mark the land use(s	) immediately adjacent to the modified section.
Rural Residential Urban Residential	Commercial D Forested
LI Suburban Residential   LI Industrial	LI Agricultural
Existing Width of Rinarian Vegetation: Mark the ave	erage width of riparian vegetation to the modified section #
<b>☑</b> < 15 ft. <b>□</b> 15 - 35 ft. <b>□</b> 35 - 35 ft.	50 ft. $\Box$ 50 - 100 ft $\Box$ > 100 ft
Is there a change in the average width of the active ch	nannel? LI Yes / Estimate Width: ft L No
Is there evidence of sediment deposition in the channel	
Is the channel connected to a floodplain?	
Notes: Use the space provided to record important ob	provide the second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second s
	it light at a
- Left Dank has steel	wall and transitions into
stoned riled ban	k
Nonear price 20	
	te la la la la la la la la la la la la la
- Right bank is Con	ciert

Storm Water Outfall

Survey Pasin Code:		0.018		Data	9/2	1 e			
Nome of Streem:		Redena B	cank -	Date.					
Reach Code:		igreen Or	00 F	Assessed	$\frac{Dy}{D}$		CL	u.c.d.c	
Reach Code. W		Carl into			CG K	iver.	sten	Jalas	
Designated Stream D	ype:	+(eshuale	<u>×</u>						
Site ID:	(	N / 1 - A 11 /							
		Make Au	Jbservation	s Facing I	Jownstrei	<u>im</u>			
brief description of the loc	KI MB	ignt Bank 🖬 Le	n Bank Ma	rk and label	the location	n of the ou	tfall on	the map and provi	dea
	Cation				.h.a.				
		•		00					
Outfall Type:		ipe	L Leak O	ff		nel			
Flow:	<b>U</b> N	one				rate		Substantial	
Odor:	<u>N</u>	one				d / Sour		Sulfur (rotten e	ggs)
Deposits / Stains	N N	one		nt Delta	Oily :	Stain		Black	
Benthic Growth	<b>N</b>	one	Brown		Greer	1		Orange	
Pipe Data: Provide a	ll rele	vant data.			-1-113	2		_	
Pipe Material:		Concrete		ated Meta	l D P	lastic		Other	
<b>Contributing Source</b>	<b>Contributing Source(s):</b> Road		M Parking Lot			ther	ΠU	nknown	
Pipe Outlet:		<u>ft.</u>	🛛 🗆 Ramı	ped			t Stream Level		
Pipe Size:		Diameter: /8/M	405 24 11		nches		12	inches	
# of Pipes:							<u>; +</u>		
Leak-Off Data: Prov	vide al	l relevant data.							an sin
Leak-Off Swale:			□ Asphalt	t 🛛 Stone		;		<b>E</b> Earthen	
Contributing Source	e (s):		Parking	Lot		ational F	rield	<b>1</b> Other	
Length of Swale:	ft.				<u>.</u>		-		
Width of Swale:	ft.								
Channel Data: Provi	ide all	relevant data.					_		
Channel Material:			☐ Asphalt	: 	🗆 Ston	e		Earthen Earthen	
Contributing Source	e (s):	□ Road □	Parking Lo	ot $ \Box R$	ecreation	al Field		ther   🗆 Unkno	own
Channel Length:	ft.				_				
Channel Width:	ft.								
Notes: Use the space	nrovi	ded to record im-	ortant obso	nuations o	therwise	not contr	ras or	this sheet	-
Notes. Ose the space	provi		Jonani UUSe	i valions u	ulei wise i		ites of		
- M/d larg	e	(encrete	Storn	~ Rip	1C -	secti	an	Brokenon	
	n	READIC (	right B	ank)	,			1	RI
	( X	C Ria	ht Ba.	at d	mins	und	er	road - m	n ott
T Horm dra	sn '	trom in	RACK						
	Ęr	om West				<b>.</b>			
- Sourcal	<u>c</u> ]	in Drain	s from	m 5c	Su F	boke	na l	1 # 9	
				· · · · · · · · · · · · · · · · · · ·			<u>,                                    </u>		

Developed By: CT-NRCS January 2008

Degraded Buffer

									1-1				
Survey Basin C	Code:	-				$ \rightarrow $	Date:	ž	5/3/	15			
Name of Strear	$n: W_{in}$	111	green Br	DOK			Assessed	l By:	<i>t</i> t				٨
Reach Code:	WB	F _1		generation of	2000 D.C. 3940			(	Gh	lest	KIVER	J.	wards
Designated Stre	eam Type	5	Fresh										
Site ID:													
			Make A	ll Obs	servatio	ns F	acing Do	owr	istrea	m			
Location / Ext	ent of De	gra	ded Buffer	::1) N	lark and	labe	I the locatio	on of	the degra	ided bu	offer on the n	1ар. З	2) Briefly
describe the locati	on of the si	te re	lative to road	s or oth	er landm	arks			-				
Mark where t	he degra	ded	buffer occ	urs.			/						
Meander Be	nd		□ Straight	Sectio	on		Steep Slo	pe/	Valley V	Wall	🛛 🗖 Otl	ner	
🖬 Left Bank						Es	timate ler	ngth	of degr	aded	buffer: 🤈	001	ìt.
🗆 Right Bank						Es	timate ler	ngth	of degr	aded	buffer:	ł	t.
Q													
Type of Degra	dation:					_	/						
Left Bank:			🛛 Minima	al Veg	getation	E	🛛 Minima	<u>al W</u>	idth		wasive Pla	nts	Other Other
<b>Right Bank:</b>			🗆 Minima	al Veg	getation	] [	🗆 Minima	al W	idth	🗖 Īr	vasive Pla	nts	□ Other
			0 1	[mp _ 0		(m)			1 ( 01		m		
Dominate	Paved	Bar	e Ground	Turf	7	Ta	II Grass		ub / Sh	rub	Trees		Other
Land Cover				Law	n	<u> </u>		<u> </u>					
Left Bank											<u> </u>		<u> </u>
Right Bank													
Immediately A	discent	L.or	ad Lise: Ma	rk the	land use(	(a) in	mediately	adiao	ent to the	e modi	fied section		
Laft Bank	T Rura	Re	sidential			s) III san	Residenti	aujac		nmer	rial		Forested
Der Dunk		rhar	n Residentia	1		netr	ial			ricult	iral		Recreational
Pight Bank.	T Rura	Re	sidential			han	Residenti	al		nmen	rial	F	Forested
Aigut Dank.		rbar	Recidentic	1		netr	ial			ricult	iral	븝	Recreational
		IUai	I ICOlucitic	*1		usu	141	I		icuitt	11 (21		Recreational
<b>Existing Widt</b>	h of Rips	iria	n Vegetatio	on: Ma	ark the av	verag	e width of	ripari	an veget	ation t	o the modifie	d sect	tion.
Left Bank:	<b>Z</b> <	15 fi	t. E	115-	· 35 ft.	T	□ 35 - 5	50 ft.		1 50 -	- 100 ft		> 100 ft
<b>Right Bank:</b>	🗆 <	15 fi	t. C	] 15 –	35 ft.		□ 35 - 5	50 ft.		<b>1</b> 50 –	- 100 ft		> 100 ft
Notes: Use the	space pr	ovid	led to record	<u>d imp</u>	ortant o	bse	rvations o	other	wise no	ot cap	tures on thi	is she	eet.
P	1	_	stood	2									
- Da	nr I	7	109		11						1	~	
0	11	_	cs 5	ma	.(				,	1	1 crsi	11	)
- 130	atte.		11/1				D.L.	-	·2 4	y	Cocor	1	
	i d.		nt +	0	largs	2	pare				1		
-	- aaj	90	1					U					

Developed By: CT-NRCS January 2008

Trash / Debris

1

			1 1	
Survey Basin Code:		, Date:	8/3/15	
Name of Stream: 1	Intergreen R	Assessed	By:	
Reach Code: WP	51		CG River Stew	ards
Designated Stream Ty	ype: Fresh was	ter		
Site ID:				
	Make All O	bservations Facing $Dc$	wnstream	
Location / Extent of	Trash or Debris: Ma	rk and label the location of the	the trash or debris on the m	ap and provide a brief
description of the location	relative to roads or other	landmarks.		<u> </u>
D- Behind	B'Nai Cemeta	ry - several	SPOTS (3)	Trashin
§ - Behind	SCSU Parkir	y lot (Lot #	ŧq)	water
V Within Stream	🗹 Riparian Ar	ea: 🗹 Left Bank 🗖	Right Bank	· · · · ·
	1			
Туре:	Residential	Commercial	Industrial	
Material:	Plastic	☐ Tires	Appliances	🗖 Other
	Paper Paper	🖸 Metal	☐ Automotive	
	Yard Waste	Construction	Medical	
Source:	<b>Unknown</b>	Flooding	□ Illegal Dumping	Local Outfall
Land Ownership:	Private		Unknown	
Notes: Use the space	provided to record im	portant observations of	herwise not captures o	n this sheet.
- Lots of	frash in	Water for	entire ri	each

WB 2 Map / Notes 7/27/15 Natural waterfall 30-40 ft Garboged Will Ave Shirley Way st Rock Nature Center 2 Par Concrete foot Wintergreen-Brook Bridge Erosion of 4 Bridge Bank Winslow Field 50-75 ft right 2 concrete pipes 00 long Tierney Rd Wintergreen Ave CISC feet long \$ 95 6ft dia Both 120 Level St Inches wide Westville Manor 🕮 Katherine -**Brennan School** Lotof Wintergreen Ave trash in Brock Brooks Brookside Ave New Haven Job Bridge **Corps** Center 2 square Enverts 58) intergreen Hoft Bridge 3 square Culverts each 74 high × 84" width newoides Trail 90 ft Long

Reach Level Assessment Survey Basin Code: Date(s): Wintergreen Brook Name of Stream: Assessed By: rG west River Stewards Reach Code: hB2 Freshwater **Designated Stream Type:** Make All Observations Facing Downstream Was the entire reach of stream surveyed? Ves ON, Which section(s) were not surveyed? Why? Channel Morphology: Mark the predominate condition(s), and indicate the average measurements. Pool-Riffle * Manipulated Channel (piped, lined, etc.) □ Step-Pool □ Glide Active Channel Width: Jei Glide Depth: Riffle Depth: 3 inches Step Height: Bank Height (Right Bank): Pool Depth: inches 8 115 inches Run Depth: Bank Height (Left Bank): inches Substrate Composition: Mark approximate percentages for each substrate type observed. □ <5% 25-50% □ 50-75% □ >75% Silt or Clay □ 5-25% 25-50% 2 50-75% □ <5% □ 5-25% □ >75% Sand Gravel (0.1-2 inches) □ <5% □ 5-25% ₩ 25-50% □ 50-75% □ >75% □ <5% 2 5-25% □ 25-50% □ 50-75% □ >75% Cobble (2-10 inches) Boulder (>10 inches) 2<5% □ 5-25% □ 25-50% □ 50-75% □ >75% □ >75% Bedrock □ <5% **□** 5-25% □ 25-50% □ 50-75% Describe Water Conditions: Mark all that apply. Area of Concern Worksheets Clear □ Stained ("iced tea") * Turbid (muddy / silty) Indicate # and type of sheets completed for this reach assessment * Green *□ Rustv-Red * Milky *□ Odors * Other (foam, dyes, chemicals) Erosion Fish Barrier **Aquatic Plants in Stream:** Storm Water Outfall Floating: (e.g. duck weed) Market Absent □ In Spots * Everywhere Modified Channel □ Absent In Spots Attached: (e.g. water lily) * Everywhere Impacted Buffer Trash / Debris Algae in Stream: Water Conditions **A**bsent □ In Spots ***D** Everywhere Floating: (e.g. planktonic) M Absent □ In Spots ***** Everywhere Attached: (e.g. filamentous) Canopy Cover: Mark approximate percentage of stream covered by tree canopy.  $\square >75\%$  covered  $\square 75-50\%$  covered  $\square 50\%-25\%$  covered  $\square <25\%$  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).

Developed By: CT-NRCS

January 2008

#### 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	Low	□ Low	D.Moderate	□ Moderate	High	🗆 High			
Grass	Low	□ Low	Moderate	Moderate	🗖 High	🗆 High			
Shrubs	Low	□ Low	Moderate	Moderate	🗖 High	🗆 High			
Deciduous Trees	Low	Low	Moderate	Moderate	🗖 High	🗆 High			
Coniferous Trees	Low	□ Low	☐ Moderate	☐ Moderate	🗖 High	🗆 High			

Surrounding Land Use: Mark the dominate land use(s) for each "zone", if known or observed.							
Immediately adjace	ent to stream	< 1/4 Mile from stream	am	> ¼ Mile from stream			
Rural Residential	Agricultural	Rural Residential	Agricultural	Rural Residential	□ Agricultural		
Suburban	Forested	🗖 Suburban	Forested	🗆 Suburban	□ Forested		
Residential		Residential	12	Residential			
Urban Residential	C Recreational	Urban Residential	Recreational	Urban Residential	C Recreational		
Industrial	□ Other	Industrial	Other	Industrial	🛛 Other		
Commercial		Commercial		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?	VYes	🗆 No				
Are there any dams or any other possible natural or artificial barriers to fish migration?	□ Yes	🗆 No				
Are there any storm water outfalls, discharge pipes or discharges within the reach? Indicate	□ Yes	🗆 No				
the number observed:						
Is there any portion of the channel that has been modified (not culvert) (channeled, piped, rip	□ Yes	🗆 No				
rap)?						
Is there any portion of the reach where the riparian buffer has been compromised or is	□ Yes	🗆 No				
nonexistent?	1					
Is there any portion of the reach that contains trash or other debris (cars, appliances, construction	VYes	🗆 No				
waste)?						
Is there any portion of the reach that has a change in water conditions?	□ Yes	🗆 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 19 30 feet high 13 being eroded. Trash was found in a large pile near niephborhood boordering West Rock Nature Center.
 Large amounts of trash were in Brook in section between Winslow Field and Brookside Ave

Developed By: CT-NRCS January 2008

Erosion Assess	nent
Survey Basin Code:	
Name of Stream: Jaluart (Carriero Date: 127/15	
Reach Code: 14/B 7	
Designated Stream Type: Could the CG West River Steward	5
Site ID:	
Make All Observations Facing Downstream	-
Location of Bank Erosion: 1) Mark and label the location of the erosion on the man. 2) Briefly describe the location of	
site relative to roads or other landmarks.	the
See WB2 google Map and Notes	
Mark where erosion is occurring:	
Meander Bend Straight Section Steep Slope/Valley Wall Other	
Site Dimensions: Indicate all applicable measurements associated with the erosion site	
Length: Left Bank: ft. Right Bank: 50-75 ft.	
<b>Bank Height:</b> Left Bank: $ft$ . Right Bank: $30 - 40$ ft.	
Bank Angle: Left Bank: deg. Right Bank: 70-80 deg.	
What is the proximity of the erosion site to infrastructure (	-22
$\Box < 15 \text{ ft}$ $\Box 15 - 30 \text{ ft}$ $\Box 30 - 45 \text{ ft}$ $\Box 45 - 60 \text{ ft}$ $\Box 20 - 100 \text{ ft}$	
- 1000000000000000000000000000000000000	
Immediately Adjacent Land Use: Mark the land use(s) immediately adjacent to the erosion site	
□ Rural Residential □ Urban Residential □ Commercial □ Forested	
Suburban Residential Industrial Agricultural Recreational	
Land Ownership: Mark land ownership at the location of the erosion site.	
D Public D Private D Unknown	
Existing Width of Ringrign Vegetation: Mark the average fills of the second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second sec	
$\square \le 15 \ \Pi$ $\square 15 - 35 \ \Pi$ $\square 25 - 50 \ \Theta$ $\square 150 - 100 \ \Theta$	
$\underline{-100 \text{ ft}} = 100 \text{ ft}$	
Notes: Use the space provided to record important observations otherwise not captured on this sheet	
The entire Wall of Brook is being eraded (30-	YOH
high.	

Trash / Debris

			1 1					
Survey Basin Code:		Date:	7/27/15					
Name of Stream:	Juntergreen Br	OOC Assessed	By:					
Reach Code: W	Reach Code: WB2 GG West RIVEr Stewards							
Designated Stream T	ype: Freshwa	tir						
Site ID:	Site ID:							
	Make All Ot	oservations Facing $Do$	wnstream					
Location / Extent of Trash or Debris: Mark and label the location of the trash or debris on the <u>map</u> and provide a brief description of the location relative to roads or other landmarks.								
See	, WOZ 90	ogle Map a	and Notes					
	/			:				
Within Stream	D Diparian Ara	a: Dileft Bank D	Pight Bank					
within Stream								
Туре:	Z Residential	Commercial	Industrial					
Material:	Plastic	Tires	Appliances	□ Other				
	Paper	Metal	Automotive					
	□ Yard Waste	□ Construction	Medical					
Source:	🖬 Unknown	□ Flooding	Illegal Dumping	Local Outfall				
Land Ownership:	Private	Public	🖬 Unknown					
Notes: Use the space	provided to record imp	portant observations of	herwise not captures or	n this sheet.				
e Trash	Pile was	on Right	t Bank abi	ove Winslow				
Field	several hu	indred Yar	rol s	5 X.				
o Trash	in Brook	was hi	ghest in	section				
below	Winslow	Field						
	-							



**Reach Level Assessment** 

					Keat	an Level Assessment
Survey Basin Code:			-	Date(s): 7-	20-117	5
Name of Stream:	Unteral	cen broo	K	Assessed By:		
Reach Code: WB	-37			C(7 )	West River	Stewards
Designated Stream	Гуре: 🥢	esh Wat	ir			
		Make All Ob	ervations F	acing Downst	ream	
Was the entire reach	of stream s	surveyed?	Yes DN	lo, Which sectio	n(s) were not s	urveyed? Why?
		2				5 5
	1			,		
<b>Channel Morpholo</b>	gy: Mark th	e predominate c	ondition(s), a	nd indicate the aver	age measurements	5.
□ Step-Pool 🛛	Pool-Riffle	E 🛛 Run	Glide	*🗹 Manipı	lated Channel	(piped, lined, etc.)
Active Channel Wid	lth: (7/	OFT		Glide Depth:		
Riffle Depth:	1,21	nch		Step Height:		
Pool Depth:	Sim	ches		Bank Height (R	ight Bank):	Sinches
Run Depth:				Bank Height (L	eft Bank):	3 inches
Substrate Composi	tion: Made		C		-t	
Silt or Clay		approximate per $\Box 5.25\%$	Centages for e	$\Box = 50 - 75\%$		
Sand	□ <5%	$\square_{,5-25\%}$			$\square > 75\%$	
Gravel (0.1-2 inches)	□ <5%	$\Box 5-25\%$	□ 25-50%	<b>N</b> /50-75%	$\square > 75\%$	
Cobble (2-10 inches)	□ <5%	<u>П 5-25%</u>	25-50%	<b>5</b> 50-75%	$\square > 75\%$	
Boulder (>10 inches)	□ <5%	$\nabla 5-25\%$	25-50%	<b>1</b> 50-75%	$\square > 75\%$	
Bedrock	□ <5%	5-25%	□ 25-50%	50-75%	□ >75%	
Describe Water Co	nditions:	Mark all that app	oly.		Area	of Concern Worksheets
☐ Clear ☐ Sta	ined ("iced	tea")	* Turt	oid (muddy / silty)	Ind	icate # and type of sheets
*□ Green	usty-Red		* Mill	<u>sy</u>	comple	ted for this reach assessment
	ther (foam, d	yes, chemicals)				Erosion
Aquatic Plants in S	fream: /				Storm	Water Outfall
Floating: (e.g. duck w	eed) A	bsent 🛛 Ir	Spots *	D Everywhere	Mor	lified Channel
Attached: (e.g. water I	ily) 🗆 A	bsent 🗹 Ir	1 Spots *	D Everywhere	Im	nacted Buffer
						Trash / Debris
Algae in Stream:		<u></u>			Wa	ter Conditions
Floating: (e.g. plankto	$\frac{\text{nic}}{\Box A}$	bsent M/In	1 Spots *	D Everywhere		
Attached: (e.g. filamer	ntous)   LI A	lbsent   Ly In	i Spots   *			
Canopy Cover: Ma	rk approxima	te percentage of	stream cover	ed by tree canopy.		
□ >75% covered	□ 75-50%	covered 🔄	50%-25%	covered $\Box < 2$	5% covered	
Note: Items ma	rked with a	n asterisk (*)	indicate a n	otential area of a	concern. Pleas	e record all relevant
	informa	ation on the a	ppropriate A	rea of Concern	Worksheet(s).	

No.

### **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	Low	Low	Moderate	☐ Moderate	🗖 High	🗖 High			
Grass	<b>I</b> Low	G/Low	□ Moderate	☐ Moderate	🗆 High	🗖 High			
Shrubs	Low	Low	Moderate	D Moderate	□ High	🗆 High			
Deciduous Trees	Low	Low	□ Moderate	☐ Moderate	<b>H</b> igh	⊠ High			
Coniferous Trees	Low	Low	☐ Moderate	☐ Moderate	🛛 High	🛛 High			

Surrounding Land Use: Mark the dominate land use(s) for each "zone", if known or observed.									
Immediately adjace	ent to stream	< '//Mile from stre	am	> ¼ Mile from stream					
□ Rural Residential	Agricultural	WRural Residential	□ Agricultural	Rural Residential	Agricultural				
Suburban Residential	E Forested	Suburban Residential	□ Forested	□ Suburban Residential	Forested				
Urban Residential	C Recreational	Urban Residential	Recreational	Urban Residential	CI Recreational				
Industrial	Other	Industrial	Other	Industrial	C Other				
Commercial		Commercial		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 sh	ieet.	/			
Is there evidence of either stream bank erosion or streambed instability within the reach?	□ Yes	<b>⊠</b> ∕No			
Are there any dams or any other possible natural or artificial barriers to fish migration?	V Yes	🗆 No			
Are there any storm water outfalls, discharge pipes or discharges within the reach? Indicate	<b>V</b> Yes	🗆 No			
the number observed:	1				
Is there any portion of the channel that has been modified (not culvert) (channeled, piped, rip	E Yes	🗆 No			
rap)?					
Is there any portion of the reach where the riparian buffer has been compromised or is	□ Yes	🗆 No			
nonexistent?					
Is there any portion of the reach that contains trash or other debris (cars, appliances, construction	□ Yes	🗆 No			
waste)?					
Is there any portion of the reach that has a change in water conditions?	□ Yes	🗆 No			

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

Fish Barrier

			statis		
Survey Basin Code:	<i>t</i> . 1	Date:	1/20/15		
Name of Stream: Wintergreen Brook		Assessed E	Assessed By:		
Reach Code: WB 3			5 KIVEr Ste	wards	
Designated Stream Type:	Freshwater				
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. (stort of Reach) 3. Culvert @ Carbonella Dr					
la & Jam & Lake Wintergreen ( not of the - Shallow Concrete Bottan					
2. Culvert and Rock Pile at Wintergreen Ave					
Type of Barrier: Mark the type of fish barrier.					
Dam 🔁	Culvert	U Velocity	Barrier	Other Other	
Dam Data: Provide all relevant data.					
Height of Dam: 40 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? INO Yes (If yes mark the type below)					
□ Factory □ H	ydro Facility 🛛 🗆 M	ill		Contraction Other	
Cuivert Data: Provide all relevant data					
Type of Culvert:	Box DP	ipe	D Pipe-Arcl	n 🗆 Arch	
Culvert Material:	☑ Concrete □ C	orrugated Metal			
Culvert Outlet:	Perched:	ft. Z Ramped			
Culvert Size:	Diameter:	ft. Height:	5 ft.	Width 12 ft	
# of Culverts: 2	Culvert Length: 3	ft.			
Velocity Barrier Data: Pr	ovide all relevant data.				
Nature of Barrier:	Grade Control Sill	Concrete Apron		Cross-Section   □ Other	
Length of Barrier:	ft.   Approx. Ve	rtical Rise:	ft		
Notes: Use the space provided to record important observations otherwise not captured on this sheet.					
	<del>_</del>				

Modified Channel

Survey Basin Code:	Date: 7/20/15					
Name of Stream: Wintergreen Brook	Assessed By:					
Reach Code: WB 3						
Designated Stream Type: Fresh Woster						
Site ID:						
Make All Observations Facing Downstream						
Location / Extent of Modified Channel: Mark and label the location of the modified channel on the <u>map</u> 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 R+ 15 Bridge						
Mark where channel modification occurs:						
□ Meander Bend □ Straight Section □ Steep Slope/Valley Wall □ Other						
Estimate length of channel modification: 900 ft.						
Estimate height of bank modification: 3-6 ft.						
Type of Manipulation: U Channelization U Bank Armoring U Concrete Channel U 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					
Suburban Residential Industrial	□ Agricultural □ Recreational					
Existing Width of Riparian Vegetation: Mark the average width of riparian vegetation to the modified section.						
$\square < 15 \text{ ft.}$ $\square 15 - 35 \text{ ft.}$ $\square 35 - 5$	$0 ft. \qquad \Box 50 - 100 ft \qquad \Box > 100 ft$					
In these a change in the events width of the active change $ \Omega  =  \Omega  =  \Omega  =  \Omega  =  \Omega  =  \Omega $						
Is there evidence of sediment deposition in the change						
Is the element deposition in the channel?						
Notes: Use the space provided to record important observations otherwise not captures on this sheet.						


# Wintergreen Brook WB 4 Survey

Untitled layer

Vegetation



Reach Level Assessment

Survey Basin	Code:						D	ate(s): 7//2	3/201	5	
Name of Stre	Name of Stream: Winter wren Broot Assessed By: WR Stream						XITAS				
Reach Code:	WB	4		5	- 1						
Designated S	tream T	ype:	Frest	LW	ater	2					
and the second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second se			N	Take A	ll Obs	ervations	Fac	ing Downsi	ream	1	
Was the entir	e reach	of str	eam su	irveve	d? 🗹	Yes 🗆	No	Which section	n(s) were	e not s	urveyed? Why?
								,	(5)	1100 0	arregea. Why.
Channel Mo	rpholog	gy: M	lark the	predom	inate co	ndition(s),	and	indicate the aver	age measur	ements	
Step-Pool	II	Pool-	Riffle		Run	Glic	le	* Manipu	lated Cha	annel	(piped, lined, etc.)
Active Chan	nel Wid	th:	9	Ft			G	lide Depth:	6	nch	<u>s</u>
Riffle Depth:		4	2-3	incl	115		S	tep Height:			
Pool Depth:			8:	inch	5		B	ank Height (R	ight Bank	c):	2 inches
Run Depth:							B	ank Height (L	eft Bank)	•	Sinches
Substrata C	amposi	tion	Mode -			antar - P		1			
Substrate Cl	omposn I			$\Box 5.2$	so/	Centages 10	r ead	n substrate type	bseryed.	1	
Sand			5%		5%	T 25-50	/0) 0/			/0	
Gravel (0.1-2	inches)		50%		50/	D 25-50	70 0/				
Cobble (2-10	inches)		5%	<u> </u>	5%	23-50	/UE 0// []			10	
Boulder (>10	inches)		5%	$\Box 5-2$	5%	25-50	%		T >750	6	
Bedrock	,	· • · · ·	5%	<u> </u>	5%	25-50	%	□ 50-75%		10	
											1.
Describe Wa	ater Co	nditio	ns: M	lark all t	that app	ly.				rea o	f Concern Worksheets
<u>  ビ Clear</u>	Stai	ined ('	"iced t	ea")		*□ Tu	rbic	d (muddy / silty)	25	Ind	cate # and type of sheets
TU Green	<b>*⊔</b> Ru	isty-R	ed				lky		-	puple	ted for this reach assessment
	L⁺⊔Ot	her (fo	oam, dy	es, chen	nicals)				100		Erosion
Aquatic Pla	nts in S	tream								C. C. P.	Fish Barner
Floating: (e.g.	duck we	ed)		osent	⊠ <i>I</i> m	Spots	*[	Everywhere		Mor	lified Channel 1
Attached: (e.g	g. water li	ly)		osent	🗹 In	Spots	*	] Everywhere	27.12	Im	pacted Buffer
		1				·					Irash / Debris
Algae in Str	eam:									Wa	ter Conditions 3
rioating: (e.g.	plankton	11C)		osent	<u>ГШ hn</u>	Spots	*Ľ	J Everywhere		190	
Attached: (e.g	g. filamen	tous)		psent		Spots	ŤL	J Everywhere			
Canopy Cov	er: Mar	k appr	oximate	percen	tage of	stream cove	red	by tree canony			
☑ >75% cov	ered [	3 75-:	50% co	overed		50%-25%	co	vered $\Box < 2$	5% cove	red	
NI-too Te		1.4.1	24.		1. 745 4			and the second second	A Street Street Street		
note: Ite	ms mar	Ked W	lith an	asteris	K(*)i	ndicate a	pot	ential area of o	concern.	Pleas	e record all relevant
the set of the set of the set		III)	IOLUAL	ion on	ine ap	propriate	Ar	ea or Concern	workshe	et(s).	

WB 4

### **Reach Level Assessment**

Riparian Vegetation: Characterize the average density of vegetation in the first 35 feet adjacent to the stream for both banks.									
	<b>Eeft</b> Bank	RightBank	Left Bank	Right Bank	LeftBank	Right Bank			
Turf Grass	Low	DILOW	☐ Moderate	☐ Moderate	🗆 High	D High			
Grass	⊡/Low	IL Low	☐ Moderate	□ Moderate	🗆 High	High			
Shrubs	Low	Low	Moderate	Moderate	🗆 High	🗆 High			
Deciduous Trees	Low	Low	☐ Moderate	☐ Moderate	Billigh	E High			
Coniferous Trees	□ Low	Low	Moderate	Moderate Moderate	🗆 High	🗆 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 stre	am	> ¹ / ₄ Mile from stream				
Rural Residential	Agricultural	Rural Residential     Agricultural		Rural Residential	Agricultural			
Residential	I Forested	Suburban Residential	Forested	D Suburban Residential	Torested			
Urban Residential	M Recreational	Urban Residential	Recreational	U Urban Residential	Recreational			
Industrial	Other	Industrial	Cher Other	🛛 Indüstrial	□ Other			
Commercial	E. Station	Commercial		Commercial	1213年初期的自己的意义。			

Areas of Concern Checklist: Marking "Yes" to any of the following questions indicates that an Area of	Concern W	orksheet	
should be filled out for the appropriate concern. For each occurrence observed, complete and area of concern sh	neet.		
Is there evidence of either stream bank erosion or streambed instability within the reach?	🗆 Yes	🗆 No	
Are there any dams or any other possible natural or artificial barriers to fish migration?		E No	
Are there any storm water outfalls, discharge pipes or discharges within the reach? Indicate	E Yes	4 No	
the number observed:			,
Is there any portion of the channel that has been modified (not culvert) (channeled, piped, rip	□ Yes	🗆 No	1
rap)?	ALC: NOT		
Is there any portion of the reach where the riparian buffer has been compromised or is	□ Yes	🗆 No	1
nonexistent?	A STATE		
Is there any portion of the reach that contains trash or other debris (cars, appliances, construction	□ Yes	□ No	1
waste)?			
Is there any portion of the reach that has a change in water conditions?	E Yes	DNo	4

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.

Survey Basin Code:		Date: 7/13/20	015 (assessed)	8/31/2	015 (transcribe	ed)
Name of Stream: Wintergro	een Brook	Assessed By: Common Ground West River Stewards				
Reach Code: WB 4		Kendall Barb	ery on hand f	or a por	tion of the sur	vev
Designated Stream Type:			*	1		
Site ID:						_
	Make All Observation	ns Facing Down	nstream			
Location of Barrier: Mark	and label the location of the bar	rier on the map an	d provide a brief	descript	ion of the locatio	n of
the barrier relative to roads or ot	her landmarks.					
1/3 of the way between Lake Wi	ntergreen and Mountain Road (fr	om south to north	)—stream passes	through	a culvert	
Type of Barrier: Mark the t	ype of fish barrier.					
🗆 Dam	x Culvert	UVelocity E	Barrier	D Oth	her	
Dam Data: Provide all releva	ant data.					
Height of Dam: ft. L	ength of Spillway: ft.	Shape of Spil	lway: 🛛 Stra	ight l	Crescent	
Materials: D Stone	Concrete St	one & Concret	e 🛛 🗆 Timb	er-Crib	D Other	
Is there other infrastruct	ure associated with the Da	m? 🗆 No 🛛 🗆	Yes (If yes ma	urk the ty	pe below)	
□ Factory □ H	ydro Facility 🛛 🗖 Mill		Residence	1	Other 🗆	
Culvert Deter Devite 11 -1						-
Turne of Culuente	evant data.					
Culvert Motorial	L BOX X Pipe		D Pipe-Arch	i	L Arch	
Culvert Material:	X Concrete L Corru	gated Metal			LI Stone	
Culvert Outlet:	Disputtion ("			x Sub	merged	
tuivert Size:	Diameter: 6"	Height:	<u>ft</u>	Width	1:	ft
# of Culverts:	Culvert Length: 8 ft.					
Velocity Barrier Data: Pr	ovide all relevant data.					
Nature of Barrier:	Grade Control Sill Con	crete Apron		ross-Se	ection 0	ther
Length of Barrier:	ft. Approx. Vertica	l Rise:	ft.			
Notes: Use the space provi	ded to record important obs	ervations other	wise not cantu	ired on	this sheet	
						_
Stream passes through culv	ert as adjacent road shifts fr	om left bank to	right bank.			
1 0	J					
						í

		1				
Survey Basin Code:		Date: 7/1	3/201	5 (assessed)	8/31/2015 (1	ranscribed)
Name of Stream: Wintergreen Brook		Assessed	By: C	Common Gro	ound West R	iver Stewards
Reach Code: WB 4		Kendall I	Barber	y on hand fo	or a portion o	of the survey
Designated Stream Type:						
Site ID:		Î				
Make All (	Observation	is Facing $D_{i}$	owns	tream		
Location / Extent of Modified Channel:	Mark and lab	el the location	of the	modified chan	el on the man	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 r	oond in LW	5 to Lake W	⁷ interg	reen. There	is an old roa	d. now foot
path adjacent to the stream. Several culver	ts connect	a surroundin	g wet	and area to t	he main ster	n of the brook.
			0			
This worksheet highlights an extensive cu	lvert that th	e brook pass	ses thr	ough near th	e northern e	nd of the reach
750 feet according to aerial scan on Googl	le Maps. 90	0 feet paced	out b	y D. Edgewo	orth in the fie	eld. See
attached Google Map and screen shot of 1	934 aerial s	survey.				
Mark where channel modification occur	rs:					
Meander Bend     x Straight Sec	tion	□ Steep	Slope	Valley Wall	Other	
Estimate length of channel modification	<b>:</b> 750-8	300 ft.			- <b>1</b>	
Estimate height of bank modification:	5' hig	h 6'8" wide				
<b>Type of Manipulation:</b> Channeliz	ation 🛛 🖬 🛛	Bank Armor	ing 🛛	Concrete	Channel	x Other
Extent of Manipulation:   x Right Bank	t xL	eft Bank		Channel	Bottom	
Channel / Bank Materials:  Natural	🗆 🗆 Ri	p Rap x C	Concre	te 🛛 🖬 G	abions	Metal
Terrending and the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the						
Immediately Adjacent Land Use: Mark	the land use(s	) immediately	adjacen	t to the modifie	ed section.	
Li Rural Residential Li Urban Resi	Idential		hercial		x Forested	
LI Suburban Residential LI Industrial		x Agricu	Itural		x Recreation	nal
Existing Width of Ringrian Vegetation.	Mark the ave	arage width of	rinorior	vogatation to	ha modified as	
$\Box > 15 \text{ ft}$ $\Box = 15 \text{ ft}$		CO fr				
	X 33 - 3	ν <b>Ο</b> Π.		50 - 100  ft		
Is there a change in the average width of t	he active ch	nannel?	x Ye	s / Estimate	Width: 2 ft	□ No
Is there evidence of sediment deposition in	n the chann	el?	x Ye	s		🗆 No
Is the channel connected to a floodplain?					x No	
Notes: Use the space provided to record in	mportant of	oservations o	therw	ise not captu	res on this s	heet.
The culvert is made of stone and concrete.	The top of	f it is covered	l with	soil and veg	etation. The	re is a section
right at the beginning that lacks canopy. T	he remaind	ler is vegetat	ed and	l has emerge	nt canopy—	mixed
coniferous and deciduous.						



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:** x Right Bank  $\Box$  Left Bank Mark and label the location of the outfall on the <u>map</u> 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 1/3rd 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.

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

Pipe Data: Provide all relevant data.

Pipe Material:	x Concrete	Corrug	gated Metal	Plastic		x Other
Contributing Source(s):	□ Road	Road Parking Lot		x Other	🛛 Un	known
Pipe Outlet:	□ Perched	4ft.	Ramped		x At Stream Level	
Pipe Size:	Diameter:	ft.				
# of Pipes:	x 2 @ 6" diameter main stem of cha that brook passes one connecting w area to channel)	er (one in annel— s through, vetland	x 2 @ 2'6" 24' long	diameter,	□ 3 +	

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

Leak-Off Swale:	Concrete	□ Asphalt	□ Stone	Earthen Earthen
<b>Contributing Source (s):</b>	□ Road	Parking Lot	Recreational Field	□ Other
Length of Swale: ft.				
Width of Swale: ft.				
	and the second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second s	AND CONTRACTOR OF A DATA	and the second second second second second second second second second second second second second second second	

### Channel Data: Provide all relevant data.

Channel Material:	Concrete	Asphalt	Stone 🛛	Earthen	
<b>Contributing Source (s):</b>	□ Road	Parking Lot	Recreational Field	□ Other	Unknown
Channel Length: ft.					
Channel Width: ft.					

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

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

	Carlos Carlos								
Survey Basin	n Code:			Date: 7/13/2015 (assessed) 8/31/2015 (transcribed)					
Name of Stre	eam: Wintergreer	n Brook		Assessed By: Common Ground West River Stewards					
Reach Code:	: WB 4			Kendal	l Barbery on hand for	or a portio	n of the s	urvey	
Designated S	Stream Type:								
Site ID:									
		Ma	ke All Observation	s Facing	Downstream				
Location / E on the <u>map</u> . 2 The channel, j	Extent of Visual 2) Briefly describe just north of the inl	Water Con- the location et to Lake W	ditions and/or Exc of the site relative to intergreen, is covered	essive Pl roads or c l in duckw	ant or Algae Growth other landmarks. veed	1: 1) Mark a	nd label the	location	
Immediatel	v Adjacent Land	Hise Marl	the land use(s) im	mediatel	v adjacent to the modi	fied section	2	-	
Y Rural Res	y Aujacent Danc idential		Residential		marcial	r Forester	<u>.                                    </u>		
□ Suburban	Desidential		al		cultural	X Poresici	u tional		
	Residential		141		cunurai	A Reclea	lional		
Describe W	ater Conditions	Mark all t	hat apply.						
X Clear	□ Stained ("ice	d tea")	□ Turbid (muddy	/ silty)	Odors				
Green	□ Rusty-Red		□ Milky		□ Other (foam, dyes	s, chemical	s)		
							<u> </u>		
Canopy Cov	ver: Mark appro	ximate perc	entage of stream co	vered by	tree canopy.				
□ >75% cov	vered   🗆 75-50	0% covered	x 50%-25% co	overed	$\Box$ < 25% covered				
Aquatic Pla	nts in Stream:								
Floating: (e.	g. duck weed)		I In Spots	x Everyv	vhere				
Attached: (e	.g. water lily)	x Absent	In Spots		where				
Algae in Str									
Floating: (e)	g planktonic)	X Absent			where				
Attached: (e.	g. plunktome)	x Absent			where				
filamentous)	····	X Absent			where				
manemous	,		1						
Is the change storm water	e in water conditi outfall?	on or excess	sive plant / algae gr	owth loca	ated at or directly belo	ow a	🖾 Yes	x No	
Is the change	e in water conditi	ons or exce	ssive plant / algae g	rowth as	sociated with a change	e in	x Yes	🛛 No	
channel dim	ensions (depth &	width)?			0				
Is the change	e in water conditi	ons or exce	ssive plant / algae g	rowth as	sociated with an impo	undment	x Yes	□ No	
/ dam on the	stream?			, ,	*				
Notes: Use 1	the space provide	d to record	important observati	ons other	wise not captures on t	this sheet.			
The duckwe sediment has surface cove	ed occurs immed s accumulated. C ered by duckweed	iately upstre hannel botto l.	eam of Lake Winter om comprised of a c	green, w leep laye	here water in the chan r of soft, organic debr	nel slows d is and fine :	lown and l sediments	ots of Water	
				<u>.</u>					

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

Survey Basin Code:		Date: 7/13/2015 (assessed)	8/31/2015 (transcribed)	)
Name of Stream: Wintergree	n Brook	Assessed By: Common Gro	ound West River Stewar	rds
Reach Code: WB 4		Kendall Barbery on hand for	or a portion of the surve	у
Designated Stream Type:				
Site ID:				
	Make All Observation	is Facing Downstream		
Location / Extent of Visual	Water Conditions and/or Exc	essive Plant or Algae Growth	: 1) Mark and label the loca	tion
on the map. 2) Briefly describ	e the location of the site relative to	roads or other landmarks.		
Between the inlet of the extensi	ve culvert described in the AOC M	anipulated Channel Worksheet an	d the nower line buffer (sou	սե
of Mountain Road) the stream p	asses through a coniferous canopy-	—of Old Field White Pine—and the	he water changes in appeara	nce
from clear/lightly stained to rus	ty in color with an oily sheen on the	e surface.		
Immediately Adjacent Lan	<b>d Use:</b> Mark the land use(s) im	mediately adjacent to the modi	fied section	
□ Rural Residential	Urban Residential	$\Box$ Commercial	x Forested	
Suburban Residential		x Agricultural	X Recreational	
Describe Water Conditions	: Mark all that apply.			
Clear Stained ("ice	ed tea")	/ silty) Odors		
Green x Rusty-Red	Milky	🛛 Other (foam, dyes	s, chemicals)	
Canony Cover: Mark appro	vimate nercentage of stream co	vered by tree canony		
$\square >75\%$ covered x 75-50	$0\%$ covered $\Box$ 50%-25% c	covered $\square < 25\%$ covered	—	
Aquatic Plants in Stream:				
Floating: (e.g. duck weed)	x Absent	Everywhere		
Attached: (e.g. water lily)	□ Absent X In Spots	Everywhere		
Algon in Strooms				
Floating: (e.g. planktonic)	x Absent In Spots			
Attached: (e.g. planktonic)	$x$ Absent $\Box$ In Spots			
filamentous)				
Is the change in water condit	ion or excessive plant / algae gr	owth located at or directly belo	owa 🛛 Yes 🛛 x N	lo
storm water outfall?				
Is the change in water condit	ions or excessive plant / algae g	prowth associated with a change	e in 🔰 x Yes / 🗍 x N	lo
channel dimensions (depth &	k width)?			
Is the change in water condit	tions or excessive plant / algae g	growth associated with an impo	undment   🗆 Yes   x N	10
/ dam on the stream?				

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.

### 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 <u>map</u>. 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.				
Rural Residential	Urban Residential		x Forested	
Suburban Residential	Industrial	x Agricultural	X Recreational	

Describe W	ater Conditions: Mark all t	hat apply.	
Clear	□ Stained ("iced tea")	Turbid (muddy / silty)	□ Odors
Green	C Rusty-Red	x Milky	□ Other (foam, dyes, chemicals)

Canopy Cover: Mark approximate percentage of stream covered by tree canopy.>75% covered75-50% coveredx 50%-25% covered<a href="https://www.covered">Covered</a>

Aquatic Plants in Stream:			
Floating: (e.g. duck weed)	□ Absent	x In Spots	Everywhere
Attached: (e.g. water lily)	□ Absent	X In Spots	Everywhere

Algae in Stream:			
Floating: (e.g. planktonic)	Absent	X In Spots	D Everywhere
Attached: (e.g.	x Absent	In Spots	Everywhere
filamentous)			

Is the change in water condition or excessive plant / algae growth located at or directly below a	□ Yes	x No
storm water outfall?		
Is the change in water conditions or excessive plant / algae growth associated with a change in	x Yes /	x No
channel dimensions (depth & width)?		
Is the change in water conditions or excessive plant / algae growth associated with an impoundment	x Yes	🗆 No
/ dam on the stream?		

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.

**Reach Level Assessment** 

Survey Basin Code:				Date(s): 7/6	2015		
Name of Stream: W	INTER GREE	N BROOK		Assessed By: 0	AVE ENGEWON	(TH, TY REEK	BAL
Reach Code: W75	Γ W	\$5a + b		LAVELLE	K-BA	- RBERY	-
Designated Stream	Type: free	sh		(6 West Rive	Sewards		
		Make All Of	servations	Facing Downs	tream		-
Was the entire reach	of stream	surveyed?	X Yes []	No. Which section	n(s) were not	surveyed? Why	2
with i	the excy	nt p win	e confli	comes of the st	rean of the	, pand.	
5 دالیا	~		<u>1050</u>				
Channel Morpholo	gv: Markit	e predominate	condition(s)	and indicate the aver	age measuremen	te	
Step-Pool	Pool-Riffl			de <b>*</b> Manin	ilated Channe	l (nined lined (	etc.)
Active Channel Wid	the -3-E	- (B) 3-41		Glide Denth: (	B) 5-6"	r (piped, mied, t	
Riffle Depth (A)	21. ()			Sten Height		, -	
Pool Denth (A) 46	И			Bank Height (R	ight Bank)	e" (b) 12"	
Run Depth:				Bank Height (I	eft Bank (P1	al ¹ (b) (2) ¹¹	
ixan bopun		1		J Dank Height (L	or Daik je +2		11.54
Substrate Composi	ition: Mark	approximate p	ercentages fo	or each substrate type	observed.	WESA	60036
Silt or Clay	□<5%	5-25%	25-50	)% 🛛 50-75%	区 >75%	A >75%	>7-5
Sand	□<5%	₽ 5-25%	25-50	)% 🛛 50-75%	□ >75%	5-25%	5110
Fravel (0.1-2 inches)	□<5%	5-25%	□ 25-50	)% 🛛 50-75%	□ >75%	Send	5-25
Cobble (2-10 inches)	<b>A</b> <5%	5-25%	□ 25-50	)% 🛛 50-75%	□ >75%	< 5%	5 14
Boulder (>10 inches)	□<5%	□ 5-25%	□ 25-50	)% 🛛 50-75%	□ >75%	Cobre	
Bedrock	□<5%	5-25%	□ 25-50	)% 🛛 50-75%	□ >75%	Dam	
Describe Water Co	nditions.	Mark all that a	anly		A	- C	مريحة المعالية م
Clear Sta	nined ("iced	tea")	<u>ייייי.</u>   <b>∗⊡ ד</b> וי	irbid (muddy / silty)	Area	OI CONCERN W	D <b>rKSNee</b> l f cheets
$*\square$ Green $*\square$ R	iistv-Red		* T M	ilky	compl	eted for this reach	assessmen
* Odors * 0	ther (foam 4	lves, chemicals				Erosion	
E a thy odos	<u>(B)</u>	ayos, enermedia	<u>/l</u>			Fish Barrier	2
Aquatic Plants in S	Stream: A	13	,		Storm	Water Outfall	
Floating: (e.g. duck w	eed) [] A	Absent 🛛 🗹	In Spots	* Everywhere	Mo	dified Channel	
Attached: (e.g. water )	lily) 🛛 🖬 🖉	Absent / 🗖 🛛	In Spots	* Everywhere	Jul II	mpacted Buffer	a la seconda
Hond - C	loating + a	Hached in	n Spertis	- Z	1° sku	Trash / Debris	
Aigae in Stream:	A L I I I I I I I I I I I I I I I I I I		6	40 P	W	ater Conditions	
Attached		Absent [14]	in Spots	* Everywhere			
Attached: (e.g. filame	ntous)   🗹 A		in Spots	Everywhere	.5		
Canopy Cover: Ma	Irk approxim:	ite percentage c	of stream cov	ered by tree canony			
► >75% covered	□ 75-50%	covered 5	50%-25%	$6 \text{ covered } \square < 2$	25% covered		
1			P		ie /o ee foreit		
Note: Items ma	rked with a	n asterisk (*	) indicate a	notential area of	concern Plea	se record all rel	evant
	LILOUS WILLII G	an apportant (	, maiouto a	potential area of	001100111. 1 100	so record all rer	

In lower portion of channel-filled in all regitation ~20 FF unther non all sover channel at 5001- - ADR CA

Developed By: CT-NRCS January 2008

### Reach Level Assessment

Riparian Vegetati	ion: Character	ize tl	ne average de	ensity of ve	getation i	n the first 3	5 feet a	djacent to the stre	eam for both	ı banks.
	Left Bank	Ri	ght Bank	Left Ba	ank	Right B	ank	Left Bank	Right	Bank
Turf Grass	□ Low		Low	🖸 Mod	lerate	D Mode	erate	🗆 High	🗆 Hig	sh
Grass	Low		Low	J-Moo	lerate	1 Mode	erate	🗆 High	🗆 Hig	h
Shrubs	Low		Low	6 Moo	derate	Mode	erate	🗉 High	🗆 Hig	h
Deciduous Trees	Low		Low		derate	D Mode	erate	High	THis	h
Coniferous Trees	Low	9	Low	🗖 Mod	derate	D Mode	erate	🗆 High	D His	h
(B) - GIA	stes Shrubs	-1	L+ BANK-	Shrubs	Contfer	25 -L	#+8	ark ( Itigh	Contro	(2)
Surrounding Lan	d Use: Mark	the d	ominate land	use(s) for	each "zor	ne", if know	n or ob	served.		
Immediately adjace	ent to stream		< 1/4 Mile f	rom stre	am		>1/4 1	Aile from stream	im	
Rural Residential	Agricultura	1	C Rural Re	sidential		ultural	🛛 Ru	ral Residential	Agricul	tural
Suburban Residential	Forested		C Suburbai Residential	ו	Fores	sted	Contract Contract Contract Contract Contract Contract Contract Contract Contract Contract Contract Contract Contract Contract Contract Contract Contract Contract Contract Contract Contract Contract Contract Contract Contract Contract Contract Contract Contract Contract Contract Contract Contract Contract Contract Contract Contract Contract Contract Contract Contract Contract Contract Contract Contract Contract Contract Contract Contract Contract Contract Contract Contract Contract Contract Contract Contract Contract Contract Contract Contract Contract Contract Contract Contract Contract Contract Contract Contract Contract Contract Contract Contract Contract Contract Contract Contract Contract Contract Contract Contract Contract Contract Contract Contract Contract Contract Contract Contract Contract Contract Contract Contract Contract Contract Contract Contract Contract Contract Contract Contract Contract Contract Contract Contract Contract Contract Contract Contract Contract Contract Contract Contract Contract Contract Contract Contract Contract Contract Contract Contract Contract Contract Contract Contract Contract Contract Contract Contract Contract Contract Contract Contract Contract Contract Contract Contract Contract Contract Contract Contract Contract Contract Contract Contract Contract Contract Contract Contract Contract Contract Contract Contract Contract Contract Contract Contract Contract Contract Contract Contract Contract Contract Contract Contract Contract Contract Contract Contract Contract Contract Contract Contract Contract Contract Contract Contract Contract Contract Contract Contract Contract Contract Contract Contract Contract Contract Contract Contract Contract Contract Contract Contract Contract Contract Contract Contract Contract Contract Contract Contract Contract Contract Contract Contract Contract Contract Contract Contract Contract Contract Contract Contract Contract Contract Contract Contract Contract Contract Contract Contract Contract Contract Contract Contract Contract Contract Con	burban ential	Foreste	d
Urban Residential	C Recreation	al	🗆 Urban Re	esidential	Recre	eational	UU	ban Residential	C Recreat	ional
Industrial	Other		Industria	1	Other	r		lustrial	□ Other	
	14- 2 14	1	LI Commer	cial			LI Co	mmercial		
Areas of Concern should be filled out fo	checklist:	Mark e con	ting "Yes" to cern. For eac	any of the ch occurrent or stream	following nce observ	g questions /ed, comple	indicate te and a vithin t	that an Area of the reach?	Concern W neet.	orksheet
Are there any dam	s or any other	r no	sihle natu	al or arti	ficial ha	rriers to f	ish mi	gration?	La Ves	
Are there any store the number observ	n water outfa ed:	ills,	discharge p	pipes or d	lischarge	es within	the rea	ch? Indicate	□ Yes	
Is there any portion rap)?	n of the chan	nel t	hat has bee	n modifi	ed (not o	culvert) (c	hannele	ed, piped, rip	□ Yes	🗆 No
Is there any portion nonexistent?	n of the reach	ı wh	ere the ripa	rian buff	fer has b	een comp	romis	ed or is	🗆 Yes	🛛 No
Is there any portion waste)?	n of the reach	tha	t contains t	rash or o	ther deb	ris (cars, a	pplianc	es, construction	🗆 Yes	D No
Is there any portio	n of the reach	n tha	t has a chai	nge in wa	ater cond	litions?			□ Yes	🖾 No
Notes: Use the space	e provided to re	cord	important ob	servations	otherwise	e not captur	ed on th	e Reach Assessn	nent Sheet o	or the
- as of Contorn WO	4854					5				

(3)

ړ SCF WAG L'LL MIIIMU + 211) KICHW SIJACK 66 teoluzat to POND Farm D, XX Dum/ house untar a WHERE BEILING Vurgin fum phray mstrain 15.1 noted that this partion of Bob Shell, Frim Magi. the stream has been diverted From link to Brilen Brook 4 mide channel gome stand by water Developed By: CT-NRCS January 2008

Fish Barrier

Survey Basin Code:			Date:			
Name of Stream:			Assessed By	/:		
Reach Code: WB5-	6			C2		
Designated Stream Ty	pe:					_
Site ID:						
	Make All	Observation	is Facing Dow	vnstream		
Location of Barrier: the barrier relative to roads	Mark and label the locat or other landmarks. 0 RM	ion of the barr	ier on the <u>map</u> a	nd provide a brief	description of the	e location o
Type of Barrier: Mark	the type of fish barrier.					
🖾 Dam	Culvert			Barrier	□ Other	
Height of Dam: 15 ft Materials:	ne Schuler ructure associated v	te Store Store	shape of Spi one & Concre m?	te D Timb Yes (If yes ma	er-Crib Cress ark the type below	cent Other /)
Pactory	Pume H	DUST	1	- Residence	Pub	20 Trave
Culvert Data: Provide	all relevant data.					-
Type of Culvert:	🗆 Box	<b>E</b> KPipe		D Pipe-Arch		ch
Culvert Material:	Concrete	Corru	gated Metal	Plastic	🗆 Sto	ne
Culvert Outlet:	Perched:	ft.	Ramped		Submerge	d
Culvert Size:	Diameter:	24" 4	Height:	ft.	Width:	
# of Culverts:	Culvert Lengt	t <b>h:</b> 40 ft.				
Velocity Barrier Date	a: Provide all relevant d	ata		-		
Nature of Barrier:	Grade Control S	ill [] Con	crete Anron	Channel C	Cross-Section	D Oth
Length of Barrier:	ft. Appr	ox. Vertica	l Rise:	ft.		L - Oth
Bun of warrier						
Notes: Use the space r	provided to record in	portant obs	ervations othe	rwise not cantu	ared on this she	eet.

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 labe brief description of the location of the channel section relative to	el the location of the modified channel on the <u>map</u> and provide a roads or other landmarks.
	n in the second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second se
Mark where channel modification occurs:	
Meander Bend     Straight Section	□ Steep Slope/Valley Wall □ Other
Estimate length of channel modification: ft.	
Estimate height of bank modification: ft.	
Type of Manipulation:	ank Armoring Li Concrete Channel Li Other
Extent of Manipulation: L Right Bank	eff Bank   L Channel Bottom
Channel / Bank Materials: U Natural U Kip	Rap L Concrete L Gabions L Metal
Immediately Adjacent Land Use: Mark the land use(s)	immediately adjacent to the modified section
Rural Residential	
$\square$ Suburban Residential $\square$ Industrial	$\square$ Agricultural $\square$ Recreational
Existing Width of Riparian Vegetation: Mark the aver	age width of riparian vegetation to the modified section.
□ < 15 ft. □ 15 − 35 ft. □ 35 − 5	$10 \text{ ft.}$ $\Box 50 - 100 \text{ ft}$ $\Box > 100 \text{ ft}$
Is there a change in the average width of the active cha	annel? LI Yes / Estimate Width: ft LI No
Is there evidence of sediment deposition in the channe	1? <u>Ves</u> <u>No</u>
Is the channel connected to a floodplain?	$\Box$ Yes $\Box$ No
Nisters Lies the second mercided to present interactions of a	
ivoles: Use the space provided to record important obs	servations otherwise not captures on this sheet.

die

Survey Basin Code:			,	Date(s):	7/6/1	5	
Name of Stream:	Wintergree,	1 Br	colc	Assessed By:	CC.	WR	Stewards
Reach Code:	WB5-B						
Designated Stream	Type: Fresh						
	Make	All Oh	servation	s Facing Down	stream	1	CARGE ALLER.
Was the entire reach	of stream surve	yed? [	Vies D	No, Which sec	tion(s) w	ere not s	surveyed? Why?
Channel Morpholo	gy: Mark the pred	ominate	condition(s	), and indicate the av	/erage me	Surement	
□ Step-Pool □	Pool-Riffle		G	ide   * 🗹 Man	ipulated	Channel	(nined lined etc.)
Active Channel Wid	ith: 3-4	rect		Glide Depth:	<u> </u>	T	(p. p. a., miled, etc.)
Riffle Depth:				Step Height:	- 7 \	e and	202 6 2
Pool Depth:				Bank Height	(Right B	ank):	The Turker
Run Depth:				Bank Height	(Left Ba	1k):	The Parks
					(		FO JUCIO
Substrate Composi	ition: Mark appro	ximate pe	rcentages f	or each substrate ty	e observe	d.	
Silt or Clay		-25%	25-5	<b>0%</b> 🛛 50-75%	☑ >	75%	
Sand		-25%	25-5	<b>0%</b> 🗖 50-75%		75%	
Gravel (0.1-2 inches)		-25%	□ 25-5	0% 🛛 50-75%		75%	
Cobble (2-10 inches)		-25%	□ 25-5	0% 🛛 50-75%		75%	
Boulder (>10 inches)		5-25%	25-5	0% 🛛 50-75%		75%	
Bedrock	□ <5%   □ 5	-25%	25-5	0% 🛛 50-75%		75%	
Describe Water Co	nditions: Mark	ll that an	alu			1	
Clear Sta	ined ("iced tea")	ui inai ap		urbid (muddu / sile		Area	of Concern Work
* Green * R	usty-Red	-		Gilen	y)	romole	ted for this reach asse
* Odors * 0	ther (foam dves c	hemicals		шку	-		Emeion
	anor (roum, uyes, c.	uenticals)	1		_		Fish Barrier
<b>Aquatic Plants in S</b>	tream:	1				Storm	Water Outfall
Floating: (e.g. duck w	eed) 🛛 Absen	t 🖸 I	n Spots	* Everywhen	е	Moo	lified Channel
Attached: (e.g. water l	ily) 🛛 Absen	t 🛛 🛍 I	n Spots	* Everywhen	е	Im	pacted Buffer
Alaga in Stugart		_			-	Alt and a	Trash / Debris
Floating: (are alarlis			6.0		-	Wa	ter Conditions
Attached: (a = file	nic) LI Absen		n Spots	* U Everywher	e	1.18-18-1	
Autacheu, (e.g. mame	nious)   🗆 Absen		n Spots	TM Everywher	e		
Canopy Cover: Ma	rk approximate perc	entage of	Atream con	vered by tree canons	1.		
	75-50% cover	ed N	50% 250	4 covered D	250/ 00	varad	
$\square > 15\%$ covered []		vu p 🖂	JU/0-2.17	O COVELEU I LIN	<u>~ /n Lu</u>	YCICII	

### Reach Level Assessment

Riparian Vegetation: Characterize the average density of vegetation in the first 35 feet adjacent to the stream for both banks.						
	LeftBank	RightBank	Left Bank	Right Bank	Left Bank	Right Bank
Turf Grass	Low	<b>回</b> 拒ow	D Moderate	☐ Moderate	💷 High	1 High
Grass	Low	Low	☐ Moderate	☐ Moderate	1 High	High
Shrubs	Low	Low Low	☐ Moderate	Moderate	🗆 High	🗆 High
<b>Deciduous</b> Trees	Low	Low Low	D Moderate	□ Moderate	🗆 High	High
Coniferous Trees	Low	D Low	D Moderate	□ Moderate	Liffligh	I High

Surrounding Land Use: Mark the dominate land use(s) for each "zone", if known or observed.							
Immediately adjacent to stream		<¼ Mile from stres	am,	>¼ Milefrom stream			
Rural Residential	Agricultural	Rural Residential	Agricultural	Rural Residential	Magricultural		
Suburban Residential	Forested	Suburban Residential	G Forested	Suburban Residential	D Forested		
Urban Residential	□ Recreational	Urban Residential	Recreational	Urban Residential	C Recreational		
Industrial	Other Other	Industrial	Other	Industrial	□ Other		
	El March La March	Commercial		Commercial			

Areas of Concern Checklist: Marking EYes" to any of the following questions indicates that an Area of	Concern W	orksheet				
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?	<b>X</b> es	🖸 No				
Are there any dams or any other possible natural or artificial barriers to fish migration?	<b>⊡</b> ¥es	<b>D</b> No				
Are there any storm water outfalls, discharge pipes or discharges within the reach? Indicate the number observed:	🗆 Yes	D No				
Is there any portion of the channel that has been modified (not culvert) (channeled, piped, rip rap)?	🗆 Yes	No				
Is there any portion of the reach where the riparian buffer has been compromised or is nonexistent?	□ Yes	1 No				
Is there any portion of the reach that contains trash or other debris (cars, appliances, construction waste)?	🗆 Yes	No No				
Is there any portion of the reach that has a change in water conditions?	□ Yes	No No				

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

Diverted

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Creek and

### Reach Level Assessment

							resessment
Survey Basin Code		A		D	Date(s): 7-	20-11/15/15	
Name of Stream: \	f Stream: Wintergreen Brook			A	ssessed By:	V	
Reach Code: WB-7				C(7)	west Kiver Stewa	sels	
Designated Stream	Type: 🖓	esh U	later				
		Make All	Observation	s Fa	cing Downst	ream	
Was the entire reach	n of stream s	surveyed?	VYes C	l No	, Which sectio	n(s) were not surveyed?	Why?
	,						
<b>Channel Morphol</b>	ogy: Mark th	e predomin	ate condition(s)	), and	indicate the average	nge measurements.	
□ Step-Pool □	Pool-Riffle		un 🗖 Gli	ide	* Manipu	lated Channel (piped, lin	ned, etc.)
Active Channel Wi	dth: 07-	1087	e	G	lide Depth:		
Riffle Depth:	1,21	nch		S	tep Height:		
Pool Depth:	Si	ches		B	ank Height (R	ight Bank): 37nch	25
Run Depth:				B	ank Height (Le	eft Bank): 3 incv	-15
<u> </u>	• • • • • •	•				P	
Substrate Compos	Ition: Mark	approximat	e percentages f	or each $\frac{1}{00}$	ch substrate type of	bserved. $\Box > 750/$	
Silt or Clay	$\Box < 5\%$	$\Box_{5-25}$	$\sqrt[6]{0}$ $\square$ 25-5	0%	$\Box 50-75\%$	$\Box > 75\%$	
Sand Crossel (0.1.0.; h.)	$\Box < 5\%$	<b>□</b> 5-25%	$\sqrt{0}$ $\Box 25-5$	0%	$\square 30-75\%$	$\Box > 75\%$	
Gravel (0.1-2 inches)	$\Box < 5\%$		$\sqrt{6}$ $\Box 23-3$	0%	$\square 50-75\%$	$\square > 75\%$	
Cobble (2-10 inches)	$\Box < 5\%$	$\Box 5-25\%$		0%	$\Box 50-75\%$	$\Box > 75\%$	
Boulder (>10 inches)	$\Box < 5\%$	$\square 5.25\%$	$\sqrt{0}$ $\Box 25-5$	0%	$\Box 50-75\%$	$\square > 75\%$	
Bedlock	□ < 3%	L 3-237		0%		Ш~/370	
Describe Water Co	onditions: 1	Mark all tha	it apply.			Area of Concer	n Worksheets
🗹 Clear 🛛 🗆 Sta	ained ("iced	tea")	* <b>D</b> T	urbi	d (muddy / silty)	Indicate # and t	type of sheets
*□ Green   *□ R	usty-Red		* 🗆 M	lilky	1	completed for this	reach assessment
*□ Odors   *□ O	ther (foam, d	yes, chemic	cals)			Ero	sion
	74				······	Fish Ba	rrier <u>2</u>
Aquatic Plants in S	stream: /	1			<b>T F</b> 1	Storm Water Ou	itfall
Floating: (e.g. duck w	$reed$ ) $\square A$	bsent I	In Spots		J Everywhere	Modified Cha	nnel 7
Affached: (e.g. water		losent   I	⊴ in Spots	L.	J Everywhere	Impacted Bu	iffer
Algae in Stream:			N			Water Condit	
Floating: (e.g. plankto	onic) $\Box A$	bsent 1	In Spots	*C	] Everywhere	water Condit	lons
Attached: (e.g. filame	ntous) 🛛 A	bsent I	In Spots	*Ľ	] Everywhere		
Canopy Cover: M	ark approxima	te percentag	ge of stream co	vered	by tree canopy.	<u>70/1</u>	
LI >/5% covered	L /3-30%	covered	<b>⊠</b> 30%-259	/0 CO	overea   □ < 2	5% covered	
Note: Items ma	rked with a	n asterisk	(*) indicate	a pot	tential area of o	concern. Please record a	ll relevant
	informa	ation on th	ne appropriat	e Ar	ea of Concern	Worksheet(s).	
						אין אַר אַר אַראָעראין אין אין אין אין אין אין אין אין אין	
						D	

### 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	□ Low	□ Low	□ Moderate	□ Moderate	□ High	🗖 High	
Grass	☑ Low	4Low	□ Moderate	□ Moderate	🗖 High	□ High	
Shrubs	□ Low	□ Low	Moderate	□/Moderate	□ High	□ High	
Deciduous Trees	□ Low	□ Low	□ Moderate	□ Moderate	🖾 High	<b>⊠</b> ∕High	
Coniferous Trees	□ Low	Low	□ Moderate	□ Moderate	□ High	□ High	

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

Areas of Concern Checklist: Marking "Yes" to any of the following questions indicates that an Area of	Concern W	orksheet				
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?	□ Yes	⊠ No				
Are there any dams or any other possible natural or artificial barriers to fish migration?	⊠ Yes	🗆 No				
Are there any storm water outfalls, discharge pipes or discharges within the reach? Indicate	Ves Yes	🗆 No				
the number observed:	I					
Is there any portion of the channel that has been modified (not culvert) (channeled, piped, rip						
rap)?						
Is there any portion of the reach where the riparian buffer has been compromised or is	□ Yes	□ No				
nonexistent?						
Is there any portion of the reach that contains trash or other debris (cars, appliances, construction	□ Yes	□ No				
waste)?						
Is there any portion of the reach that has a change in water conditions?	□ Yes	□ No				

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



Duckweed everywhere

Reach Level Assessment

Survey Bas	in Code:	Data(a) = i	12 (20) 6		
Name of St	ream: Winter speed Book	Date(s): 1/	13/2015		
Reach Code	: WB-4 OCCH ISTUAR	Assessed By:	WR Stewarts		
Designated	Stream Type: Fresh Water				
	Mala All OL	·			
Was the ent	ire reach of stream surview 42	tions Facing Down	stream		
	Yes	□ No, Which secti	on(s) were not surveyed? Why?		
Channel M	orphology. Mark the read				
□ Step-Poo	1 Pool-Riffle Dup	on(s), and indicate the ave	rage measurements.		
Active Chan	anel Width: $Q_{\Delta}$	Glide  *L] Manip	ulated Channel (piped, lined, etc.)		
Riffle Depth	1: <u>9-2</u> ( )	Glide Depth:	Ginches		
Pool Depth:	0 sinches	Step Height:			
Run Depth:	DINCHES	Bank Height (R	Right Bank): & inches		
<u>_</u>		Bank Height (L	eft Bank): Sinches		
Substrate C	omposition: Mark approximate percentage	es for each substrate type	obcomical		
Silt or Clay		5-50%	₩>75%		
Sand	□ <5% □ 2:	<b>5-50%</b> □ 50-75%	□ <u>&gt;75%</u>		
Gravel (0.1-2	inches) $\square < 5\%$ $\square 5-25\%$ $\square 2$	5-50% □ 50-75%	□ >75%		
Cobble (2-10	inches) $\Box < 5\%$ $\Box 5-25\%$ $\Box 25\%$	<b>5-50%</b> □ 50-75%	$\frac{\Box > 75\%}{\Box > 75\%}$		
Boulder (>10	inches) $\Box < 5\%$ $\Box 5-25\%$ $\Box 25\%$	5-50%	$\Box > 75\%$		
Bedrock	□ <5% □ 5-25% □ 25	5-50% 🛛 50-75%	$\Box > 75\%$		
Describe Wa	ater Conditions. Mark all that and				
I Clear	Stained ("iced tea")	Turkal	Area of Concern Worksheets		
*□ Green	* Rusty-Red *	Milley	Indicate # and type of sheets		
*□ Odors	* Other (foam, dyes, chemicals)	IVIIIKY	completed for this reach assessment		
A	, , , , , , , , , , , , , , , , , , , ,		Erosion		
Aquatic Plar	its in Stream:		Storm Water Outfall		
Attachade (	duck weed) L Absent M In Spots	s *□ Everywhere	Modified Channel		
Attached: (e.g	, water fily)   L] Absent   🗹 In Spots	* Everywhere	Impacted Buffer		
Algae in Stre	eam:		Trash / Debris		
Floating: (e.g.	planktonic) Z Absent D In Spots	* C Evorente	Water Conditions		
Attached: (e.g	. filamentous) $\Box$ Absent $\Box$ In Spots	* Everywhere			
Comerce C					
Anopy Cover: Mark approximate percentage of stream covered by tree canopy.					
$\Box > 75\%$ covered $\Box 75-50\%$ covered $\Box 50\%-25\%$ covered $\Box < 25\%$ covered					
Note: Items marked with an asterisk (*) indicate a potential					
	information on the appropri	ate Area of Comercial	oncern. Please record all relevant		
and the second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second		ale Alea of Concern V	vorksheet(s).		

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### 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	□ Low	Low	□ Moderate	□ Moderate	🗆 High	□ High
Grass	□/Low	I Low	□ Moderate	□ Moderate	□ High	🗆 High
Shrubs	□ Low	□ Low	☑ Moderate	Moderate	🗆 High	🗆 High
Deciduous Trees	□ Low	Low	D Moderate	□ Moderate	🖾 High	🖆 High
Coniferous Trees	□ Low	D Low	🗹 Moderate	⊠ Moderate	🗆 High	🗆 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		> ¹ / ₄ Mile from stream		
□ Rural Residential	□/Agricultural	Rural Residential	Agricultural	□ Rural Residential	Agricultural	
□ Suburban	I Forested	🗆 Suburban	☑ Forested	🗆 Suburban	I Forested	
Residential	1	Residential		Residential		
Urban Residential	Recreational	Urban Residential	□ Recreational	Urban Residential	□ Recreational	
□ Industrial	□ Other	🗆 Industrial	□ Other	□ Industrial	□ Other	
Commercial		Commercial		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?	□ Yes	🗆 No	
Are there any dams or any other possible natural or artificial barriers to fish migration?	□ Yes	□ No	n
Are there any storm water outfalls, discharge pipes or discharges within the reach? Indicate	🗹 Yes	□ No /	4
the number observed:			
Is there any portion of the channel that has been modified (not culvert) (channeled, piped, rip	□ Yes	🗆 No	1
rap)?			
Is there any portion of the reach where the riparian buffer has been compromised or is	□ Yes	🗆 No	
nonexistent?			
Is there any portion of the reach that contains trash or other debris (cars, appliances, construction	□ Yes	🗆 No	1
waste)?			
Is there any portion of the reach that has a change in water conditions?	TYes.	🗆 No	1

**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



IF 35' ZONNE ADJ. TO STREAM

DEGLEDATION OF T

ticn	Æ	THE	22.	Degraded Buffer
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Survey Basin Code:       Date:       7-23-15         Name of Stream:       WILMON       Assessed By:       BHRTA         Reach Code:       LMLG-1       Designated Stream Type:       Site TD:         Image: Designated Stream Type:       Site TD:       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.         DE66MDED       DUE TO       MODIFIED       CHAMMEL MI N E         Mark where the degraded buffer occurs.       Mender Bend       Straight Section       Steep Slope/Valley Wall       Other         Mark where the degraded buffer occurs.       Stimate length of degraded buffer: ft.       Ft.       Ft.         Mark Bank       Estimate length of degraded buffer: ft.       Ft.       Ft.         Minimal Vegetation       Minimal Width       Invasive Plants       Other         Page Degradation:       Minimal Vegetation       Minimal Width       Invasive Plants       Other         Inght Bank:       Minimal Vegetation       Minimal Width       Invasive Plants       Other         Immediately Adjacent Land Use: Mark the land use(s) immediately adjacent to the modified section.       Left Bank       Immediately Adjacent Land Use: Mark the land use(s) immediately adjacent to the modified
Name of Stream:       ULMOX       Assessed By:       BHRTA         Reach Code:       WAG-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.         Defentee the location of the site relative to roads or other landmarks.       DEGMDED       DUE TO       Modrif ICD       CHANNEL MINE         Mark where the degraded buffer occurs.       Defentee the degraded buffer occurs.       Defentee the degraded buffer occurs.       Defentee the degraded buffer occurs.         Mark where the degraded buffer occurs.       Defentee the degraded buffer occurs.       Defentee the fight Bank       Estimate length of degraded buffer: ft.         Type of Degradation:       Estimate length of degraded buffer:       ft.         Left Bank:       Minimal Vegetation       Minimal Width       Invasive Plants       Other         Right Bank:       Minimal Vegetation       Minimal Width       Invasive Plants       Other         Left Bank:       Minimal Vegetation       Minimal Width       Invasive Plants       Other         Left Bank:       Minimal Vegetation       Minimal Width       Invasive Plants       Other         Left Bank:       Bare Ground       Turf /
Reach Code:       WLG - 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.         DE6MDED       DUE TO       Mop IF IGD       CHANNEL       M       K         Mark where the degraded buffer occurs.       Image Bend       Steep Slope/Valley Wall       Other         DLeft Bank       Estimate length of degraded buffer:       ft.         Type of Degradation:       Estimate length of degraded buffer:       ft.         Type of Degradation:       Image Bank       Estimate length of degraded buffer:       ft.         Type of Degradation:       Image Bank       Image Bank       Image Bank       Other         Right Bank:       Image Bank       Image Bank       Image Bank       Other         Image Bank:       Image Bank       Image Bank       Image Bank       Image Bank       Image Bank       Image Bank         Left Bank:       Image Bank
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.         DE6MDED       DUE To       MoDIFIED       CHANNEL M N E         Mark where the degraded buffer occurs.       Mark where the degraded buffer occurs.       Mark where the degraded buffer occurs.         Meander Bend       Straight Section       Steep Slope/Valley Wall       Other         PLeft Bank       Estimate length of degraded buffer: ft.         Type of Degradation:       Estimate length of degraded buffer: ft.         Left Bank:       Minimal Vegetation       Minimal Width       Invasive Plants       Other         Iand Cover       Minimal Vegetation       Minimal Width       Invasive Plants       Other         Left Bank:       Minimal Vegetation       Minimal Width       Invasive Plants       Other         Iand Cover       Lawn       Lawn       Invasive Plants       Other         Left Bank:       Mark the land use(s) immediately adjacent to the modified section.       Immediately Adjacent Land Use: Mark the land use(s) immediately adjacent to the modified section.         Left Bank:       Rural Residential       Urban Residential       Commercial       <
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.         DE6MDED       DUE TO       MODIFIED       CHANNEL       M       N       6         Mark where the degraded buffer occurs.       Image: Comparison of the site relative to roads or other landmarks.       M       M       N       6         Mark where the degraded buffer occurs.       Image: Comparison of the degraded buffer occurs.       Image: Comparison of the degraded buffer: ft.       N       6         Mark mere the degraded buffer occurs.       Image: Comparison of the degraded buffer: ft.       N       6         Mark mere the degradation:       Estimate length of degraded buffer: ft.       N       1       N         Left Bank:       Minimal Vegetation       Minimal Width       Invasive Plants       Other         Pominate       Paved       Bare Ground       Turf / Tall Grass       Scrub / Shrub       Trees       Other         Left Bank       Image: Comparison of the land use(s) immediately adjacent to the modified section.       Immediately Adjacent Land Use: Mark the land use(s) immediately adjacent to the modified section.       Immediately Adjacent Land Use: Mark the land use(s) immediately adjacent to the modified section.       <
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.         DEGMDED DUE TO MODIFIED CHANNEL MINE         Mark where the degraded buffer occurs.         Mark where the degraded buffer occurs.       Image: Developer of the site relative to roads or other landmarks.         Mark where the degraded buffer occurs.       Image: Developer occurs.         Mark where the degraded buffer occurs.       Image: Developer occurs.         Mark mere the degraded buffer occurs.       Image: Developer occurs.         Mark mere the degraded buffer occurs.       Image: Developer occurs.         Mark mere the degraded buffer occurs.       Image: Developer occurs.         Mark mere the degraded buffer occurs.       Image: Developer occurs.         Mark mere the degraded buffer occurs.       Image: Developer occurs.         Mark mere the degraded buffer occurs.       Image: Developer occurs.         Mark mere the degraded buffer occurs.       Image: Developer occurs.         Image: Developer occurs.       Image: Developer occurs. </td
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.         DE6MDED       DUE TO       MODIFIED       CHANNEL MINE         Mark where the degraded buffer occurs.       Image: Degraded buffer occurs.       Image: Degraded buffer occurs.         Meander Bend       Image: Straight Section       Image: Straight Section       Image: Straight Section       Image: Straight Section         Meander Bend       Image: Straight Section       Image: Straight Section       Image: Straight Section       Image: Straight Section         Meander Bend       Image: Straight Section       Image: Straight Section       Image: Straight Section       Image: Straight Section         Meander Bend       Image: Straight Section       Image: Straight Section       Image: Straight Section       Image: Straight Section         Meander Bend       Image: Straight Section       Image: Straight Section       Image: Straight Section       Image: Straight Section         Left Bank:       Image: Straight Vegetation       Image: Minimal Vegetation       Image: Straight Section       Image: Straight Section       Image: Straight Section         Dominate       Paved       Bare Ground       Turf / Lawn       Tall Grass       Scrub / Shrub       Trees       Other         Left Bank:       Image: Strai
Mark where the degraded buffer occurs.         Meander Bend       Straight Section         Steep Slope/Valley Wall       Other         A Left Bank       Estimate length of degraded buffer:         Right Bank       Estimate length of degraded buffer:         Type of Degradation:       Estimate length of degraded buffer:         Left Bank:       Minimal Vegetation         Minimal Vegetation       Minimal Width         Right Bank:       Minimal Vegetation         Ominate       Paved         Bare Ground       Turf /         Lawn       Invasive Plants         Left Bank       Other         Dominate       Paved         Bare Ground       Turf /         Lawn       Invasive Plants         Left Bank       Image:         Left Bank       Image:         Immediately Adjacent Land Use:       Mark the land use(s) immediately adjacent to the modified section.         Left Bank:       Rural Residential       Industrial         Methank:       Rural Residential       Industrial       Agricultural         Right Bank:       Rural Residential       Industrial       Agricultural         Right Bank:       Rural Residential       Industrial       Agricultural       Recreational
□ Meander Bend       □ Straight Section       □ Steep Slope/Valley Wall       □ Other         □ Left Bank       Estimate length of degraded buffer:       ft.         □ Right Bank       Estimate length of degraded buffer:       ft.         Type of Degradation:       Estimate length of degraded buffer:       ft.         Left Bank:       ☑ Minimal Vegetation       □ Minimal Width       ☑ Invasive Plants       □ Other         Right Bank:       ☑ Minimal Vegetation       □ Minimal Width       ☑ Invasive Plants       □ Other         Pominate       Paved       Bare Ground       Turf / Lawn       Tall Grass       Scrub / Shrub       Trees       Other         Immediately Adjacent Land Use:       Mark the land use(s) immediately adjacent to the modified section.       □       □       □         Left Bank:       □ Rural Residential       □ Urban Residential       □ Commercial       ☑ Forested         Immediately Adjacent Land Use:       Mark the land use(s) immediately adjacent to the modified section.       □       □         Left Bank:       □ Rural Residential       □ Urban Residential       □ Commercial       ☑ Forested         ☑ Suburban Residential       □ Industrial       □ Agricultural       □ Recreational         Right Bank:       □ Suburban Residential       □ Industrial       □
ALeft Bank       Estimate length of degraded buffer:       ft.         Right Bank       Estimate length of degraded buffer:       ft.         Type of Degradation:       Estimate length of degraded buffer:       ft.         Left Bank:       Minimal Vegetation       Minimal Width       Invasive Plants       Other         Right Bank:       Minimal Vegetation       Minimal Width       Invasive Plants       Other         Dominate       Paved       Bare Ground       Turf /       Tall Grass       Scrub / Shrub       Trees       Other         Left Bank:       Paved       Bare Ground       Turf /       Tall Grass       Scrub / Shrub       Trees       Other         Left Bank       Paved       Bare Ground       Turf /       Tall Grass       Scrub / Shrub       Trees       Other         Left Bank       Paved       Bare Ground       Turf /       Tall Grass       Scrub / Shrub       Trees       Other         Left Bank       Paved       Bare Ground       Turf /       Tall Grass       Scrub / Shrub       Trees       Other         Immediately Adjacent Land Use:       Mark the land use(s) immediately adjacent to the modified section.       Eft Bank:       Rural Residential       Urban Residential       Commercial       Forested
A Right Bank       Estimate length of degraded buffer:       ft.         Type of Degradation:       Image: Construct of the section of the section of the section.       Image: Construct of the section of the section.         Right Bank:       Image: Construct of the section of the section.       Image: Construct of the section of the section.       Image: Construct of the section.         Dominate       Paved       Bare Ground       Turf / Tall Grass       Scrub / Shrub       Trees       Other         Image: Construct of the section.         Left Bank:       Image: Construct of the section.         Left Bank:       Image: Construct of the section.       Image: Construct of the section.       Image: Construct of the section.         Left Bank:       Image: Construct of the section.       Image: Construct of the section.       Image: Construct of the section.         Left Bank:       Image: Construct of the section.       Image: Construct of the section.       Image: Construct of the section.         Left Bank:       Image: Construct of the section.       Image: Construct of the section.       Image: Construct of the section.         Left Bank:       Image: Co
Type of Degradation:         Left Bank:       Minimal Vegetation       Minimal Width       Invasive Plants       Other         Right Bank:       Minimal Vegetation       Minimal Width       Invasive Plants       Other         Pominate       Paved       Bare Ground       Turf / Lawn       Tall Grass       Scrub / Shrub       Trees       Other         Pominate       Paved       Bare Ground       Turf / Lawn       Tall Grass       Scrub / Shrub       Trees       Other         Left Bank       Immediately Adjacent Land Use:       Mark the land use(s) immediately adjacent to the modified section.       Immediately Adjacent Land Use:       Mark the land use(s) immediately adjacent to the modified section.         Left Bank:       Immediately Adjacent Land Use:       Mark the land use(s) immediately adjacent to the modified section.       Immediately Adjacent Land Use:       Mark the land use(s) immediately adjacent to the modified section.         Left Bank:       Immediately Adjacent Land Use:       Mark the land use(s) immediately adjacent to the modified section.       Immediately Adjacent Land Use:       Mark the land use(s) immediately adjacent to the modified section.         Left Bank:       Rural Residential       Industrial       Agricultural       Recreational         Suburban Residential       Industrial       Agricultural       Recreational <t< td=""></t<>
Type of Degradation:         Left Bank:          Minimal Vegetation           Minimal Width           Invasive Plants           Other          Right Bank:          Minimal Vegetation           Minimal Width           Invasive Plants           Other          Pominate       Paved       Bare Ground       Turf / Lawn        Tall Grass       Scrub / Shrub       Trees        Other          Left Bank
Right Bank:       A Minimal Vegetation       Minimal Width       Invasive Plants       Other         Pominate       Paved       Bare Ground       Turf /       Tall Grass       Scrub / Shrub       Trees       Other         Land Cover       Lawn       Image: Strange Strange Strange Strange Strange Strange Strange Strange Strange Strange Strange Strange Strange Strange Strange Strange Strange Strange Strange Strange Strange Strange Strange Strange Strange Strange Strange Strange Strange Strange Strange Strange Strange Strange Strange Strange Strange Strange Strange Strange Strange Strange Strange Strange Strange Strange Strange Strange Strange Strange Strange Strange Strange Strange Strange Strange Strange Strange Strange Strange Strange Strange Strange Strange Strange Strange Strange Strange Strange Strange Strange Strange Strange Strange Strange Strange Strange Strange Strange Strange Strange Strange Strange Strange Strange Strange Strange Strange Strange Strange Strange Strange Strange Strange Strange Strange Strange Strange Strange Strange Strange Strange Strange Strange Strange Strange Strange Strange Strange Strange Strange Strange Strange Strange Strange Strange Strange Strange Strange Strange Strange Strange Strange Strange Strange Strange Strange Strange Strange Strange Strange Strange Strange Strange Strange Strange Strange Strange Strange Strange Strange Strange Strange Strange Strange Strange Strange Strange Strange Strange Strange Strange Strange Strange Strange Strange Strange Strange Strange Strange Strange Strange Strange Strange Strange Strange Strange Strange Strange Strange Strange Strange Strange Strange Strange Strange Strange Strange Strange Strange Strange Strange Strange Strange Strange Strange Strange Strange Strange Strange Strange Strange Strange Strange Strange Strange Strange Strange Stran
Night Bank:       Definition vegetation       Definition       Definition <thdefinition< th="">       Definition       De</thdefinition<>
Dominate Land Cover       Paved       Bare Ground Lawn       Turf / Lawn       Tall Grass       Scrub / Shrub       Trees       Other         Left Bank       Image: Strupt and Strupt and Strupt and Strupt and Strupt and Strupt and Strupt and Strupt and Strupt and Strupt and Strupt and Strupt and Strupt and Strupt and Strupt and Strupt and Strupt and Strupt and Strupt and Strupt and Strupt and Strupt and Strupt and Strupt and Strupt and Strupt and Strupt and Strupt and Strupt and Strupt and Strupt and Strupt and Strupt and Strupt and Strupt and Strupt and Strupt and Strupt and Strupt and Strupt and Strupt and Strupt and Strupt and Strupt and Strupt and Strupt and Strupt and Strupt and Strupt and Strupt and Strupt and Strupt and Strupt and Strupt and Strupt and Strupt and Strupt and Strupt and Strupt and Strupt and Strupt and Strupt and Strupt and Strupt and Strupt and Strupt and Strupt and Strupt and Strupt and Strupt and Strupt and Strupt and Strupt and Strupt and Strupt and Strupt and Strupt and Strupt and Strupt and Strupt and Strupt and Strupt and Strupt and Strupt and Strupt and Strupt and Strupt and Strupt and Strupt and Strupt and Strupt and Strupt and Strupt and Strupt and Strupt and Strupt and Strupt and Strupt and Strupt and Strupt and Strupt and Strupt and Strupt and Strupt and Strupt and Strupt and Strupt and Strupt and Strupt and Strupt and Strupt and Strupt and Strupt and Strupt and Strupt and Strupt and Strupt and Strupt and Strupt and Strupt and Strupt and Strupt and Strupt and Strupt and Strupt and Strupt and Strupt and Strupt and Strupt and Strupt and Strupt and Strupt and Strupt and Strupt and Strupt and Strupt and Strupt and Strupt and Strupt and Strupt and Strupt and Strupt and Strupt and Strupt and Strupt and Strupt and Strupt and Strupt and Strupt and Strupt and Strupt and Strupt and Strupt and Strupt and Strupt and Strupt and Strupt and Strupt and Strupt and Str
Land Cover       Lawn       Image: Control of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of t
Left Bank       Image: State of the space provided to record important observations otherwise not captures on this sheet.         Left Bank:       Image: State of the space provided to record important observations otherwise not captures on this sheet.
Right Bank       Immediately Adjacent Land Use:       Mark the land use(s) immediately adjacent to the modified section.         Left Bank:       Rural Residential       Urban Residential       Commercial       Forested         Suburban Residential       Industrial       Agricultural       Recreational         Right Bank:       Rural Residential       Industrial       Agricultural       Recreational         Right Bank:       Rural Residential       Industrial       Agricultural       Recreational         Right Bank:       Immediately adjacent Vegetation:       Mark the average width of riparian vegetation to the modified section.         Left Bank:       Immediately adjacent Vegetation:       Mark the average width of riparian vegetation to the modified section.         Left Bank:       Immediately adjacent to record important observations otherwise not captures on this sheet.         Notes:       Use the space provided to record important observations otherwise not captures on this sheet.
Immediately Adjacent Land Use: Mark the land use(s) immediately adjacent to the modified section.         Left Bank:       Rural Residential       Urban Residential       Commercial       Forested         Suburban Residential       Industrial       Agricultural       Recreational         Right Bank:       Rural Residential       Urban Residential       Recreational         Suburban Residential       Urban Residential       Recreational         Forested       Suburban Residential       Recreational         Suburban Residential       Industrial       Agricultural       Recreational         Suburban Residential       Industrial       Recreational       Recreational         Suburban Residential       Industrial       Recreational       Recreational         Suburban Residential       Industrial       Recreational       Recreational         Existing Width of Riparian Vegetation:       Mark the average width of riparian vegetation to the modified section.       Recreational         Left Bank:       Image: Section:       Image: Section in the average width of riparian vegetation to the modified section.       Image: Section in the average is section in the average is section in the average is section.         Left Bank:       Image: Section in the average is section in the average is section in the average is section in the average is section in the average is section in the average is section.
Initiation of Riparian Vegetation: Mark the land use(s) initial dialety adjacent to the modified section.Left Bank: $\Box$ Rural Residential $\Box$ Urban Residential $\Box$ Agricultural $\Box$ RecreationalRight Bank: $\Box$ Rural Residential $\Box$ Urban Residential $\Box$ Commercial $\blacksquare$ Forested $\blacksquare$ Suburban Residential $\Box$ Urban Residential $\Box$ Commercial $\blacksquare$ RecreationalRight Bank: $\Box$ Rural Residential $\Box$ Industrial $\Box$ Agricultural $\Box$ RecreationalExisting Width of Riparian Vegetation: Mark the average width of riparian vegetation to the modified section. $\Box$ ForestedLeft Bank: $\blacksquare < 15 \text{ ft.}$ $\Box 15 - 35 \text{ ft.}$ $\Box 35 - 50 \text{ ft.}$ $\Box 50 - 100 \text{ ft}$ Right Bank: $\blacksquare < 15 \text{ ft.}$ $\Box 15 - 35 \text{ ft.}$ $\Box 35 - 50 \text{ ft.}$ $\Box 50 - 100 \text{ ft}$ Notes: Use the space provided to record important observations otherwise not captures on this sheet.
Image: Suburban Residential       Industrial       Agricultural       Recreational         Right Bank:       Rural Residential       Urban Residential       Recreational         Suburban Residential       Urban Residential       Recreational         Suburban Residential       Industrial       Recreational         Suburban Residential       Industrial       Recreational         Suburban Residential       Industrial       Recreational         Suburban Residential       Industrial       Recreational         Existing Width of Riparian Vegetation: Mark the average width of riparian vegetation to the modified section.       Recreational         Left Bank:       Image: Section in the industrial industrial industrial industrial industrial industrial industrial industrial industrial industrial industrial industrial industrial industrial industrial industrial industrial industrial industrial industrial industrial industrial industrial industrial industrial industrial industrial industrial industrial industrial industrial industrial industrial industrial industrial industrial industrial industrial industrial industrial industrial industrial industrial industrial industrial industrial industrial industrial industrial industrial industrial industrial industrial industrial industrial industrial industrial industrial industrial industrial industrial industrial industrial industrial industrial industrial industrial industrial industrial industrial industrial industrial industrial industrial industrial industrial industrial industrial industrial industrial industrial industrial industrial industrial industrial industrial industrial in
Right Bank: $\square$ Rural Residential $\square$ Urban Residential $\square$ Commercial $\square$ Forested $\square$ Suburban Residential $\square$ Industrial $\square$ Agricultural $\square$ Recreational <b>Existing Width of Riparian Vegetation:</b> Mark the average width of riparian vegetation to the modified section.Left Bank: $\square < 15$ ft. $\square 15 - 35$ ft. $\square 35 - 50$ ft. $\square 50 - 100$ ft $\square > 100$ ftRight Bank: $\square < 15$ ft. $\square 15 - 35$ ft. $\square 35 - 50$ ft. $\square 50 - 100$ ft $\square > 100$ ftNotes: Use the space provided to record important observations otherwise not captures on this sheet.
Suburban ResidentialIndustrialAgriculturalRecreationalExisting Width of Riparian Vegetation: Mark the average width of riparian vegetation to the modified section.Left Bank: $\mathbb{Z} < 15 \text{ ft.}$ $15 - 35 \text{ ft.}$ $35 - 50 \text{ ft.}$ $50 - 100 \text{ ft}$ $> 100 \text{ ft}$ Right Bank: $\mathbb{Z} < 15 \text{ ft.}$ $15 - 35 \text{ ft.}$ $35 - 50 \text{ ft.}$ $50 - 100 \text{ ft}$ $> 100 \text{ ft}$ Notes:Use the space provided to record important observations otherwise not captures on this sheet.
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Existing Width of Riparian Vegetation: Mark the average width of riparian vegetation to the modified section.Left Bank: $\square < 15 \text{ ft.}$ $\square 15 - 35 \text{ ft.}$ $\square 35 - 50 \text{ ft.}$ $\square 50 - 100 \text{ ft}$ $\square > 100 \text{ ft}$ Right Bank: $\square < 15 \text{ ft.}$ $\square 15 - 35 \text{ ft.}$ $\square 35 - 50 \text{ ft.}$ $\square 50 - 100 \text{ ft}$ $\square > 100 \text{ ft}$ Notes:Use the space provided to record important observations otherwise not captures on this sheet.
Left Bank: $\square < 15 \text{ ft.}$ $\square 15 - 35 \text{ ft.}$ $\square 35 - 50 \text{ ft.}$ $\square 50 - 100 \text{ ft}$ $\square > 100 \text{ ft}$ Right Bank: $\square < 15 \text{ ft.}$ $\square 15 - 35 \text{ ft.}$ $\square 35 - 50 \text{ ft.}$ $\square 50 - 100 \text{ ft}$ $\square > 100 \text{ ft}$ Notes: Use the space provided to record important observations otherwise not captures on this sheet.
Right Bank: $\square < 15 \text{ ft.}$ $\square 15 - 35 \text{ ft.}$ $\square 35 - 50 \text{ ft.}$ $\square 50 - 100 \text{ ft}$ $\square > 100 \text{ ft}$ Notes:Use the space provided to record important observations otherwise not captures on this sheet.
Notes: Use the space provided to record important observations otherwise not captures on this sheet.
ese me space provided to record important cosor various other wise not captures on this sheet.

Modified Channel

Survey Basin Code:			Date:	7-	23-15		-
Name of Stream: Wy	nor		Assessed	By:	RH AP	Th	
Reach Code: WIR - 1					Our All	1 4 1	
Designated Stream Type:	·····	_					
Site ID:	(						
	Make All Observa	ations	Facing Do	wns	stream		
Location / Extent of Modif	fied Channel: Mark ar	nd label	the location of	of the	modified chann	el on the map	and provide a
brief description of the location o	f the channel section relat	ive to r	oads or other	landn	arks.		-
Mark where channel modi	ification occurs:						
☐ Meander Bend	Straight Section		□ Steep S	Slope	/Valley Wall	Other	
Estimate length of channel	l modification: 750	<b>&gt;</b> ft.			• <u>•</u>	·	_
Estimate height of bank m	odification: 5	ft.					
Type of Manipulation:		TA Ba	nk Armorir	ησ		Channel	C Other
Extent of Manipulation:	Right Bank	<u>M</u> I A	ft Bank	ig	Chappel	Pottom	
Channel / Bank Materials		Din 1	Pop Dalk				
)		a rup	кар рас	LOUCI		adions	
Immediately Adjacent Lar	nd Use: Mark the land	use(s) in	nmediately ad	djacen	t to the modifie	d section.	
□ Rural Residential	Urban Residential		Commo	ercial		□ Forested	
Suburban Residential	Industrial			ltural	_	C Recreation	onal
Existing Width of Dinaria	www.www.www.ww		1.1. 0.1				
Existing width of Riparian $M < 15$ fr	n vegetation: Mark th	e avera	ge width of ri	parian	vegetation to the	he modified set	ction.
	<u>– 35 ft.</u>	<u> </u>	π.		50 - 100  ft		00 ft
Is there a change in the aver	age width of the activ	e char	nnel?		es / Estimate	Width: ft	12-No
Is there evidence of sedimer	t deposition in the ch	annel	?		es		Di No
Is the channel connected to a	a floodplain?				es		No.
							74.0
Notes: Use the space provid	ed to record importar	it obse	rvations of	herw	ise not captur	es on this sh	eet.
2				_			

Storm Water Outfall

Survey Basin Code:			<u> </u>			Date	7.	22			
Name of Stream:	WI	LM	T			Assessed	I By	24 -7	2	10	
Reach Code:	JR -1	<u></u>	<u> </u>			713503500	LDy.	pri /	<u>m_/</u>	<u>u</u>	
Designated Stream T	vne										
Site ID:	/			_							
1			Make		Diservation	Facing I	Dailu	nstraam			
Location of Outfall:	R	ight	Bank A	Le	ft Bank Mar	k and label	the l	position of the c	utfall a		
brief description of the loc	ation o	of the	outfall rel	ative	to roads or ot	her landma	rks.	ocation of the d	unan o	11 the <u>m</u>	and provide a
	-							-			
Outfall Type:	🔰 Pi	ipe			Leak Of	f		Channel	1		
Flow:	<b>X</b> N	one			Trickle			Moderate	C	] Subs	stantial
Odor:	<b>M</b> N	one			□ Sewage			Rancid / Sou	r C	J Sulfi	ur (rotten eggs)
Deposits / Stains	Stains SkNone		Sediment Delta		Oily Stain		C	Black			
Benthic Growth 🔯 None		Brown			Green		] Orar	ge			
Pipe Data: Provide a	ll rele	vant	data.				-				
Pipe Material:		A	Concrete		Corrug	ated Meta	al	Plastic			Other
<b>Contributing Source</b>	e(s):	J.	Road		D Parking	g Lot		□ Other		Jnkno	wn
Pipe Outlet:			Perched.	S	<b>-Z</b> ft.	🗆 Ram	bed		XIA	At Stre	am Level
Pipe Size:		Dia	meter:	2"	-192''						
# of Pipes:			1			□ 2			₩3	8 +	4
											1
Leak-Off Data: Prov	vide al	l rel	evant dat	a.							and and and
Leak-Off Swale:			Concrete	2	□ Asphalt			Stone		DE	arthen
<b>Contributing Source</b>	e (s):		Road	s	□ Parking	Lot		Recreational	Field		ther
Length of Swale:	ft.										
Width of Swale:	ft.										
<b>Channel Data:</b> Provi	de all	rele	vant data				-		-		
<b>Channel Material:</b>			Concrete		□ Asphalt			Stone		DE	arthen
<b>Contributing Source</b>	e (s):		Road		Parking Lo	t 🗆 R	ecre	ational Field		Other	Unknown
<b>Channel Length:</b>	ft.										
Channel Width:	ft.										
							-		-	-	

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

Developed By CT-NRCS January 2008

Reach Level Assessment

Survey Basin Code:				Date(s): 7 -	23	
Name of Stream:	NILM	2		Assessed By:	DIT AP	TA
Reach Code:	L L	B-1		O.A.	K In	1
Designated Stream	Туре:			200	> 10	15
	1	Make All Ob	servations	Facing Downst	ream	
Was the entire reach	n of stream s	urveyed?	Yes 🗆	No, Which sectio	n(s) were no	t surveyed? Why?
Step-Pool	<b>Pool-Riffle</b>	e predominate c	ondition(s), a	and indicate the avera	age measureme	nts.
Active Channel Wid	th.			Glide Depth:		er (piped, illied, etc.)
Riffle Depth:	61			Sten Height	-	
Pool Denth:				Bank Height (P	ight Rank).	6
Run Denth:	* '			Bank Height (L	eft Bank).	
rear populi				Bank Height (Et		6
Substrate Compos	ition: Mark	approximate per	rcentages for	each substrate type of	observed.	
Silt or Clay	□ <5%	□ 5-25%	25-509	6 🖬 50-75%	□ >75%	
Sand	□ <5%	□ 5-25%	25-509	6 <b>D</b> 50-75%	□ >75%	
Gravel (0.1-2 inches)	<b>A</b> <5%	5-25%	□ 25-509	6 50-75%	□ >75%	
Cobble (2-10 inches)	<b>1</b> <5%	□ 5-25%	25-509	6 50-75%	□ >75%	
Boulder (>10 inches)	□ <5%	□ 5-25%	25-509	6 50-75%	□ >75%	
Bedrock X	□ <5%	□ 5-25%	25-509	% □ 50-75%	□ >75%	
Describe Water Co	nditions: N	Aark all that app	oly.		Ares	of Concern Worksho
🛱 Clear 🛛 🖾 Sta	ined ("iced	tea")	* Tur	bid (muddy / silty)	l	ndicate # and type of sheets
*□ Green   *□ R	usty-Red		*□ Mil	ky	comp	eleted for this reach assessme
* Odors   * 0	ther (foam, d	yes, chemicals)				Erosion
A mundle This is in f			-			Fish Barrier
Aquatic Plants in S	otream:	haant 🕞 T	C	* 🗖 🕞	Stor	m Water Outfall
Attached: (e.g. duck w		boont Main		* Everywhere	M	odified Channel
Anacheu: (e.g. water	шу)  ЦА	osent ja Ir	spots	Everywhere		Impacted Buffer
Algae in Stream:					T	ITASD / Debris
Floating: (e.g. plankto	nic) 🛛 A	bsent 🖄 In	Spots	* Everywhere	W N	aler Conditions
Attached: (e.g. filame	ntous) 🛛 A	bsent 🕅 Ir	n Spots	* Everywhere		- 10 - 10 - 10 - 10 - 10 - 10 - 10 - 10
Canada Cara	1		•			-
Canopy Cover: Ma $\Box > 75\%$ covered	IR approximat	e percentage of	stream cove	red by tree canopy.	50/ 00000-1	4
	M /J-JU70 L		30/0-2370		570 covered	1
Note: Items ma	rked with an	n asterisk (*)	indicate a	potential area of c	oncern. Plea	ase record all relevant
	informa	tion on the a	ppropriate	Area of Concern	Worksheet(s	).
cilvely al 4	r outry	124	RA	6" Trickthe	RL 12'	319 1917
L. L.K.A	164	V	10	0.1 -		15" RUR
my our rella	N A	1	6 ]	ILIY L		
1 r Jal	cal ca	NC	Or	thet.	1 5	A R Developed By: CT-NR
ill of mind			1/1	JR CLED	00	Lavel -
ailt	0 101	prin	12	VI. I'A	.1	Cans
		011 - 1	AL C	ICN H Laft		

### 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	2 Low	Low .	☐ Moderate	☐ Moderate	🗆 High	🖾 High			
Grass	Low	Low	Moderate	Moderate	🗆 High	🗆 High			
Shrubs	Low	□ Low	Moderate	Moderate	🗆 High	🗆 High			
Deciduous Trees	Z-Low	Low	☐ Moderate	☐ Moderate	🗆 High	□High			
Coniferous Trees	Low	Low	☐ Moderate	□ Moderate	🗆 High	🗆 High			

C 11 T 1	**			
Surrounding Land	Use:	Mark the dominate land use(s	a) for each "zone"	, if known or observed.

Surrounding Land Ober Max and command land 250(3) for each 20ne , it known of observed.							
Immediately adjacent to stream		< 1/4 Mile from stre	am	> ¼ Mile from stream			
Rural Residential	Agricultural	Rural Residential	□ Agricultural	Rural Residential	□ Agricultural		
Suburban Residential	Forested	Suburban Residential	Forested	Construction Suburban Residential	Forested		
Urban Residential	Recreational	Urban Residential	Recreational	Urban Residential	Recreational		
Industrial	Other	🗖 Industrial	Other	🗖 Industrial	Other Other		
Commercial	and a second of	Commercial		Commercial			

Areas of Concern Checklist: Marking "Yes" to any of the following questions indicates that an Area of	Concern W	orksheet					
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?	I Yes	💋 No					
Are there any dams or any other possible natural or artificial barriers to fish migration?	□ Yes	No					
Are there any storm water outfalls, discharge pipes or discharges within the reach? Indicate the number observed:	Yes Yes	🗆 No					
Is there any portion of the channel that has been modified (not culvert) (channeled, piped, rip rap)?	Yes	🗆 No					
Is there any portion of the reach where the riparian buffer has been compromised or is nonexistent?	D Yes	□ No					
Is there any portion of the reach that contains trash or other debris (cars, appliances, construction waste)?	🗆 Yes	DI No					
Is there any portion of the reach that has a change in water conditions?	🗆 Yes	No					

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



519 Wooden

### Reach Level Assessment

Sumar Dasin Cada				Data	(n): 7-1	1	. en	]
Name of Streams	11111 100	Dandid			(S). / 1	1-9 1-	A. P	
Rame of Stream:	WILITON	BROOK		Asse	SSEU Dy: D	1	M.C	
Designated Stream	WIDZ	·		0	15 21421	-		
Designated Stream	Type.			Parata.	Doument	400	144	
	C		servations	Facin	g DOWNSII	rea	m	40.31/10
was the entire reac	n or scream s			INO, W	vinen section	1(5)	were not s	urveyeu? wily?
<b>Channel Morphol</b>	ogy: Mark th	e predominate c	ondition(s).	and ind	licate the avera	ge m	easurements	
Step-Pool	Pool-Riffle		Glid	le	* Manipu	lated	I Channel	(piped, lined, etc.)
Active Channel Wi	dth: 😪			Glid	e Depth:			
Riffle Depth:	2"			Step	Height:			
Pool Depth:	I AVE	( UP T= 2')		Ban	k Height (Ri	ght l	Bank): 1	
Run Depth:				Ban	k Height (Le	ft B	ank): 1	•
Substrate Compos	ition: Mark	approximate pe	rcentages for	r each s	ubstrate type o	bserv	/ed.	
Silt or Clay X	□ <5%	□ 5-25%	25-50	% [	50-75%		>75%	
Sand	□ <5%	□ 5-25%	25-50	%	<b>C</b> 50-75%		>75%	
Gravel (0.1-2 inches)	□ <5%	□ 5-25%	□ 25-50	% C	50-75%		>75%	
Cobble (2-10 inches)	□ <5%	□ 5-25%	25-50	% L	50-75%		>75%	
Boulder (>10 inches)	<b>A</b> <5%	□ 5-25%	25-50	% E	50-75%		>75%	
Bedrock X	□<5%	□ 5-25%	L 25-50	% L	50-75%		>75%	
Describe Water C	onditions:	Mark all that an	ply.				A.mag (	Concorn Worltshoots
M Clear St	ained ("iced	tea")	×⊡ Tu	rbid (r	nuddy/silty)		Indi	cate # and type of sheets
* Green * 1	Rusty-Red	,	* 🗆 Mi	ilkv			complet	ted for this reach assessment
* Odors * 0	Other (foam, d	lves, chemicals)						Erosion
							1 million	Fish Barrier
Aquatic Plants in	Stream:						Storm	Water Outfall
Floating: (e.g. duck v	veed) 🛛 🖾 A	bsent 🗆 I	n Spots		verywhere		Mod	lified Channel
Attached: (e.g. water	lily) 🛛 🖾 A	bsent   🗆 I	n Spots	* 🗆 E	verywhere		Im	pacted Buffer
Algae in Stream:					1.1.10		Wa	Trash / Debris
Floating: (e.g. plankt	onic) 🖄 🖄	bsent 🛛 🖬	n Spots	*🗆 E	Everywhere		BW	
Attached: (e.g. filam	entous) 💢 A	Absent 🛛 🗆 Ii	n Spots	*🗆 E	Everywhere			
Canopy Cover: M 2 >75% covered Note: Items m	ark approxima 75-50% arked with a	te percentage of covered D	f stream cove 50%-25% indicate a	ered by cove	tree canopy. red $\square < 2$ tial area of c	5% (	covered	e record all relevant
	inform	ation on the a	ppropriate	Area	of Concern	Wor	ksheet(s).	

### 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	Low	Low	Moderate	Moderate	🛛 High	🗆 High			
Grass	Low	Low	☐ Moderate	☐ Moderate	□ High	🗆 High			
Shrubs	Low	Low	D Moderate	☐ Moderate	🗆 High	🗆 High			
Deciduous Trees	Low	Low	Moderate	Moderate	🗖 High	🗆 High			
Coniferous Trees	Low	Low	□ Moderate	□ Moderate	🗆 High	🗆 High			

Surrounding Land Use: Mark the dominate land use(s) for each "zone", if known or observed.										
Immediately adjace	ent to stream	<¼ Mile from stre	am	> ¼ Mile from stream						
Rural Residential	Agricultural	Rural Residential	Agricultural	Rural Residential	Agricultural					
Suburban Residential	Forested	Residential	Forested	A Suburban Residential	E Forested					
Urban Residential	Recreational	Urban Residential	Recreational	Urban Residential	Recreational					
Industrial	Other	Industrial	□ Other	Industrial	Other					
Commercial		Commercial		Commercial						

Areas of Concern Checklist: Marking "Yes" to any of the following questions indicates that an Area of	Concern W	orksheet					
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?	□ Yes	🖄 No					
Are there any dams or any other possible natural or artificial barriers to fish migration?	□ Yes	🖾 No					
Are there any storm water outfalls, discharge pipes or discharges within the reach? Indicate	VYes 1	🗆 No					
the number observed:	1						
Is there any portion of the channel that has been modified (not culvert) (channeled, piped, rip	Yes Yes	□ No					
rap)?	1						
Is there any portion of the reach where the riparian buffer has been compromised or is	VYes	🗆 No					
nonexistent?	1						
Is there any portion of the reach that contains trash or other debris (cars, appliances, construction	I Yes	□ No					
waste)? Not much		1					
Is there any portion of the reach that has a change in water conditions?	□ Yes	No No					

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

Storm Water Outfall

Sumuer Deale Cade				D .	-	111.18	_			
Survey Basin Code:		Date: 7.16.18								
Name of Stream: Voice Vicio				Assessed	By	ABBI	1			
Reach Code: V	<u>- Z</u>	_								
Designated Stream T		-								
Site ID:										
Make All Observations Facing Downstream										
Location of Outfall: Right Bank K 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 Z', BOTH SIDES										
Outfall Type	R Pi	ne	D Leak Of	ff		Channel	-			
Flow.	X None									
Odor	None						는			
Deposite / Stains		one	Sewage     Sediment Dalta					D Diash		
Benthic Growth		one								
Bino Doto: Provide all releves		ant data			Green			L Orange		
Pipe Material			MT Commo		1					
Contributing Source(a)		Concrete Corrugated			al SI Plastic			U Other		
Dine Outlet:	e(s):	Road Li Parkin				Uther		LI Unknown		
Pipe Outlet:		Diamatan (	Perched. 1				P A	At Stream Level		
Fipe Size:	Diameter: 6		• <b>2</b> ft.							
# of Pipes:							+ \$ 16			
Look Of Datas Data	.: 4 11	l 1								
Leak-Off Data: Prov	vide all	relevant data.		-	-	-	-			
Leak-UII Swale:			L Asphalt		Stone			D Earthen		
Contributing Source (s):			Parking Lot		Recreational Fie		rield	Other		
Length of Swale: ft.							_			
Width of Swale:	ft.		-							
Channel Data: Provide all relevant data.										
Channel Material:		Concrete	Asphalt Asphalt		☐ Stone			D Earthen		
Contributing Source	e (s):		Parking Lo	t DR	ecre	ational Field		Other D Unknown		
Channel Length:	ft.									
Channel Width:	ft.									

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

SEE MAP FUR DETAILS

Developed By: CT-NRCS January 2008

Modified Channel

Survey Rosin Code:	Date: 7-16-15						
Name of Stream: All and	Assessed By: AP AH						
Reach Code: Jak D. 7	Assessed by. As Bri						
Designated Stream Type:							
Site ID:							
Make All Observati	ions Facing Downstream						
Location / Extent of Modified Channel: Mark and	label the location of the modified channel on the <u>map</u> and provide a						
bier description of the location of the channel section relative	e to roads or other fandmarks.						
ENTING REACH							
Mark where channel modification occurs:							
Meander Bend     Meander Bend	□ Steep Slope/Valley Wall □ Other						
Estimate length of channel modification:	ft. 0.95 Mile						
Estimate height of bank modification:	ft.						
Type of Manipulation: Da Channelization	Bank Armoring D Concrete Channel D Other						
Extent of Manipulation: DR Right Bank	A Left Bank U Channel Bottom						
Channel / Bank Materials: M Natural	Rip Rap A Concrete   D Gabions   D Metal STAN						
Immediately Adjacent Land Use: Mark the land use	e(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 a	average width of riparian vegetation to the modified section.						
$\Box < 15 \text{ ft.}$ $\Box 15 - 35 \text{ ft.}$ $\Box 35$	$-50 \text{ ft.}$ $\Box 50 - 100 \text{ ft}$ $\Box > 100 \text{ ft}$						
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 cha	nnel? $\Box$ Yes $\Box$ No						
Is the channel connected to a floodplain?							
Notes: Use the space provided to record important	observations otherwise not captures on this sheet.						

### Degraded Buffer

Survey Basin Code:				Date: 7-16:15							
Name of Stream: IN ILNOT				Assessed By: BA AB							
Reach Code: WLB - 7.								1.0		_	
Designated Str	eam Type	:			_				<u></u>		
Site ID:											
Make All Observations Factor Dozumstraam											
Location / Extent of Degraded Buffer: 1) Mark and lakel the location of the described buffer: 2) D i C											
describe the location of the site relative to roads or other landmarks.											
ENTING REACH AND DEGMOED BUFFER											
Mark where the degraded buffer occurs.											
🔀 Meander Be	nd	💭 Straigh	t Secti	on	□ Steep Slo	□ Steep Slope/Valley Wall □ Oth					
🛛 Left Bank					Estimate length of degraded buffer: ft.						ft.
🗷 Right Bank					Estimate length of degraded buffer: ft.						
Type of Degra	dation:								1.1.1.1.1		
Left Bank: ØK Minimal Vegetation					<b>Minim</b>	al W	/idth		vasive Pl	ants	D Other
Right Bank:				getation	inva			vasive Pl	asive Plants  Other		
			1								
Dominate	Paved	Bare Ground	Turf	7	Tall Grass	Sci	rub / Sł	ub / Shrub Trees			Other
Land Cover			Law	n na		<u> </u>					
Left Bank			+				<u> </u>				<u> </u>
Right Bank	ank L L				<u> </u>	<b>L</b>					
Immediately A	Adjacent	Land Use: M	lark the	land use(s	s) immediately	adiad	ent to th	e modi	fied section		
Left Bank:	Residential		🛛 Urb	an Residential		Commercia		cial		Forested	
	🗷 Suburban Residential			🗖 Indi	strial		□ Agricultur		Iral	1	Recreational
<b>Right Bank:</b>	Rural Residential			Urban Residential				cial			
	🕱 Suburban Residential						□ Agricultural				
10 4 4 XX/1 X	1 6 5 1										
Existing Widt	h of Ripa	rian Vegetat	ion: Ma	ark the av	erage width of	ripar	ian veget	tation to	the modified	ed sec	tion.
Left Bank:	Left Bank: $\mathbb{M} \leq 15$ ft.		$\Box 15 - 35$ ft.			135 - 50 ft.		. 0 50 -			> 100 ft
Right Bank:	<u> </u>  <	<u>15 n.</u>	- (1 -	- 35 ft.		0 ft	·   L	1 50 -	- 100 ft		> 100 ft
Notes: Use the	space pr	ovided to reco	rd imp	ortant o	bservations o	other	wise no	ot capi	tures on th	<u>iis sh</u>	eet.

Developed By CT-NRCS January 2008

## WLB3 0.57' 455 Bertan


Reach Level Assessment

Survey Basin (	Code:					D	ite(s):	7	16-10-	
Name of Stream	m:	WILMI	T			A	sessed By:	17.	1B RU	
Reach Code:		ULB-	3							
Designated Str	eam Tv	pe:	-	_						
			Make Al	1 Ohse	ervations	Fac	ing Downst	rea	m	
Was the entire	reach o	f stream s	surveyed	? 🗖	Yes 🗆	No,	Which section	n(s) '	were not s	urveyed? Why?
Channel Mor	nhology	v: Mark th	e predomi	nate co	ndition(s)	and i	ndicate the avera	ige m	easurement	
Sten-Pool		ool-Riffle		Run		e	* Manipu	lated	l Channel	(niped lined etc.)
Active Channe	Width	: <b>%</b> !				ิ ดา	ide Denth			(piped, miled, etc.)
Riffle Denth:	4."					Sf	en Height:			
Pool Depth:	11					Ba	nk Height (Ri	ght ]	Bank):	
Run Depth:						Ba	ink Height (Le	ft B	ank):	
2						_		_		
Substrate Cor	mpositio	on: Mark	approxima	ate perc	entages for	eac	h substrate type o	bser	ved.	
Silt or Clay	Þ	□ <5%		5%	25-50	%	□ 50-75%		>75%	
Sand		□ <5%		5%	QI 25-50	%	<u> </u>		>75%	
Gravel (0.1-2 in	ches)	☑ <5%		5%	25-50	%	50-75%		>75%	
Cobble (2-10 in	ches) [	□<5%	5-25	5%	25-50	%	<u>50-75%</u>		>75%	
Boulder (>10 in	iches)	⊒ <5%		5%	□ 25-50	%	<u> </u>		>75%	
Bedrock	XI	□<5%		5%	□ 25-50	%	□ 50-75%		>75%	
Describe Wat	er Cond	ditions:	Mark all th	nat appl	y.	-	-	1	Arrea	of Concern Worksheets
<b>U</b> _Clear	🗆 Stain	ed ("iced	tea")			rbid	(muddy / silty)		Ind	icate # and type of sheets
* Green	* Rus	ty-Red			*🗆 Mi	lky		1	comple	ted for this reach assessment
* Odors	* Oth	er (foam, o	lyes, chem	icals)				]		Erosion
Aquatic Plant	ts in Str	eam:			-			1	Storm	Fish Barrier
Floating: (e.g. d	luck weed		bsent	🗆 In	Spots	*□	Everywhere		Mo	fified Channel
Attached: (e.g.	water lily	/) <b>D</b> A	bsent	🖾 In	Spots	*□	Everywhere	1	In	npaoted Buffer
Algae in Strea	Algae in Stream:							Trash / Debris		
Floating: (e.g. p	olanktonic	c) <b>`</b> [ A	bsent	🗆 İn	Spots	*□	Everywhere	1	wa	
Attached: (e.g.	filamento	ous) 1 A	bsent	🗆 In	Spots	*□	Everywhere			
		•	•							
Canopy Cove	red D	approxima	ite percent	age of s	tream cove	ered	by tree canopy.	50/	overad	
صر ۲۵% covel		13-30%	covered		0070-23%	0 001		.370 (	coverea	
Note: Iten	ns mark	ed with a information	n asteris ation on	k (*) in the ap	ndicate a propriate	pote Are	ential area of o a of Concern	wor	ern. Pleas ksheet(s).	e record all relevant

## Reach Level Assessment

<b>Riparian Vegetat</b>	ion: Character	rize the average de	ensity of vegetation i	in the first 35 feet a	djacent to the stre	am for both banks.
	Left Bank	Right Bank	Left Bank	Right Bank	Left Bank	Right Bank
Turf Grass	EL Low	Low	□ Moderate	☐ Moderate	🗖 High	🗆 High
Grass	Low	Low	☐ Moderate	☐ Moderate	🖾 High	🗆 High
Shrubs	D Low	E Low	Moderate	□ Moderate	🗆 High	🗆 High
Deciduous Trees	Low	Low	Moderate	☐ Moderate	E High	😰 High
Coniferous Trees	Low	Low	☐ Moderate	☐ Moderate	🖾 High	🗆 High

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

Immediately adjace	ent to stream	<¼ Mile from stre	am	> ¼ Mile from stre	am
□ Rural Residential	Agricultural	Rural Residential	Agricultural	C Rural Residential	Agricultural
Suburban Residential	• Forested	🖼 Suburban Residential	G Forested	D Suburban Residential	Forested
Urban Residential	Recreational	Urban Residential	Recreational	Urban Residential	Recreational
Industrial	Other	Industrial	Diher HI-WAY	🗖 Industrial	Other
Commercial		Commercial	4	Commercial	

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

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

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Modified Channel

Survey Basin Code:	·	Date: 7	-16-15		
Name of Stream: WIL	mot	Assessed By:	BHAR		
Reach Code: WL	R-3				
Designated Stream Type:	5				
Site ID:					
	Make All Observations	Facing Down	nstream	North and	
Location / Extent of Modif brief description of the location o 757.	fied Channel: Mark and label f the channel section relative to r OF PEACH MOSTLY	the location of th oads or other land BEHIND	ne modified chann Imarks. PESIDEN	el on the <u>map</u> a TIAL	nd provide a
Mark where channel mod	ification occurs:				
Meander Bend	Straight Section	Steep Slop	e/Valley Wall	Other	
Estimate length of channe	modification: ft.	50-75	90		
Estimate height of bank m	odification: 4 ft.				
Tune of Monipulations		-1 A			
Type of Manipulation:	Subst Deals NU Ba	nk Armoring		Channel	L Other
Channel / Bank Materials	Notural Dire			Bottom	
Channel / Dank Materials					
Immediately Adjacent La	nd Use: Mark the land use(s) i	mmediately adjac	ent to the modifie	d section.	
Rural Residential	Urban Residential	Commerci	ial	Forested	
Suburban Residential	Industrial	Agricultur	al	□ Recreatio	nal
Fuisting With + C Disputs	- Vandedinger				
Existing whith of Riparia	25 A D 25 50	ge width of ripari	an vegetation to t	he modified sec	tion.
			150 - 100  ft		10 ft
Is there a change in the aver	age width of the active cha	nnel?	Yes / Estimate	Width: ft	⊠ No
Is there evidence of sedimer	nt deposition in the channel	?	Yes	•••	<b>N</b> o
Is the channel connected to	a floodplain?		Yes		No No
			1		1
Notes: Use the space provid	led to record important obse	ervations other	wise not captu	res on this sh	eet.
				1	

Developed By CT-NRCS January 2008

Storm Water Outfall

Survey Basin Code:	Date: 71615
Name of Stream: WILMOT	Assessed By: ASHA + BRIAN
Reach Code: INLB-3	
Designated Stream Type:	
Site ID:	

Make All Observations Facing Downstream

Location of Outfall: Right Bank ELeft 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

			-								
Outfall Type:	🖾 Pi	ре		Leak Of	f		Channel				
Flow:	/E/N	one		Trickle		☐ Moderate			Subs	tantial	
Odor:	12 N	one		□ Sewage		Rancid / Sour			□ Sulfur (rotten egg		
Deposits / Stains	N-N	one	Т	Sediment Delta			Oily Stain		Black		
Benthic Growth	⊠⁄N	one		Brown			Green		Orar	ge	
Pipe Data: Provide a	ll relev	vant data.						,	1	P	
Pipe Material:		⊡/Concrete		Corrug	ated Meta	ıl	Plastic			Other	
<b>Contributing Source</b>	e(s):	🖾 Road		🛛 Parking	g Lot		Other	ΠU	nkno	wn	
Pipe Outlet:		E Perched	••	ft.	🗆 Ram	bed		ΣA	t Stre	am Level	
Pipe Size:		Diameter: 12-	-2	4 ft.				1			
# of Pipes:					□ 2				+-	\$ 12	
Leak-Off Data: Prov	vide all	relevant data.						•	-		
Leak-Off Swale:		Concrete	Τ	Asphalt			Stone			arthen	
<b>Contributing Source</b>	e (s):	Road	Τ	□ Parking	Lot		Recreational F	ield		ther	
Length of Swale:	ft.		Т								
Width of Swale:	ft.		T								
<b>Channel Data:</b> Provi	ide all	relevant data.							1		
<b>Channel Material:</b>		Concrete		□ Asphalt			I Stone		DE	arthen	
<b>Contributing Source</b>	e (s):			Parking Lo	t 🗆 R	ecre	ational Field		Other	Unknown	
Channel Length:	ft.										
Channel Width:	ft.		T			1					
						-					

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

1

Fish Barrier

Survey Basin Code:			Date:	7-116-15	-	
Name of Stream:	JLMOT		Assessed By	ASHA	+ BPIAN	
Reach Code:	WLB-3			- interest		
Designated Stream Type:			1			
Site ID:						
	Make All C	Observation	ns Facing Dow	nstream		
Location of Barrier: Ma the barrier relative to roads or	rk and label the location other landmarks. GND OF F	on of the barr	ier on the <u>map</u> an AT BENH	nd provide a brie: IAM ST	f description of the	e location of
Type of Barrier: Mark the	type of fish barrier.					
Dam	Culvert		□ Velocity	Barrier	□ Other	
Dam Data: Provide all rele	vant data.		-			
Height of Dam: 1/2 ft.	Length of Spillwa	y: 12 ft.	Shape of Spi	llway: ⊠ [°] Stra	ight Cres	cent
Materials: Stone			one & Concret	te 🛛 🗆 Timb	ber-Crib 🛛 🗆 🗘	Other
Is there other infrastruc	ture associated wi	ith the Dai	m? 🗆 No 📔	Yes (If yes m	ark the type below	/)
	Hydro Facility	□ Mill		Residence	🛛 🖾 Othe	r CULVERTL
Gulvert Data: Provide all	relevant data.		37.05	1. S. S. S. S. S. S. S. S. S. S. S. S. S.	- 1	
Type of Culvert:	D Box	D Pipe		D Pipe-Arcl	n 🗆 Arc	h
Culvert Material:	Concrete	Corru	gated Metal	D Plastic	🗆 Sto	ne
Culvert Outlet:	Perched:	. ft.	Ramped		D Submerge	d
Culvert Size:	Diameter:	ft.	Height:	ft.	Width:	ft.
# of Culverts:	Culvert Length	ı: ft.'				
Velocity Barrier Data	Provide all relevant det	ha			allipolite	
Nature of Barrier:	Grade Control Sil	L Con	crete Aprop	Channel (	Pross Section	C Other
Length of Barrier:	ft Appro	v Vertica	Rise.	ft	Joss-Section	Li Other
Dengen of Barrier.		A. Vertica	II INISC.	11.		
Notes: Use the snace pro	vided to record imr	ortant obs	ervations other	nvise not cant	ured on this she	at
Notes. Ose the space pro	vided to record imp	ortani obsi	ervations other	rwise not capt	ured on this she	et.
				1,200		
					Develo	oped By CT-NRCS
						January 2008

Degraded Buffer

Survey Basin Code:	Date:	7-16-19	5	
Name of Stream: WILMOT BROOM	Assessed B	By: B	H AB	
Reach Code: WLB - 3				
Designated Stream Type:				
Site ID:				
Make All Observation	ons Facing Dov	wnstrea	m	
Location / Extent of Degraded Buffer: 1) Mark and	label the location of	of the degra	ded buffer on the <u>ma</u>	ap. 2) Briefly
describe the location of the site relative to roads or other landn	harks.		. fr	
50-15 of Kench - ALL AREAS	Near Ke	s. Jree	517	
Mark where the degraded buffer ensure		_		
Mark where the degraded butter occurs.	C Steen Slone	o/Valley V	Vall Doth	ar
VL oft Bank	Estimate langt	th of dears	aded buffer:	
Dight Dank	Estimate lengt	th of dear	aded buffer:	A.
	Estimate lengi	ui oi degia	aueu Duller.	11.
Type of Degradation:				
Left Bank: 🛛 🖾 Minimal Vegetation	Minimal	Width	□ Invasive Plan	ts 🛛 Other
Right Bank: Ja Minimal Vegetation	Minimal	Width	Invasive Plan	ts 🛛 Other
Deminate Deved Deve Crowned (Twift)	Tall Cross	Samp / Sh	with Trace	Other
Land Cover Paved Bare Ground Turi	Tall Grass 2	scrud / Sn	rub Trees	Other
Dight Dank		<u> </u>		
Immediately Adjacent Land Use: Mark the land use	(s) immediately adj	jacent to the	e modified section.	
Left Bank: 🛛 Rural Residential 🔹 Ur	ban Residential	Con	nmercial	DI Forested
🔎 🖾 Suburban Residential 🛛 🗖 Inc	lustrial	🛛 🗆 Agr	icultural	□ Recreational
Right Bank: 🛛 Rural Residential 🔷 Ur	ban Residential	Con	nmercial	/ Forested
Suburban Residential 🛛 Inc	lustrial	🗌 🗆 Agr	icultural	□ Recreational
Existing Width of Dinarian Vegetation: Mark the a	versue width of rin	arian yanat	ation to the modified	section
Left Bank: $M < 15 \text{ ft}$ $\Box 15 - 35 \text{ ft}$	$1 \square 35 - 50$		150 - 100  ft	$\Box > 100 \text{ ft}$
<b>Bight Bank:</b> $M < 15 \text{ ft}$ $\Pi 15 = 35 \text{ ft}$	$\square 35 - 50$		150 - 100  ft	$\square > 100 \text{ ft}$ $\square > 100 \text{ ft}$
Notes: Use the space provided to record important of	observations oth	ierwise no	t captures on this	sheet.

(

Erosion Assessment

2 4 9 4

Survey Basin Co	de:			Date:			1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Name of Stream:		8	1.1.1.1	Assessed By	/:	1	
Reach Code:			• • • • • • • • • • • • • • • • • • •				
Designated Strea	m Type:					-	V V Calching
Site ID:	<u>v.l</u>						
	a kali ji	Make A	Il Observations	Facing Dow	nstream		
Location of Ban site relative to roads	k Erosior or other lan	1: 1) Mark and Idmarks.	d label the location o	of the erosion on	the <u>map</u> . 2) Brid	efly descr	ibe the location of the
Mark where ero	<u>sion is oc</u>	curring:			ALC: HEALING	Fourth	NALL REPORT AND
Meander Bend		□ Straight	Section	□ Steep Slo	pe/Valley Wal	1 00	Dther
Site Dimensions Length:	: Indicate a Left Ban	ll applicable m k:	easurements associa ft. Right Bar	ited with the ero	sion site ft.		
Bank Height:	Left Ban	k:	ft. Right Ba	ık:	ft.		
Bank Angle:	Left Ban	k:	deg.   Right Bar	ık:	deg.		
What is the prov		the eventer.	-14- 4- 1- 5	-			L HARD PROFESSION
what is the property $\Box < 15  \Theta$		the erosion	Site to intrastru	cture (e.g. roa	d, bridge, building	g, etc.)?	
<u>u &lt; 15 it.</u>			<u>1 30 - 45 It</u>	<u>μ 45 – 60 π</u>	<u> </u>	100 π	> 100 π
Immediately Ad	iacent La	and Use: Ma	ark the land use(s) in	nmediately adia	cent to the erosion	n site	
Rural Residen	tial	Urban F	Residential				rested
□ Suburban Res	dential	🛛 Industri	al	□ Agricultu	ral		creational
			Could Heat				
Land Ownershi	p: Mark lar	nd ownership a	t the location of the	erosion site.			
D Public			Private		🛛 🗆 Unkr	lown	1.1
Existing Width	f Dinaria	m Vezeteti		141 6 1			
Existing whith $\Box < 15  \Theta$		an vegetatio	On: Mark the avera	ge width of ripai	rian vegetation at	the erosic	on site. $\square > 100 \square$
<u> </u>		5 — 35 п.	02-26	π. μ	1.50 - 100  ft		$\Box > 100 \mathrm{m}$
Notes: Use the spa	ce provided	to record impo	ortant observations of	therwise not car	ptured on this she	et.	
		2			/ K		



455 BENHAM ST. HAMDEN

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Reach Level Assessment

Survey Basin Code:				Date(s): 7	-21			
Name of Stream:	WILMOT			Assessed By:	BH, TYL	2		
Reach Code: WLP	,H				/ I	-	~	-
Designated Stream T	ype:							
	Ma	ke All Obs	ervations 1	Facing Downsi	tream			
Was the entire reach	of stream sur	veyed? 🗖	Yes 🔲	No, Which sectio	on(s) were not	surveyed	!? Why?	
Channel Morpholo	gy: Mark the p	redominate co	ondition(s), a	and indicate the aver	age measuremen	ts.		
Step-Pool	Pool-Riffle		Glid	e *🗆 Manipi	ilated Channe	l (piped.	lined, etc.)	-
Active Channel Wid	th: 10'			Glide Depth:		- (I - I	, ,	
Riffle Depth: 3"	1.			Step Height:				1
Pool Depth:				Bank Height (R	ight Bank):	11	STELLERE	3 KA
Run Depth:				Bank Height (L	eft Bank):	-1'	SHALLOW	BN
Substrate Composi Silt or Clay Sand Gravel (0.1-2 inches) Cobble (2-10 inches) Boulder (>10 inches) Bedrock	tion: Mark ap □ <5% 0 ⊠ <5% 0 □ <5% 0 □ <5% 0 □ <5% 0 □ <5% 0 □ <5% 0 □ <5% 0	proximate per 2.5-25% 5-25% 5-25% 5-25% 5-25% 5-25%	centages for □ 25-50° □ 25-50° □ 25-50° □ 25-50° □ 25-50° □ 25-50°	reach substrate type         %       50-75%         %       50-75%         %       50-75%         %       50-75%         %       50-75%         %       50-75%         %       50-75%         %       50-75%         %       50-75%	observed. □ >75% □ >75% □ >75% □ >75% □ >75% □ >75%			
Describe Water Co	nditions: Ma	rk all that app	oly. ↓ ★□ T	detal z in a dina s	Area	ofConc	ern Workshee	is
	linea ("icea te	a)		roid (muddy / silty)	COTOR	leted for th	is reach assessmen	rt
	usty-Reu ther (foam due	c chemicals)		ТКУ		T	nosion	-
	ther (toam, uye	s, chenneals)				Fish	Banaier	
<b>Aquatic Plants in S</b>	Stream:			- X.	Stor	n Water	Outfall	
Floating: (e.g. duck w	eed) 🛛 Ab	sent 🛛 🖾 Ir	n Spots	* Everywhere	M	odified C	hannel	
Attached: (e.g. water	lily) 🛛 Ab	sent 🛛 🖾 It	n Spots	* Everywhere	1	mpacted	Builler	-
Algae in Streem:					1 1	Trash /	Debris	
Floating: (e.g. plankto	mic) <b>JA</b> h	sent 🗖 Iı	a Spots	*     Fvervwhere	- 19	ater Con	ditions	-
Attached: (e.g. filame	ntous)   $\Box$ Ab	sent Kil	n Spots	* Everywhere				-
						-		
Canopy Cover: Ma	ark approximate X75-50% cc	percentage of vered	f stream cove 50%-25%	$\frac{1}{6} \frac{1}{6} \frac{1}$	25% covered			
Note: Items ma	rked with an informat	asterisk (*) ion on the a	indicate a ppropriate	potential area of Area of Goncern	concern. Plea Worksheet(s	ase recor ).	d all relevant	

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## 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	LeftBank	Right Bank					
Turf Grass 🗙	D Low	Low	☐ Moderate	☐ Moderate	🗆 High	High					
Grass	Low	Low	<b>E</b> Moderate	Moderate	🗆 High	🗆 High					
Shrubs	Low	Low [	☐ Moderate	☐ Moderate	High	D High					
Deciduous Trees	Low [	Low	☐ Moderate	□ Moderate	High	High					
Coniferous Trees	Low	Low	☐ Moderate	D Moderate	🗆 High	I 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 stre	âm	>¼ Mile from stream		
C Rural Residential	B Agricultural	Rural Residential	Agricultural	Rural Residential	E Agricultural	
Suburban Residential	Forested	Suburban Residential	Forested	Residential	Forested	
Urban Residential	□ Recrea ional	Urban Residential	Recreational	UUrban Residential	Recreational	
	Other 0	🗖 Industrial	□ Other		D Other	
Gommercial	a several all a las	Commercial		Commercial		

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

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

Fish Barrier

Survey Basin Code:			Date	7-21		
Name of Stream: WIL	NOT		Assessed Ru	· 1211	TA	
Reach Code: 101-0	1-4		Assessed by		1.1	
Designated Stream Type:						
Site ID:	<u></u>					
She iD.	Make All O	servation	Eacing Dou	In Ciraam		
Location of Barrier: Marl	and label the location	of the bar	is on the man	nd provide a bui	Education - Cal	- 1 f
the barrier relative to roads or ot	her landmarks.	of the barr	ter on the <u>map</u> a	na provide a bri	er description of the	e location of
C 3/4 r	the in					
Type of Barrier: Mark the	ype of fish barrier.				1	
🙇 Dam	🛱 Culvert		U Velocity	Barrier	□ Other	
Dam Data: Provide all relev	ant data.					
Height of Dam: 40 ft.   L	ength of Spillway	: 10 ft.	Shape of Spi	llway: 🖾 Str	aight Cres	cent
Materials:  Stone	Concrete		one & Concre	te 🛛 🗆 Tim	ber-Crib 🛛 🖾 🕻	Other LARTHO
Is there other infrastruct	ure associated wit	h the Da	m? ENO [	Yes (If yes r	nark the type below	v)
	lydro Facility			Residence	🛛 🗆 Othe	r
Gulvert Data: Provide all re	levant data.					
Type of Culvert:	D Box	Pipe		Dipe-Ard	h 🗆 Are	ch
Culvert Material:	Concrete	Corru	gated Metal	D Plastic		ne
Culvert Outlet:	Perched:	ft.	🗆 Ramped		Submerge	d
Culvert Size:	Diameter: 3	ft.	Height:	ft.	Width:	ft.
# of Culverts:	Culvert Length:	IND ft.				
Vil. the Devil Director		10				
Velocity Barrier Data: P	rovide all relevant data				<u> </u>	
Nature of Barrier:	Grade Control Sill		crete Apron		Cross-Section	U Other
Length of Barrier:	ft. Approx	. Vertica	I Rise:	tt.		
Notes: Use the space provi	ided to record impo	ortant obs	ervations othe	nvise not can	tured on this she	aat
	laca to record impo	num 003	ervations othe	I WISC NOT Cap	tured on this she	
				-		
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61	JUN T	CRHIL				हि
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	/	5	31	All	- KI	a
/		X	5	UP I		_
		2	~			
				- 1	Develo	pped By CT-NRCS

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Trash / Debris

Survey Basin Code:		Date:	7-21	
Name of Stream: N	NILMOT	Assessed	d By: Bit 7k	
Reach Code:	WLBY			
Designated Stream Ty	/pe:			
Site ID:				
	Make All O	bservations Facing $D$	ownstream	
Location / Extent of	Trash or Debris: Mar	rk and label the location of	f the trash or debris on the ma	ap and provide a brief
description of the location	relative to roads or other	landmarks.		
1	RNH THAG	ugito 1 -		
Within Stream	Riparian Are	ea: Ly/Left Bank L	PRight Bank	
Type	P Desidential	Commercial		
Type: Motorial:				D Other
	Paper	Z Metal	Automotive	
	$\square$ Yard Waste	Construction		
Source:		K Flooding	Illegal Dumning	🗍 Local Outfall
Land Ownership:	Private			<u>a botal outlan</u>
				·
Notes: Use the space	provided to record im	portant observations of	otherwise not captures of	n this sheet.
	*			
		MARAN TI	F VOLINOV 7	
Morry	cut		and addition of the	
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2	C+ 115			
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9				

Storm Water Outfall

Survey Basin Code:	Date: 7-21	
Name of Stream: WILMOT	Assessed By: BH TA	
Reach Code: WLG4		
Designated Stream Type:		
Site ID:		
Make All Obs	servations Facing Downstream	

Location of Outfall: Right Bank ALEft 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:	<u> Pi</u> Pi	ре	□ Leak Off			Channel			
Flow:		one	🖾 Trickle			Moderate		Subs	antial
Odor:	<b>D</b> N	one	□ Sewage			Rancid / Sour		Sulfu	r (rotten eggs)
Deposits / Stains	<b>D</b> N	one	Sedimer	nt Delta		Oily Stain		Black	(10000000000000)
Benthic Growth	Z N	one	Brown			Green		Oran	ge
Pipe Data: Provide a	ll rele	vant data.						oran	5
Pipe Material:		Concrete	Corrug	ated Meta	al	□ Plastic			Other
<b>Contributing Source</b>	e(s):	Road	🛛 🗆 Parking	g Lot		🗆 Other	ΠU	nknov	vn
Pipe Outlet:		Perched	I ft.	🛛 Ramı	bed			t Strea	am Level
Pipe Size:		Diameter: 1.5	ft.						
# of Pipes:		<u> </u>							
Leak-Off Data: Prov	ide al	relevant data.				ALL CONTRACTOR			
Leak-Off Swale:		Concrete	Asphalt		☐ Stone			Earthen	
<b>Contributing Source</b>	e (s):	□ Road	D Parking	Lot	Recreational Field		ield	d 🗆 Other	
Length of Swale:	ft.								
Width of Swale:	ft.							_	
<b>Channel Data:</b> Provi	de all	relevant data.					1		1. See
Channel Material:		Concrete	□ Asphalt		TC	1 Stone			arthen
<b>Contributing Source</b>	e (s):	🗆 Road 🛛	Parking Lot DR		ecre	ational Field		)ther	Unknown
Channel Length:	ft.				T		<u> </u>		
Channel Width:	ft.							_	
									<u>_</u>

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

# Modified Channel

Survey Basin Code:	Date:	7-21		
Name of Stream: INICM-T	Assesse	d By: BH	TA	
Reach Code: WCB 4				
Designated Stream Type:				
Site ID:				
Make All Obse	rvations Facing L	ownstream		
Location / Extent of Modified Channel: Mark	and label the locatio	n of the modified ch	annel on the man	and provide
brief description of the location of the channel section re	elative to roads or oth	er landmarks.	uniter on the map	and provide
THEOUGH	1. 9.5.	1 7.1	a Un' -	TAIL
CULVERT & LARGE TSER	(W) Erailae	n Man	9 90	1.1.1
LARGE IMPO	NUNIMENT			
Mark where channel modification occurs:				
□ Meander Bend X Straight Section	1 🗆 Steep	Slope/Valley W	all 🛛 Other	
Estimate length of channel modification:	b⊄ ft.		· · · · · · · · · · · · · · · · · · ·	
Estimate height of bank modification:	ft.			
Type of Manipulation: D Channelization	Dank Arma			E out
Extent of Manipulation: Exchange Rank	L Bank Armo		ete Channel	
Channel / Bank Materials:  Natural	Rin Ran		Cabions	
onumer / Bunt Praterials. E Hatura			I Gabions	
Immediately Adjacent Land Use: Mark the land	nd use(s) immediately	adjacent to the mod	lified section.	
□ Rural Residential □ Urban Resident	ial 🛛 Com	mercial	<b>E</b> Forested	
Suburban Residential Industrial	🔄 🛛 🖉 Agrie	cultural	🗆 Recreati	onal
Existing Width of Dinarian Vagatation: Mad	- 4h			
$\Box < 15 \text{ ft}$ $\Box 15 - 35 \text{ ft}$	t the average width of	riparian vegetation	to the modified se	ection.
	<u> </u>			
Is there a change in the average width of the ac	tive channel?	🛛 Yes / Estim	ate Width: 3 ft	I 🗆 No
Is there evidence of sediment deposition in the	channel?	□ Yes		🗵 No
Is the channel connected to a floodplain?		Yes Dr		🗆 No
Notes: Use the space provided to report impor	tent obcomunitions	othomulas not on		1
Tioles. Ose the space provided to record impor	tant observations	otherwise not ca	plures on this s	neet
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			Dev	eloped By CT-

January 2008





Reach Level Assessment

Company Destin	Cal							_	
Survey Basin Code:						ie(s): 7/	23/1	5	h 1/2
Name of Stre	am:	WILMI			Ass	sessed By:	AB,	re	
Reach Code:	++=== 7	NLBS							
Designated S	tream	Type:				D	-	-	
		-	Make All Ob	servations	Facir	ng Downst	rean	1	
Was the entir	e reach	of stream	surveyed? C	Yes 💢	No, Y	Sorry ,	n(s) w	ere not	surveyed? Why?
<b>Channel</b> Mo	rpholo	gy: Mark th	e predominate o	condition(s).	and in	dicate the avera	ige mea	suremen	its.
□ Step-Pool		Pool-Riffl	e DRun	Glid	e	* Manipu	lated (	Channe	(piped lined etc.)
Active Chann	nel Wid	th:			Gli	de Depth:	8"		
Riffle Depth:	5"	/			Ster	p Height:	~		
Pool Depth:	8	-11			Bar	k Height (Ri	ght Ba	ink):	11/2
Run Depth:					Bar	nk Height (Le	eft Bar	(k):	11/2-
	_		_						
Substrate Co	mposi	tion: Mark	approximate pe	rcentages for	each	substrate type c	bserved	1.	
Silt or Clay	_	12 <5%	□ 5-25%	25-509	% [	<u>50-75%</u>	□ >75%		
Sand		□ <5%	□ 5-25%	25-509	% Ç	<b>X</b> -50-75%	□ >75%		
Gravel (0.1-2 i	inches)	□ <5%	<u>⊠</u> .5-25%		% [	<b>50-75%</b>		75%	
Cobble (2-10 i	nches)	□ <5%	<b>A</b> 5-25%	□ 25-509	% [	50-75%		75%	
Boulder (>10	inches)	¥ <5%	□ 5-25%	25-50%	% [	<b>50-75%</b>		75%	
Bedrock		□ <5%	5-25%		% [	3 50-75%		75%	
Describe Wa	ter Co	nditions	Mark all that an		-			-	
Declear	$\square$ Sta	ined ("iced	tea")	אַק ארד דער און און און און און און און און און און	rhid (	muddy / silty)		Area	of Concern Worksheets
* Green		ustv-Red	(cu)	* 🗆 Mil	lkv	muddy / sinty )		comp	eted for this reach assessment
*  Odors	*□ 0	ther (foam, o	lves chemicals)		incy.		1		Erosion
			<u> </u>						Fish Barrier X
Aquatic Plan	its in S	tream:						Storn	n Water Outfall
Floating: (e.g.	duck we	eed) 0 A	bsent 🖾 II	n Spots	* <b>D</b> E	Everywhere		Mo	dified Channel
Attached: (e.g	. water l	ily) 🛛 🗆 A	bsent 🛛 🖾 II	n Spots	* <b>D</b> E	Everywhere		Б	mpacted Buffer X
Algae in Stre	am.								Trash / Debris
Floating: (e.g.	nlanktor	$\overline{nic}$ $\Box$ A	bsent D I	1 Snots	* 🗂 F	Everywhere		W	ater Conditions
Attached: (e g	filamer	(100)	bsent 1991	1 Spots		Everywhere		and the	
						<u>Svery where</u>	ł		
Canopy Cov	er: Ma	rk approxima	te percentage of	stream cove	red by	/ tree canopy.			
□ >75% cove	ered	□ 75-50%	covered 🛛 🗖	50%-25%	cove	red $\square < 2$	5% co	vered	
Note: Ite	ms mar	ked with a inform	n asterisk (*) ation on the a	indicate a ppropriate	poten Area	ntial area of c of Concern	oncerr Works	1. Plea heet(s)	se record all relevant

### 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	Low	Low	☐ Moderate	☐ Moderate	🗖 High	🗆 High					
Grass	Low Low	Low	🖾 Moderate	Moderate	🛛 High	🗆 High					
Shrubs	Low	Low	☐ Moderate	□ Moderate	🖾 High	🖾 High					
Deciduous Trees	Low	Low	<b>Moderate</b>	Moderate	🗆 High	🗖 High					
Coniferous Trees	Low Low	Low	☐ Moderate	☐ Moderate	🗆 High	🗆 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 stre	am	> ¼ Mile from stream		
C Rural Residential	Agricultural	Rural Residential	Agricultural	Rural Residential	Agricultural	
Suburban Residential	Forested	Suburban Residential	Forested	Suburban Residential	Forested	
Urban Residential	Recreational	Urban Residential	Recreational	Urban Residential	Recreational	
Industrial	□ Other	Industrial	Other	Industrial	□ Other	
Commercial		Commercial		Commercial		

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

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

Fish Barrier

Survey Pasin Code		Deter	- 1-2/10		
Name of Stroom:	L OL MART	Date:	+125115	167	6
Reach Code	NUMO	Assessed By:	AD FE		
Designated Stream Type:	<u>VBS</u>				
Site ID-					
Sile ID.	Make All Observation	ne Facing Downe	du a man		
Location of Barrier: Marl	and label the location of the har	tier on the map and	provide o brief	deceription of the los	ation of
the barrier relative to roads or ot	her landmarks.	NO OF DOACH		LICCOL 2102101	DICE AVE
	NEHE	reach po	TONS DEI	NEEN LUEU	100110
	Ano Gi	EDEU PU.			
Type of Barrier: Mark the	ype of fish barrier.				
Dam Dam		🛛 🖾 Velocity Ba	rrier	Differ DP16	D POND
D. D					Non-
Dam Data: Provide all relev	ant data.	Share of S-ille			
Matariala D Stone	Length of Spillway: It.	Snape of Spillw	ay: L Strai	ignt L Crescent	
Is there other infrastruct	ure associated with the De	$\frac{1}{m^2} \square No \square \square$			<u>.</u>
	lydro Facility		<u>1 CS (If yes ma</u> Posidonoo	$\frac{1}{10000000000000000000000000000000000$	
			<u>Xesiuence</u>		
Gulvert Data: Provide all re	levant data.	and the strategy of	an a sherini a sherini a sherini a sherini a sherini a sherini a sherini a sherini a sherini a sherini a sherin	Sparter and the second	
Type of Culvert:	Box Pipe	[	□ Pipe-Arch	🗆 Arch	
Culvert Material:	Concrete Corru	gated Metal	Plastic	□ Stone	
Culvert Outlet:	Perched: ft.	Ramped		□ Submerged	
Culvert Size:	Diameter: ft.	Height:	ft.	Width:	ft.
# of Culverts:	Culvert Length: ft.				
Velocity Barrier Data: P	rovide all relevant data.			a Relation of	
Nature of Barrier:	Grade Control Sill    Cor	crete Apron	Channel C	ross-Section	] Other
Length of Barrier:	ft. Approx. Vertica	al Rise: f	ì.		
Notes: Use the space prov	ided to record important obs	ervations otherw	ise not captu	red on this sheet.	
- 9100	CERCAN AND PAND	BETWEEN	TWO	STRATIULS	en=
DETED	Stearner die 10	-	·		- I
THE	PEACH				
· ·					
)					
				Developed	By CT-NRCS
					January 2008

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Storm Water Outfall

Survey Basin Code:	Date: 7/23/15
Name of Stream: WILMOT	Assessed By: AB PF
Reach Code: INLBS	
Designated Stream Type:	
Site ID:	
Make A	II Observations Facing Downstream
Location of Outfall: KRight Bank	Left Bank Mark and label the location of the outfall on the man and provide a
brief description of the location of the outfall rela	tive to roads or other landmarks.

4 COLVERTS

	1								
Outfall Type:	Pi 🖓 Pi	ре	Leak Of	ff	🗖 Channel				
Flow:	M N	one	Trickle		□ Moderate		□ Substantial		antial
Odor:	🗗-N	one	□ Sewage			Rancid / Sour		Sulfu	r (rotten eggs)
Deposits / Stains	2-N	one	🛛 Sedimer	nt Delta		Oily Stain		Black	(
Benthic Growth	12 None		Brown			Green		Oran	2e
Pipe Data: Provide a	ll rele	vant data.	Contraction of the second	1				<b>C</b> I III	
Pipe Material:		Concrete	Corrug	ated Meta	ıl	🖾-Plastic		团(	Other
<b>Contributing Source</b>	e(s):	🖾 Road	D Parking	g Lot		Other UNIN		nknov	vn
Pipe Outlet:		A Perched	ft.	🛛 Ramı	bed			t Strea	m Level
Pipe Size:		Diameter: 4	¹⁾ ft.				-		
# of Pipes:							□3+ 萬4		
								T	
Leak-Off Data: Prov	vide al	relevant data.							1.
Leak-Off Swale:		Concrete	Asphalt		□ Stone			Earthen	
<b>Contributing Source</b>	e (s):	Road	□ Parking	Lot		Recreational F	ield		her
Length of Swale:	ft.		¥						
Width of Swale:	ft.				-				
Channel Data: Provi	ide all	relevant data.							
<b>Channel Material:</b>		Concrete	□ Asphalt			Stone		DEa	rthen
<b>Contributing Source</b>	e (s):	□ Road □	Parking Lo	t 🗆 R	ecre	ational Field		ther	
Channel Length:	ft.								
Channel Width:	ft.								
		·							

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

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Degraded Buffer

Survey Basin (	Code:				Date:		7123	115			
Name of Stream	ואי :u:	LMOT			Assessed By: AB R-F						
Reach Code:	<u>U</u>	JLB5					1.4.1			_	
Designated Str	eam Type	:									
Site ID:								_		_	
		Make	All Ob	servatio	ne Facing D	owr	stre	m			· · · · · · · · · · · · · · · · · · ·
Location / Extent of Degraded Buffer: 1) Mark and label the location of the degraded buffer on the <u>map</u> . 2) Briefly describe the location of the site relative to roads or other landmarks. IN FIRST BEND OF THEREACH, LEFT BANK											
Mark where t	he degra	ded buffer o	ccurs.						_		
Meander Be	nd	🗆 🗆 Straig	ht Secti	on	Steep Slo	pe/\	/alley '	Wall	🗆 Otl	ner	
🗷 Left Bank					Estimate ler	igth -	of degr	aded	buffer: 100	0 1	ft.
🗆 Right Bank					Estimate ler	ngth	of degr	aded	buffer:	f	ft.
L oft Bank:	idation:	RIMini	malVa	otation		-1.337	: ما ما م			- 4 -	
Dight Donk: El Minimal Vegetatio			getation		$\frac{a}{a}$ W	idin Idin		ivasive Pla	nts		
Right Dank.	-		mai ve	getation		al w	ומנה		ivasive Pla	nts	L Other
Dominate	Paved	Bare Ground	Tur	E/	Tall Grass	Scr	ub / Sh	rub	Trees		Other
Land Cover			Law	'n							
Left Bank				Ø.							
Right Bank			_								
Immediately	Adiacont	Land Use: 1	And the	Innd una(	····						1
Left Bank:		Residential	viark the		s) immediately	aojaci al		e modi	ried section.		Forested
	28-Subu	rban Residen	tial		ustrial	<u> </u>		riculti	ural	믐	Recreational
<b>Right Bank:</b>		Residential			oan Residenti	al		nmer	rial		Forested
5	🗆 Subu	rban Residen	tial		ustrial			ricultu	iral		Recreational
Existing Widt	h of Rip:	rian Vegeta	tion: M	ark the av	verage width of	ripari	an veget	ation to	the modifie	d sect	tion.
Left Bank:		15 ft.	<u>Ц 15 -</u>	<u>- 35 ft.</u>		<u>0 ft.</u>		<u> </u>	100 ft		> 100 ft
Right Bank:	<u> </u>	<u>15 ft.</u>	<u> </u>	- 35 ft.		0 ft.	<u>  L</u>	<u> </u>	• 100 ft		> 100 ft
Notes: Use the	space pr	ovided to rec	ord imp	ortant o	bservations of	ther	wise no	ot can	ures on thi	s she	et



C

Reach Level Assessment

Survey Basin Code:			1	Date(s) -	23/15	145-1200
Name of Stream:	LUCN	NIT		Assessed By:	AB NE	H-13 - 1 [77]
Reach Code:	WILB 9	50		100000000000000000000000000000000000000	HIS IPP	
Designated Stream 7	Type:					
	N	Jake All Obs	ervations Fa	ing Down	stream	
Was the entire reach	of stream si	urveved? V	Yes DN	o. Which sect	ion(s) were not s	surveyed? Why?
	or strouth o			o, minen seo		arveyea. miy.
		- (				
<b>Channel Morpholo</b>	gy: Mark the	predominate co	ndition(s), an	d indicate the av	erage measurement	s.
🗆 Step-Pool 🛛 🖾	Pool-Riffle	🗆 Run	Glide	*🗆 Mani	pulated Channel	(piped, lined, etc.)
Active Channel Wid	th:			Glide Depth:-	-	
Riffle Depth:  "				Step Height <del>.</del>		
Pool Depth: 6	1		1	Bank Height (	Right Bank): <	5
Run Depth:				Bank Height (	Left Bank):	5 M
Substrate Composi	tion: Mark	annovimata nam	antanas for a	ach substata tur	a absorbed	
Silt or Clay			□ 25-50%		$\square > 75\%$	
Sand	$\square < 5\%$	M 5-25%	□ 25-50%	$\Box 50-75\%$	□ >75%	
Gravel (0.1-2 inches)	1 <5%	5-25%	25-50%	□ <u>50-75%</u>	□ >75%	
Cobble (2-10 inches)	□ <5%	$\Box$ 5-25%	□ 25-50%	<b>50-75%</b>	□ >75%	
Boulder (>10 inches)	□ <5%	⊠-5-25%	□ 25-50%	□ 50-75%	□ >75%	
Bedrock	☑ <5%	5-25%	□ 25-50%	□ 50-75%	□ >75%	
Deserit - Weter Co		4 1 11 4				
Describe water Co	nditions: N	Aark all that app	ly. I≭⊡ T…u	1.4.7. 1.1.4.4.	Area	of Concern Worksheets
	ined ( iced	tea )		Id (muddy / silt	y) inc	iteate # and type of sheets
*N Odors *K O	ther (form d	uec chemicols)		. <u>y</u>		Emsion
	thet (Ioani, u	yes, chemicals)				Fish Barrier
Aquatic Plants in S	tream:				Storm	Water Ouffall
Floating: (e.g. duck we	eed) 🛛 A	bsent 🗹 In	Spots *	🗆 Everywhei	e Mo	dified Channel
Attached: (e.g. water l	ily) 🛛 A	bsent 🛛 In	Spots *	Everywhen	e In	apacted Buffer
Algae in Stream	<u> </u>		· · ·			Trash / Debris
Floating: (e.g. plankto		hsent I 🗖 In	Spots 1*		Wa	tter Conditions
Attached: (e.g. filame	$(100)$ $\Box \Lambda$	bsent KI In	Spots *			
			opus		<u> </u>	
Canopy Cover: Ma	irk approximat	te percentage of	stream covere	d by tree canop	/.	
$\square >75\%$ covered $\square$	₫ <u>75-50%</u> с	covered 🛛	50%-25% c	overed 🛛 🖓	< 25% covered	
Note: Items ma	rked with or	nasterick (*) i	indicate a n	ntential area o	f concern Plan	e record all relevant
roto, nonio illa	informa	tion on the ar	propriate A	rea of Conce	m Worksheet(s)	o record all reicyall
the second second second second second second second second second second second second second second second se		and an and ab	Laberton Y			and the second second

#### 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	Low	Low	□ Moderate	Moderate	🗆 High	- High			
Grass	Low	Low	D Moderate	□ Moderate	🗆 High	□ High			
Shrubs	Low	Low	☐ Moderate	☐ Moderate	🗆 High	High			
Deciduous Trees	Low	Low	D Moderate	☐ Moderate	<b>L</b> High	High High			
Coniferous Treex	Low	Low	□ Moderate	☐ Moderate	DHigh	High			

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

Immediately adjacent to stream		< 1/4 Mile from stre	am	> 1/1 Mile from stream		
Rural Residential	□ Agricultural	Rural Residential	Agricultural	Rural Residential	C Agricultural	
Suburban Residential	A Forested	Suburban Residential	Forested	E Siburban Residential	Forested	
Urban Residential	Recreational	Urban Residential	Recreational	Urban Residential	Recreational	
🗖 Industrial	Other	Industrial	□ Other	Industrial	D Other	
Commercial		Commercial		Commercial		

Areas of Concern Checklist: Marking "Yes" to any of the following questions indicates that an Area of	Concern W	orksheet				
should be filled out for the appropriate concern. For each occurrence observed, complete and area of concern sh	eet.					
Is there evidence of either stream bank erosion or streambed instability within the reach?						
Are there any dams or any other possible natural or artificial barriers to fish migration?	1 Yes	🗆 No				
Are there any storm water outfalls, discharge pipes or discharges within the reach? Indicate	Yes	D No				
the number observed:						
Is there any portion of the channel that has been modified (not culvert) (channeled, piped, rip	Yes	🗆 No				
rap)?	1					
Is there any portion of the reach where the riparian buffer has been compromised or is	🗆 Yes	M No				
nonexistent?						
Is there any portion of the reach that contains trash or other debris (cars, appliances, construction	□ Yes	<b>No</b>				
waste)?		/				
Is there any portion of the reach that has a change in water conditions?	Yes	🗆 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 Assess	ment Worksl	heet			
					Fish B	arrier
	<u></u>					
Survey Basin Code:		Date: –	2123115			
Name of Stream: IN	LMOT	Assessed By:	ABL	<u>e</u>		
Reach Code: WL	BSA					
Designated Stream Type:						
Site ID:						
	Make All Observatio	ons Facing Dowr	nstream			
the barrier relative to roads or of	k and label the location of the bar ther landmarks. AULTIPLE, THROUGH	Tier on the map and	d provide a brief	description	n of the locatic	on of
Type of Barrier: Mark the	type of fish barrier.					-
Dam	Culverts	Velocity B	Barrier	🖬 Othe	F WOODY	EBRI
	1				BLOCK	AGE.
Dam Data: Provide all relev	vant data.	29 NY 13		Bre Sugar and	Contract of Sector Sector	1
Height of Dam: ft. I	Length of Spillway: ft.	Shape of Spill	lway: 🗆 Stra	ight 🛛	Crescent	
Materials:  Stone		tone & Concrete	e 🛛 🗆 Timb	er-Crib	Other	
Is there other infrastruct	ure associated with the Da	am? 🗆 No 🛛	] Yes (If yes ma	ark the type	e below)	
□ Factory □ F	Iydro Facility D Mill		Residence		Other	
Culvert Data: Provide all re	levant data.			7/200	Conception of	-
Type of Culvert:	Box N. Pipe		D Pipe-Arch		Arch	
Culvert Material:	Sconcrete Scorr	ugated Metal	Plastic			
Culvert Outlet:	Perched: ft.	Ramped		VZL Subr	nerged	
Culvert Size:	Diameter: 1-2 ft	Height: 2-	S ft.	Width:	0-8	ft
# of Culverts:	Culvert Length: ft.					11.
Velocity Barrier Data: P Nature of Barrier: Length of Barrier:	rovide all relevant data. Grade Control Sill	ncrete Apron	Channel C ft.	Cross-Sec	tion C	Other
Notes: Use the space prov	ided to record important ob	servations other	wise not captı	ured on th	is sheet.	
- LACK OF	WATER IN AREAS N	FAR COLVER	TS MADE	IT D	IFFICULT	70
KNOW IF T	HE CULVERTS WOULD R	SE PERMAN	NENT BAI	rpigns,	117 1000	
	E OF FISHRARDIER	S DUE TO	> ABSENCI	EOF	WATER	THE
PRIMARY CHU						
PRIMARY CAUS	HES OF REACH			/		
PRIMARY CAUS MANY STRETCH		ILAL FISH	BARRER	4		
PRIMARY CAUS MANY STRETCH - WOODY DEBR	IS FORMED NATU					
PRIMARY CAUS MANY STRETCH - WOODY DEBR	IS FORMED NATU					
PRIMARY CAUS MANY STRETCH - WOODY DEBR	IS FORMED NIATI					
PRIMARY CAUS MANY STRETCH - WOODY DEBR	IS FORMED NATI					

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Storm Water Outfall

Survey Basin Code:				Date:	-	7/2 +10-			
Name of Stream:	Jun	T Romante		Assessed	By	AD 05			
Reach Code:	NLR	E A		10000000		na me			
Designated Stream T	ype:			-	_		-		
Site ID:					-				
		Make All (	Observation	s Facing I	Dow	nstream			
Location of Outfall:	दि R	ight Bank 🗆 Le	ft Bank Ma	rk and label	the	location of the ou	tfall o	n the man and provide a	
brief description of the lo	cation o	of the outfall relative	to roads or ot	her landma	rks.		tiun o	in the map and provide a	
l - off	large	calver - 2	fr drame	1 == (s+	Tec	+) - comera	fe		
2 ~ how	se J	Brainage ( Gni	hers)						
		3 - /							
	1	-			-				
Outfall Type:	D Pi	pe	Leak Of	ff		Channel			
Flow:	🖾 N	one 2 small	🖬 Trickle	(Large of		Moderate	E	Substantial	
Odor:	🗵 N	one	□ Sewage			Rancid / Sour	E	Sulfur (rotten eggs)	
<b>Deposits / Stains</b>	⊠ N	one	Sedimer	nt Delta	□ Oily Stain			Black	
Benthic Growth	ΒN	one	Brown		Green Green		C	Orange	
Pipe Data: Provide a	ll rele	vant data.						P	
Pipe Material:		1 - Concrete	Corrug	ated Meta	ป	D Plastic		Other 🗆	
Contributing Source	e(s):	图 Road	□ Parking Lot		🖾 Other 🛛 🖸			Jnknown	
Pipe Outlet:		Perched	ft.	🗆 Ramp	ped		SKA	At Stream Level	
Pipe Size:		Diameter:	<u>z</u> ft.						
# of Pipes:				2			₩3	+	
Leak-Off Data: Prov	ide al	relevant data.				All I want			
Leak-Off Swale:		Concrete	□ Asphalt			Stone		Earthen	
Contributing Source	<u>e (s):</u>	Road Road	D Parking	Lot		Recreational F	ield	□ Other	
Length of Swale:	<u>ft.</u>								
Width of Swale:	ft.								
Channel Data: Provi	de all	relevant data.			÷.,				
Channel Material:		Concrete	Asphalt			Stone		Earthen	
Contributing Source	: (s):	Road D	Parking Lo	t 🗆 R	ecre	ational Field		Other 🛛 Unknown	
Channel Length:	ft.		. <u></u>						
Channel Width:	ft.								

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

Modified Channel

Survey Basin Code:		Date:	7/23/15		
Name of Stream: WI	LMOT	Assessed	By: AB P	E	
Reach Code: WL	BSTA				
Designated Stream Type:					
Site ID:					
	Make All Observat	tions Facing $Dc$	ownstream		
Location / Extent of Mod brief description of the location GND OF PGACH	ified Channel: Mark and of the channel section relativ . AND MVUTIPL	I label the location ve to roads or other E TIMES	of the modified chan landmarks. TH RovG4cor	nel on the <u>map</u> a REACY	nd provide a
Mark where channel more	dification occurs:				
S-Meander Bend	Straight Section	□ Steep :	Slope/Valley Wa	II D Other	
Estimate length of chann	el modification: 400	ft.			
Estimate height of bank i	modification: 5	ft.			
Type of Manipulation:	Channelization	Bank Armori		e Channel	[] Other
<b>Extent of Manipulation:</b>	ScRight Bank	Left Bank		Bottom	
Channel / Bank Material	s: 🖾 Natural 🛛 🖪	Rip Rap	Concrete 0	Gabions [	] Metal
Immediately Adjacent La	and Use: Mark the land us	se(s) immediately a	diacent to the modif	ied section	
Rural Residential	Urban Residential		ercial	☐ Forested	
🗆 Suburban Residential	Industrial	🗆 🗆 Agricu	ltural	Recreatio	nal
Existing Width of Rinaria	an Vegetation. Mark the	overage width of a	inguing segretation to	the medified as	**
⊠<15 ft. □ 1	$5 - 35$ ft. $\Box 35$	5 - 50 ft.	$\Box$ 50 – 100 ft	$\square > 10$	100 ft
Is there a change in the ave	rage width of the active	e channel?	De Yes / Estimat	e Width: 7 ft	□ No
Is the channel connected to	ent deposition in the cha	innel?			M No
is the channel connected to					MLNo
Notes: Use the space provi	ided to record important	t observations of	therwise not capt	ures on this sh	eet.
CHANNEL IS	MODIFIED AFTO	ER CULVENT	. GOES FRO	M SMALL	THICKLE
To comp	LETELY DRY				
CULVERTST	EPOUTE STREA	M UNDER	GOLF COUR	LSE	
			•		

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

Name of Stre Reach Code: Designated S Site ID: Location / E on the map. 2	am: אונש אובאק tream Type: xtent of Visual	ot Reook A. Mäk		Assessed By: AB 2			
Reach Code: Designated S Site ID: Location / E on the <u>map</u> . 2	אנראק אנרפא Type: אtent of Visual	A. Māl					
Designated S Site ID: Location / E on the map. 2 S had	stream Type:	Mat					
Site ID: Location / E on the map. 2	xtent of Visual	Mak					
Location / E on the <u>map</u> . 2 Sm.	xtent of Visual	Mak					
Location / E on the <u>map</u> . 2 Sho	xtent of Visual	++++++++	e All Observati	ons Facing Downstream			
	eriefly describ	PATH 10 FT	f the site relative	to roads or other landmarks.	RT - LAP	GE PGO	L
Immediately	Adjacent Lan	d Use: Mark	the land use(s)	immediately adjacent to the	modified sectio	on.	
LI Rural Residential		Urban Residential		Commercial E Fo		orested	
Suburban Residential		📙 Industrial		🛛 Agricultural		ational	
Aquatic Plan Floating: (e.g Attached: (e. Algae in Str Floating: (e.g	ered Q75-: nts in Stream: g. duck weed) g. water lily) eam:	Absent	□ In Spots	icovered     icovered     icovered       icovered     icovered     icovered       icovered     icovered     icovered       icovered     icovered     icovered       icovered     icovered     icovered       icovered     icovered     icovered       icovered     icovered     icovered       icovered     icovered     icovered       icovered     icovered     icovered	vered		
Attached: (e. filamentous)	g.	□ Absent	In Spots				
Is the change storm water	in water condi outfall?	tion or excessi	ve plant / algae	growth located at or directly	y below a	🗆 Yes	🗹 No
Is the change channel dime	in water condi ensions (depth d	tions or excess & width)?	sive plant / algae	growth associated with a c	hange in	E Yes	
Is the change in water conditions or excessive plant / algae growth associated with an impoundment / dam on the stream?					Yes		
Notes: Use t	he space provid	ed to record in	nportant observa	ations otherwise not capture	s on this sheet		
PEFI	F- TO PI	totos. Sow	IE STRANG	ALGAL GROWN	+ ? NOT SO	UPE,	