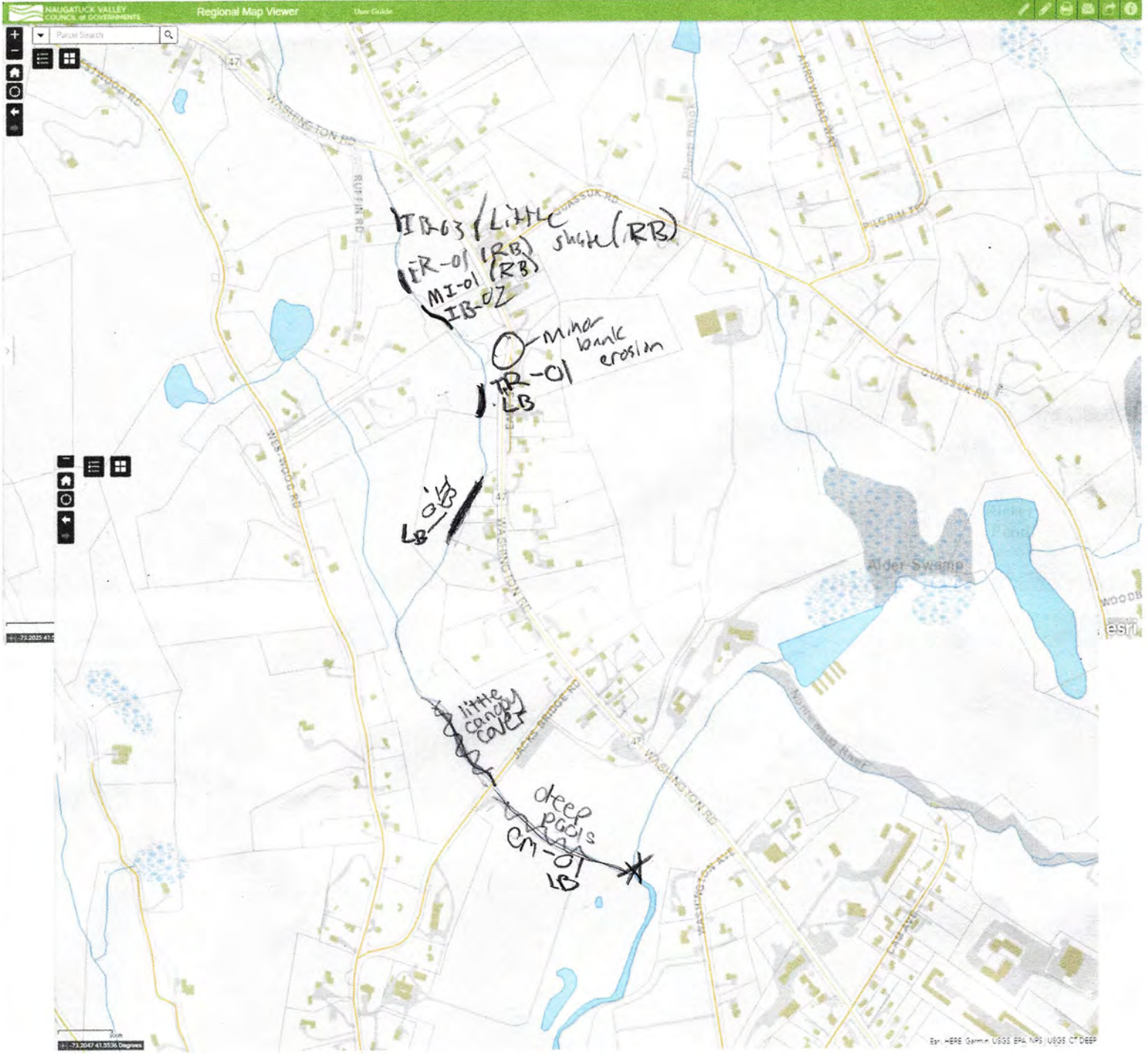


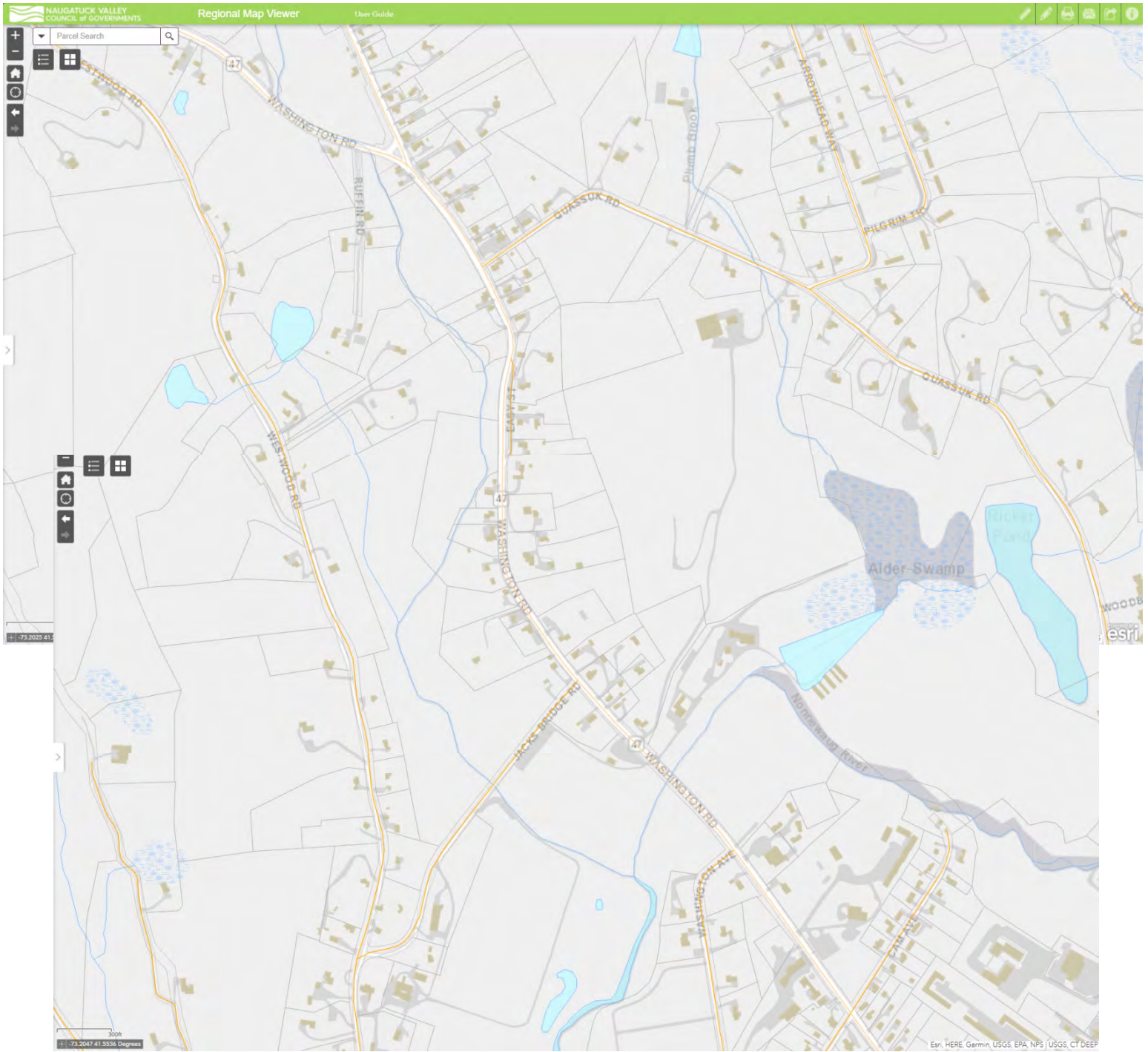
## **APPENDIX C**

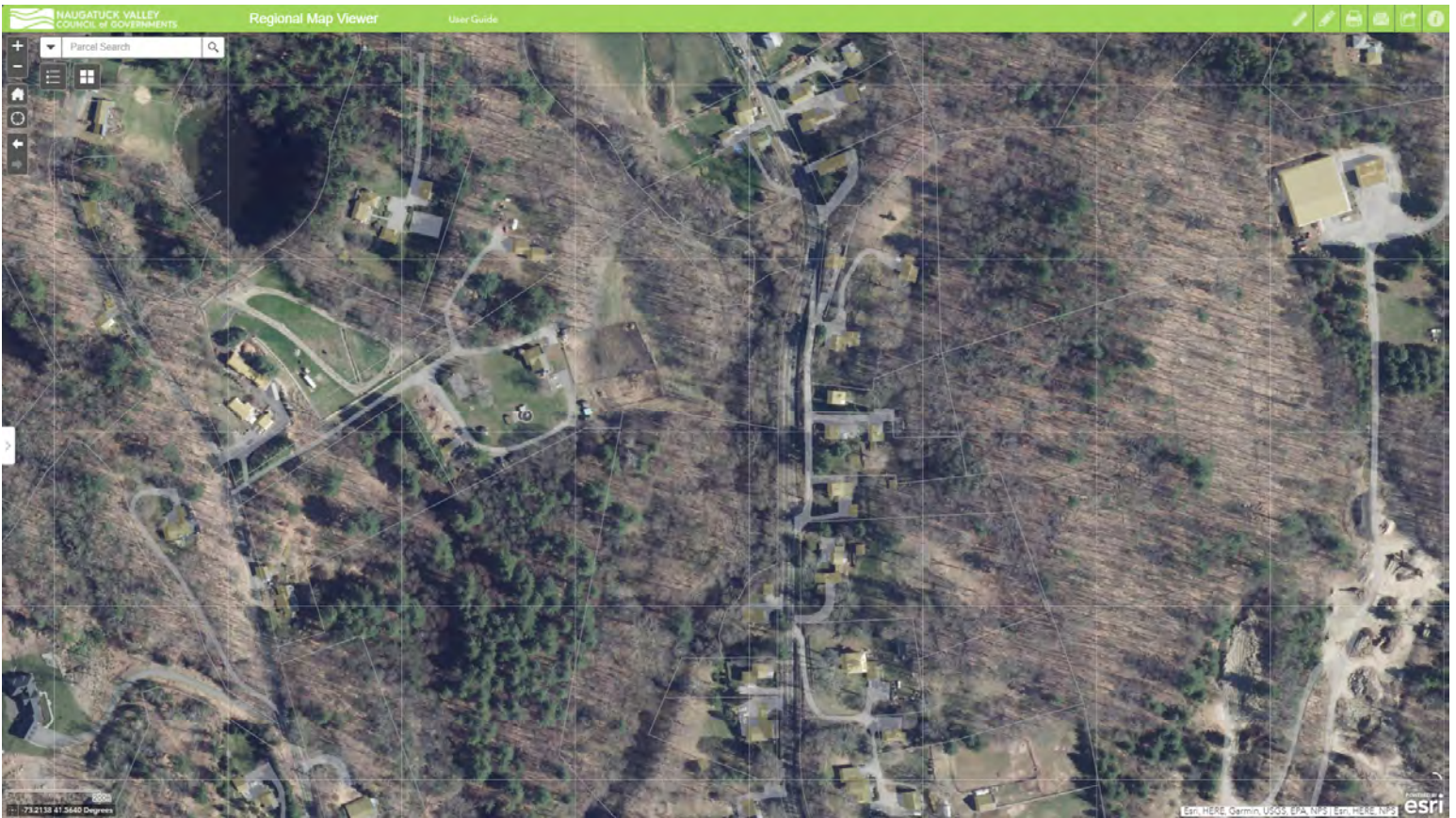
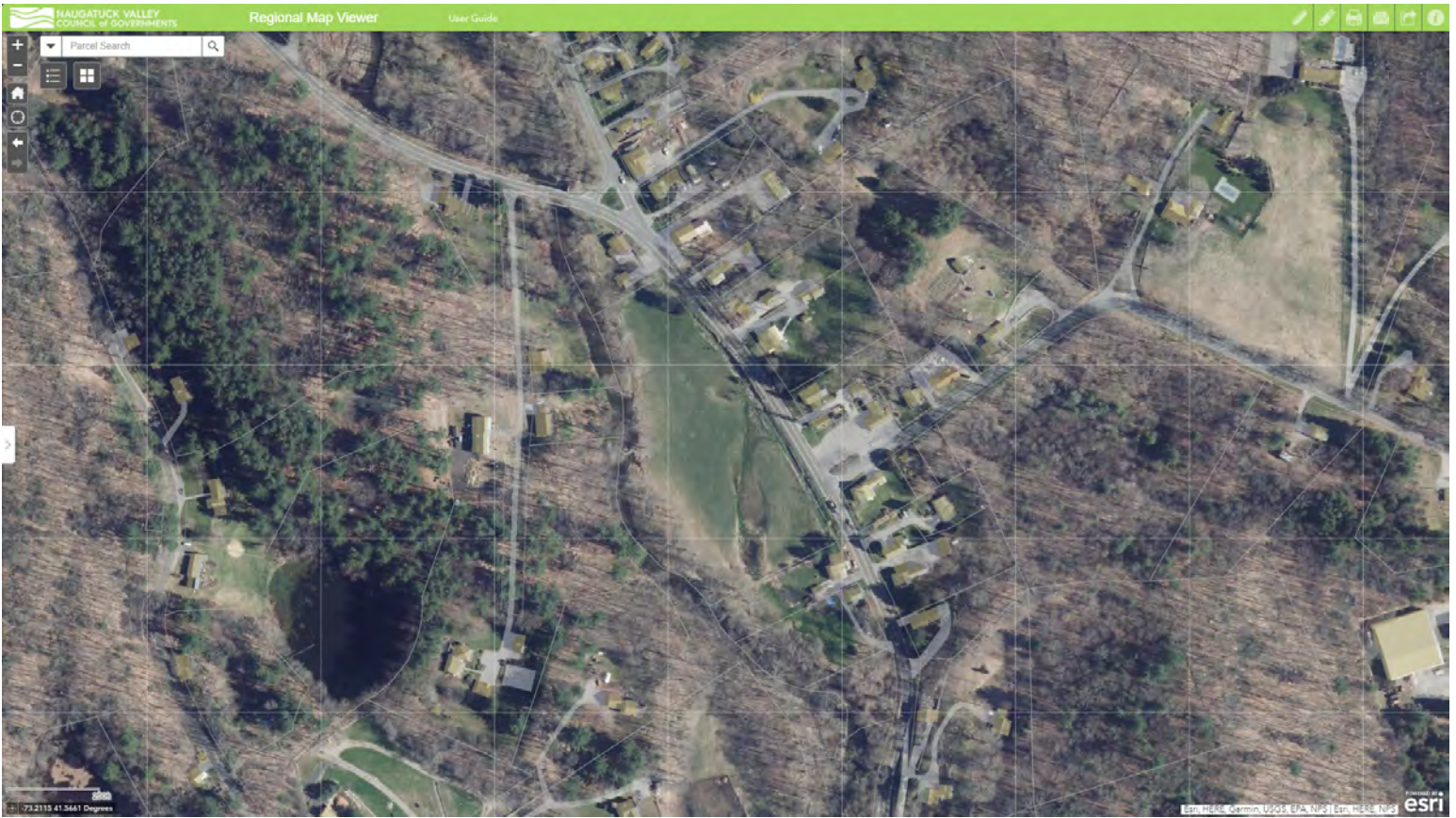
***Streamwalk Assessment Survey  
Completed Field Data Sheets, Reach Map Notes, & Field Notebook Entries  
for Weekepeemee River, Bethlehem and Woodbury, CT***

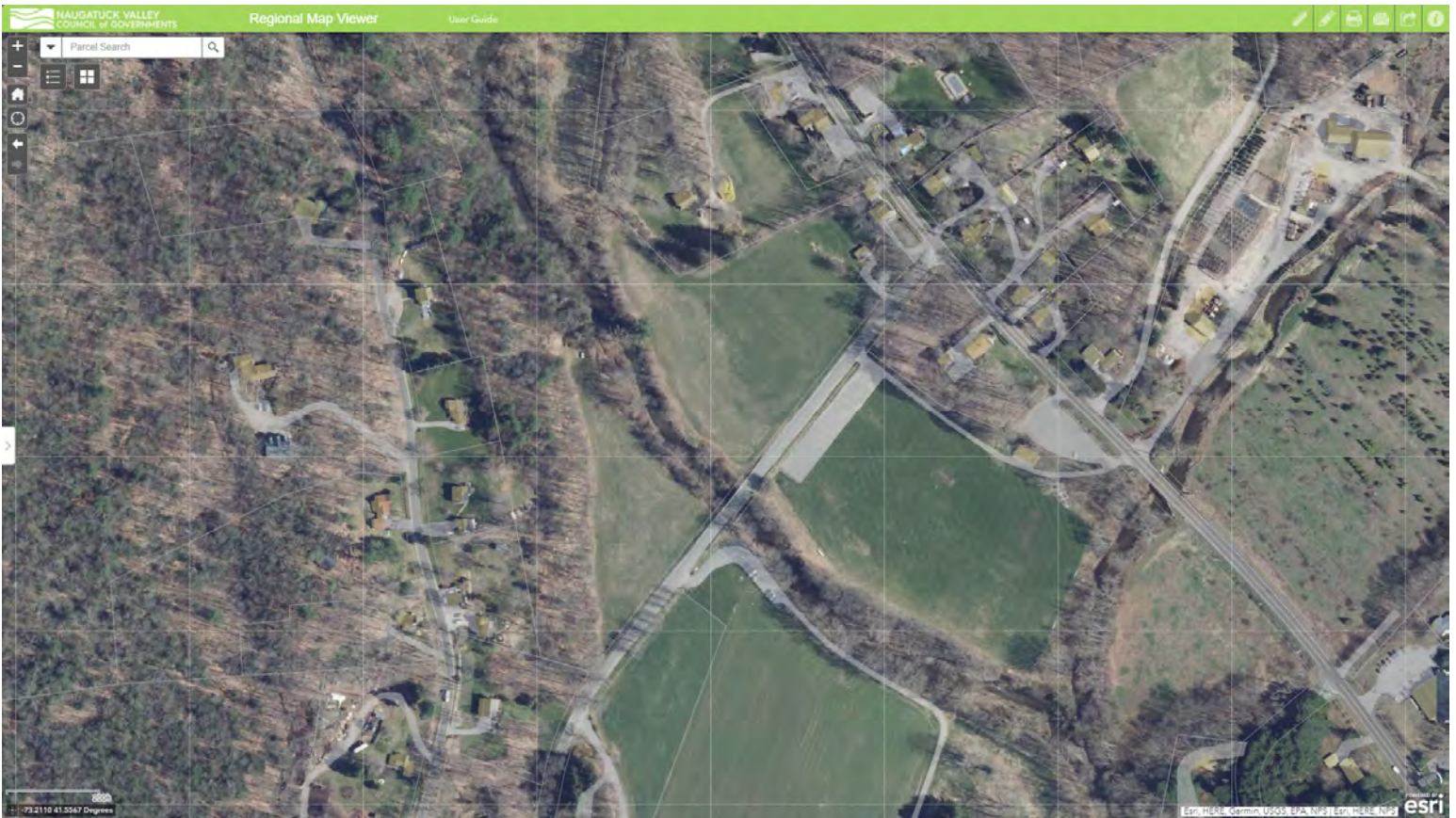
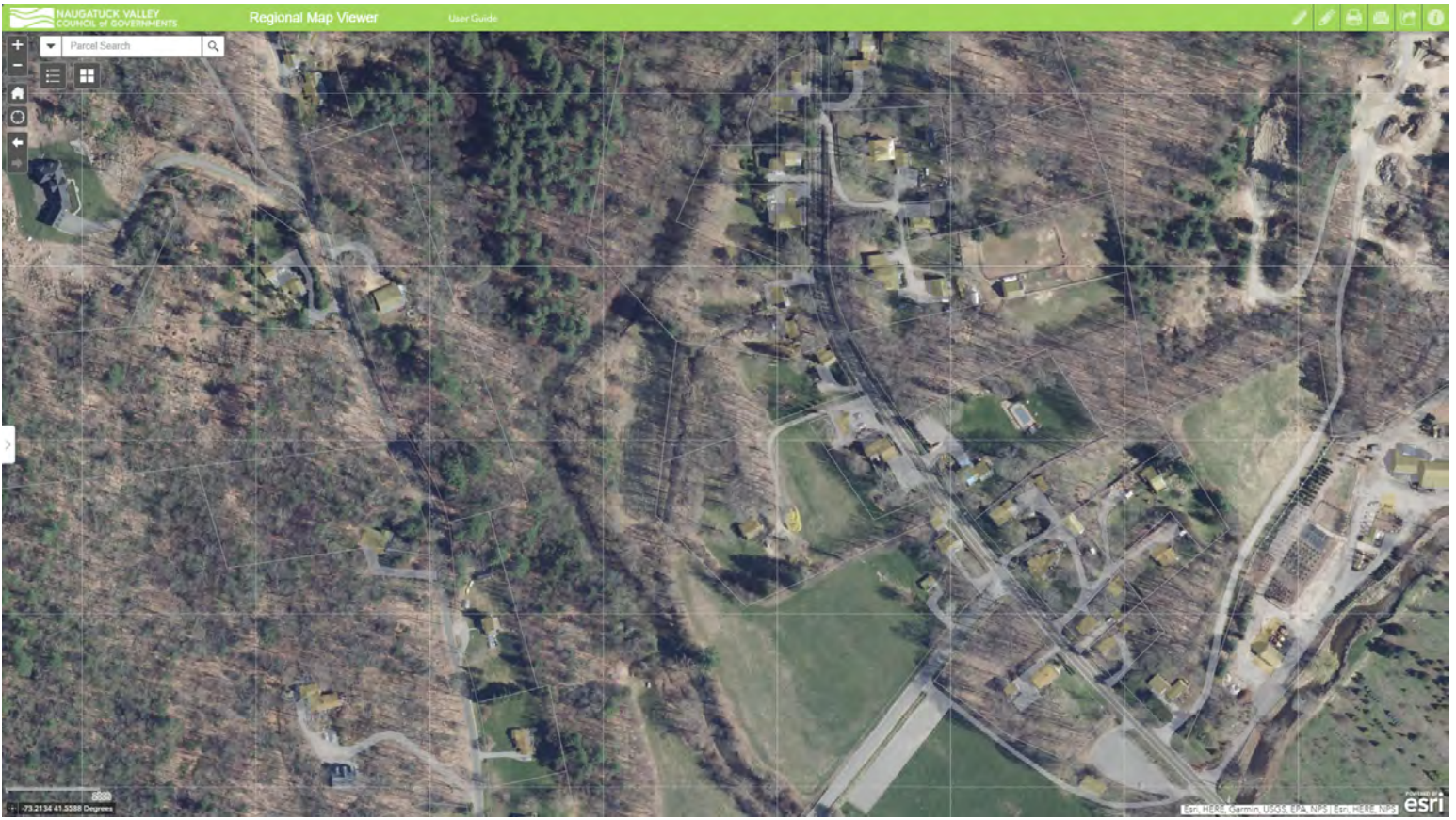
Reach 1 – Three Rivers Park (from confluence with Nonnewaug) to Route 47 (Hotchkissville) Bridge



# Reach 1 – Three Rivers Park (from confluence with Nonnewaug) to Route 47 (Hotchkissville) Bridge





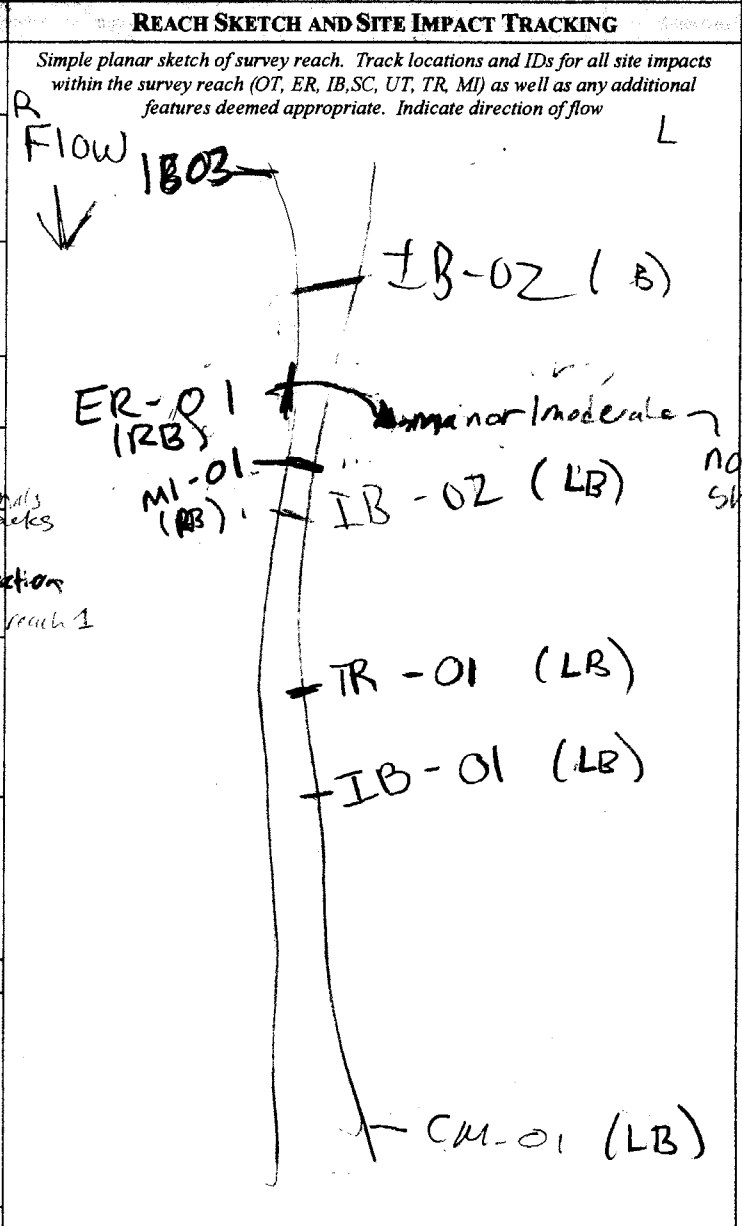




<b>SURVEY REACH ID:</b> 01	<b>WTRSHD/SUBSHD:</b> Weekeepee	<b>DATE:</b> 7/23/21	<b>ASSESSED BY:</b> CH, PB, SO, SK, HK
<b>START TIME:</b> 10:40 AM/PM	<b>LMK:</b> 002	<b>END TIME:</b> 1:54 AM/PM	<b>LMK:</b> 013
<b>LAT:</b> 41°55'59.2" N	<b>LONG:</b> -73°21'29.59" W	<b>LAT:</b> 41°56'74.1" N	<b>LONG:</b> -73°21'9.13" W
<b>DESCRIPTION:</b> at the intersection of the nonnewaug and Weekeepee Rivers		<b>DESCRIPTION:</b> route 47 Hobokenville Bridge	

<b>RAIN IN LAST 24 HOURS</b>	<input type="checkbox"/> Heavy rain	<input type="checkbox"/> Steady rain	<input checked="" type="checkbox"/> None	<input type="checkbox"/> Intermittent	<input type="checkbox"/> Trace
<b>PRESENT CONDITIONS</b>	<input checked="" type="checkbox"/> Clear	<input type="checkbox"/> Trace	<input type="checkbox"/> Overcast	<input type="checkbox"/> Partly cloudy	
<b>SURROUNDING LAND USE:</b>	<input type="checkbox"/> Industrial	<input type="checkbox"/> Commercial	<input type="checkbox"/> Urban/Residential	<input type="checkbox"/> Suburban/Res	<input type="checkbox"/> Forested
	<input type="checkbox"/> Golf course	<input type="checkbox"/> Park	<input type="checkbox"/> Crop	<input type="checkbox"/> Pasture	<input type="checkbox"/> Other:

AVERAGE CONDITIONS (check applicable)	
<b>BASE FLOW AS %</b>	<input type="checkbox"/> 0-25% <input checked="" type="checkbox"/> 50%-75% <input type="checkbox"/> 75-100%
<b>CHANNEL WIDTH</b>	<input type="checkbox"/> 25-50% <input type="checkbox"/> 75-100%
<b>DOMINANT SUBSTRATE</b>	<input type="checkbox"/> Silt/clay (fine or slick) <input checked="" type="checkbox"/> Cobble (2.5-10") <input type="checkbox"/> Sand (gritty) <input type="checkbox"/> Boulder (>10") <input type="checkbox"/> Gravel (0.1-2.5") <input type="checkbox"/> Bed rock
<b>WATER CLARITY</b>	<input checked="" type="checkbox"/> Clear <input type="checkbox"/> Turbid (suspended matter) <input type="checkbox"/> Stained (clear, naturally colored) <input type="checkbox"/> Opaque (milky) <input type="checkbox"/> Other (chemicals, dyes)
<b>AQUATIC PLANTS IN STREAM</b>	Attached: <input type="checkbox"/> none <input checked="" type="checkbox"/> some <input type="checkbox"/> lots Floating: <input checked="" type="checkbox"/> none <input type="checkbox"/> some <input type="checkbox"/> lots
<b>WILDLIFE IN OR AROUND STREAM</b>	(Evidence of) <input type="checkbox"/> Fish <input type="checkbox"/> Beaver <input checked="" type="checkbox"/> Deer <input type="checkbox"/> Snails <input checked="" type="checkbox"/> Other: Small mammals tracks
<b>STREAM SHADING (water surface)</b>	<input type="checkbox"/> Mostly shaded (≥75% coverage) <input type="checkbox"/> Halfway (≥50%) <input type="checkbox"/> Partially shaded (≥25%) <input checked="" type="checkbox"/> Unshaded (<25%) upper section lower half of reach 1
<b>CHANNEL DYNAMICS</b>	<input checked="" type="checkbox"/> Downcutting <input type="checkbox"/> Widening <input type="checkbox"/> Headcutting <input type="checkbox"/> Aggrading <input type="checkbox"/> Sed. deposition <input checked="" type="checkbox"/> Bed scour <input type="checkbox"/> Bank failure <input type="checkbox"/> Bank scour <input type="checkbox"/> Slope failure <input type="checkbox"/> Channelized
<b>CHANNEL DIMENSIONS (FACING DOWNSTREAM)</b>	Height: LT bank _____ (ft) RT bank _____ (ft) Width: Bottom _____ (ft) Top _____ (ft)



REACH ACCESSIBILITY		
<b>Good:</b> Open area in public ownership, sufficient room to stockpile materials, easy stream channel access for heavy equipment using existing roads or trails.	<b>Fair:</b> Forested or developed area adjacent to stream. Access requires tree removal or impact to landscaped areas. Stockpile areas small or distant from stream.	<b>Difficult:</b> Must cross wetland, steep slope, or sensitive areas to get to stream. Few areas to stockpile available and/or located a great distance from stream. Specialized heavy equipment required.

**NOTES:** (biggest problem you see in survey reach)

- channelization in the lower portion

- disconnection from the flood plain

**REPORTED TO AUTHORITIES**  Yes  No

OVERALL STREAM CONDITION																				
		Optimal					Suboptimal					Marginal					Poor			
<b>IN-STREAM HABITAT</b> <i>(May modify criteria based on appropriate habitat regime)</i>	Greater than 70% of substrate favorable for epifaunal colonization and fish cover; mix of snags, submerged logs, undercut banks, cobble or other stable habitat and at stage to allow full colonization potential (i.e., logs/snags that are <u>not</u> new fall and <u>not</u> transient).																			
	20 19 18 17 16					15 14 13 12 11					10 9 8 7 6					5 4 3 2 1 0				
<b>VEGETATIVE PROTECTION</b> <i>(score each bank, determine sides by facing downstream)</i>	More than 90% of the streambank surfaces and immediate riparian zone covered by native vegetation, including trees, understory shrubs, or nonwoody macrophytes; vegetative disruption through grazing or mowing minimal or not evident; almost all plants allowed to grow naturally.																			
	Left Bank 10 9					8 7 6					5 4 3					2 1 0				
	Right Bank 10 9					8 7 6					5 4 3					2 1 0				
<b>BANK EROSION</b> <i>(facing downstream)</i>	Banks stable; evidence of erosion or bank failure absent or minimal; little potential for future problems. <5% of bank affected.																			
	Left Bank 10 9					8 7 6					5 4 3					2 1 0				
	Right Bank 10 9					8 7 6					5 4 3					2 1 0				
<b>FLOODPLAIN CONNECTION</b>	High flows (greater than bankfull) able to enter floodplain. Stream not deeply entrenched.																			
	20 19 18 17 16					15 14 13 12 11					10 9 8 7 6					5 4 3 2 1 0				
OVERALL BUFFER AND FLOODPLAIN CONDITION																				
		Optimal					Suboptimal					Marginal					Poor			
<b>VEGETATED BUFFER WIDTH</b>	Width of buffer zone >50 feet; human activities (i.e., parking lots, roadbeds, clear-cuts, lawns, crops) have not impacted zone.																			
	Left Bank 10 9					8 7 6					5 4 3					2 1 0				
	Right Bank 10 9					8 7 6					5 4 3					2 1 0				
<b>FLOODPLAIN VEGETATION</b>	Predominant floodplain vegetation type is mature forest																			
	20 19 18 17 16					15 14 13 12 11					10 9 8 7 6					5 4 3 2 1 0				
<b>FLOODPLAIN HABITAT</b>	Even mix of wetland and non-wetland habitats, evidence of standing/ponded water																			
	20 19 18 17 16					15 14 13 12 11					10 9 8 7 6					5 4 3 2 1 0				
<b>FLOODPLAIN ENCROACHMENT</b>	No evidence of floodplain encroachment in the form of fill material, land development, or manmade structures																			
	20 19 18 17 16					15 14 13 12 11					10 9 8 7 6					5 4 3 2 1 0				
Sub Total In-stream: 58 /80 + Buffer/Floodplain: 47 /80 = Total Survey Reach 105 /160																				



WATERSHED/SUBSHED: <u>Wekkepeeme</u>		DATE: <u>7/23/21</u>	ASSESSED BY: <u>CH, HP, HK</u>
SURVEY REACH ID: <u>01</u>	TIME: <u>11:02</u> AM/PM	PHOTO ID: (Camera-Pic #)	# <u>1</u>
SITE ID: (Condition-#) CM- <u>01</u>	START LAT <u>41° 55' 674"</u>	LONG <u>73° 21' 407"</u>	LMK <u>03</u>
	END LAT <u>41° 55' 776"</u>	LONG <u>73° 21' 558"</u>	LMK <u>04</u>
GPS: (Unit ID)			

TYPE:  Channelization  Bank armoring  concrete channel  Floodplain encroachment  Other:

<b>MATERIAL:</b> <input type="checkbox"/> Concrete <input type="checkbox"/> Gabion <input type="checkbox"/> Rip Rap <input checked="" type="checkbox"/> Earthen <input type="checkbox"/> Metal <input type="checkbox"/> Other:	Does channel have perennial flow? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<b>DIMENSIONS:</b> Height: <u>8.4</u> (ft) Bottom Width: <u>33.8</u> (ft) Top Width: <u>60.7</u> (ft) Length: <u>600</u> (ft)
	Is there evidence of sediment deposition? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
	Is vegetation growing in channel? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
	Is channel connected to floodplain? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	

<b>BASE FLOW CHANNEL</b> Depth of flow <u>2.6</u> (in) Defined low flow channel? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No % of channel bottom <u>100</u> %	<b>ADJACENT STREAM CORRIDOR</b> <sup>+</sup> Available width LT <u>500</u> (ft) RT <u>500</u> (ft) Utilities Present? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Fill in floodplain? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
--	--

POTENTIAL RESTORATION CANDIDATE  Structural repair  Base flow channel creation  Natural channel design  Can't tell

no  De-channelization  Fish barrier removal  Bioengineering

<b>CHANNELIZATION SEVERITY:</b> (Circle #)	A long section of concrete stream (>500') channel where water is very shallow (<1" deep) with no natural sediments present in the channel.	A moderate length (> 200') ,but channel stabilized and beginning to function as a natural stream channel. Vegetated bars may have formed in channel.	An earthen channel less than 100 ft with good water depth, a natural sediment bottom, and size and shape similar to the unchannelized stream reaches above and below impacted area.
	5	4	3

NOTES:

- Some armoring present, 48 ft on the right bank, midway in the channelized stretch
- exposed roots on the right bank the entire channelized stretch
- evidence of berm along the cornfield on rt bank





WATERSHED/SUBSHED: <u>Weekapeemee</u>		DATE: <u>7/23/21</u>	ASSESSED BY: <u>CH, PA, SG, SK, HK</u>
SURVEY REACH: <u>01</u>		TIME: <u>12:17</u> <u>AM</u> /PM	PHOTO ID: (Camera-Pic #) <u>        </u> /# <u>2</u>
SITE ID: (Condition-#) <u>IB-01</u>	START	LAT <u>41:56.096"</u> LONG <u>-73:21.671"</u>	LMK <u>06</u>
	END	LAT <u>41:56.132"</u> LONG <u>-73:21.642"</u>	LMK <u>07</u>

IMPACTED BANK:  LT  RT  Both

REASON INADEQUATE:  Lack of vegetation  Too narrow  Widespread invasive plants  
 Recently planted  Other:

LAND USE: Private Institutional Golf Course Park Other Public

(Facing downstream) LT Bank

RT Bank     : Forested

DOMINANT LAND COVER: Paved Bare ground Turf/lawn Tall grass Shrub/scrub Trees Other

LT Bank

RT Bank

INVASIVE PLANTS:  None  Rare  Partial coverage  Extensive coverage  unknown

STREAM SHADE PROVIDED?  None  Partial  Full WETLANDS PRESENT?  No  Yes  Unknown

POTENTIAL RESTORATION CANDIDATE  Active reforestation  Greenway design  Natural regeneration  Invasives removal

no  Other:

RESTORABLE AREA	REFORESTATION POTENTIAL: (Circle #)	Impacted area on public land where the riparian area does not appear to be used for any specific purpose; plenty of area available for planting	Impacted area on either public or private land that is presently used for a specific purpose; available area for planting adequate	Impacted area on private land where road; building encroachment or other feature significantly limits available area for planting
		5	4	3

Length (ft): LT 100 BANK RT n/a

Width (ft): 50 n/a

POTENTIAL CONFLICTS WITH REFORESTATION  Widespread invasive plants  Potential contamination  Lack of sun

Poor/unsafe access to site  Existing impervious cover  Severe animal impacts (deer, beaver)  Other: none

NOTES:

- 3 houses on left bank with lawn mowed to bank edge
- healthy tree (sycamores) along right bank with other vegetation
- Shrub layer needed



WATERSHED/SUBSHED: <u>Week</u>		DATE: <u>7 / 23 / 21</u>	ASSESSED BY: <u>CH, PP, SK, SO, HK</u>	
SURVEY REACH ID: <u>01</u>		TIME: <u>12:38</u> AM/PM	PHOTO ID: (Camera-Pic #) <u>cell phone #</u>	
SITE ID: (Condition-#) <u>TR-01</u>		LAT <u>41° 56' 33.6"</u> LONG <u>73° 21' 57.4"</u>	LMK <u>08</u> GPS: (Unit ID)	
<b>TYPE:</b> <input type="checkbox"/> Industrial <input type="checkbox"/> Commercial <input checked="" type="checkbox"/> Residential	<b>MATERIAL:</b> <input checked="" type="checkbox"/> Plastic <input type="checkbox"/> Tires <input type="checkbox"/> Appliances <input type="checkbox"/> Automotive <input type="checkbox"/> Paper <input type="checkbox"/> Construction <input type="checkbox"/> Yard Waste <input type="checkbox"/> Other:	<b>SOURCE:</b> <input type="checkbox"/> Unknown <input checked="" type="checkbox"/> Flooding <input type="checkbox"/> Illegal dump <input type="checkbox"/> Local outfall	<b>LOCATION:</b> <input type="checkbox"/> Stream <input checked="" type="checkbox"/> Riparian Area <input checked="" type="checkbox"/> Lt bank <input type="checkbox"/> Rt bank	<b>LAND OWNERSHIP:</b> <input type="checkbox"/> Public <input type="checkbox"/> Private <input checked="" type="checkbox"/> Unknown <u>ROW</u> <b>AMOUNT (# Pickup truck loads):</b> <u>1</u>
<b>POTENTIAL RESTORATION CANDIDATE</b> <input checked="" type="checkbox"/> Stream cleanup <input type="checkbox"/> Stream adoption segment <input type="checkbox"/> Removal/prevention of dumping <input type="checkbox"/> no <input type="checkbox"/> Other:				
If yes for trash or debris removal	<b>EQUIPMENT NEEDED :</b> <input type="checkbox"/> Heavy equipment <input type="checkbox"/> Trash bags <input checked="" type="checkbox"/> Unknown <u>hand tools</u>		<b>DUMPSTER WITHIN 100 FT:</b> <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Unknown	
	<b>WHO CAN DO IT:</b> <input checked="" type="checkbox"/> Volunteers <input type="checkbox"/> Local Gov <input type="checkbox"/> Hazmat Team <input type="checkbox"/> Other			
<b>CLEAN-UP POTENTIAL:</b> (Circle #)	A small amount of trash (i.e., less than two pickup truck loads) located inside a park with easy access	A large amount of trash, or bulk items, in a small area with easy access. Trash may have been dumped over a long period of time but it could be cleaned up in a few days, possibly with a small backhoe.	A large amount of trash or debris scattered over a large area, where access is very difficult. Or presence of drums or indications of hazardous materials	
	5	4	3	2
<b>NOTES:</b> -pool liner, can not pick up and carry out with US -Special trip needed				
REPORTED TO AUTHORITIES <input type="checkbox"/> YES <input type="checkbox"/> NO				



WATERSHED/SUBSHED: Weekee DATE: 7/23/2021 ASSESSED BY: CH, PP, SK, 50, 44  
 SURVEY REACH: 01 TIME: 1:10 AM/PM PHOTO ID: (Camera-Pic #) /#  
 SITE ID: (Condition-#) START LAT 41° 56' 45.9" LONG 73° 21' 48" LMK 009 GPS: (Unit ID)  
IB-02 END LAT " " LONG " " LMK "

IMPACTED BANK:  LT  RT  Both REASON INADEQUATE:  Lack of vegetation  Too narrow  Widespread invasive plants  
 Recently planted  Other:

LAND USE: Private Institutional Golf Course Park Other Public  
 (Facing downstream) LT Bank     :  
 RT Bank     :

DOMINANT Paved Bare ground Turf/lawn Tall grass Shrub/scrub Trees Other  
 LAND COVER: LT Bank       :  
 RT Bank       :

INVASIVE PLANTS:  None  Rare  Partial coverage  Extensive coverage  unknown

STREAM SHADE PROVIDED?  None  Partial  Full WETLANDS PRESENT?  No  Yes  Unknown

POTENTIAL RESTORATION CANDIDATE  Active reforestation  Greenway design  Natural regeneration  Invasives removal  
 no  Other:

RESTORABLE AREA	REFORESTATION POTENTIAL: (Circle #)	Impacted area on public land where the riparian area does not appear to be used for any specific purpose; plenty of area available for planting	Impacted area on either public or private land that is presently used for a specific purpose; available area for planting adequate	Impacted area on private land where road; building encroachment or other feature significantly limits available area for planting
		5	4	(3)
Length (ft): <u>700</u> LT BANK RT Width (ft): <u>100</u>				

POTENTIAL CONFLICTS WITH REFORESTATION  Widespread invasive plants  Potential contamination  Lack of sun  
 Poor/unsafe access to site  Existing impervious cover  Severe animal impacts (deer, beaver)  Other:

NOTES:  
 - 3 residential lots with large, open level lawns  
 - Some mature trees along river banks  
 - Could use understory vegetation, such as shrubs w tall grass

WATERSHED/SUBSHED: <u>Weekeepeme</u>		DATE: <u>7/23/2021</u>	ASSESSED BY: <u>CH, PPS, K, S, O, HK</u>	
SURVEY REACH ID: <u>01</u>		TIME: <u>1:20</u> AM/PM	PHOTO ID: (Camera-Pic #) <u>4</u> /#	
SITE ID: (Condition-#) <u>MI-01</u>		LAT <u>   </u> ° <u>   </u> ' <u>   </u> "	LONG <u>   </u> ° <u>   </u> ' <u>   </u> "	LMK: <u>(X)</u> GPS: (Unit ID)
POTENTIAL RESTORATION CANDIDATE <input type="checkbox"/> Storm water retrofit <input type="checkbox"/> Stream restoration <input checked="" type="checkbox"/> Riparian Management <input type="checkbox"/> no <input checked="" type="checkbox"/> Discharge Prevention <input type="checkbox"/> Other:				
DESCRIBE: <u>Goats are present at top of steep slope and we fence in. Slope could use some more understory vegetation. This was on the right bank, 100 feet from the river</u>				
REPORTED TO LOCAL AUTHORITIES <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No				

WATERSHED/SUBSHED:		DATE: ___/___/___	ASSESSED BY:	
SURVEY REACH ID:		TIME: ___:___ AM/PM	PHOTO ID: (Camera-Pic #) /#	
SITE ID: (Condition-#) MI-___		LAT ___° ___' ___"	LONG ___° ___' ___"	LMK: ___ GPS: (Unit ID)
POTENTIAL RESTORATION CANDIDATE <input type="checkbox"/> Storm water retrofit <input type="checkbox"/> Stream restoration <input type="checkbox"/> Riparian Management <input type="checkbox"/> no <input type="checkbox"/> Discharge Prevention <input type="checkbox"/> Other:				
DESCRIBE:				
REPORTED TO LOCAL AUTHORITIES <input type="checkbox"/> Yes <input type="checkbox"/> No				

WATERSHED/SUBSHED:		DATE: ___/___/___	ASSESSED BY:	
SURVEY REACH ID:		TIME: ___:___ AM/PM	PHOTO ID: (Camera-Pic #) /#	
SITE ID: (Condition-#) MI-___		LAT ___° ___' ___"	LONG ___° ___' ___"	LMK: ___ GPS: (Unit ID)
POTENTIAL RESTORATION CANDIDATE <input type="checkbox"/> Storm water retrofit <input type="checkbox"/> Stream restoration <input type="checkbox"/> Riparian Management <input type="checkbox"/> no <input type="checkbox"/> Discharge Prevention <input type="checkbox"/> Other:				
DESCRIBE:				
REPORTED TO LOCAL AUTHORITIES <input type="checkbox"/> Yes <input type="checkbox"/> No				



50, HK

WATERSHED/SUBSHED: WEEK DATE: 7/23/2021 ASSESSED BY: CH, PP, SK

SURVEY REACH: 01 TIME: 1:47 AM/PM PHOTO ID: (Camera-Pic #) LMK011 #

SITE ID: (Condition-#) IB-03 START LAT 41° 56' 26" LONG -73° 21' 58" LMK 011 GPS: (Unit ID)  
 END LAT \_\_\_\_\_ LONG \_\_\_\_\_ LMK 012

IMPACTED BANK:  LT  RT  Both REASON INADEQUATE:  Lack of vegetation  Too narrow  Widespread invasive plants  
 Recently planted  Other:

LAND USE: Private Institutional Golf Course Park Other Public  
 (Facing downstream) LT Bank       
 RT Bank

DOMINANT LAND COVER: Paved Bare ground Turf/lawn Tall grass Shrub/scrub Trees Other  
 LT Bank         
 RT Bank

INVASIVE PLANTS:  None  Rare  Partial coverage  Extensive coverage  unknown

STREAM SHADE PROVIDED?  None  Partial  Full WETLANDS PRESENT?  No  Yes  Unknown

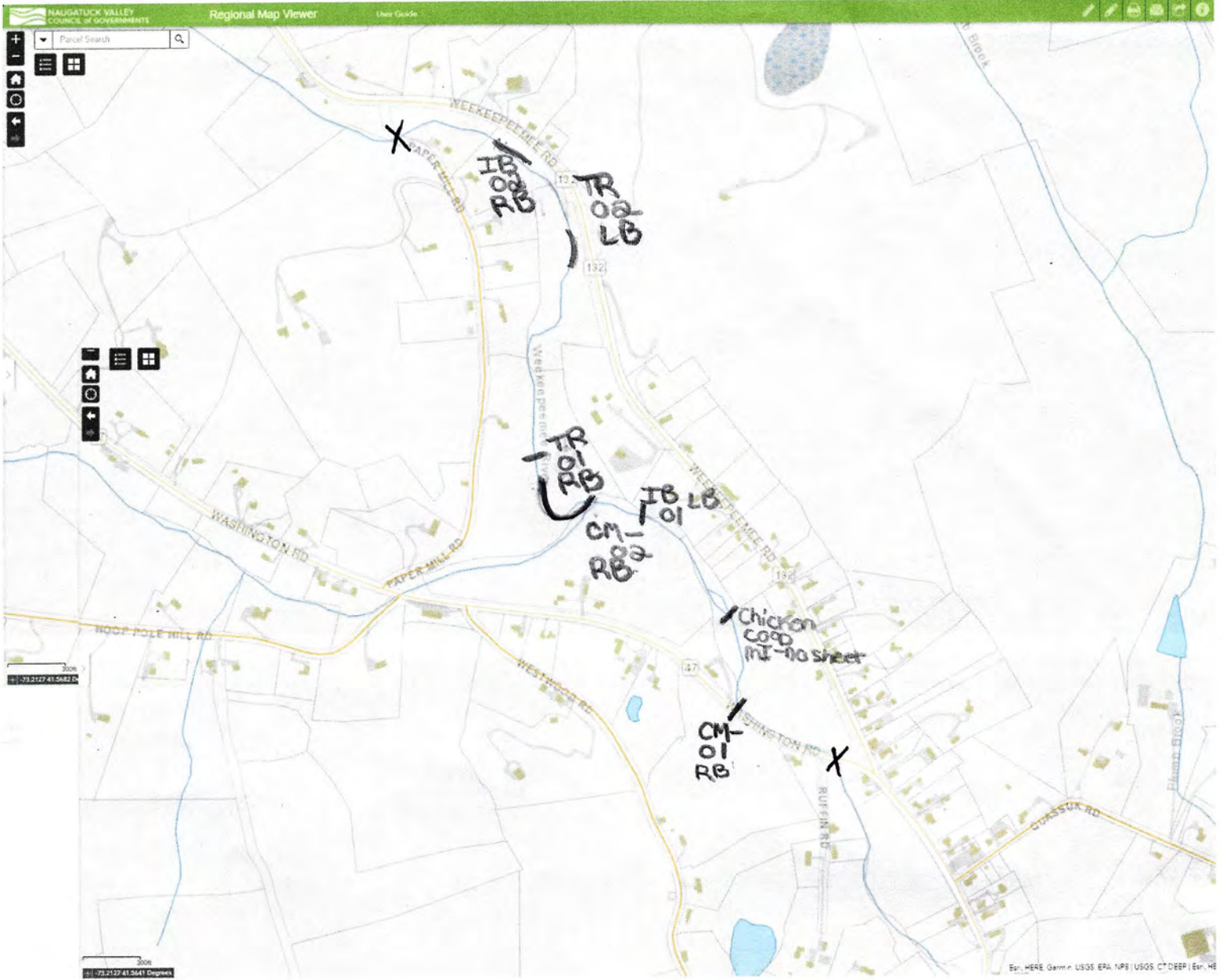
POTENTIAL RESTORATION CANDIDATE  Active reforestation  Greenway design  Natural regeneration  Invasives removal  
 no  Other:

RESTORABLE AREA	REFORESTATION POTENTIAL: (Circle #)	Impacted area on public land where the riparian area does not appear to be used for any specific purpose; plenty of area available for planting	Impacted area on either public or private land that is presently used for a specific purpose; available area for planting adequate	Impacted area on private land where road; building encroachment or other feature significantly limits available area for planting
		5	4	3
Length (ft): <u>150</u> LT BANK RT				
Width (ft): <u>10</u>				

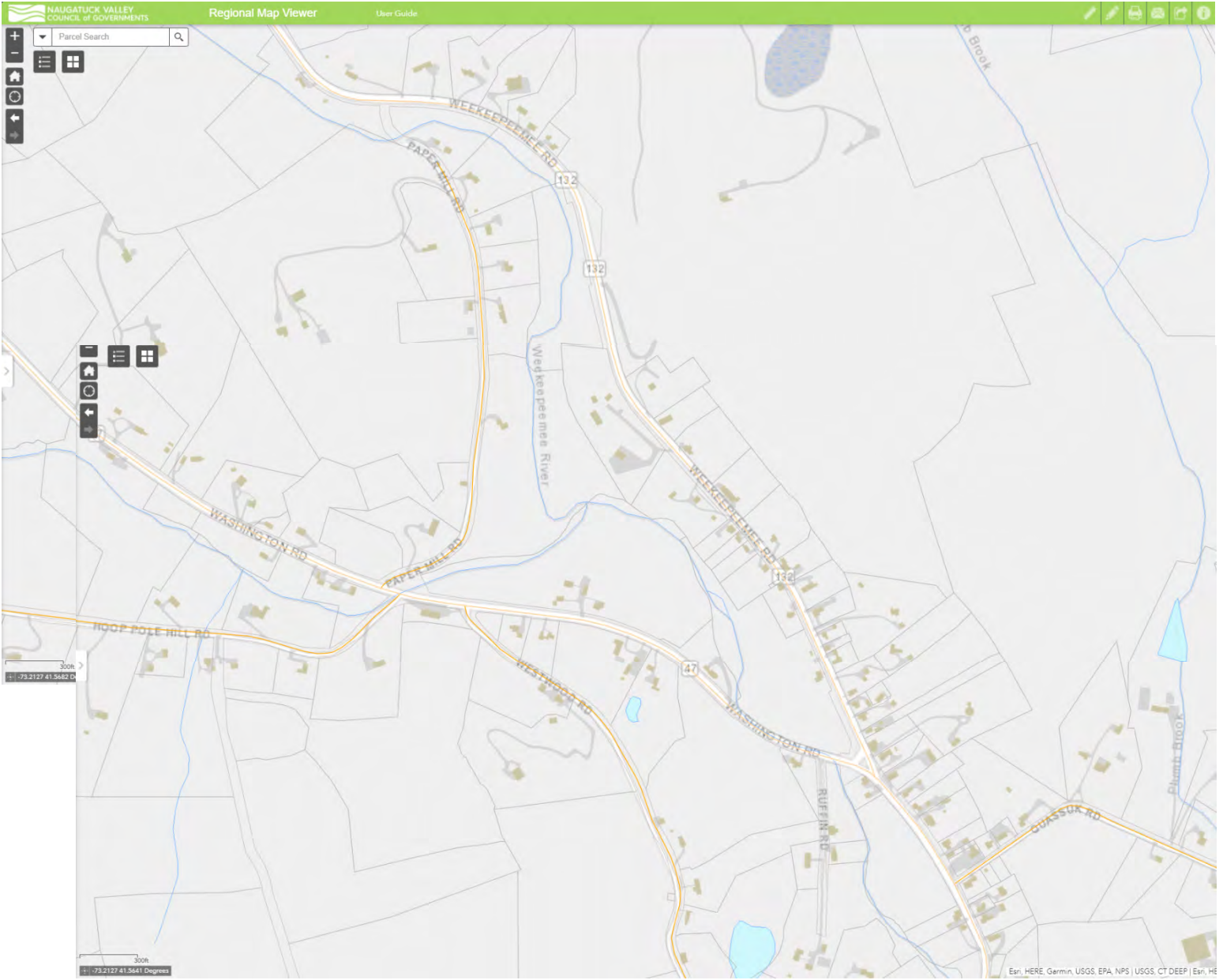
POTENTIAL CONFLICTS WITH REFORESTATION  Widespread invasive plants  Potential contamination  Lack of sun  
 Poor/unsafe access to site  Existing impervious cover  Severe animal impacts (deer, beaver)  Other:

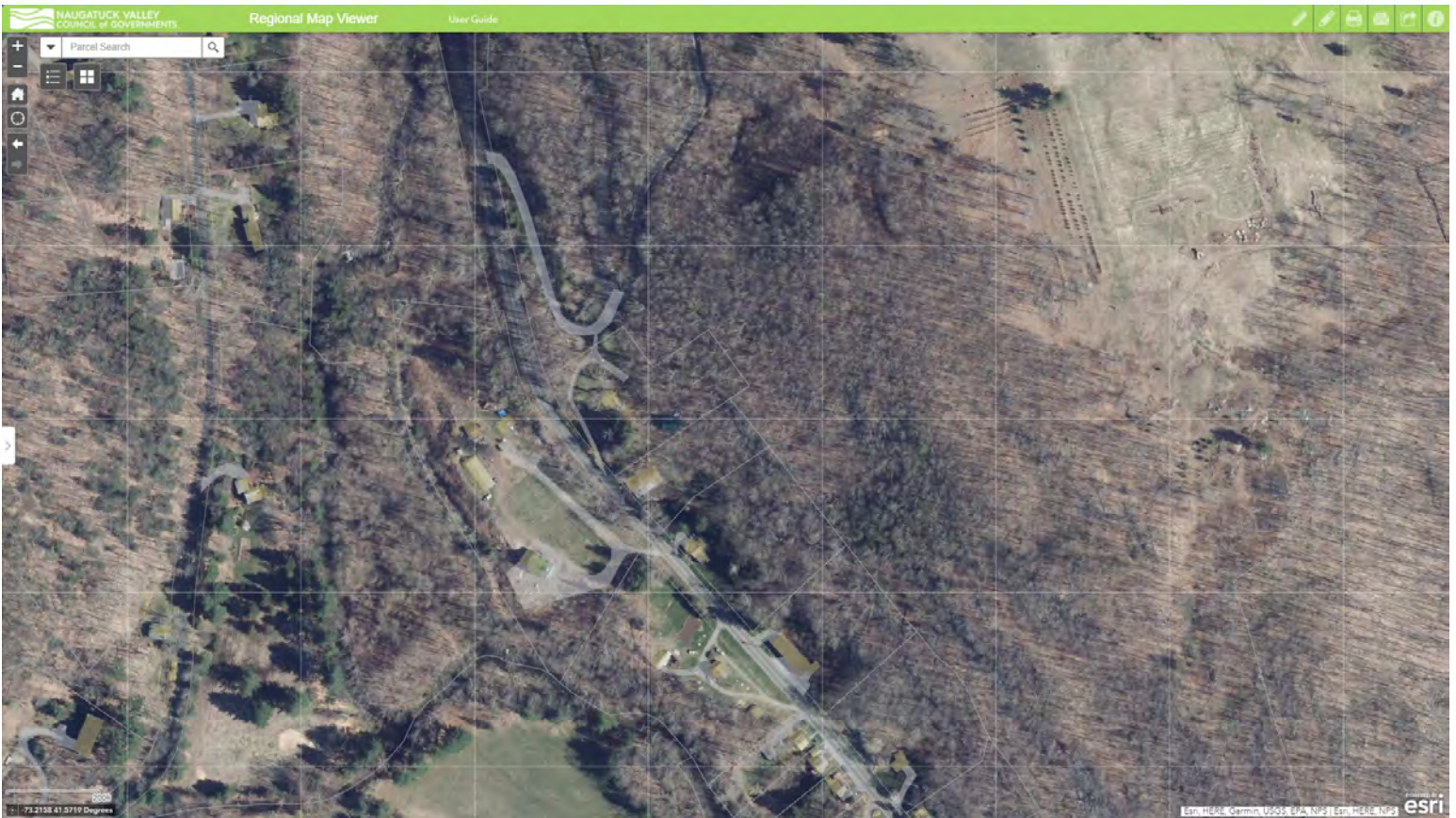
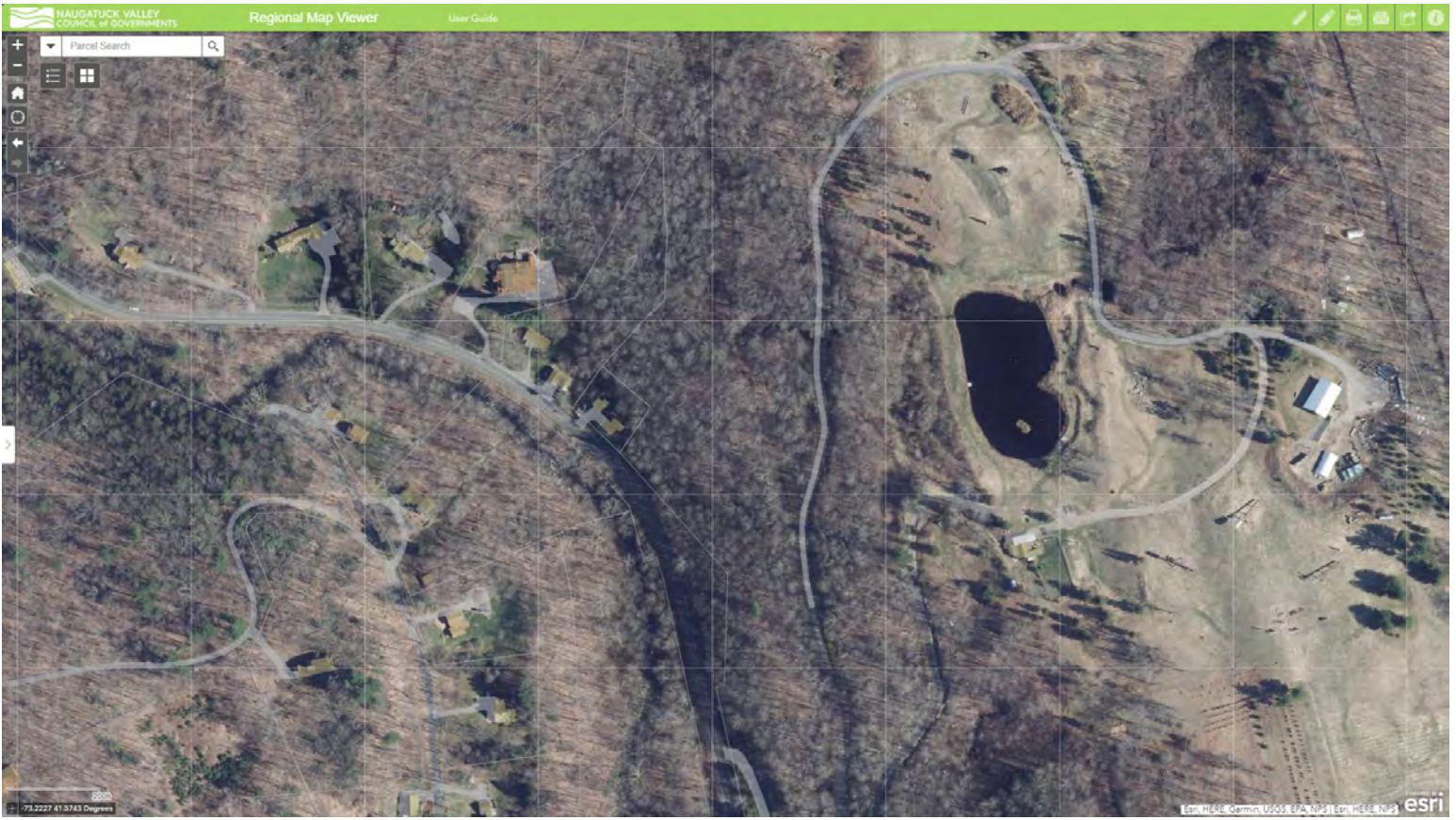
NOTES:  
 - Right bank had extensive coverage of mugwort and Japanese Knotweed  
 - House about 100 feet from river, large, level lawn with a less than 5 feet wide buffer of invasives

Reach 2 – Route 47 (Hotchkissville Bridge) to Paper Mill Road Right of Way (ROW access at former bridge crossing)



# Reach 2 – Route 47 (Hotchkissville Bridge) to Paper Mill Road Right of Way (ROW access at former bridge crossing)







Parcel Search



73.2140 41.5477 Degrees

esri





SURVEY REACH ID: <u>02</u>	WTRSHD/SUBSHD: <u>Weekkeepee mee</u>	DATE: <u>07/07/01</u>	ASSESSED BY: <u>CH, PP, HK, SO, SK</u>
START TIME: <u>10:07 AM</u> LMK: <u>013</u>	END TIME: <u>1:12 AM</u> LMK: <u>025</u>	GPS ID:	
LAT: <u>41:567.44</u> " LONG: <u>-73:217.86</u> "	LAT: <u>41:576.07</u> " LONG: <u>-73:20641</u> "		
DESCRIPTION: <u>route 47 Hatch Kisswite Bridge</u>		DESCRIPTION: <u>across from end of passm. road, former crossing</u>	

RAIN IN LAST 24 HOURS	<input type="checkbox"/> Heavy rain	<input type="checkbox"/> Steady rain	<input checked="" type="checkbox"/> None	<input type="checkbox"/> Intermittent	<input type="checkbox"/> Trace
PRESENT CONDITIONS	<input type="checkbox"/> Heavy rain	<input type="checkbox"/> Steady rain	<input checked="" type="checkbox"/> Clear	<input type="checkbox"/> Trace	<input type="checkbox"/> Overcast
SURROUNDING LAND USE:	<input type="checkbox"/> Industrial	<input type="checkbox"/> Commercial	<input type="checkbox"/> Urban/Residential	<input checked="" type="checkbox"/> Suburban/Res	<input checked="" type="checkbox"/> Forested
	<input type="checkbox"/> Golf course	<input type="checkbox"/> Park	<input checked="" type="checkbox"/> Crop	<input type="checkbox"/> Pasture	<input checked="" type="checkbox"/> Other: <u>road right of way</u>

**AVERAGE CONDITIONS (check applicable)**

BASE FLOW AS %  0-25%  50%-75%  75-100%

CHANNEL WIDTH  25-50"  75-100"

**DOMINANT SUBSTRATE**

Silt/clay (fine or slick)  Cobble (2.5-10")

Sand (gritty)  Boulder (>10")

Gravel (0.1-2.5")  Bed rock

**WATER CLARITY**  Clear  Turbid (suspended matter)

Stained (clear, naturally colored)  Opaque (milky)

Other (chemicals, dyes)

**AQUATIC PLANTS IN STREAM**

Attached:  none  some  lots

Floating:  none  some  lots

**WILDLIFE IN OR AROUND STREAM**

(Evidence of)

Fish  Beaver  Deer

Snails  Other: moccasin

**STREAM SHADING (water surface)**

Mostly shaded (≥75% coverage)

Halfway (≥50%)

Partially shaded (≥25%)

Unshaded (< 25%)

**CHANNEL DYNAMICS**

Downcutting  Bed scour

Widening  Bank failure

Headcutting  Bank scour

Aggrading  Slope failure

Sed. deposition  Channelized

Unknown

**CHANNEL DIMENSIONS (FACING DOWNSTREAM)**

Height: LT bank 12 (ft)

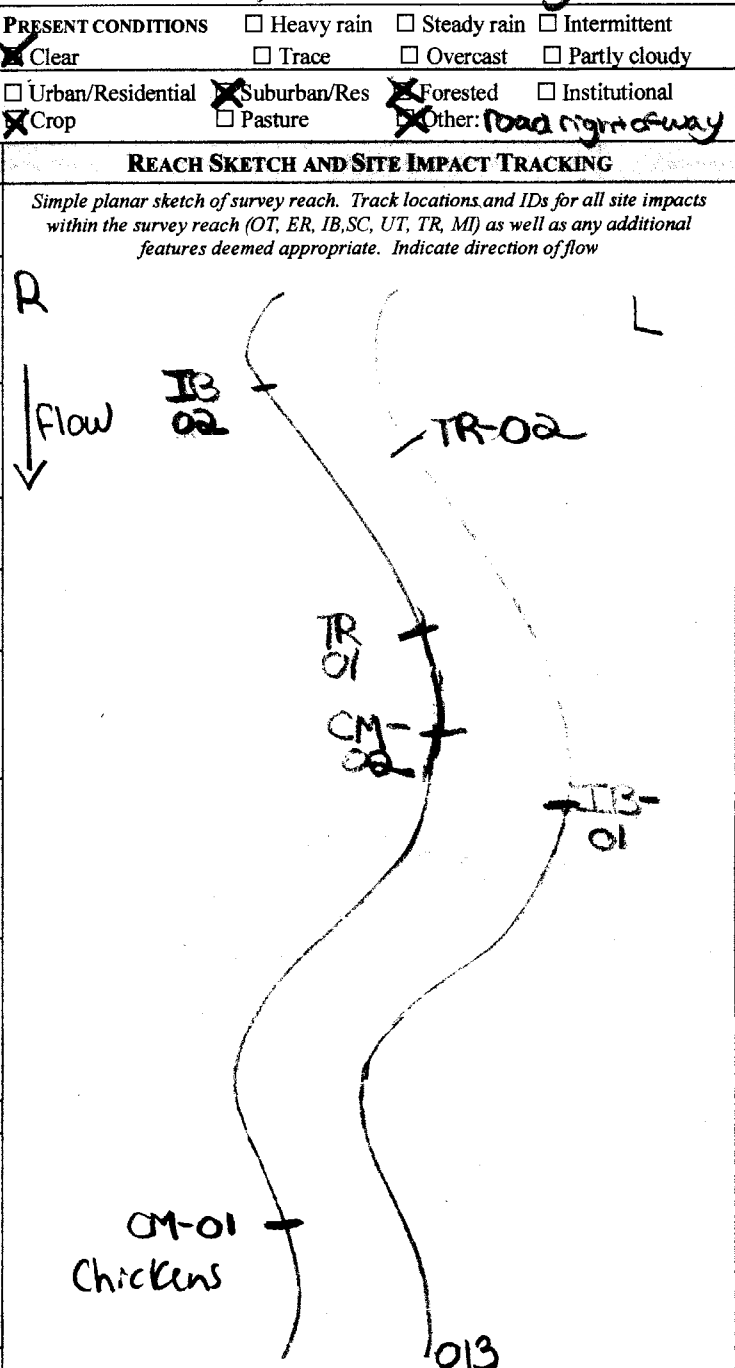
RT bank 12 (ft)

Width: Bottom 30 (ft)

Top 50 (ft)

**REACH ACCESSIBILITY**

Good: Open area in public ownership, sufficient room to stockpile materials, easy stream channel access for heavy equipment using existing roads or trails.	Fair: Forested or developed area adjacent to stream. Access requires tree removal or impact to landscaped areas. Stockpile areas small or distant from stream.	Difficult: Must cross wetland, steep slope, or sensitive areas to get to stream. Few areas to stockpile available and/or located a great distance from stream. Specialized heavy equipment required.
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NOTES: (biggest problem you see in survey reach)

Areas of channelization and impacted buffers

REPORTED TO AUTHORITIES  YES  NO

**OVERALL STREAM CONDITION**

	Optimal	Suboptimal	Marginal	Poor
<b>IN-STREAM HABITAT</b>  <i>(May modify criteria based on appropriate habitat regime)</i>	Greater than 70% of substrate favorable for epifaunal colonization and fish cover; mix of snags, submerged logs, undercut banks, cobble or other stable habitat and at stage to allow full colonization potential (i.e., logs/snags that are <u>not</u> new fall and <u>not</u> transient).	40-70% mix of stable habitat; well-suited for full colonization potential; adequate habitat for maintenance of populations; presence of additional substrate in the form of newfall, but not yet prepared for colonization (may rate at high end of scale).	20-40% mix of stable habitat; habitat availability less than desirable; substrate frequently disturbed or removed.	Less than 20% stable habitat; lack of habitat is obvious; substrate unstable or lacking.
	20 19 18 17 <b>(16)</b>	15 14 13 12 11	10 9 8 7 6	5 4 3 2 1 0
<b>VEGETATIVE PROTECTION</b>  <i>(score each bank, determine sides by facing downstream)</i>	More than 90% of the streambank surfaces and immediate riparian zone covered by native vegetation, including trees, understory shrubs, or nonwoody macrophytes; vegetative disruption through grazing or mowing minimal or not evident; almost all plants allowed to grow naturally.	70-90% of the streambank surfaces covered by native vegetation, but one class of plants is not well-represented; disruption evident but not affecting full plant growth potential to any great extent; more than one-half of the potential plant stubble height remaining.	50-70% of the streambank surfaces covered by vegetation; disruption obvious; patches of bare soil or closely cropped vegetation common; less than one-half of the potential plant stubble height remaining.	Less than 50% of the streambank surfaces covered by vegetation; disruption of streambank vegetation is very high; vegetation has been removed to 5 centimeters or less in average stubble height.
	Left Bank 10 9	8 <b>(7)</b> 6	5 4 3	2 1 0
	Right Bank 10 9	8 <b>(7)</b> 6	5 4 3	2 1 0
<b>BANK EROSION</b> <i>(facing downstream)</i>	Banks stable; evidence of erosion or bank failure absent or minimal; little potential for future problems. <5% of bank affected.	Grade and width stable; isolated areas of bank failure/erosion; likely caused by a pipe outfall, local scour, impaired riparian vegetation or adjacent use.	Past downcutting evident, active stream widening, banks actively eroding at a moderate rate; no threat to property or infrastructure	Active downcutting; tall banks on both sides of the stream eroding at a fast rate; erosion contributing significant amount of sediment to stream; obvious threat to property or infrastructure.
	Left Bank 10 9	<b>(8)</b> 7 6	5 4 3	2 1 0
	Right Bank 10 9	8 <b>(7)</b> 6	5 4 3	2 1 0
<b>FLOODPLAIN CONNECTION</b>	High flows (greater than bankfull) able to enter floodplain. Stream not deeply entrenched.	High flows (greater than bankfull) able to enter floodplain. Stream not deeply entrenched.	High flows (greater than bankfull) not able to enter floodplain. Stream deeply entrenched.	High flows (greater than bankfull) not able to enter floodplain. Stream deeply entrenched.
	20 19 18 17 <b>(16)</b>	15 14 13 12 11	10 9 8 7 6	5 4 3 2 1 0

**OVERALL BUFFER AND FLOODPLAIN CONDITION**

	Optimal	Suboptimal	Marginal	Poor
<b>VEGETATED BUFFER WIDTH</b>	Width of buffer zone >50 feet; human activities (i.e., parking lots, roadbeds, clear-cuts, lawns, crops) have not impacted zone.	Width of buffer zone 25-50 feet; human activities have impacted zone only minimally.	Width of buffer zone 10-25 feet; human activities have impacted zone a great deal.	Width of buffer zone <10 feet; little or no riparian vegetation due to human activities.
	Left Bank 10 9	8 7 6	<b>(5)</b> 4 3	2 1 0
	Right Bank 10 9	<b>(8)</b> 7 6	5 4 3	2 1 0
<b>FLOODPLAIN VEGETATION</b>	Predominant floodplain vegetation type is mature forest	Predominant floodplain vegetation type is young forest	Predominant floodplain vegetation type is shrub or old field	Predominant floodplain vegetation type is turf or crop land
	20 19 18 17 16	15 14 <b>(13)</b> 12 11	10 9 8 7 6	5 4 3 2 1 0
<b>FLOODPLAIN HABITAT</b>	Even mix of wetland and non-wetland habitats, evidence of standing/ponded water	Even mix of <u>wetland</u> and non-wetland habitats, <u>no evidence of standing/ponded water</u>	Either all wetland or all non-wetland habitat, evidence of standing/ponded water	Either all wetland or all non-wetland habitat, <u>no evidence of standing/ponded water</u>
	20 19 18 17 16	15 14 13 12 11	10 9 <b>(8)</b> 7 6	5 4 3 2 1 0
<b>FLOODPLAIN ENCROACHMENT</b>	No evidence of floodplain encroachment in the form of fill material, land development, or manmade structures	Minor floodplain encroachment in the form of fill material, land development, or manmade structures, but not effecting floodplain function	Moderate floodplain encroachment in the form of <u>filling</u> , land development, or manmade structures, some effect on floodplain function	Significant floodplain encroachment (i.e. fill material, land development, or man-made structures). Significant effect on floodplain function
	20 19 18 17 16	<b>(15)</b> 14 13 12 11	10 9 8 7 6	5 4 3 2 1 0

Sub Total In-stream: 61 /80 + Buffer/Floodplain: 49 /80 = Total Survey Reach 110 /160

Channel Modification



WATERSHED/SUBSHED: <u>Weykepeeme</u>		DATE: <u>07/27/21</u>		ASSESSED BY: <u>[Signature]</u>	
SURVEY REACH ID: <u>50</u>		TIME: <u>10:20</u> AM/PM		PHOTO ID: (Camera-Pic #) # <u>2</u>	
SITE ID: (Condition-#) <u>CM-01</u>	START LAT <u>41°56'74"</u>		LONG <u>-73°21'86"</u>		GPS: (Unit ID) LMK <u>013</u>
	END LAT <u>41°56'70"</u>		LONG <u>-73°21'20"</u>		
TYPE: <input checked="" type="checkbox"/> Channelization <input checked="" type="checkbox"/> Bank armoring <input type="checkbox"/> concrete channel <input type="checkbox"/> Floodplain encroachment <input type="checkbox"/> Other:					
MATERIAL: <input type="checkbox"/> Concrete <input type="checkbox"/> Gabion <input type="checkbox"/> Rip Rap <input checked="" type="checkbox"/> Earthen <input type="checkbox"/> Metal <input type="checkbox"/> Other:	Does channel have perennial flow?		<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		DIMENSIONS: Height _____ (ft) Bottom Width _____ (ft) Top Width: _____ (ft) Length: <u>1000</u> (ft)
	Is there evidence of sediment deposition?		<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		
	Is vegetation growing in channel?		<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
	Is channel connected to floodplain?		<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		
BASE FLOW CHANNEL Depth of flow _____ (in) Defined low flow channel? <input type="checkbox"/> Yes <input type="checkbox"/> No % of channel bottom _____ %			ADJACENT STREAM CORRIDOR Available width LT <u>100</u> (ft) RT <u>0</u> (ft) Utilities Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Fill in floodplain? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
POTENTIAL RESTORATION CANDIDATE <input type="checkbox"/> Structural repair <input type="checkbox"/> Base flow channel creation <input checked="" type="checkbox"/> Natural channel design <input type="checkbox"/> Can't tell <input type="checkbox"/> no <input type="checkbox"/> De-channelization <input type="checkbox"/> Fish barrier removal <input checked="" type="checkbox"/> Bioengineering					
CHANNEL-IZATION SEVERITY: (Circle #)	A long section of concrete stream (>500') channel where water is very shallow (<1" deep) with no natural sediments present in the channel.		A moderate length (> 200') but channel stabilized and beginning to function as a natural stream channel. Vegetated bars may have formed in channel.		An earthen channel less than 100 ft with good water depth, a natural sediment bottom, and size and shape similar to the unchannelized stream reaches above and below impacted area.
	5		4		
NOTES: <u>Floodplain connected on left bank, powerlines along right bank route 47 10-15 ft from rivers edge on right bank, flood in large rainfall, large scour where river turns sharply</u>					



WATERSHED/SUBSHED: <u>Weyerhaeuser</u>		DATE: <u>07/27/21</u>	ASSESSED BY: <u>CH, HO, S, LKS</u>
SURVEY REACH: <u>02</u>		TIME: <u>11:15</u> AM/PM	PHOTO ID: (Camera-Pic #) # <u>4</u>
SITE ID: (Condition-#) <u>IB-01</u>	START	LAT <u>41:57.061"</u>	LONG <u>-73:22:285"</u>
	END	LAT	LONG
		LMK <u>016</u>	GPS: (Unit ID)

IMPACTED BANK:  LT  RT  Both

REASON INADEQUATE:  Lack of vegetation  Too narrow  Widespread invasive plants  
 Recently planted  Other:

LAND USE: Private Institutional Golf Course Park Other Public

(Facing downstream) LT Bank      vineyard

RT Bank      :

DOMINANT LAND COVER: Paved Bare ground Turf/lawn Tall grass Shrub/scrub Trees Other

LT Bank        mulch, meadow grass

RT Bank        :

INVASIVE PLANTS:  None  Rare  Partial coverage  Extensive coverage  unknown

STREAM SHADE PROVIDED?  None  Partial  Full WETLANDS PRESENT?  No  Yes  Unknown

POTENTIAL RESTORATION CANDIDATE  Active reforestation  Greenway design  Natural regeneration  Invasives removal

no  Other:

RESTORABLE AREA	REFORESTATION POTENTIAL: (Circle #)	Impacted area on public land where the riparian area does not appear to be used for any specific purpose; plenty of area available for planting	Impacted area on either public or private land that is presently used for a specific purpose; available area for planting adequate	Impacted area on private land where road; building encroachment or other feature significantly limits available area for planting
Length (ft): <u>100-200</u> LT BANK RT Width (ft): <u>100</u>		5	4	3

POTENTIAL CONFLICTS WITH REFORESTATION  Widespread invasive plants  Potential contamination  Lack of sun

Poor/unsafe access to site  Existing impervious cover  Severe animal impacts (deer, beaver)  Other: agriculture usage

NOTES:

- 200-300 ft long, 100-150 ft high
- left bank completely removed of trees, active excavating
- agriculture usage, already in conversation with town



WATERSHED/SUBSHED: <u>Weeks peme</u>		DATE: <u>07/27/21</u>	ASSESSED BY: <u>SH, SP, HS</u>
SURVEY REACH ID: <u>02</u>		TIME: <u>11:30</u> AM/PM	PHOTO ID: (Camera-Pic #) # <u>5</u>
SITE ID: (Condition-#) CM- <u>02</u>	START LAT <u>41° 52' 00"</u>	LONG <u>-73° 22' 38.5"</u>	LMK <u>016</u>
	END LAT <u>41° 57' 08.2"</u>	LONG <u>-73° 22' 34.6"</u>	LMK <u>017</u>

TYPE:  Channelization  Bank armoring  concrete channel  Floodplain encroachment  Other:

<b>MATERIAL:</b> <input type="checkbox"/> Concrete <input type="checkbox"/> Gabion <input type="checkbox"/> Rip Rap <input checked="" type="checkbox"/> Earthen <input type="checkbox"/> Metal <input type="checkbox"/> Other:	Does channel have perennial flow? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<b>DIMENSIONS:</b> Height <u>5</u> (ft) Bottom Width _____ (ft) Top Width: _____ (ft) Length: <u>300</u> (ft)
	Is there evidence of sediment deposition? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
	Is vegetation growing in channel? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
	Is channel connected to floodplain? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	

<b>BASE FLOW CHANNEL</b> Depth of flow <u>1.5</u> ft Defined low flow channel? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No % of channel bottom <u>75</u> %	<b>ADJACENT STREAM CORRIDOR</b> Available width LT <u>100</u> (ft) RT <u>200+</u> (ft) Utilities Present? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Fill in floodplain? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
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POTENTIAL RESTORATION CANDIDATE  no

Structural repair  Base flow channel creation  Natural channel design  Can't tell  
 De-channelization  Fish barrier removal  Bioengineering

<b>CHANNEL-IZATION SEVERITY:</b> (Circle #)	A long section of concrete stream (>500') channel where water is very shallow (<1' deep) with no natural sediments present in the channel.	A moderate length (> 200'), but channel stabilized and beginning to function as a natural stream channel. Vegetated bars may have formed in channel.	An earthen channel less than 100 ft with good water depth, a natural sediment bottom, and size and shape similar to the unchanneled stream reaches above and below impacted area.
	5	4	2

NOTES:

- not extensive armoring, plenty of room for restoration
- not impacting flow, at intersection with Sprain Brook
- extends past intersection. additional 200 ft



WATERSHED/SUBSHED: <u>Wokeepoeme</u>		DATE: <u>07/27/21</u>	ASSESSED BY: <u>CH, PA, SK, SO, MS</u>	
SURVEY REACH ID: <u>02</u>		TIME: <u>11:39</u> AM/PM	PHOTO ID: (Camera-Pic #) # <u>6</u>	
SITE ID: (Condition-#) <u>TR-01</u>		LAT <u>41.571 '04</u> " LONG <u>-73.22 '59</u> " LMK <u>018</u>	GPS: (Unit ID)	
<b>TYPE:</b> <input type="checkbox"/> Industrial <input type="checkbox"/> Commercial <input checked="" type="checkbox"/> Residential	<b>MATERIAL:</b> <input checked="" type="checkbox"/> Plastic <input type="checkbox"/> Tires <input type="checkbox"/> Appliances <input type="checkbox"/> Automotive <input type="checkbox"/> Paper <input type="checkbox"/> Construction <input type="checkbox"/> Yard Waste <input checked="" type="checkbox"/> Other: <u>Styrofoam</u>	<b>SOURCE:</b> <input type="checkbox"/> Unknown <input checked="" type="checkbox"/> Flooding <input type="checkbox"/> Illegal dump <input type="checkbox"/> Local outfall <input checked="" type="checkbox"/> Metal <input type="checkbox"/> Medical	<b>LOCATION:</b> <input type="checkbox"/> Stream <input checked="" type="checkbox"/> Riparian Area <input type="checkbox"/> Lt bank <input checked="" type="checkbox"/> Rt bank	<b>LAND OWNERSHIP:</b> <input type="checkbox"/> Public <input type="checkbox"/> Unknown <input checked="" type="checkbox"/> Private <b>AMOUNT (# Pickup truck loads):</b> <u>1</u>
<b>POTENTIAL RESTORATION CANDIDATE</b> <input checked="" type="checkbox"/> Stream cleanup <input type="checkbox"/> Stream adoption segment <input type="checkbox"/> Removal/prevention of dumping <input type="checkbox"/> no <input type="checkbox"/> Other:				
If yes for trash or debris removal	<b>EQUIPMENT NEEDED :</b> <input type="checkbox"/> Heavy equipment <input checked="" type="checkbox"/> Trash bags <input type="checkbox"/> Unknown		<b>DUMPSTER WITHIN 100 FT:</b> <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Unknown	
	<b>WHO CAN DO IT:</b> <input checked="" type="checkbox"/> Volunteers <input type="checkbox"/> Local Gov <input type="checkbox"/> Hazmat Team <input type="checkbox"/> Other			
<b>CLEAN-UP POTENTIAL:</b> (Circle #)	A small amount of trash (i.e., less than two pickup truck loads) located inside a park with easy access	A large amount of trash, or bulk items, in a small area with easy access. Trash may have been dumped over a long period of time but it could be cleaned up in a few days, possibly with a small backhoe.	A large amount of trash or debris scattered over a large area, where access is very difficult. Or presence of drums or indications of hazardous materials	
	<u>5</u>	4	3	2
<b>NOTES:</b> - private property with a small amount of trash in localized area - we were able to carry out most of the trash with us				
REPORTED TO AUTHORITIES <input type="checkbox"/> YES <input type="checkbox"/> NO				





WATERSHED/SUBSHED: <u>Wedgecreek</u>		DATE: <u>07/27/21</u>	ASSESSED BY: <u>SPK</u>
SURVEY REACH ID: <u>02</u>		TIME: <u>12:17</u> AM/PM	PHOTO ID: (Camera-Pic #) /# <u>7</u>
SITE ID: (Condition-#) <u>TR-02</u>		LAT <u>41°57'46.5"</u> LONG <u>73°22'98"</u> LMK019	GPS: (Unit ID)
<b>TYPE:</b> <input type="checkbox"/> Industrial <input type="checkbox"/> Commercial <input checked="" type="checkbox"/> Residential	<b>MATERIAL:</b> <input checked="" type="checkbox"/> Plastic <input type="checkbox"/> Tires <input type="checkbox"/> Appliances <input type="checkbox"/> Automotive	<input type="checkbox"/> Paper <input type="checkbox"/> Construction <input type="checkbox"/> Yard Waste <input checked="" type="checkbox"/> Other: <u>Styrofoam</u>	<input checked="" type="checkbox"/> Metal <input type="checkbox"/> Medical
	<b>SOURCE:</b> <input type="checkbox"/> Unknown <input type="checkbox"/> Flooding <input checked="" type="checkbox"/> Illegal dump <input type="checkbox"/> Local outfall	<b>LOCATION:</b> <input type="checkbox"/> Stream <input checked="" type="checkbox"/> Riparian Area <input checked="" type="checkbox"/> Lt bank <input type="checkbox"/> Rt bank	<b>LAND OWNERSHIP:</b> <input checked="" type="checkbox"/> Public <input type="checkbox"/> Private <b>AMOUNT (# Pickup truck loads):</b> <u>1</u>
<b>POTENTIAL RESTORATION CANDIDATE</b> <input checked="" type="checkbox"/> Stream cleanup <input type="checkbox"/> Stream adoption segment <input type="checkbox"/> Removal/prevention of dumping <input type="checkbox"/> no <input type="checkbox"/> Other:			
If yes for trash or debris removal	<b>EQUIPMENT NEEDED :</b> <input type="checkbox"/> Heavy equipment <input checked="" type="checkbox"/> Trash bags <input type="checkbox"/> Unknown		<b>DUMPSTER WITHIN 100 FT:</b> <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Unknown
	<b>WHO CAN DO IT:</b> <input checked="" type="checkbox"/> Volunteers <input type="checkbox"/> Local Gov <input type="checkbox"/> Hazmat Team <input type="checkbox"/> Other		
<b>CLEAN-UP POTENTIAL:</b> (Circle #)	A small amount of trash (i.e., less than two pickup truck loads) located inside a park with easy access	A large amount of trash, or bulk items, in a small area with easy access. Trash may have been dumped over a long period of time but it could be cleaned up in a few days, possibly with a small backhoe.	A large amount of trash or debris scattered over a large area, where access is very difficult. Or presence of drums or indications of hazardous materials
	5	4	3
<b>NOTES:</b> - large amount of small trash items near the roadside, in right of way - most likely litter from passing vehicles - many cans/bottles, as well as tires - some removed, but tires remains			
REPORTED TO AUTHORITIES <input type="checkbox"/> YES <input type="checkbox"/> NO			



WATERSHED/SUBSHED: <u>Weekapeemee</u>		DATE: <u>07/27/21</u>	ASSESSED BY: <u>CH, PP, HK</u>
SURVEY REACH: <u>02</u>		TIME: <u>12:52</u> AM/PM	PHOTO ID: (Camera-Pic #) /# <u>8</u>
SITE ID: (Condition-#) <u>IB-02</u>	START LAT <u>41.57613</u> "	LONG <u>-73.22481</u> "	LMK <u>023</u>
	END LAT <u>41.57630</u> "	LONG <u>-73.22534</u> "	LMK <u>024</u>

IMPACTED BANK:  LT  RT  Both

REASON INADEQUATE:  Lack of vegetation  Too narrow  Widespread invasive plants  
 Recently planted  Other:

LAND USE: Private Institutional Golf Course Park Other Public

(Facing downstream) LT Bank      Right of way

RT Bank

DOMINANT LAND COVER: Paved Bare ground Turf/lawn Tall grass Shrub/scrub Trees Other

LT Bank

RT Bank

INVASIVE PLANTS:  None  Rare  Partial coverage  Extensive coverage  unknown

STREAM SHADE PROVIDED?  None  Partial  Full WETLANDS PRESENT?  No  Yes  Unknown

POTENTIAL RESTORATION CANDIDATE  Active reforestation  Greenway design  Natural regeneration  Invasives removal

no  Other:

RESTORABLE AREA	REFORESTATION POTENTIAL: (Circle #)	Impacted area on public land where the riparian area does not appear to be used for any specific purpose; plenty of area available for planting	Impacted area on either public or private land that is presently used for a specific purpose; available area for planting adequate	Impacted area on private land where road; building encroachment or other feature significantly limits available area for planting
Length (ft): <u>250</u>				
Width (ft): <u>30</u>				
		5	4	3 2 1

POTENTIAL CONFLICTS WITH REFORESTATION  Widespread invasive plants  Potential contamination  Lack of sun

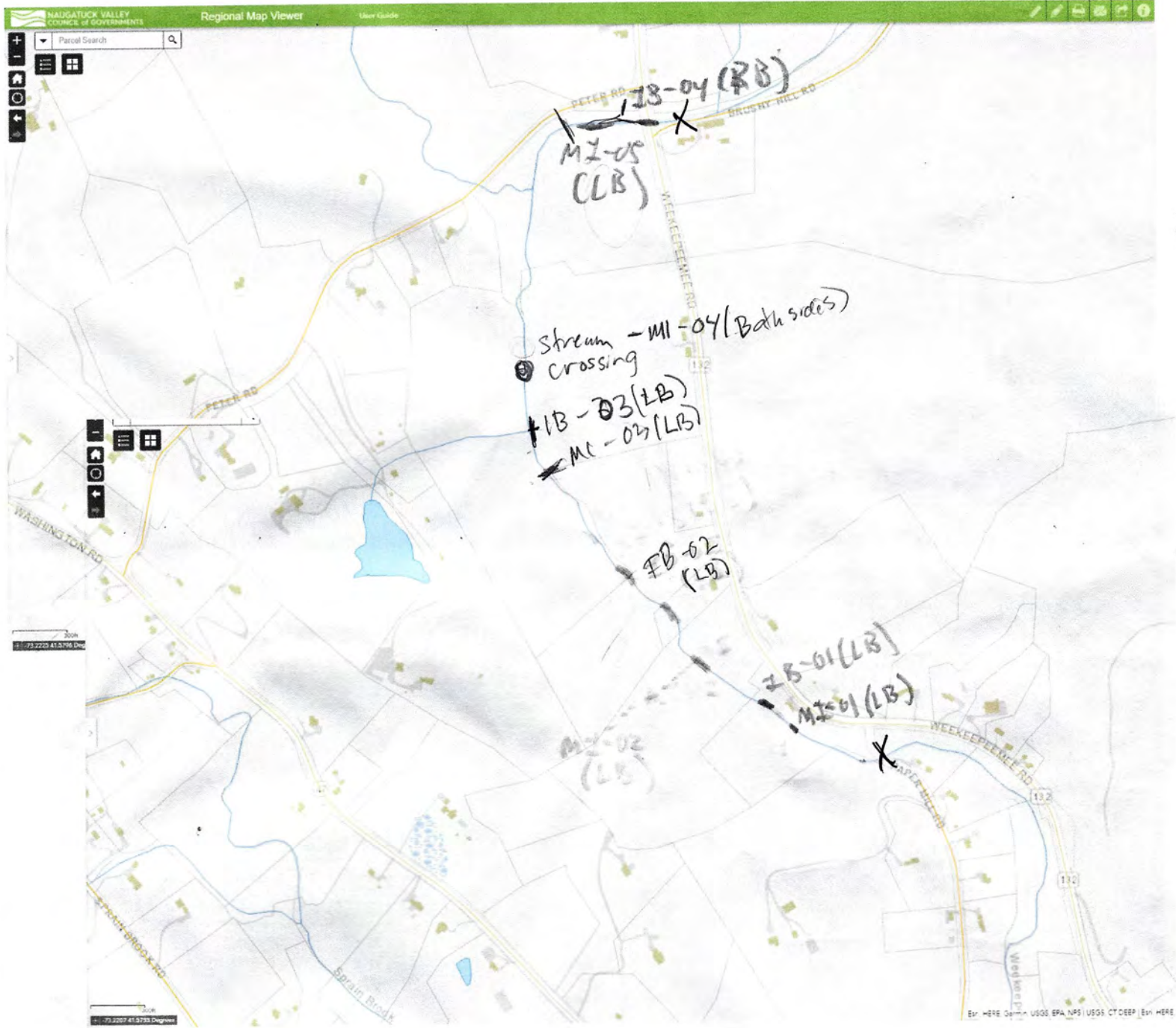
Poor/unsafe access to site  Existing impervious cover  Severe animal impacts (deer, beaver)  Other: private property

NOTES:

- understory has been clear, some tree bordering right bank
- missing a shrub lay for a good buffer
- private land, has been cleared by owner
- plenty of room for new plantings, house/buildings set back 150 ft

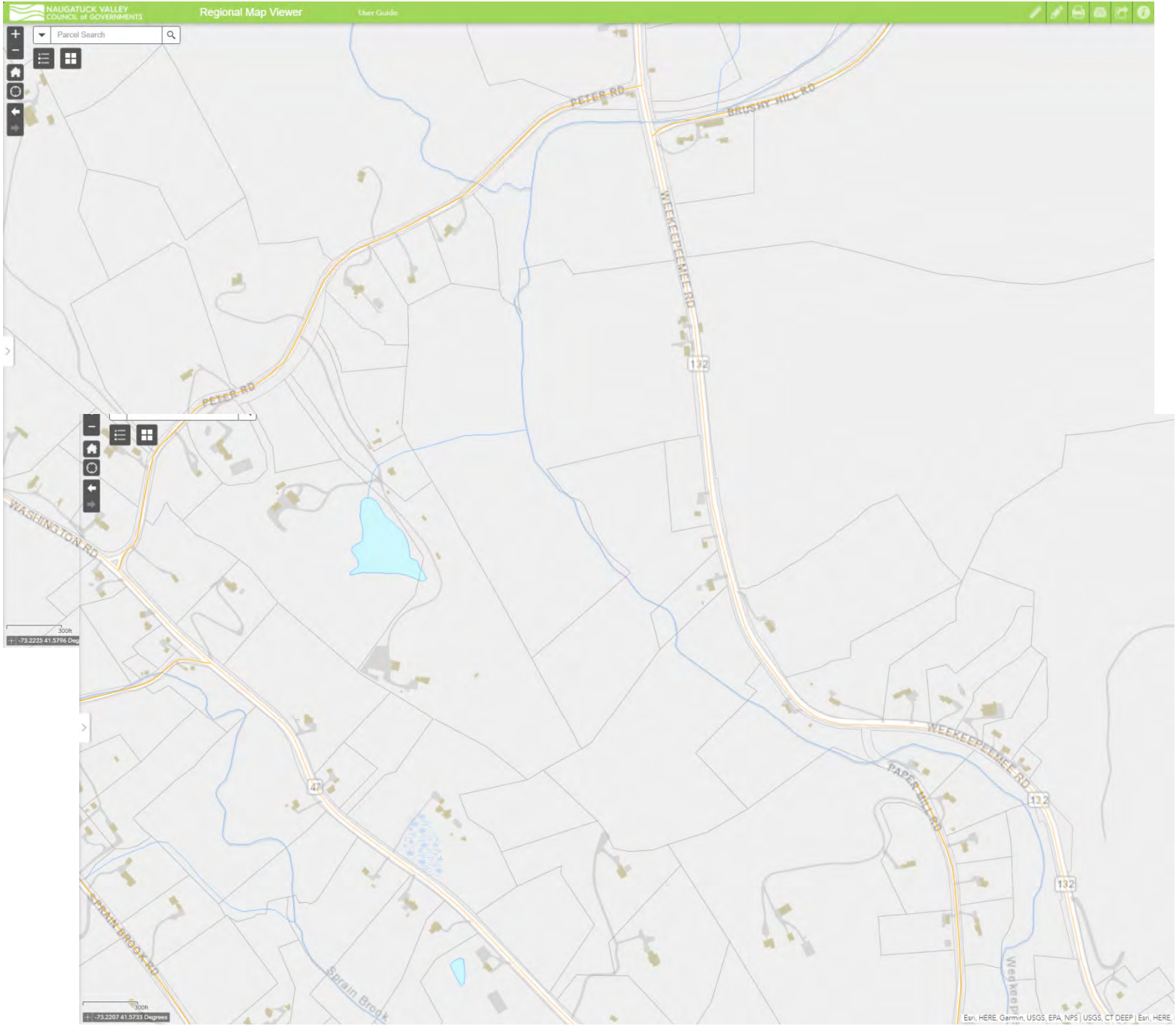
Reach 3 – Papermill Road to Route 132 Bridge at Brushy Hill)

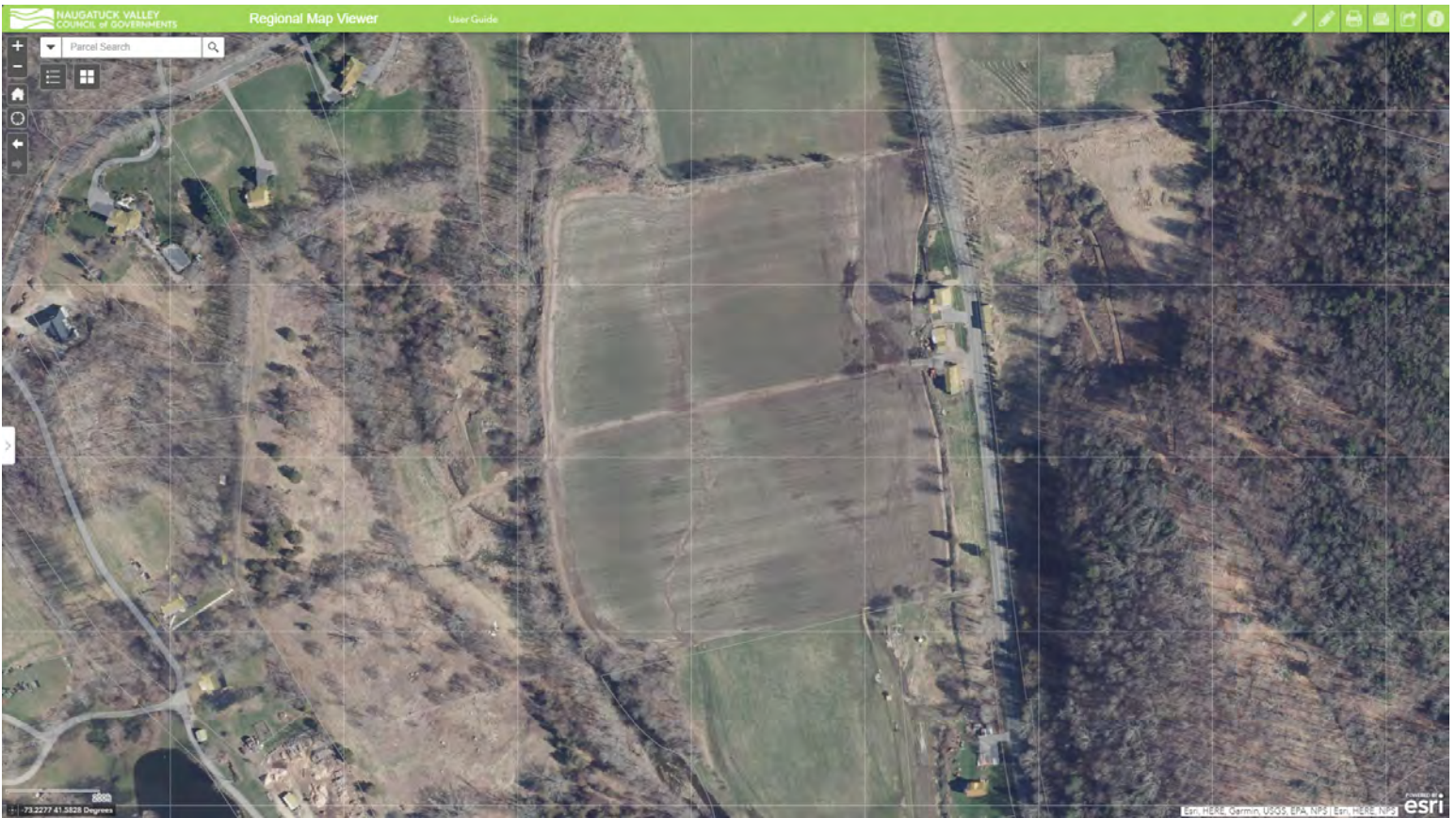
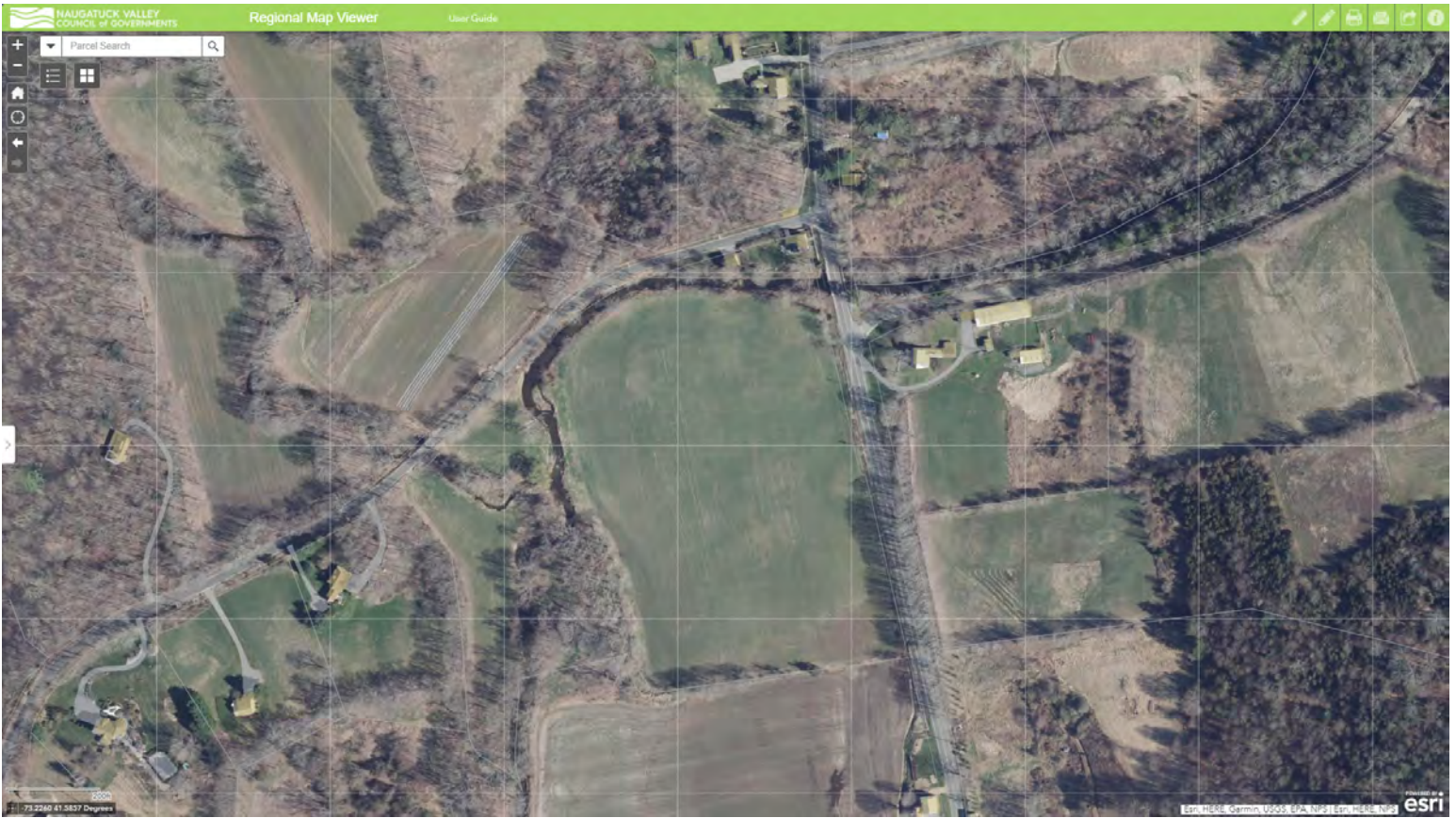
Note – Start at ROW for former bridge off Route 132 and work upstream

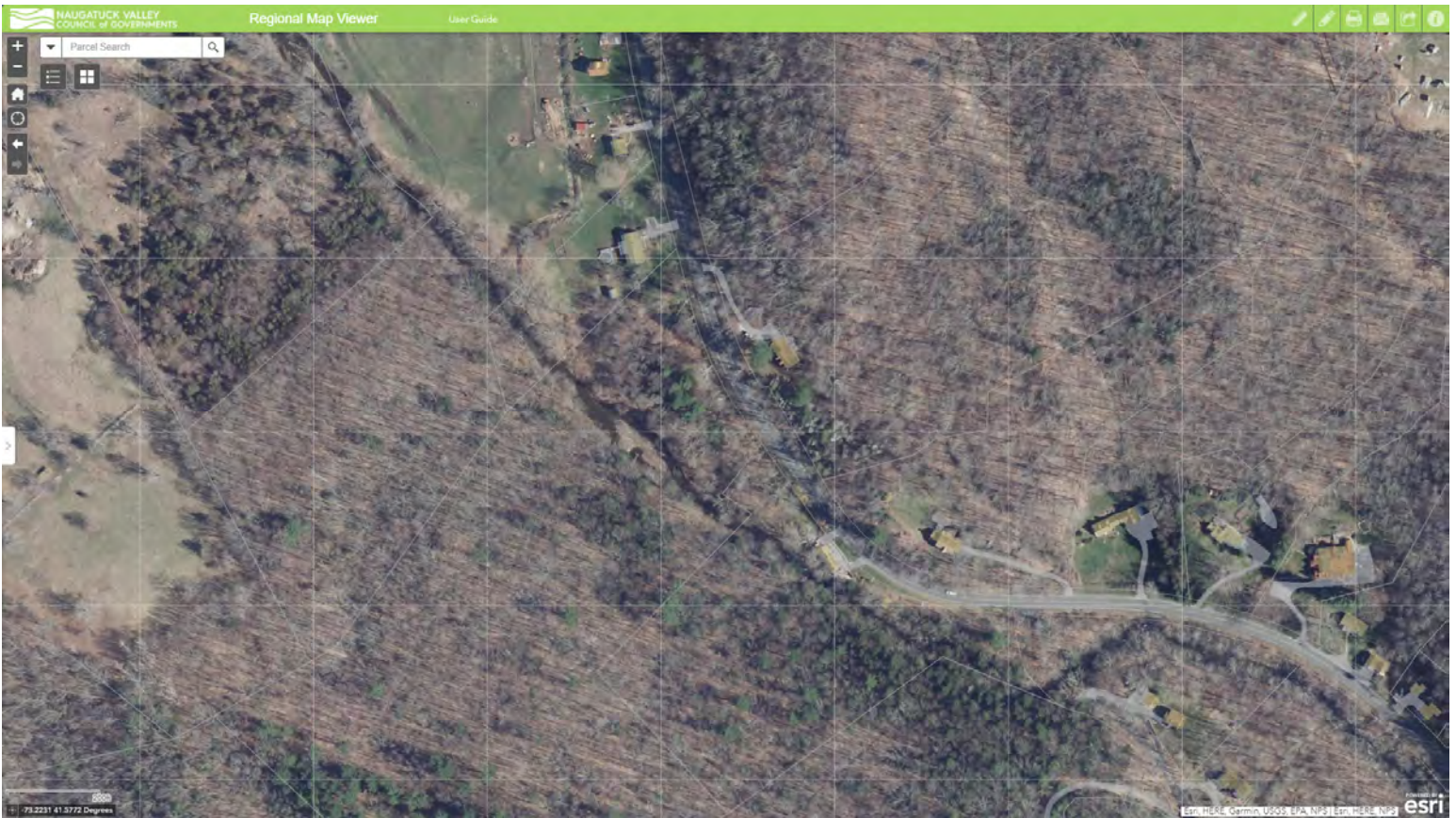
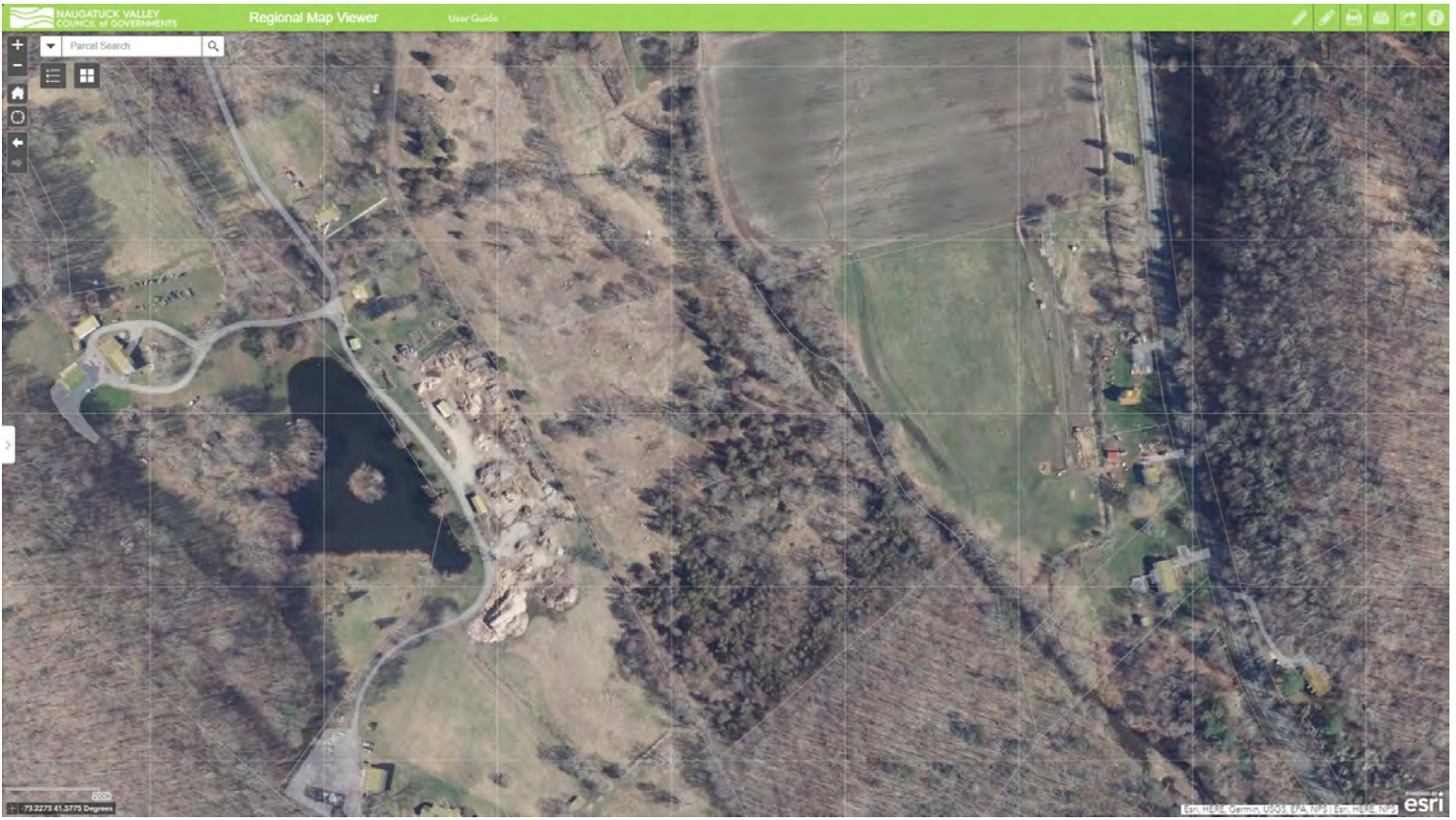


### Reach 3 – Papermill Road to Route 132 Bridge at Brushy Hill)

Note – Start at ROW for former bridge off Route 132 and work upstream











SURVEY REACH ID: <b>03</b>	WTRSHD/SUBSHD: <b>Weekeepemee</b>	DATE: <b>07/27/21</b>	ASSESSED BY: <b>CH, PA HK, SK, SO</b>
START TIME: <b>2:00 AM</b>	LMK: <b>025</b>	END TIME: <b>4:30 AM</b>	LMK: <b>034</b>
LAT: <b>41° 56' 44"</b>	LONG: <b>-73° 21' 36"</b>	LAT: <b>41° 58' 54"</b>	LONG: <b>-73° 23' 07"</b>
DESCRIPTION: <b>across from end of papermill road, former crossing</b>	DESCRIPTION: <b>Rt 132 9th Bvly 1511 Rd</b>		

RAIN IN LAST 24 HOURS	<input type="checkbox"/> Heavy rain	<input type="checkbox"/> Steady rain	<input type="checkbox"/> Intermittent
<input checked="" type="checkbox"/> None	<input type="checkbox"/> Intermittent	<input type="checkbox"/> Trace	<input type="checkbox"/> Partly cloudy
PRESENT CONDITIONS	<input type="checkbox"/> Clear	<input type="checkbox"/> Trace	<input type="checkbox"/> Overcast
<input type="checkbox"/> Urban/Residential	<input checked="" type="checkbox"/> Suburban/Res	<input checked="" type="checkbox"/> Forested	<input type="checkbox"/> Institutional
<input type="checkbox"/> Crop	<input type="checkbox"/> Pasture	<input type="checkbox"/> Other:	

**AVERAGE CONDITIONS (check applicable)**

BASE FLOW AS %  0-25%  50%-75%

CHANNEL WIDTH  25-50%  75-100%

**REACH SKETCH AND SITE IMPACT TRACKING**

Simple planar sketch of survey reach. Track locations and IDs for all site impacts within the survey reach (OT, ER, IB, SC, UT, TR, MI) as well as any additional features deemed appropriate. Indicate direction of flow

**DOMINANT SUBSTRATE**

Silt/clay (fine or slick)

Cobble (2.5-10")

Sand (gritty)

Boulder (>10")

Gravel (0.1-2.5")

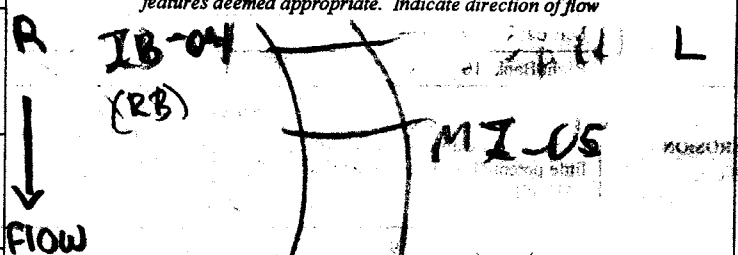
Bed rock

**WATER CLARITY**  Clear  Turbid (suspended matter)

Stained (clear, naturally colored)

Opaque (milky)

Other (chemicals, dye)



**AQUATIC PLANTS** Attached:  none  some  lots

Floating:  none  some  lots

**WILDLIFE IN OR AROUND STREAM**

Fish

Beaver

Deer

Snails

Other: **Raccoons**

**STREAM SHADING** (water surface)

Mostly shaded (>75% coverage)

Partially shaded (>25%)

Unshaded (<25%)

**CHANNEL DYNAMICS**

Downcutting

Widening

Headcutting

Aggrading

Sed. deposition

Bed scour

Bank failure

Bank scour

Slope failure

Channelized

Unknown

**CHANNEL DIMENSIONS (FACING DOWNSTREAM)**

Height: LT bank **5-15** (ft)

RT bank **5-10** (ft)

Width: Bottom **30** (ft)

Top **45-50** (ft)

**REACH ACCESS**

Good: Open area in public ownership, sufficient room to stockpile material, easy stream channel access for heavy equipment using existing roads or trails.

Fair: Forested or developed area adjacent to stream. Access requires tree removal or impact to landscaped areas. Stockpile areas small or distant from stream.

Difficult: Must cross wetland, steep slope, or sensitive areas to get to stream. Few areas to stockpile available and/or located a great distance from stream. Specialized heavy equipment required.

**NOTES: (biggest problem you see in survey reach)**

- impacted buffers

- Trash which was picked up

- minimal livestock presence

- minimal bank erosion

Turbid water below tractor crossing

REPORTED TO AUTHORITIES  YES  NO

- possible channel modifications



**OVERALL STREAM CONDITION**

	Optimal	Suboptimal	Marginal	Poor
<b>IN-STREAM HABITAT</b>  <i>(May modify criteria based on appropriate habitat regime)</i>	Greater than 70% of substrate favorable for epifaunal colonization and fish cover; mix of snags, submerged logs, undercut banks, cobble or other stable habitat and at stage to allow full colonization potential (i.e., logs/snags that are not new fall and not transient).	40-70% mix of stable habitat; well-suited for full colonization potential; adequate habitat for maintenance of populations; presence of additional substrate in the form of newfall, but not yet prepared for colonization (may rate at high end of scale).	20-40% mix of stable habitat; habitat availability less than desirable; substrate frequently disturbed or removed.	Less than 20% stable habitat; lack of habitat is obvious; substrate unstable or lacking.
	20 19 18 17 <b>(6)</b>	15 14 13 12 11	10 9 8 7 6	5 4 3 2 1 0
<b>VEGETATIVE PROTECTION</b>  <i>(score each bank, determine sides by facing downstream)</i>	More than 90% of the streambank surfaces and immediate riparian zone covered by native vegetation, including trees, understory shrubs, or nonwoody macrophytes; vegetative disruption through grazing or mowing minimal or not evident; almost all plants allowed to grow naturally.	70-90% of the streambank surfaces covered by native vegetation, but one class of plants is not well-represented; disruption evident but not affecting full plant growth potential to any great extent; more than one-half of the potential plant stubble height remaining.	50-70% of the streambank surfaces covered by vegetation; disruption obvious; patches of bare soil or closely cropped vegetation common; less than one-half of the potential plant stubble height remaining.	Less than 50% of the streambank surfaces covered by vegetation; disruption of streambank vegetation is very high; vegetation has been removed to 5 centimeters or less in average stubble height.
	Left Bank 10 9	8 7 <b>(6)</b>	5 4 3	2 1 0
	Right Bank 10 <b>(9)</b>	8 7 6	5 4 3	2 1 0
<b>BANK EROSION</b>  <i>(facing downstream)</i>	Banks stable; evidence of erosion or bank failure absent or minimal; little potential for future problems. <5% of bank affected.	Grade and width stable; isolated areas of bank failure/erosion; likely caused by a pipe outfall, local scour, impaired riparian vegetation or adjacent use.	Past downcutting evident, active stream widening; banks actively eroding at a moderate rate; no threat to property or infrastructure	Active downcutting; tall banks on both sides of the stream eroding at a fast rate; erosion contributing significant amount of sediment to stream; obvious threat to property or infrastructure.
	Left Bank 10 9	<b>(3)</b> 7 6	5 4 3	2 1 0
	Right Bank 10 9	8 7 6	5 4 3	2 1 0
<b>FLOODPLAIN CONNECTION</b>	High flows (greater than bankfull) able to enter floodplain. Stream not deeply entrenched.	High flows (greater than bankfull) able to enter floodplain. Stream not deeply entrenched.	High flows (greater than bankfull) not able to enter floodplain. Stream deeply entrenched.	High flows (greater than bankfull) not able to enter floodplain. Stream deeply entrenched.
	20 19 18 17 <b>(16)</b>	15 14 13 12 11	10 9 8 7 6	5 4 3 2 1 0

**OVERALL BUFFER AND FLOODPLAIN CONDITION**

	Optimal	Suboptimal	Marginal	Poor
<b>VEGETATED BUFFER WIDTH</b>	Width of buffer zone >50 feet; human activities (i.e., parking lots, roadbeds, clear-cuts, lawns, crops) have not impacted zone.	Width of buffer zone 25-50 feet; human activities have impacted zone only minimally.	Width of buffer zone 10-25 feet; human activities have impacted zone a great deal.	Width of buffer zone <10 feet; little or no riparian vegetation due to human activities.
	Left Bank 10 9	8 7 6	5 4 <b>(3)</b>	<b>(2)</b> 1 0
	Right Bank 10 9	8 <b>(7)</b> 6	5 4 3	2 1 0
<b>FLOODPLAIN VEGETATION</b>	Predominant floodplain vegetation type is mature forest	Predominant floodplain vegetation type is young forest	Predominant floodplain vegetation type is shrub or old field	Predominant floodplain vegetation type is turf or crop land
	20 19 18 17 16	15 14 13 12 11	10 9 8 7 6	<b>(5)</b> 4 3 2 1 0
<b>FLOODPLAIN HABITAT</b>	Even mix of wetland and non-wetland habitats, evidence of standing/ponded water	Even mix of wetland and non-wetland habitats, no evidence of standing/ponded water	Either all wetland or all non-wetland habitat, evidence of standing/ponded water	Either all wetland or all non-wetland habitat, no evidence of standing/ponded water
	20 19 18 17 16	15 14 13 12 11	10 9 8 7 6	<b>(3)</b> 4 3 2 1 0
<b>FLOODPLAIN ENCROACHMENT</b>	No evidence of floodplain encroachment in the form of fill material, land development, or manmade structures	Minor floodplain encroachment in the form of fill material, land development, or manmade structures, but not affecting floodplain function	Moderate floodplain encroachment in the form of fill, land development, or manmade structures, some effect on floodplain function	Significant floodplain encroachment (i.e. fill material, land development, or man-made structures). Significant effect on floodplain function
	20 19 18 17 <b>(16)</b>	<b>(13)</b> 14 13 12 11	10 9 8 7 6	5 4 3 2 1 0

Sub Total In-stream: **63** /80 + Buffer/Floodplain: **35** /80 = Total Survey Reach **98** /160





WATERSHED/SUBSHED: WEEK DATE: 07/27/2021 ASSESSED BY: CH, PP, SO, SE, AK  
 SURVEY REACH: 03 TIME: 2:27 AM/PM PHOTO ID: (Camera-Pic #) 2 #  
 SITE ID: (Condition-#) IB-01 START LAT 41° 57' 62" LONG -73° 22' 57" LMK 027 GPS: (Unit ID)  
 END LAT \_\_\_\_\_ LONG \_\_\_\_\_ LMK \_\_\_\_\_

IMPACTED BANK:  LT  RT  Both REASON INADEQUATE:  Lack of vegetation  Too narrow  Widespread invasive plants  
 Recently planted  Other:

LAND USE: Private Institutional Golf Course Park Other Public  
 (Facing downstream) LT Bank     :  
 RT Bank     :

DOMINANT LAND COVER: Paved Bare ground Turf/lawn Tall grass Shrub/scrub Trees Other  
 LT Bank      :  
 RT Bank      :

INVASIVE PLANTS:  None  Rare  Partial coverage  Extensive coverage  unknown

STREAM SHADE PROVIDED?  None  Partial  Full WETLANDS PRESENT?  No  Yes  Unknown

POTENTIAL RESTORATION CANDIDATE  Active reforestation  Greenway design  Natural regeneration  Invasives removal  
 no  Other:

RESTORABLE AREA	REFORESTATION POTENTIAL: (Circle #)	Impacted area on public land where the riparian area does not appear to be used for any specific purpose; plenty of area available for planting	Impacted area on either public or private land that is presently used for a specific purpose; available area for planting adequate	Impacted area on private land where road; building encroachment or other feature significantly limits available area for planting
Length (ft): <u>75</u> Width (ft): <u>10</u>				

POTENTIAL CONFLICTS WITH REFORESTATION  Widespread invasive plants  Potential contamination  Lack of sun  
 Poor/unsafe access to site  Existing impervious cover  Severe animal impacts (deer, beaver)  Other: Identify

NOTES:

- House (elevated) from river
- Historic House
- Meadow, open lawn
- Some invasives, no shrubs or trees
- Some bank armoring

North of the house.

M1-01 (weird tank in old tank foundation)

Impacted Buffer



WATERSHED/SUBSHED: Weckepurnee DATE: 7/27/22 ASSESSED BY: CLL, DP, W.C. So, JT

SURVEY REACH: 03 TIME: 3:03 AM PHOTO ID: (Camera-Pic #) 4 #

SITE ID: (Condition-#) IB-02 START LAT 41° 52' 65.5" LONG -73° 22' 70.9" LMK 029 GPS: (Unit ID)

END LAT 41° 57' 07.0" LONG -73° 23' 22.7" LMK 029

IMPACTED BANK:  LT  RT  Both

REASON INADEQUATE:  Lack of vegetation  Too narrow  Widespread invasive plants  
 Recently planted  Other:

LAND USE: Private Institutional Golf Course Park Other Public

(Facing downstream) LT Bank

RT Bank

DOMINANT LAND COVER: Paved Bare ground Turf/lawn Tall grass Shrub/scrub Trees Other

LT Bank

RT Bank

INVASIVE PLANTS:  None  Rare  Partial coverage  Extensive coverage  unknown

STREAM SHADE PROVIDED?  None  Partial  Full WETLANDS PRESENT?  No  Yes  Unknown

POTENTIAL RESTORATION CANDIDATE  Active reforestation  Greenway design  Natural regeneration  Invasives removal  
 no  Other:

RESTORABLE AREA	REFORESTATION POTENTIAL: (Circle #)	Impacted area on public land where the riparian area does not appear to be used for any specific purpose; plenty of area available for planting	Impacted area on either public or private land that is presently used for a specific purpose; available area for planting adequate	Impacted area on private land where road; building encroachment or other feature significantly limits available area for planting
Length (ft): <u>100</u> LT BANK RT				
Width (ft): <u>5-10</u>				

POTENTIAL CONFLICTS WITH REFORESTATION  Widespread invasive plants  Potential contamination  Lack of sun  
 Poor/unsafe access to site  Existing impervious cover  Severe animal impacts (deer, beaver)  Other:

NOTES:

- Open pasture, with livestock and fencing, good distance from river
- mowings between fencing & river
- some shrubs & young trees; could use mulch deep rooted vegetation
- evidence of rotational grazing practices, not grazed to bare soil and varying ~~pasture~~ height of grasses in pastures.



#k, SK.  
50

WATERSHED/SUBSHED: <u>Weeklee</u>		DATE: <u>7/27/2021</u>		ASSESSED BY: <u>CH, PP, #k, SK.</u>	
SURVEY REACH: <u>03</u>		TIME: <u>3:26</u> AM/PM		PHOTO ID: (Camera-Pic #) /#	
SITE ID: (Condition-#) <u>IB-03</u>	START	LAT <u>41°58'02"</u>	LONG <u>73°23'28"</u>	LMK <u>030</u>	
	END	LAT <u>41°58'14"</u>	LONG <u>73°23'34"</u>	LMK <u>031</u>	
GPS: (Unit ID)					

IMPACTED BANK: <input checked="" type="checkbox"/> LT <input type="checkbox"/> RT <input type="checkbox"/> Both	REASON INADEQUATE: <input type="checkbox"/> Lack of vegetation <input checked="" type="checkbox"/> Too narrow <input type="checkbox"/> Widespread invasive plants				
	<input type="checkbox"/> Recently planted <input type="checkbox"/> Other:				

LAND USE:	Private	Institutional	Golf Course	Park	Other Public
(Facing downstream) LT Bank	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
RT Bank	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

DOMINANT LAND COVER:	Paved	Bare ground	Turf/lawn	Tall grass	Shrub/scrub	Trees	Other
LT Bank	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
RT Bank	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

INVASIVE PLANTS:	<input type="checkbox"/> None	<input type="checkbox"/> Rare	<input checked="" type="checkbox"/> Partial coverage	<input type="checkbox"/> Extensive coverage	<input type="checkbox"/> unknown
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STREAM SHADE PROVIDED?	<input type="checkbox"/> None	<input checked="" type="checkbox"/> Partial	<input type="checkbox"/> Full	WETLANDS PRESENT?	<input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes	<input type="checkbox"/> Unknown
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POTENTIAL RESTORATION CANDIDATE	<input type="checkbox"/> Active reforestation	<input type="checkbox"/> Greenway design	<input checked="" type="checkbox"/> Natural regeneration	<input type="checkbox"/> Invasives removal
	<input type="checkbox"/> no	<input type="checkbox"/> Other:		

RESTORABLE AREA	LT BANK	RT	REFORESTATION POTENTIAL: (Circle #)	Impacted area on public land where the riparian area does not appear to be used for any specific purpose; plenty of area available for planting	Impacted area on either public or private land that is presently used for a specific purpose; available area for planting adequate	Impacted area on private land where road; building encroachment or other feature significantly limits available area for planting
	Length (ft): <u>300</u>	<u>300</u>				
Width (ft): <u>10</u>	<u>10</u>					

POTENTIAL CONFLICTS WITH REFORESTATION	<input type="checkbox"/> Widespread invasive plants	<input type="checkbox"/> Potential contamination	<input type="checkbox"/> Lack of sun
<input type="checkbox"/> Poor/unsafe access to site	<input type="checkbox"/> Existing impervious cover	<input type="checkbox"/> Severe animal impacts (deer, beaver)	<input type="checkbox"/> Other: <u>NONE</u>

NOTES:  
 Farm/crop field row of established trees but minimal narrow understory present. could use additional row of shrubs/trees/herbaceous veg.  
 The farm

Miscellaneous

MI

WATERSHED/SUBSHED: <u>Weeklee</u>	DATE: <u>7/27/2021</u>	ASSESSED BY: <u>CH, PP, SIC, SO, HK</u>
SURVEY REACH ID: <u>03</u>	TIME: <u>3:26 AM/PM</u>	PHOTO ID: (Camera-Pic #) <u>6</u> #
SITE ID: (Condition-#) <u>MI-04</u>	LAT <u>41° 58.147"</u> LONG <u>-73° 23.341"</u>	LMK: <u>031</u> GPS: (Unit ID)
POTENTIAL RESTORATION CANDIDATE <input type="checkbox"/> Storm water retrofit <input type="checkbox"/> Stream restoration <input type="checkbox"/> Riparian Management <input type="checkbox"/> no <input type="checkbox"/> Discharge Prevention <input checked="" type="checkbox"/> Other: <u>Bridge</u>		
DESCRIBE: <u>- Truck ford style crossing</u> <u>- Turbid water down stream to cons</u>		
REPORTED TO LOCAL AUTHORITIES <input type="checkbox"/> Yes <input type="checkbox"/> No		

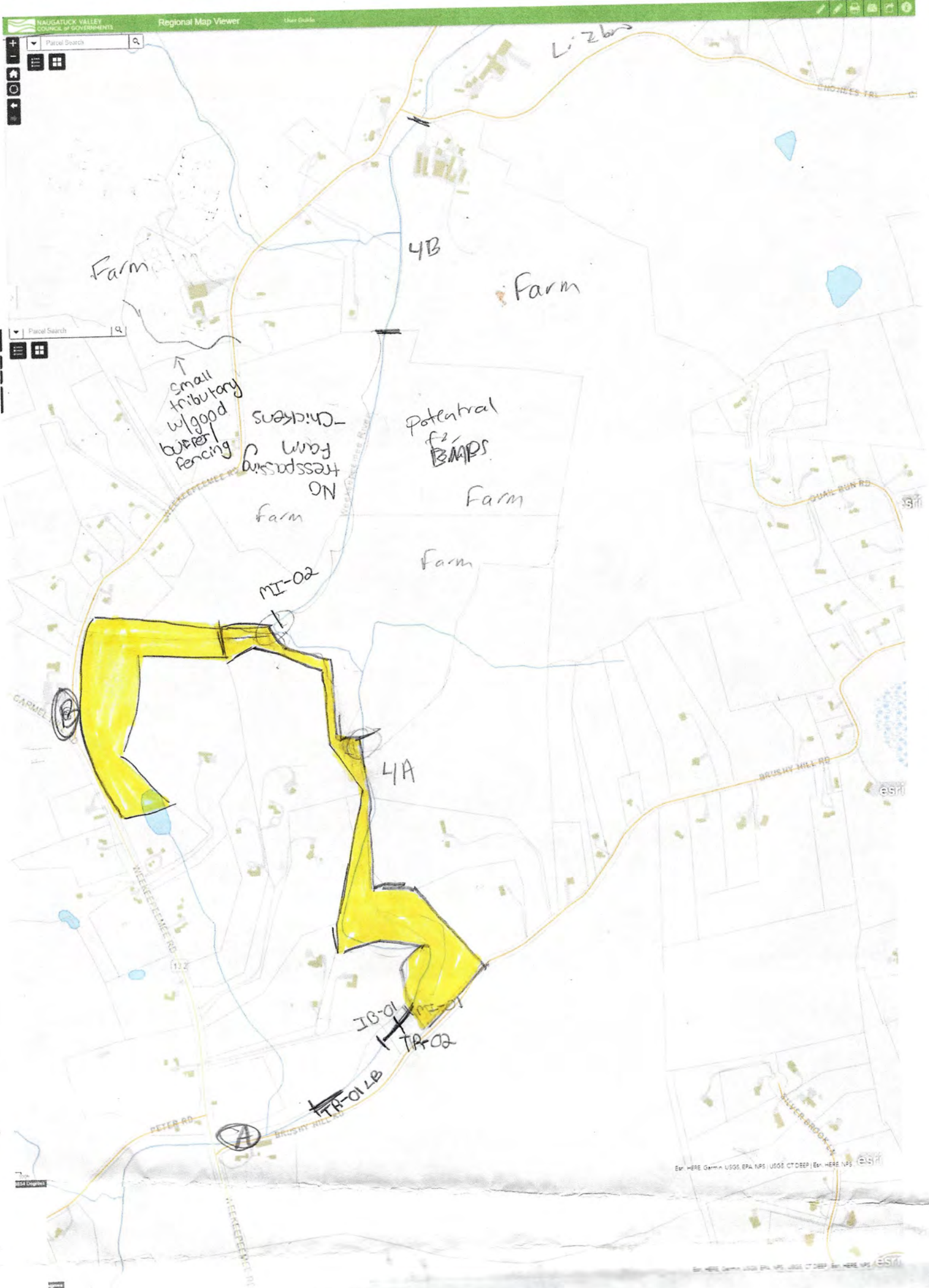
WATERSHED/SUBSHED: <u>Weeklee</u>	DATE: <u>7/27/2021</u>	ASSESSED BY: <u>CH, PP, SO, SIC, SK</u>
SURVEY REACH ID: <u>03</u>	TIME: <u>4:13 AM/PM</u>	PHOTO ID: (Camera-Pic #) <u>7</u> #
SITE ID: (Condition-#) <u>MI-05</u>	LAT <u>41° 58.538"</u> LONG <u>-73° 23.297"</u>	LMK: <u>032</u> GPS: (Unit ID)
POTENTIAL RESTORATION CANDIDATE <input type="checkbox"/> Storm water retrofit <input type="checkbox"/> Stream restoration <input type="checkbox"/> Riparian Management <input type="checkbox"/> no <input type="checkbox"/> Discharge Prevention <input checked="" type="checkbox"/> Other:		
DESCRIBE: <u>Stormwater outfall &amp; irrigation pipe</u> <u>Gateway inventoried by town</u>		
REPORTED TO LOCAL AUTHORITIES <input type="checkbox"/> Yes <input type="checkbox"/> No		

WATERSHED/SUBSHED:	DATE: ___/___/___	ASSESSED BY:
SURVEY REACH ID:	TIME: ___:___ AM/PM	PHOTO ID: (Camera-Pic #) #
SITE ID: (Condition-#) <u>MI-___</u>	LAT ___° ___' ___" LONG ___° ___' ___"	LMK: ___ GPS: (Unit ID)
POTENTIAL RESTORATION CANDIDATE <input type="checkbox"/> Storm water retrofit <input type="checkbox"/> Stream restoration <input type="checkbox"/> Riparian Management <input type="checkbox"/> no <input type="checkbox"/> Discharge Prevention <input type="checkbox"/> Other:		
DESCRIBE:		
REPORTED TO LOCAL AUTHORITIES <input type="checkbox"/> Yes <input type="checkbox"/> No		



# Reach 4 Brushy Hill Road to Chohees Trail

NOTE – This is a VERY long reach with limited enter/exit points (may be able to park an extra car at the Jehovah's Witness Hall)

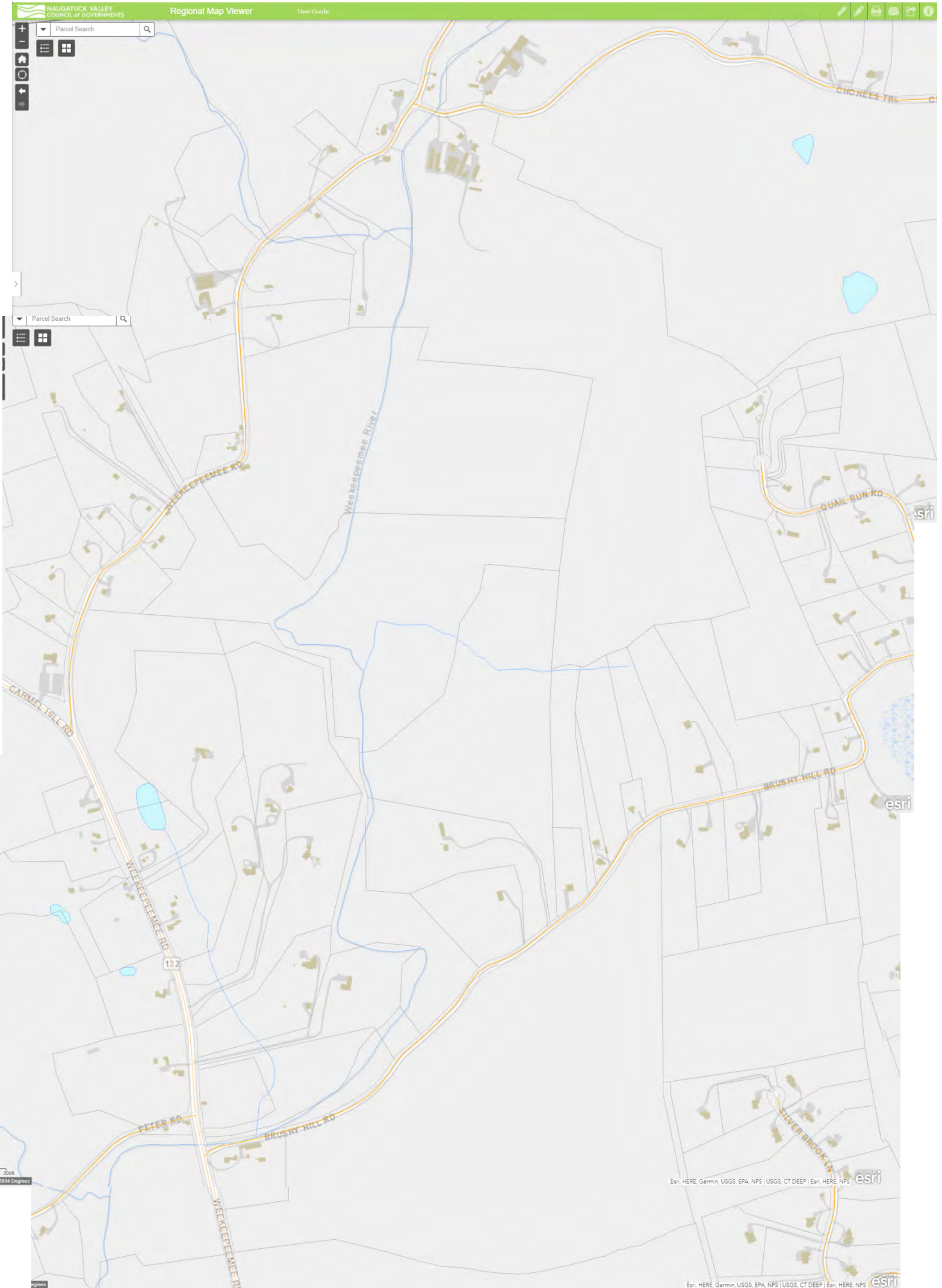


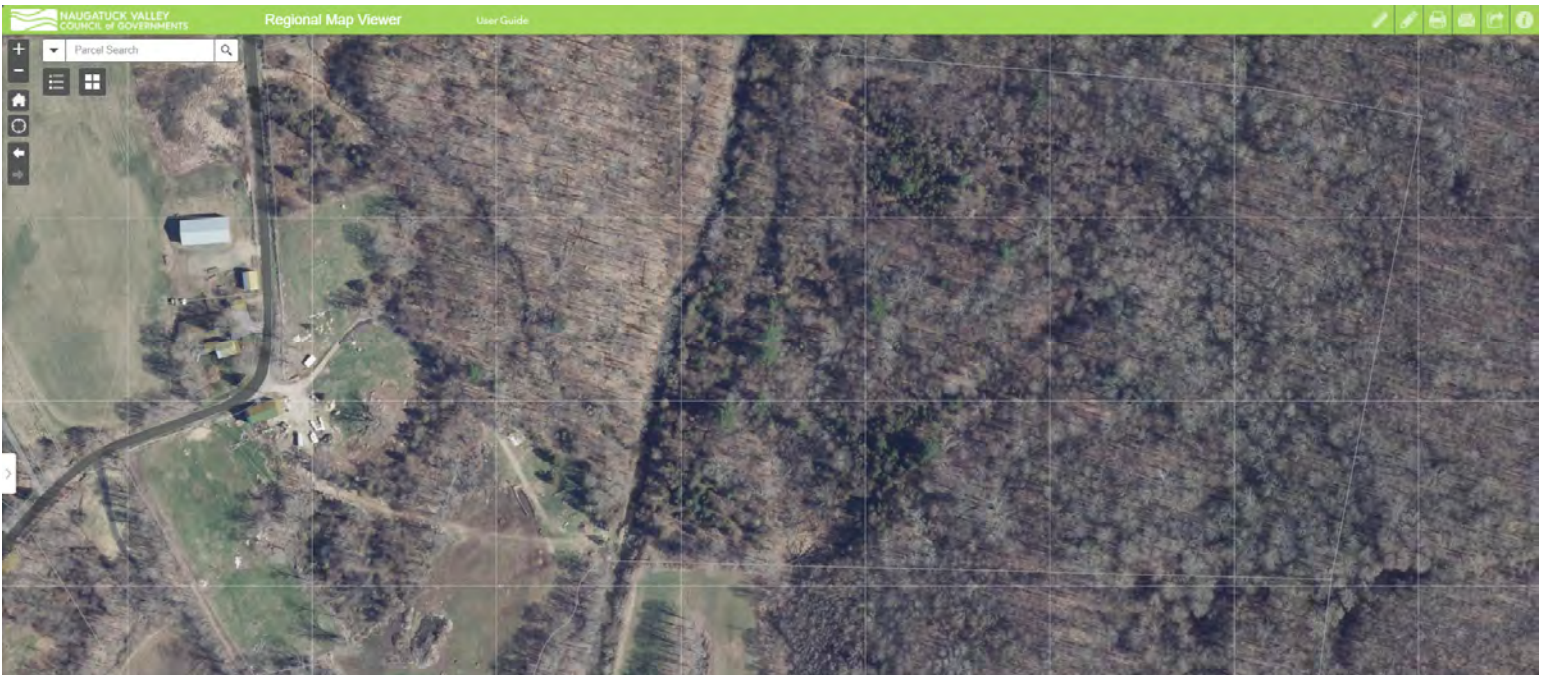
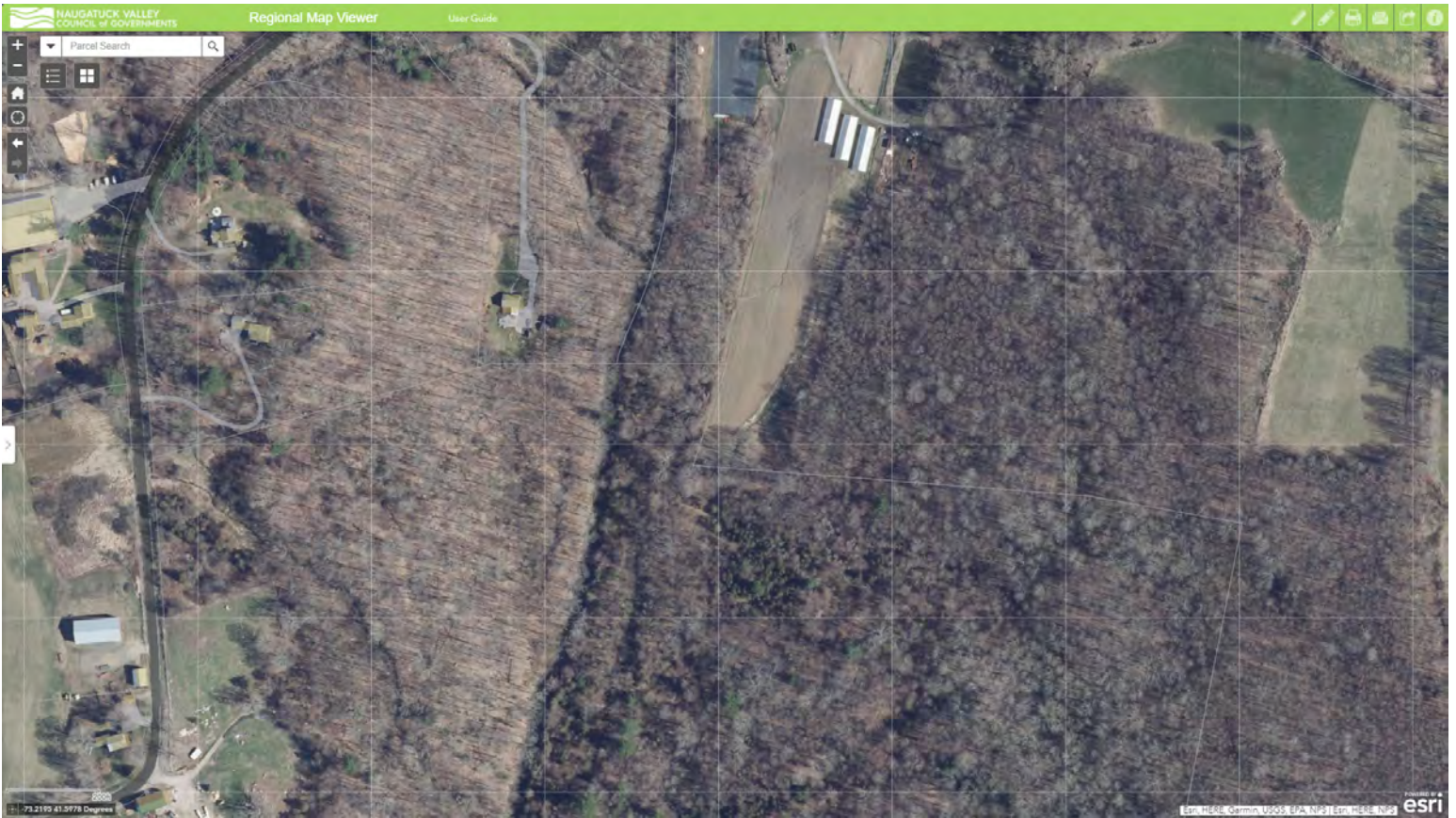
Reach 4A  
Reach 4B

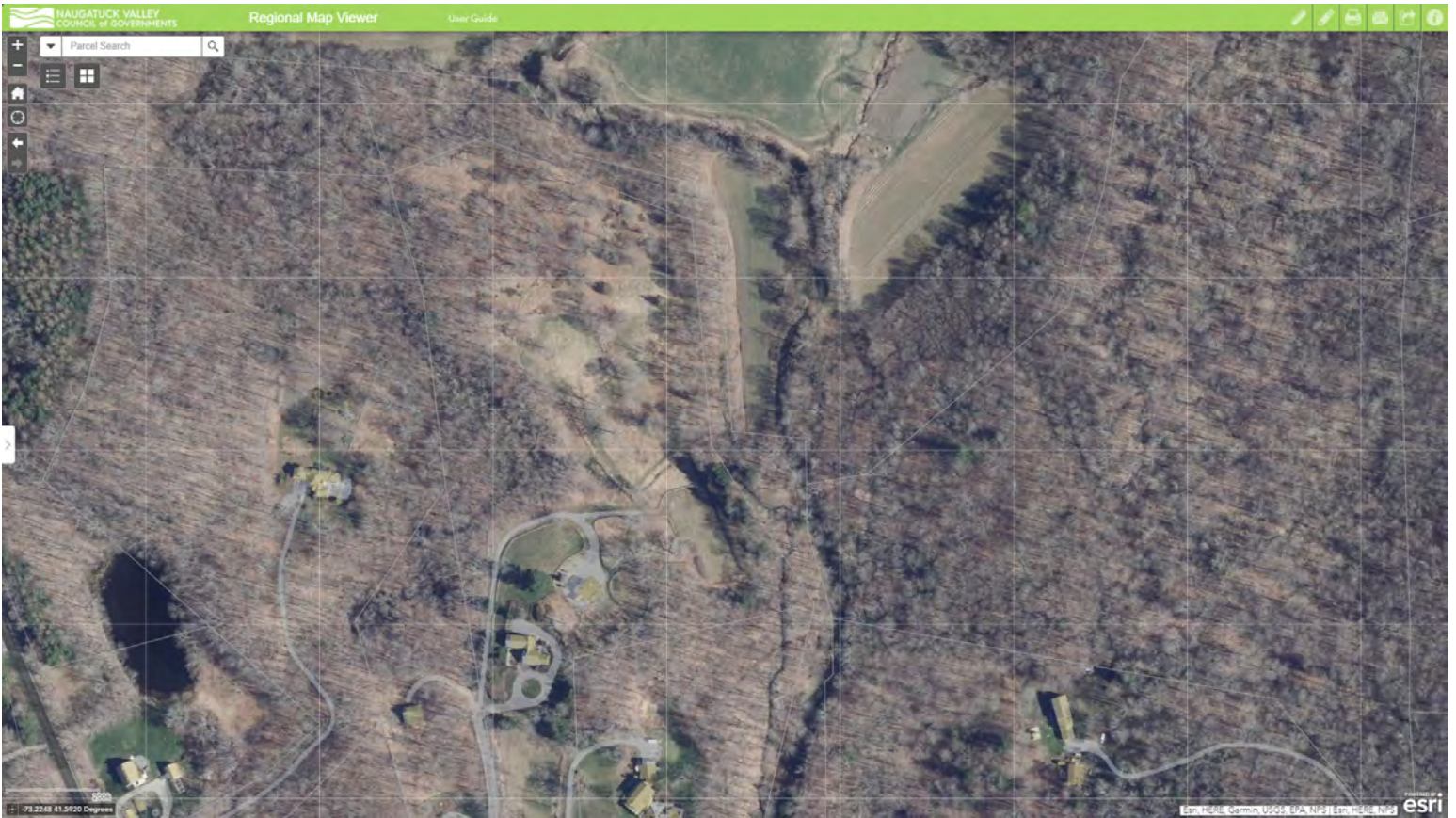
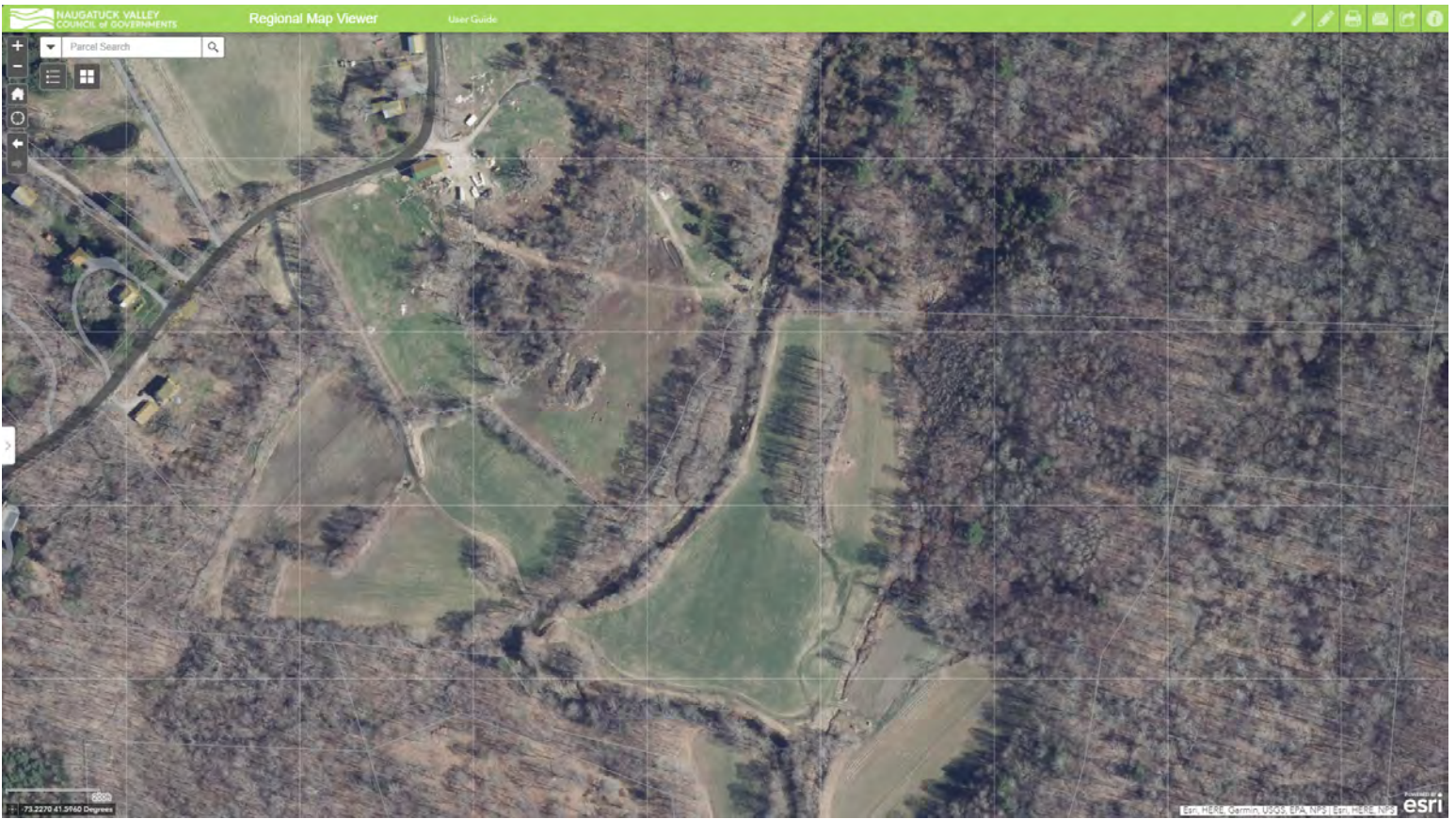


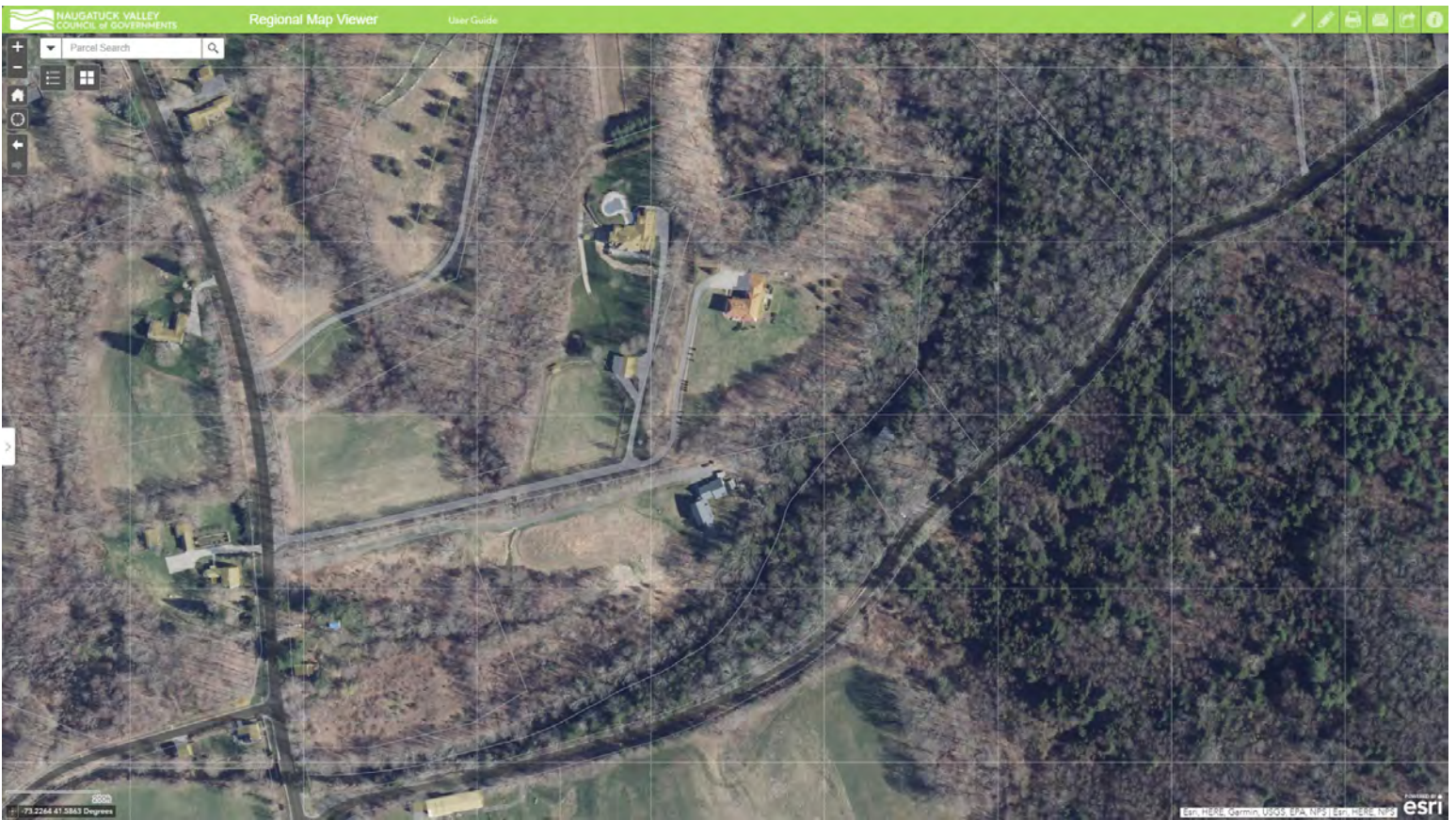
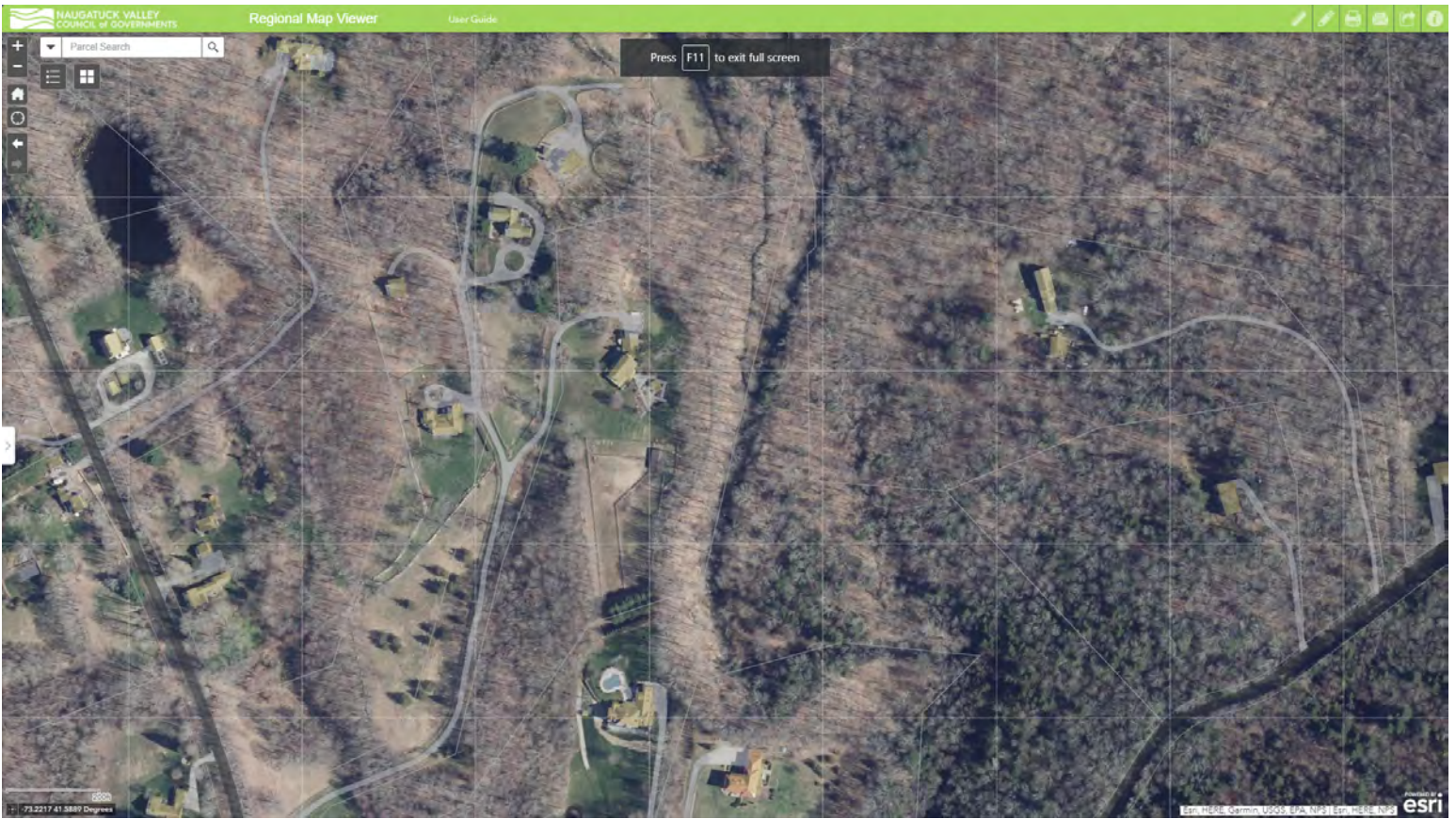
# Reach 4 Brushy Hill Road to Chohees Trail

NOTE – This is a VERY long reach with limited enter/exit points (may be able to park an extra car at the Jehovah’s Witness Hall)











<b>SURVEY REACH ID:</b> 04	<b>WTRSHD/SUBSHD:</b> Weekeepeme	<b>DATE:</b> 08/03/21	<b>ASSESSED BY:</b> CH, PR, SK, SO, HK
<b>START TIME:</b> 10:02 AM	<b>LMK:</b> 038	<b>END TIME:</b> 3:30 AM/PM	<b>LMK:</b> 049
<b>LAT:</b> 41:65'239"	<b>LONG:</b> -73:209'45"	<b>LAT:</b> 41:004'23"	<b>LONG:</b> -73:225'40"
<b>DESCRIPTION:</b> At Brushy Hill Road and Route 132 intersection		<b>DESCRIPTION:</b> Chochees Trail B	

<b>RAIN IN LAST 24 HOURS</b>	<input type="checkbox"/> Heavy rain	<input type="checkbox"/> Steady rain	<input type="checkbox"/> Intermittent	<input checked="" type="checkbox"/> None	<input type="checkbox"/> Intermittent	<input type="checkbox"/> Trace	
<b>PRESENT CONDITIONS</b>	<input type="checkbox"/> Heavy rain	<input type="checkbox"/> Steady rain	<input type="checkbox"/> Intermittent	<input type="checkbox"/> Clear	<input type="checkbox"/> Trace	<input checked="" type="checkbox"/> Overcast	<input type="checkbox"/> Partly cloudy
<b>SURROUNDING LAND USE:</b>	<input type="checkbox"/> Industrial	<input type="checkbox"/> Commercial	<input type="checkbox"/> Urban/Residential	<input checked="" type="checkbox"/> Suburban/Res	<input checked="" type="checkbox"/> Forested	<input type="checkbox"/> Institutional	<input type="checkbox"/> Other:
	<input type="checkbox"/> Golf course	<input type="checkbox"/> Park	<input checked="" type="checkbox"/> Crop	<input checked="" type="checkbox"/> Pasture			

**AVERAGE CONDITIONS (check applicable)**

**BASE FLOW AS %**  0-25%  50%-75%  75-100%

**CHANNEL WIDTH**  25-50%  75-100%

**DOMINANT SUBSTRATE**

Silt/clay (fine or slick)  Cobble (2.5-10")

Sand (gritty)  Boulder (>10")

Gravel (0.1-2.5")  Bed rock

**WATER CLARITY**  Clear  Turbid (suspended matter)

Stained (clear, naturally colored)  Opaque (milky)

Other (chemicals, dyes)

**AQUATIC PLANTS IN STREAM**

Attached:  none  some  lots

Floating:  none  some  lots

**WILDLIFE IN OR AROUND STREAM**

(Evidence of)

Fish  Beaver  Deer

Snails  Other: Coyote

**STREAM SHADING**

Mostly shaded (≥75% coverage)

Halfway (≥50%)

Partially shaded (≥25%)

Unshaded (< 25%)

**CHANNEL DYNAMICS**

Downcutting  Bed scour

Widening  Bank failure

Headcutting  Bank scour

Unknown  Aggrading  Slope failure

Sed. deposition  Channelized

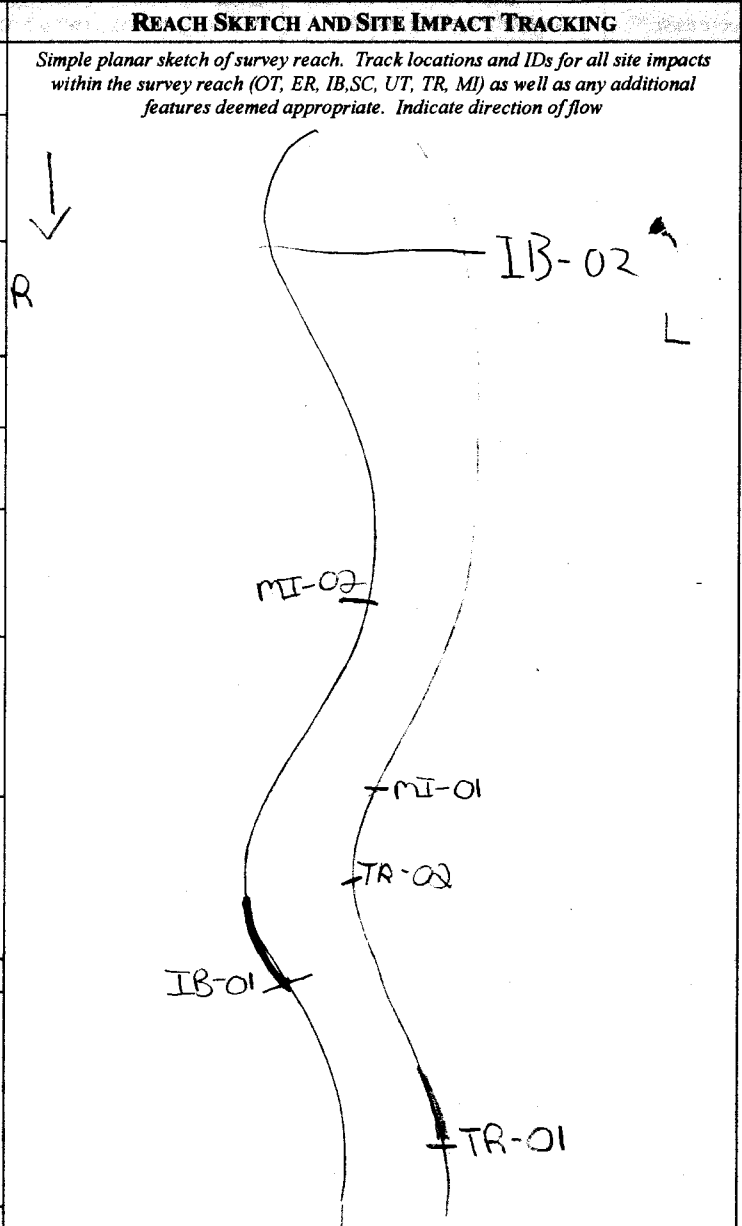
**CHANNEL DIMENSIONS (FACING DOWNSTREAM)**

Height: LT bank 25 (ft)

RT bank 15 (ft)

Width: Bottom 25 (ft)

Top 35 (ft)



**REACH ACCESSIBILITY**

<b>Good:</b> Open area in public ownership, sufficient room to stockpile materials, easy stream channel access for heavy equipment using existing roads or trails.	<b>Fair:</b> Forested or developed area adjacent to stream. Access requires tree removal or impact to landscaped areas. Stockpile areas small or distant from stream.	<b>Difficult:</b> Must cross wetland, steep slope, or sensitive areas to get to stream. Few areas to stockpile available and/or located a great distance from stream. Specialized heavy equipment required.
--	---	---

5 4 3 2 1

**NOTES:** (biggest problem you see in survey reach)

Large amounts of trash dumping along Brushy Hill Road and river deposited plastic sheeting

Some places of impacted buffer

REPORTED TO AUTHORITIES  YES  NO

-did not walk stretch of "weekeepeme River Farm"

**OVERALL STREAM CONDITION**

	Optimal	Suboptimal	Marginal	Poor
<b>IN-STREAM HABITAT</b>  <i>(May modify criteria based on appropriate habitat regime)</i>	Greater than 70% of substrate favorable for epifaunal colonization and fish cover; mix of snags, submerged logs, undercut banks, cobble or other stable habitat and at stage to allow full colonization potential (i.e., logs/snags that are <u>not</u> new fall and <u>not</u> transient).	40-70% mix of stable habitat; well-suited for full colonization potential; adequate habitat for maintenance of populations; presence of additional substrate in the form of newfall, but not yet prepared for colonization (may rate at high end of scale).	20-40% mix of stable habitat; habitat availability less than desirable; substrate frequently disturbed or removed.	Less than 20% stable habitat; lack of habitat is obvious; substrate unstable or lacking.
	20 19 18 17 <b>16</b>	15 14 13 12 11	10 9 8 7 6	5 4 3 2 1 0
<b>VEGETATIVE PROTECTION</b>  <i>(score each bank, determine sides by facing downstream)</i>	More than 90% of the streambank surfaces and immediate riparian zone covered by native vegetation, including trees, understory shrubs, or nonwoody macrophytes; vegetative disruption through grazing or mowing minimal or not evident; almost all plants allowed to grow naturally.	70-90% of the streambank surfaces covered by native vegetation, but one class of plants is not well-represented; disruption evident but not affecting full plant growth potential to any great extent; more than one-half of the potential plant stubble height remaining.	50-70% of the streambank surfaces covered by vegetation; disruption obvious; patches of bare soil or closely cropped vegetation common; less than one-half of the potential plant stubble height remaining.	Less than 50% of the streambank surfaces covered by vegetation; disruption of streambank vegetation is very high; vegetation has been removed to 5 centimeters or less in average stubble height.
	Left Bank 10 9	<b>8</b> 7 6	5 4 3	2 1 0
	Right Bank 10 9	8 <b>7</b> 6	5 4 3	2 1 0
<b>BANK EROSION</b>  <i>(facing downstream)</i>	Banks stable; evidence of erosion or bank failure absent or minimal; little potential for future problems. <5% of bank affected.	Grade and width stable; isolated areas of bank failure/erosion; likely caused by a pipe outfall, local scour, impaired riparian vegetation or adjacent use.	Past downcutting evident, active stream widening, banks actively eroding at a moderate rate; no threat to property or infrastructure	Active downcutting; tall banks on both sides of the stream eroding at a fast rate; erosion contributing significant amount of sediment to stream; obvious threat to property or infrastructure.
	Left Bank 10 <b>9</b>	8 7 6	5 4 3	2 1 0
	Right Bank 10 9	<b>8</b> 7 6	5 4 3	2 1 0
<b>FLOODPLAIN CONNECTION</b>	High flows (greater than bankfull) able to enter floodplain. Stream not deeply entrenched.	High flows (greater than bankfull) able to enter floodplain. Stream not deeply entrenched.	High flows (greater than bankfull) not able to enter floodplain. Stream deeply entrenched.	High flows (greater than bankfull) not able to enter floodplain. Stream deeply entrenched.
	20 19 18 17 <b>16</b>	15 14 13 12 11	10 9 8 7 6	5 4 3 2 1 0

**OVERALL BUFFER AND FLOODPLAIN CONDITION**

	Optimal	Suboptimal	Marginal	Poor
<b>VEGETATED BUFFER WIDTH</b>	Width of buffer zone >50 feet; human activities (i.e., parking lots, roadbeds, clear-cuts, lawns, crops) have not impacted zone.	Width of buffer zone 25-50 feet; human activities have impacted zone only minimally.	Width of buffer zone 10-25 feet; human activities have impacted zone a great deal.	Width of buffer zone <10 feet; little or no riparian vegetation due to human activities.
	Left Bank 10 9	<b>8</b> 7 6	5 4 3	2 1 0
	Right Bank 10 9	8 7 <b>6</b>	5 4 3	2 1 0
<b>FLOODPLAIN VEGETATION</b>	Predominant floodplain vegetation type is mature forest	Predominant floodplain vegetation type is young forest	Predominant floodplain vegetation type is shrub or old field	Predominant floodplain vegetation type is turf or crop land
	20 19 18 17 16	15 14 <b>13</b> 12 11	10 9 8 7 6	5 4 3 2 1 0
<b>FLOODPLAIN HABITAT</b>	Even mix of wetland and non-wetland habitats, evidence of standing/ponded water	Even mix of wetland and non-wetland habitats, no evidence of standing/ponded water	Either all wetland or all non-wetland habitat, evidence of standing/ponded water	Either all wetland or all non-wetland habitat, no evidence of standing/ponded water
	20 19 18 <b>17</b> 16	15 14 13 12 11	10 9 8 7 6	5 4 3 2 1 0
<b>FLOODPLAIN ENCROACHMENT</b>	No evidence of floodplain encroachment in the form of fill material, land development, or manmade structures	Minor floodplain encroachment in the form of fill material, land development, or manmade structures, but not effecting floodplain function	Moderate floodplain encroachment in the form of filling, land development, or manmade structures, some effect on floodplain function	Significant floodplain encroachment (i.e. fill material, land development, or man-made structures). Significant effect on floodplain function
	20 19 18 17 16	15 <b>14</b> 13 12 11	10 9 8 7 6	5 4 3 2 1 0

Sub Total In-stream: 64 /80 + Buffer/Floodplain: 58 /80 = Total Survey Reach 122 /160

TR

Trash and Debris

WATERSHED/SUBSHED: <u>Wekkepeemee</u>		DATE: <u>08/03/01</u>	ASSESSED BY: <u>CH, PP, SO, SK, HK</u>	
SURVEY REACH ID: <u>04</u>		TIME: <u>10:16 AM</u> PM	PHOTO ID: (Camera-Pic #) <u># 1</u>	
SITE ID: (Condition-#) <u>TR-01</u>		LAT <u>41:58.573</u> " LONG <u>73:22.980</u> " LMK <u>039</u>	GPS: (Unit ID)	
<b>TYPE:</b> <input type="checkbox"/> Industrial <input type="checkbox"/> Commercial <input checked="" type="checkbox"/> Residential	<b>MATERIAL:</b> <input checked="" type="checkbox"/> Plastic <input type="checkbox"/> Tires <input type="checkbox"/> Appliances <input type="checkbox"/> Automotive <input type="checkbox"/> Paper <input type="checkbox"/> Construction <input type="checkbox"/> Yard Waste <input checked="" type="checkbox"/> Other: <u>glass, fabric, wood</u>	<b>SOURCE:</b> <input type="checkbox"/> Unknown <input checked="" type="checkbox"/> Flooding <input checked="" type="checkbox"/> Illegal dump <input type="checkbox"/> Local outfall <input checked="" type="checkbox"/> Metal <input type="checkbox"/> Medical	<b>LOCATION:</b> <input type="checkbox"/> Stream <input checked="" type="checkbox"/> Riparian Area <input checked="" type="checkbox"/> Lt bank <input type="checkbox"/> Rt bank	<b>LAND OWNERSHIP:</b> <input type="checkbox"/> Public <input checked="" type="checkbox"/> Private <b>AMOUNT (# Pickup truck loads):</b> <u>1</u>
<b>POTENTIAL RESTORATION CANDIDATE</b> <input checked="" type="checkbox"/> Stream cleanup <input type="checkbox"/> Stream adoption segment <input type="checkbox"/> Removal/prevention of dumping <input type="checkbox"/> no <input type="checkbox"/> Other:				
If yes for trash or debris removal	<b>EQUIPMENT NEEDED:</b> <input type="checkbox"/> Heavy equipment <input checked="" type="checkbox"/> Trash bags <input type="checkbox"/> Unknown		<b>DUMPSTER WITHIN 100 FT:</b> <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Unknown	
	<b>WHO CAN DO IT:</b> <input checked="" type="checkbox"/> Volunteers <input type="checkbox"/> Local Gov <input type="checkbox"/> Hazmat Team <input type="checkbox"/> Other			
<b>CLEAN-UP POTENTIAL:</b> (Circle #)	A small amount of trash (i.e., less than two pickup truck loads) located inside a park with easy access	A large amount of trash, or bulk items, in a small area with easy access. Trash may have been dumped over a long period of time but it could be cleaned up in a few days, possibly with a small backhoe.	A large amount of trash or debris scattered over a large area, where access is very difficult. Or presence of drums or indications of hazardous materials	
	5	4	3	2
<b>NOTES:</b> - plastic tarp with a lot of textile material - potentially need shovels to clean up - near road, indicating farm-type materials - end point LMK 040 (41.58580°N, -73.22980°W) - extends 200+ ft down left bank - some material could be removed				
<b>REPORTED TO AUTHORITIES</b> <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO				

Conservation for town clean-up day



**WATERSHED/SUBSHED:** Weekeepee mee      **DATE:** 08/03/21      **ASSESSED BY:** CHL, PA, SA, SK, JLB  
**SURVEY REACH:** 04      **TIME:** 11:08 AM/PM      **PHOTO ID: (Camera-Pic #)**      **#** 2  
**SITE ID: (Condition-#)**      **START**    **LAT** 41° 58' 614"    **LONG** -73° 22' 818"    **LMK** 041      **GPS: (Unit ID)**  
**IB-01**      **END**      **LAT** 41° 58' 674"    **LONG** -73° 22' 23"    **LMK** 043

**IMPACTED BANK:**      **REASON INADEQUATE:**     Lack of vegetation     Too narrow     Widespread invasive plants  
 LT     RT     Both       Recently planted     Other: Understory clearing

**LAND USE:**      Private    Institutional    Golf Course    Park    Other Public  
 (Facing downstream)    LT Bank                    : Woods  
    RT Bank                    :

**DOMINANT LAND COVER:**      Paved    Bare ground    Turf/lawn    Tall grass    Shrub/scrub    Trees    Other  
 LT Bank                            :  
 RT Bank                            :

**INVASIVE PLANTS:**       None     Rare     Partial coverage     Extensive coverage     unknown

**STREAM SHADE PROVIDED?**     None     Partial     Full      **WETLANDS PRESENT?**     No     Yes     Unknown

**POTENTIAL RESTORATION CANDIDATE**     Active reforestation     Greenway design     Natural regeneration     Invasives removal  
 no       Other:

RESTORABLE AREA	REFORESTATION POTENTIAL: (Circle #)	Impacted area on public land where the riparian area does not appear to be used for any specific purpose; plenty of area available for planting	Impacted area on either public or private land that is presently used for a specific purpose; available area for planting adequate	Impacted area on private land where road; building encroachment or other feature significantly limits available area for planting
Length (ft): <u>          </u> <u>          </u> <u>          </u> LT    BANK    RT <u>          </u> <u>          </u> <u>          </u> Width (ft): <u>          </u> <u>          </u> <u>          </u> <u>          </u> <u>          </u> <u>          </u>				

**POTENTIAL CONFLICTS WITH REFORESTATION**     Widespread invasive plants     Potential contamination     Lack of sun  
 Poor/unsafe access to site     Existing impervious cover     Severe animal impacts (deer, beaver)     Other: private land use

**NOTES:**  
 - 75% stream shade, good amount of large tree  
 - brush piles in the flood plain  
 - appears to be active clearing on the right bank, construction equipment  
 - needs more of an understory / shrub layer





<b>WATERSHED/SUBSHED:</b> Weekeepromee		<b>DATE:</b> 08/03/21		<b>ASSESSED BY:</b> CH. P. SHICA	
<b>SURVEY REACH ID:</b> 04		<b>TIME:</b> 11:16 AM/PM		<b>PHOTO ID:</b> (Camera-Pic #) # 3	
<b>SITE ID:</b> (Condition-#) TR-02		<b>LAT</b> 41° 58' 31" <b>LONG</b> -73° 22' 81" <b>LMK</b> 042			<b>GPS:</b> (Unit ID)
<b>TYPE:</b> <input type="checkbox"/> Industrial <input type="checkbox"/> Commercial <input checked="" type="checkbox"/> Residential	<b>MATERIAL:</b> <input checked="" type="checkbox"/> Plastic <input type="checkbox"/> Tires <input type="checkbox"/> Appliances <input type="checkbox"/> Automotive <input type="checkbox"/> Paper <input type="checkbox"/> Construction <input type="checkbox"/> Yard Waste <input checked="" type="checkbox"/> Other: Styrofoam	<b>SOURCE:</b> <input type="checkbox"/> Unknown <input type="checkbox"/> Flooding <input checked="" type="checkbox"/> Illegal dump <input type="checkbox"/> Local outfall <input checked="" type="checkbox"/> Metal <input type="checkbox"/> Medical	<b>LOCATION:</b> <input type="checkbox"/> Stream <input checked="" type="checkbox"/> Riparian Area <input checked="" type="checkbox"/> Lt bank <input type="checkbox"/> Rt bank	<b>LAND OWNERSHIP:</b> <input type="checkbox"/> Public <input type="checkbox"/> Private <input checked="" type="checkbox"/> Unknown	
				<b>AMOUNT</b> (# Pickup truck loads): 1	
<b>POTENTIAL RESTORATION CANDIDATE</b> <input checked="" type="checkbox"/> Stream cleanup <input type="checkbox"/> Stream adoption segment <input type="checkbox"/> Removal/prevention of dumping <input type="checkbox"/> no <input type="checkbox"/> Other:					
<i>If yes for trash or debris removal</i>	<b>EQUIPMENT NEEDED:</b> <input type="checkbox"/> Heavy equipment <input checked="" type="checkbox"/> Trash bags <input type="checkbox"/> Unknown			<b>DUMPSTER WITHIN 100 FT:</b> <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Unknown	
	<b>WHO CAN DO IT:</b> <input checked="" type="checkbox"/> Volunteers <input type="checkbox"/> Local Gov <input type="checkbox"/> Hazmat Team <input type="checkbox"/> Other				
<b>CLEAN-UP POTENTIAL:</b> (Circle #)	A small amount of trash (i.e., less than two pickup truck loads) located inside a park with easy access	A large amount of trash, or bulk items, in a small area with easy access. Trash may have been dumped over a long period of time but it could be cleaned up in a few days, possibly with a small backhoe.		A large amount of trash or debris scattered over a large area, where access is very difficult. Or presence of drums or indications of hazardous materials	
	5	4		3	
<b>NOTES:</b> - UNKNOWN whether its private or public property - large storage can w/ combustible label, <u>potentially hazardous waste</u> - potentially some farm equipment + industrial use - gas canister					
<b>REPORTED TO AUTHORITIES</b> <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO					

"Agitene" barrell  
 CTDERP Sp. 11 response

WATERSHED/SUBSHED: <u>Weekapeemeet</u>	DATE: <u>08/03/21</u>	ASSESSED BY: <u>CH, PP, S, SO, HK</u>
SURVEY REACH ID: <u>04</u>	TIME: <u>11:40</u> AM/PM	PHOTO ID: (Camera-Pic #) # <u>4</u>
SITE ID: (Condition-#) <u>MI-01</u>	LAT <u>41° 58' 46"</u> LONG <u>-73° 22' 662"</u>	LMK: <u>044</u> GPS: (Unit ID)
POTENTIAL RESTORATION CANDIDATE <input type="checkbox"/> Storm water retrofit <input type="checkbox"/> Stream restoration <input type="checkbox"/> Riparian Management <input type="checkbox"/> no <input type="checkbox"/> Discharge Prevention <input checked="" type="checkbox"/> Other: <u>UNKNOWN</u>		
DESCRIBE: <u>and PVC channel</u> - series of metal pipes 10 feet from active flow, on private property - 1-2 inch in diameter, UNKNOWN purpose - on left bank		
REPORTED TO LOCAL AUTHORITIES <input type="checkbox"/> Yes <input type="checkbox"/> No		

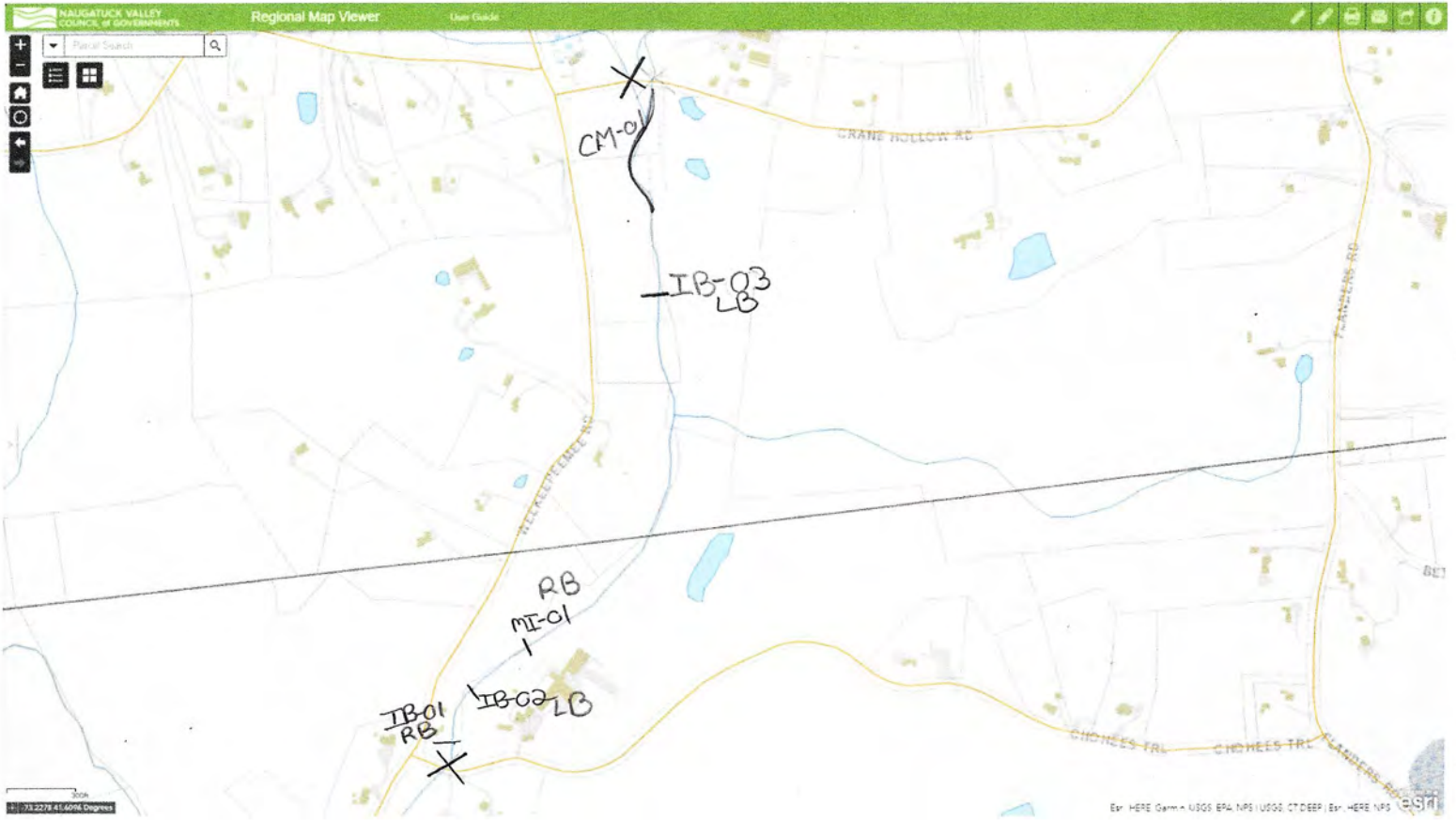
WATERSHED/SUBSHED: <u>Weekapeemeet</u>	DATE: <u>08/03/21</u>	ASSESSED BY: <u>CH, PP, SO, SK, HK</u>
SURVEY REACH ID: <u>04</u>	TIME: <u>1:35</u> AM/PM	PHOTO ID: (Camera-Pic #) # <u>5</u>
SITE ID: (Condition-#) <u>MI-02</u>	LAT <u>41° 59' 09"</u> LONG <u>-73° 22' 924"</u>	LMK: <u>046</u> GPS: (Unit ID)
POTENTIAL RESTORATION CANDIDATE <input type="checkbox"/> Storm water retrofit <input type="checkbox"/> Stream restoration <input type="checkbox"/> Riparian Management <input type="checkbox"/> no <input type="checkbox"/> Discharge Prevention <input checked="" type="checkbox"/> Other: <u>Set back on property more</u>		
DESCRIBE: - 3 inch water irrigation pump to a field 25 feet from river flow <u>holding tanks also present</u> - Water filtration system also in field 50 feet from river flow - could be set back more, go into it on top of erosion site - outside bank erosion around sharp bend in the river		
REPORTED TO LOCAL AUTHORITIES <input type="checkbox"/> Yes <input type="checkbox"/> No		

WATERSHED/SUBSHED:	DATE: ___/___/___	ASSESSED BY:
SURVEY REACH ID:	TIME: ___:___ AM/PM	PHOTO ID: (Camera-Pic #) #
SITE ID: (Condition-#) MI-___	LAT ___° ___' ___" LONG ___° ___' ___"	LMK: ___ GPS: (Unit ID)
POTENTIAL RESTORATION CANDIDATE <input type="checkbox"/> Storm water retrofit <input type="checkbox"/> Stream restoration <input type="checkbox"/> Riparian Management <input type="checkbox"/> no <input type="checkbox"/> Discharge Prevention <input type="checkbox"/> Other:		
DESCRIBE:		
REPORTED TO LOCAL AUTHORITIES <input type="checkbox"/> Yes <input type="checkbox"/> No		

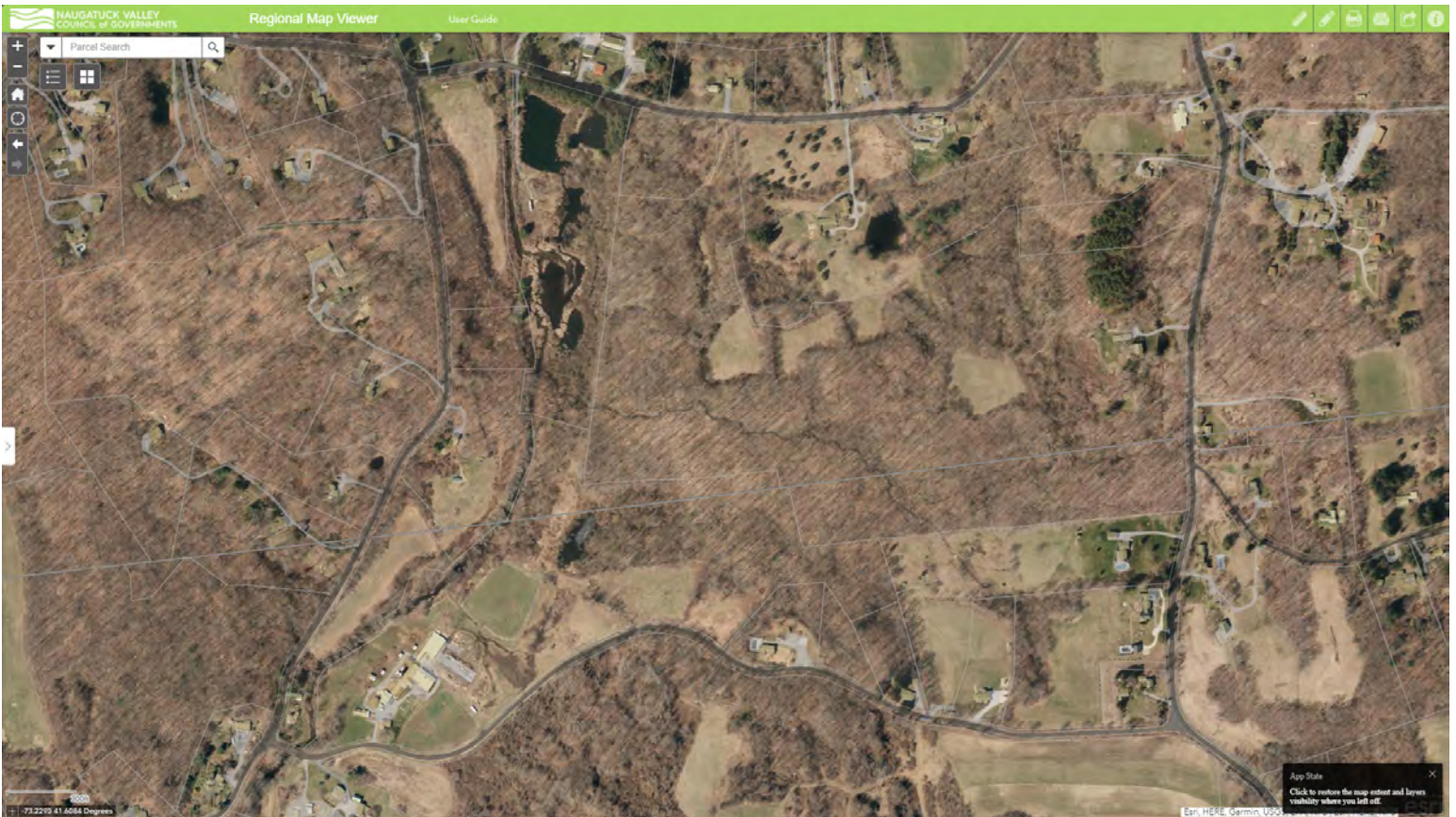
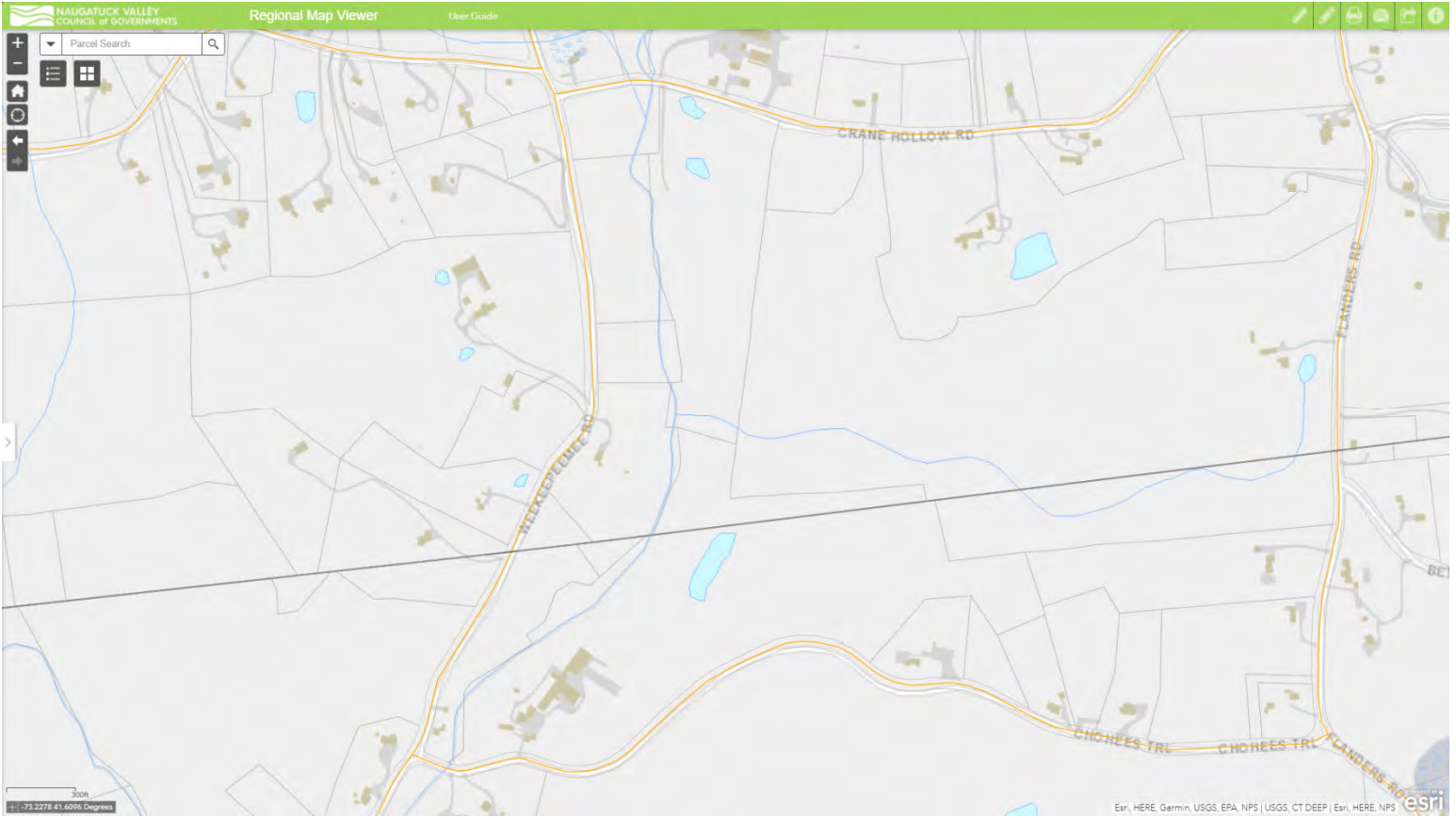


WATERSHED/SUBSHED: <u>Wetkeeperme</u>		DATE: <u>8/3/21</u>	ASSESSED BY: <u>CA PA SK</u>				
SURVEY REACH: <u>04</u>		TIME: <u>2:41</u> AM/PM	PHOTO ID: (Camera-Pic #) <u>6</u> #				
SITE ID: (Condition-#) <u>IB-02</u>	START LAT <u>41° 60' 27.5"</u> LONG <u>-73° 22' 52"</u> LMK <u>047</u>	GPS: (Unit ID)					
	END LAT <u>41° 60' 33.0"</u> LONG <u>-73° 22' 52"</u> LMK <u>048</u>						
IMPACTED BANK: <input type="checkbox"/> LT <input type="checkbox"/> RT <input checked="" type="checkbox"/> Both	REASON INADEQUATE: <input checked="" type="checkbox"/> Lack of vegetation <input type="checkbox"/> Too narrow <input type="checkbox"/> Widespread invasive plants <input type="checkbox"/> Recently planted <input type="checkbox"/> Other:						
LAND USE: (Facing downstream) LT Bank RT Bank	Private <input checked="" type="checkbox"/> <input type="checkbox"/>	Institutional <input type="checkbox"/> <input type="checkbox"/>	Golf Course <input type="checkbox"/> <input type="checkbox"/>	Park <input type="checkbox"/> <input type="checkbox"/>	Other Public <input checked="" type="checkbox"/> : <u>UTILITY</u> <input checked="" type="checkbox"/> : <u>UTILITY</u>		
DOMINANT LAND COVER: LT Bank RT Bank	Paved <input type="checkbox"/> <input type="checkbox"/>	Bare ground <input type="checkbox"/> <input type="checkbox"/>	Turf/lawn <input type="checkbox"/> <input type="checkbox"/>	Tall grass <input type="checkbox"/> <input type="checkbox"/>	Shrub/scrub <input checked="" type="checkbox"/> <input type="checkbox"/>	Trees <input type="checkbox"/> <input type="checkbox"/>	Other <input type="checkbox"/> :
INVASIVE PLANTS:	<input type="checkbox"/> None	<input type="checkbox"/> Rare	<input checked="" type="checkbox"/> Partial coverage	<input type="checkbox"/> Extensive coverage	<input type="checkbox"/> unknown		
STREAM SHADE PROVIDED?	<input checked="" type="checkbox"/> None	<input type="checkbox"/> Partial	<input type="checkbox"/> Full	WETLANDS PRESENT? <input type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> Unknown			
POTENTIAL RESTORATION CANDIDATE <input type="checkbox"/> Active reforestation <input type="checkbox"/> Greenway design <input checked="" type="checkbox"/> Natural regeneration <input type="checkbox"/> Invasives removal <input type="checkbox"/> no <input checked="" type="checkbox"/> Other: <u>maintain shrub layer</u>							
RESTORABLE AREA		REFORESTATION POTENTIAL: (Circle #)	Impacted area on public land where the riparian area does not appear to be used for any specific purpose; plenty of area available for planting	Impacted area on either public or private land that is presently used for a specific purpose; available area for planting adequate	Impacted area on private land where road; building encroachment or other feature significantly limits available area for planting		
Length (ft):	LT BANK <u>300</u> RT <u>300</u>				5	4	3
Width (ft):	<u>10</u> <u>50</u>						
POTENTIAL CONFLICTS WITH REFORESTATION <input type="checkbox"/> Widespread invasive plants <input type="checkbox"/> Potential contamination <input type="checkbox"/> Lack of sun <input type="checkbox"/> Poor/unsafe access to site <input type="checkbox"/> Existing impervious cover <input type="checkbox"/> Severe animal impacts (deer, beaver) <input checked="" type="checkbox"/> Other: <u>power lines</u>							
NOTES: <ul style="list-style-type: none"> <li>- can't plant trees due to power lines</li> <li>- very little shade</li> <li>- multiple instances of invasive plant species - <u>Multiflora rose</u>, <u>Russian olive</u>, <u>Mugwort</u></li> <li>- maintaining shrub layer is best solution</li> <li>- more room for restoration on right bank</li> <li>↳ left bank - active crop + greenhouse production</li> </ul>							

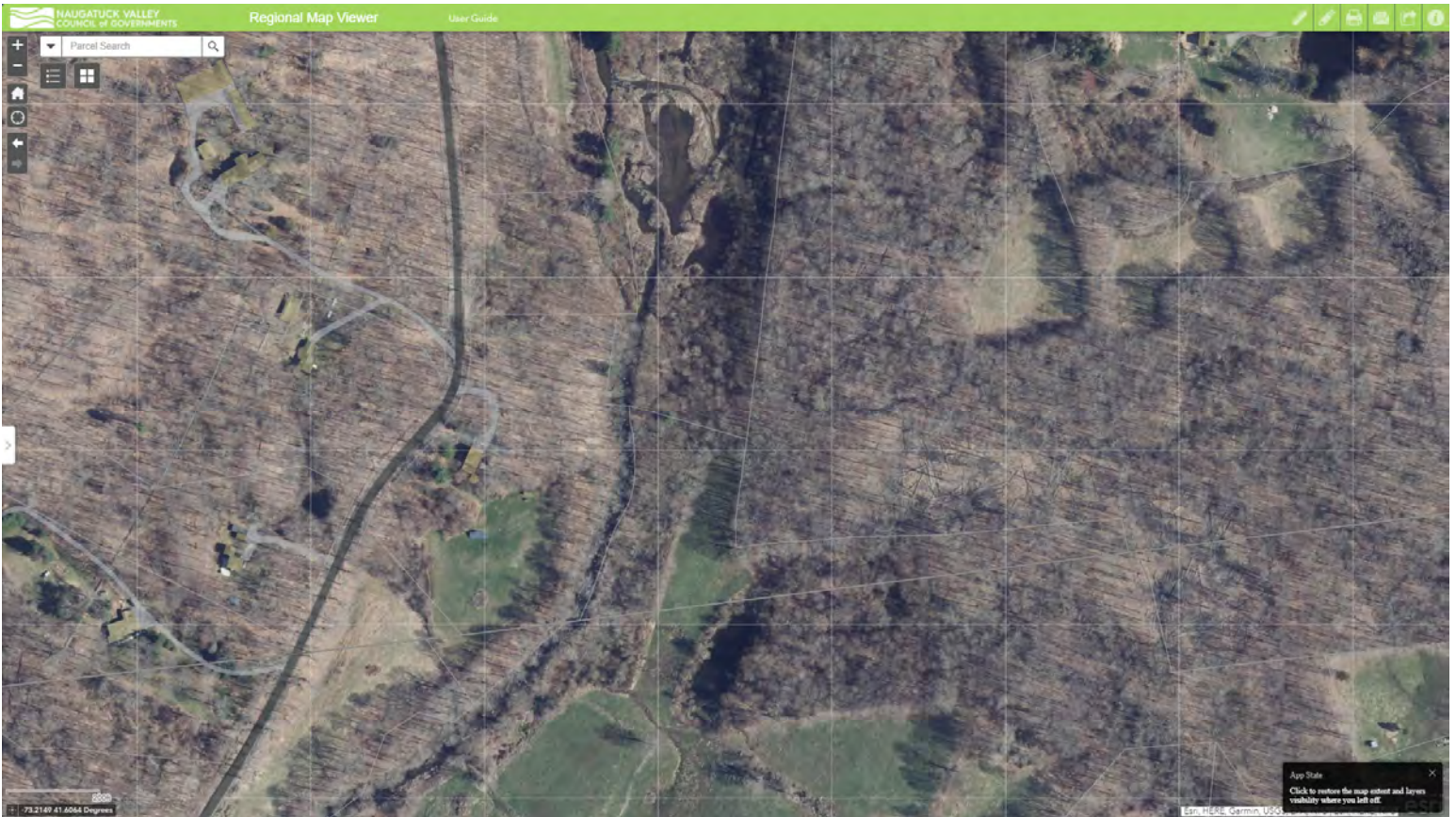
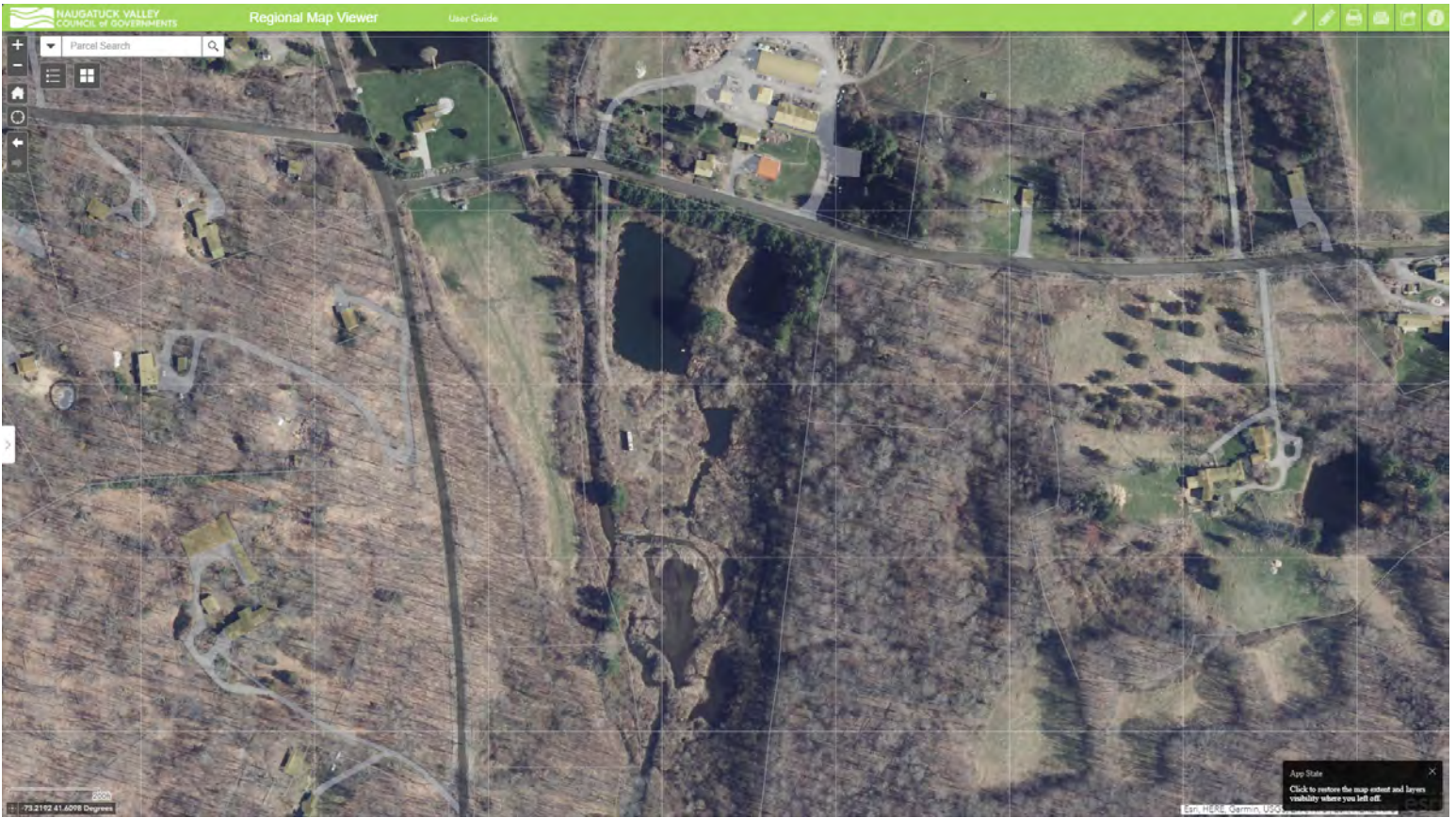
# Reach 5 – Chohees Trail to Crane Hollow Road



# Reach 5 – Chohees Trail to Crane Hollow Road







Parcel Search 🔍



73.2199 41.6277 Degrees

Esri, HERE, Garmin, USGS, EA, NPS, Imagery © Mapbox



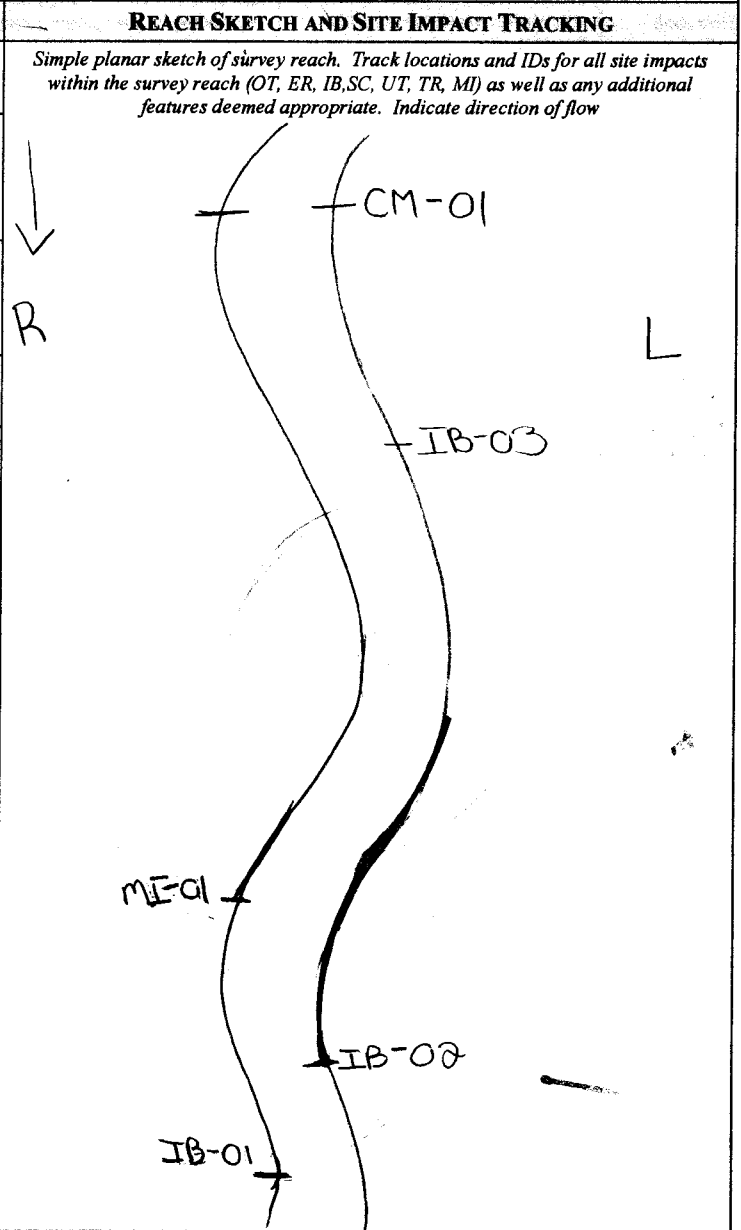




SURVEY REACH ID: <u>05</u>	WTRSHD/SUBSHD: <u>Weekeepemee</u>	DATE: <u>08/03/21</u>	ASSESSED BY: <u>CH, PR, SK, SO, HK</u>
START TIME: <u>12:41 AM/PM</u> LMK: <u>049</u>	END TIME: <u>3:14 AM/PM</u> LMK: <u>057</u>	GPS ID:	
LAT <u>41:604'23"</u> LONG <u>-73:225'40"</u>	LAT <u>41:626'2"</u> LONG <u>-73:221'91"</u>		
DESCRIPTION: <u>Chochees Trail Bridge</u>		DESCRIPTION: <u>Crane Hollow Road Bridge</u>	

RAIN IN LAST 24 HOURS <input type="checkbox"/> Heavy rain <input type="checkbox"/> Steady rain <input checked="" type="checkbox"/> None <input type="checkbox"/> Intermittent <input type="checkbox"/> Trace	PRESENT CONDITIONS <input type="checkbox"/> Heavy rain <input type="checkbox"/> Steady rain <input type="checkbox"/> Intermittent <input type="checkbox"/> Clear <input type="checkbox"/> Trace <input checked="" type="checkbox"/> Overcast <input type="checkbox"/> Partly cloudy
SURROUNDING LAND USE: <input type="checkbox"/> Industrial <input type="checkbox"/> Commercial <input type="checkbox"/> Golf course <input type="checkbox"/> Park	<input type="checkbox"/> Urban/Residential <input checked="" type="checkbox"/> Suburban/Res <input checked="" type="checkbox"/> Forested <input type="checkbox"/> Institutional <input checked="" type="checkbox"/> Crop <input checked="" type="checkbox"/> Pasture <input type="checkbox"/> Other:

AVERAGE CONDITIONS (check applicable)
BASE FLOW AS % <input type="checkbox"/> 0-25% <input checked="" type="checkbox"/> 50%-75% CHANNEL WIDTH <input type="checkbox"/> 25-50% <input type="checkbox"/> 75-100%
DOMINANT SUBSTRATE <input type="checkbox"/> Silt/clay (fine or slick) <input checked="" type="checkbox"/> Cobble (2.5 -10") <input type="checkbox"/> Sand (gritty) <input type="checkbox"/> Boulder (>10") <input type="checkbox"/> Gravel (0.1-2.5") <input type="checkbox"/> Bed rock
WATER CLARITY <input checked="" type="checkbox"/> Clear <input type="checkbox"/> Turbid (suspended matter) <input type="checkbox"/> Stained (clear, naturally colored) <input type="checkbox"/> Opaque (milky) <input type="checkbox"/> Other (chemicals, dyes)
AQUATIC PLANTS IN STREAM Attached: <input type="checkbox"/> none <input checked="" type="checkbox"/> some <input type="checkbox"/> lots Floating: <input checked="" type="checkbox"/> none <input type="checkbox"/> some <input type="checkbox"/> lots
WILDLIFE IN OR AROUND STREAM (Evidence of) <input checked="" type="checkbox"/> Fish <input type="checkbox"/> Beaver <input checked="" type="checkbox"/> Deer <input type="checkbox"/> Snails <input checked="" type="checkbox"/> Other: <u>Coyote</u>
STREAM SHADING (water surface) <input type="checkbox"/> Mostly shaded (≥75% coverage) <input type="checkbox"/> Halfway (≥50%) <input checked="" type="checkbox"/> Partially shaded (≥25%) <input type="checkbox"/> Unshaded (< 25%)
CHANNEL DYNAMICS <input type="checkbox"/> Downcutting <input type="checkbox"/> Bed scour <input type="checkbox"/> Widening <input type="checkbox"/> Bank failure <input type="checkbox"/> Headcutting <input type="checkbox"/> Bank scour <input type="checkbox"/> Aggrading <input type="checkbox"/> Slope failure <input type="checkbox"/> Sed. deposition <input checked="" type="checkbox"/> Channelized <input type="checkbox"/> Unknown
CHANNEL DIMENSIONS (FACING DOWNSTREAM) Height: LT bank <u>5</u> (ft) RT bank <u>5</u> (ft) Width: Bottom <u>25</u> (ft) Top <u>35</u> (ft)



REACH ACCESSIBILITY		
Good: Open area in public ownership, sufficient room to stockpile materials, easy stream channel access for heavy equipment using existing roads or trails.	Fair: Forested or developed area adjacent to stream. Access requires tree removal or impact to landscaped areas. Stockpile areas small or distant from stream.	Difficult: Must cross wetland, steep slope, or sensitive areas to get to stream. Few areas to stockpile available and/or located a great distance from stream. Specialized heavy equipment required.
5	4	3

NOTES: (biggest problem you see in survey reach)

Impacted buffers, more canopy layer needed  
clear channelized sections  
A lot of in stream algae growth

REPORTED TO AUTHORITIES  Yes  No

**OVERALL STREAM CONDITION**

	Optimal	Suboptimal	Marginal	Poor
<b>IN-STREAM HABITAT</b>  <i>(May modify criteria based on appropriate habitat regime)</i>	Greater than 70% of substrate favorable for epifaunal colonization and fish cover; mix of snags, submerged logs, undercut banks, cobble or other stable habitat and at stage to allow full colonization potential (i.e., logs/snags that are <u>not</u> new fall and <u>not</u> transient).	40-70% mix of stable habitat; well-suited for full colonization potential; adequate habitat for maintenance of populations; presence of additional substrate in the form of newfall, but not yet prepared for colonization (may rate at high end of scale).	20-40% mix of stable habitat; habitat availability less than desirable; substrate frequently disturbed or removed.	Less than 20% stable habitat; lack of habitat is obvious; substrate unstable or lacking.
	20 19 18 17 16	15 14 <b>13</b> 12 11	10 9 8 7 6	5 4 3 2 1 0
<b>VEGETATIVE PROTECTION</b>  <i>(score each bank, determine sides by facing downstream)</i>	More than 90% of the streambank surfaces and immediate riparian zone covered by native vegetation, including trees, understory shrubs, or nonwoody macrophytes; vegetative disruption through grazing or mowing minimal or not evident; almost all plants allowed to grow naturally.	70-90% of the streambank surfaces covered by native vegetation, but one class of plants is not well-represented; disruption evident but not affecting full plant growth potential to any great extent; more than one-half of the potential plant stubble height remaining.	50-70% of the streambank surfaces covered by vegetation; disruption obvious; patches of bare soil or closely cropped vegetation common; less than one-half of the potential plant stubble height remaining.	Less than 50% of the streambank surfaces covered by vegetation; disruption of streambank vegetation is very high; vegetation has been removed to 5 centimeters or less in average stubble height.
	Left Bank 10 9	8 7 <b>6</b>	5 4 3	2 1 0
	Right Bank 10 9	8 <b>7</b> 6	5 4 3	2 1 0
<b>BANK EROSION</b> <i>(facing downstream)</i>	Banks stable; evidence of erosion or bank failure absent or minimal; little potential for future problems. <5% of bank affected.	Grade and width stable; isolated areas of bank failure/erosion; likely caused by a pipe outfall, local scour, impaired riparian vegetation or adjacent use.	Past downcutting evident, active stream widening, banks actively eroding at a moderate rate; no threat to property or infrastructure	Active downcutting; tall banks on both sides of the stream eroding at a fast rate; erosion contributing significant amount of sediment to stream; obvious threat to property or infrastructure.
	Left Bank 10 9	<b>8</b> 7 6	5 4 3	2 1 0
	Right Bank 10 9	<b>8</b> 7 6	5 4 3	2 1 0
<b>FLOODPLAIN CONNECTION</b>	High flows (greater than bankfull) able to enter floodplain. Stream not deeply entrenched.	High flows (greater than bankfull) able to enter floodplain. Stream not deeply entrenched.	High flows (greater than bankfull) not able to enter floodplain. Stream deeply entrenched.	High flows (greater than bankfull) not able to enter floodplain. Stream deeply entrenched.
	20 19 18 17 <b>16</b>	15 14 13 12 11	10 9 8 7 6	5 4 3 2 1 0

**OVERALL BUFFER AND FLOODPLAIN CONDITION**

	Optimal	Suboptimal	Marginal	Poor
<b>VEGETATED BUFFER WIDTH</b>	Width of buffer zone >50 feet; human activities (i.e., parking lots, roadbeds, clear-cuts, lawns, crops) have not impacted zone.	Width of buffer zone 25-50 feet; human activities have impacted zone only minimally.	Width of buffer zone 10-25 feet; human activities have impacted zone a great deal.	Width of buffer zone <10 feet; little or no riparian vegetation due to human activities.
	Left Bank 10 9	8 7 6	<b>5</b> 4 3	2 1 0
	Right Bank 10 9	8 7 <b>6</b>	5 4 3	2 1 0
<b>FLOODPLAIN VEGETATION</b>	Predominant floodplain vegetation type is mature forest	Predominant floodplain vegetation type is young forest	Predominant floodplain vegetation type is shrub or old field	Predominant floodplain vegetation type is turf or crop land
	20 19 18 17 16	15 14 13 12 11	<b>10</b> 9 8 7 6	5 4 3 2 1 0
<b>FLOODPLAIN HABITAT</b>	Even mix of wetland and non-wetland habitats, evidence of standing/ponded water	Even mix of wetland and non-wetland habitats, no evidence of standing/ponded water	Either all wetland or all non-wetland habitat, evidence of standing/ponded water	Either all wetland or all non-wetland habitat, no evidence of standing/ponded water
	20 19 18 <b>17</b> 16	15 14 13 12 11	10 9 8 7 6	5 4 3 2 1 0
<b>FLOODPLAIN ENCROACHMENT</b>	No evidence of floodplain encroachment in the form of fill material, land development, or manmade structures	Minor floodplain encroachment in the form of fill material, land development, or manmade structures, but not effecting floodplain function	Moderate floodplain encroachment in the form of filling, land development, or manmade structures, some effect on floodplain function	Significant floodplain encroachment (i.e. fill material, land development, or man-made structures). Significant effect on floodplain function
	20 19 18 17 16	15 <b>14</b> 13 12 11	10 9 8 7 6	5 4 3 2 1 0

Sub Total In-stream: 58 /80 + Buffer/Floodplain: 52 /80 = Total Survey Reach 110 /160



WATERSHED/SUBSHED: <u>Wrekeepemee</u>		DATE: <u>08/04/21</u>	ASSESSED BY: <u>CH, PP, SK, SO, H15</u>
SURVEY REACH: <u>05</u>		TIME: <u>12:51 AM (PM)</u>	PHOTO ID: (Camera-Pic #) <u># 1</u>
SITE ID: (Condition-#) <u>IB-01</u>	START	LAT <u>41°60'456"</u> LONG <u>-73°22'530"</u>	LMK <u>050</u>
	END	LAT <u>41°60'480"</u> LONG <u>-73°22'484"</u>	LMK <u>051</u>
GPS: (Unit ID)			
IMPACTED BANK: <input type="checkbox"/> LT <input checked="" type="checkbox"/> RT <input type="checkbox"/> Both	REASON INADEQUATE: <input checked="" type="checkbox"/> Lack of vegetation <input type="checkbox"/> Too narrow <input type="checkbox"/> Widespread invasive plants <input type="checkbox"/> Recently planted <input type="checkbox"/> Other:		
LAND USE: (Facing downstream) LT Bank	Private	Institutional	Golf Course
RT Bank			Park
			Other Public
DOMINANT LAND COVER:	Paved	Bare ground	Turf/lawn
LT Bank			Tall grass
RT Bank			Shrub/scrub
			Trees
			Other
INVASIVE PLANTS:	<input type="checkbox"/> None	<input type="checkbox"/> Rare	<input checked="" type="checkbox"/> Partial coverage
			<input type="checkbox"/> Extensive coverage <input type="checkbox"/> unknown
STREAM SHADE PROVIDED?	<input checked="" type="checkbox"/> None	<input type="checkbox"/> Partial	<input type="checkbox"/> Full
			WETLANDS PRESENT? <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> Unknown
POTENTIAL RESTORATION CANDIDATE <input type="checkbox"/> Active reforestation <input type="checkbox"/> Greenway design <input checked="" type="checkbox"/> Natural regeneration <input type="checkbox"/> Invasives removal			
<input type="checkbox"/> no <input type="checkbox"/> Other:			
RESTORABLE AREA	REFORESTATION POTENTIAL: (Circle #)	Impacted area on public land where the riparian area does not appear to be used for any specific purpose; plenty of area available for planting	Impacted area on either public or private land that is presently used for a specific purpose; available area for planting adequate
Length (ft):		Impacted area on private land where road; building encroachment or other feature significantly limits available area for planting	
Width (ft):			
LT BANK		5	4
RT BANK			3
			2
			1
POTENTIAL CONFLICTS WITH REFORESTATION <input type="checkbox"/> Widespread invasive plants <input type="checkbox"/> Potential contamination <input type="checkbox"/> Lack of sun			
<input type="checkbox"/> Poor/unsafe access to site <input type="checkbox"/> Existing impervious cover <input type="checkbox"/> Severe animal impacts (deer, beaver) <input checked="" type="checkbox"/> Other: <u>private ownership</u>			
NOTES: - 10 ft of a Shrub layer next to stream - needs more tree cover and Stream shade - plenty of lawn for planting, could stop mowing 2 feet back from existing shrub layer buffer - stretch from bridge upstream ~ 100-150 ft is moved to rocky bank / gravel bar, full turf in this area; stream is not shaded			



WATERSHED/SUBSHED: Weekepeemeel DATE: 06/04/21 ASSESSED BY: CH, PP, SG, CO, HK

SURVEY REACH: 05 TIME: 1:01 AM (PM) PHOTO ID: (Camera-Pic #) # 2

SITE ID: (Condition-#) IB-2 START LAT 41° 60' 480" LONG -73° 22' 484" LMK 051 GPS: (Unit ID)  
 END LAT 41° 60' 630" LONG -73° 22' 325" LMK 054

IMPACTED BANK:  LT  RT  Both REASON INADEQUATE:  Lack of vegetation  Too narrow  Widespread invasive plants  
 Recently planted  Other: very close pasture land

LAND USE: Private Institutional Golf Course Park Other Public  
 (Facing downstream) LT Bank     :  
 RT Bank     :

DOMINANT LAND COVER: Paved Bare ground Turf/lawn Tall grass Shrub/scrub Trees Other  
 LT Bank       : invasives  
 RT Bank       :

INVASIVE PLANTS:  None  Rare  Partial coverage  Extensive coverage  unknown

STREAM SHADE PROVIDED?  None  Partial  Full WETLANDS PRESENT?  No  Yes  Unknown

POTENTIAL RESTORATION CANDIDATE  Active reforestation  Greenway design  Natural regeneration  Invasives removal  
 no  Other: cow fencing adjustment

RESTORABLE AREA	REFORESTATION POTENTIAL: (Circle #)	Impacted area on public land where the riparian area does not appear to be used for any specific purpose; plenty of area available for planting	Impacted area on either public or private land that is presently used for a specific purpose; available area for planting adequate	Impacted area on private land where road; building encroachment or other feature significantly limits available area for planting				
		5	4	3	2	1		
Length (ft): <u>1000</u> LT BANK <u>-</u> RT <u>-</u> Width (ft): <u>15</u>								

POTENTIAL CONFLICTS WITH REFORESTATION  Widespread invasive plants  Potential contamination  Lack of sun  
 Poor/unsafe access to site  Existing impervious cover  Severe animal impacts (deer, beaver)  Other: private ownership

NOTES:  
 - Cow fencing and pasture only 8 ft from river flow  
 - existing buffer is many invasives plants  
 - little canopy cover  
 - livestock fencing should be moved back and secured  
 - more trees / large buffer plants needed  
 - invasives removal needed as well  
 - spans a large length along river ~ 1000 ft  
 - Approx 20 beef cows in pasture

WATERSHED/SUBSHED: Weekeepeeme	DATE: 08/04/21	ASSESSED BY: CH, PP, SK, SO, HK
SURVEY REACH ID: 05	TIME: 1:13 AM/PM	PHOTO ID: (Camera-Pic #) # 3
SITE ID: (Condition-#) MI-01	LAT 41° 605' 36 " LONG -73° 22' 486 " LMK: 052	GPS: (Unit ID)
<b>POTENTIAL RESTORATION CANDIDATE</b> <input type="checkbox"/> Storm water retrofit <input type="checkbox"/> Stream restoration <input type="checkbox"/> Riparian Management <input type="checkbox"/> no <input type="checkbox"/> Discharge Prevention <input checked="" type="checkbox"/> Other: Set back animals, natural regen.		
<b>DESCRIBE:</b> END LMK 053 -goats and chickens 10 feet from river flow, extends 150 ft + in length -good shrublayer and some tree cover, above river bank (good fencing + oo) -maintain existing buffer, potentially set back animals further -6 goats ; 25 chickens		
REPORTED TO LOCAL AUTHORITIES <input type="checkbox"/> Yes <input type="checkbox"/> No		

WATERSHED/SUBSHED:	DATE: ___/___/___	ASSESSED BY:
SURVEY REACH ID:	TIME: ___:___ AM/PM	PHOTO ID: (Camera-Pic #) #
SITE ID: (Condition-#) MI-___	LAT ___° ___' ___" LONG ___° ___' ___" LMK: ___	GPS: (Unit ID)
<b>POTENTIAL RESTORATION CANDIDATE</b> <input type="checkbox"/> Storm water retrofit <input type="checkbox"/> Stream restoration <input type="checkbox"/> Riparian Management <input type="checkbox"/> no <input type="checkbox"/> Discharge Prevention <input type="checkbox"/> Other:		
<b>DESCRIBE:</b>		
REPORTED TO LOCAL AUTHORITIES <input type="checkbox"/> Yes <input type="checkbox"/> No		

WATERSHED/SUBSHED:	DATE: ___/___/___	ASSESSED BY:
SURVEY REACH ID:	TIME: ___:___ AM/PM	PHOTO ID: (Camera-Pic #) #
SITE ID: (Condition-#) MI-___	LAT ___° ___' ___" LONG ___° ___' ___" LMK: ___	GPS: (Unit ID)
<b>POTENTIAL RESTORATION CANDIDATE</b> <input type="checkbox"/> Storm water retrofit <input type="checkbox"/> Stream restoration <input type="checkbox"/> Riparian Management <input type="checkbox"/> no <input type="checkbox"/> Discharge Prevention <input type="checkbox"/> Other:		
<b>DESCRIBE:</b>		
REPORTED TO LOCAL AUTHORITIES <input type="checkbox"/> Yes <input type="checkbox"/> No		



<b>WATERSHED/SUBSHED:</b> <u>Weekkeepemee</u>		<b>DATE:</b> <u>08/04/21</u>	<b>ASSESSED BY:</b> <u>CH, PP, SK, SQ, JK</u>				
<b>SURVEY REACH:</b> <u>05</u>		<b>TIME:</b> <u>2:14 AM</u> (PM)	<b>PHOTO ID: (Camera-Pic #)</b> # <u>4</u>				
<b>SITE ID: (Condition-#)</b> <u>IB-03</u>	<b>START</b> LAT <u>41°60'89.6"</u> LONG <u>-73°22'12.4"</u> LMK <u>055</u>	<b>GPS: (Unit ID)</b>					
	<b>END</b> LAT <u>41°61'6.2"</u> LONG <u>-73°22'19.1"</u> LMK <u>057</u>						
<b>IMPACTED BANK:</b> <input checked="" type="checkbox"/> LT <input type="checkbox"/> RT <input type="checkbox"/> Both	<b>REASON INADEQUATE:</b> <input checked="" type="checkbox"/> Lack of vegetation <input type="checkbox"/> Too narrow <input checked="" type="checkbox"/> Widespread invasive plants <input type="checkbox"/> Recently planted <input type="checkbox"/> Other:						
<b>LAND USE:</b> (Facing downstream) LT Bank	Private	Institutional	Golf Course	Park	Other Public		
RT Bank	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
<b>DOMINANT LAND COVER:</b>	Paved	Bare ground	Turf/lawn	Tall grass	Shrub/scrub	Trees	Other
LT Bank	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
RT Bank	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<b>INVASIVE PLANTS:</b>	<input type="checkbox"/> None	<input type="checkbox"/> Rare	<input type="checkbox"/> Partial coverage	<input checked="" type="checkbox"/> Extensive coverage		<input type="checkbox"/> unknown	
<b>STREAM SHADE PROVIDED?</b> <input checked="" type="checkbox"/> None <input type="checkbox"/> Partial <input type="checkbox"/> Full		<b>WETLANDS PRESENT?</b> <input type="checkbox"/> No <input checked="" type="checkbox"/> Yes <input type="checkbox"/> Unknown					
<b>POTENTIAL RESTORATION CANDIDATE</b> <input checked="" type="checkbox"/> Active reforestation <input type="checkbox"/> Greenway design <input checked="" type="checkbox"/> Natural regeneration <input type="checkbox"/> Invasives removal		<input type="checkbox"/> no <input type="checkbox"/> Other:					
<b>RESTORABLE AREA</b>		<b>REFORESTATION POTENTIAL:</b> (Circle #)	Impacted area on public land where the riparian area does not appear to be used for any specific purpose; plenty of area available for planting	Impacted area on either public or private land that is presently used for a specific purpose; available area for planting adequate	Impacted area on private land where road; building encroachment or other feature significantly limits available area for planting		
Length (ft): <u>600</u>	LT BANK RT					5	(4)
Width (ft): <u>20</u>							
<b>POTENTIAL CONFLICTS WITH REFORESTATION</b> <input type="checkbox"/> Widespread invasive plants <input type="checkbox"/> Potential contamination <input type="checkbox"/> Lack of sun <input type="checkbox"/> Poor/unsafe access to site <input type="checkbox"/> Existing impervious cover <input type="checkbox"/> Severe animal impacts (deer, beaver) <input type="checkbox"/> Other:							
<b>NOTES:</b> - former excavation area along stream; old gravel ponds - very little tree layer - decent shrub layer, Russian olive + Phragmites + Knotweed - need more trees/canopy for stream shade and invasive removal							



WATERSHED/SUBSHED: <u>Weekepeemee</u>		DATE: <u>08/04/21</u>	ASSESSED BY: <u>CH, PP, OK, SO, HK</u>
SURVEY REACH ID: <u>05</u>		TIME: <u>2:45</u> AM (PM)	PHOTO ID: (Camera-Pic #) # <u>5</u>
SITE ID: (Condition-#) <u>CM-01</u>	START LAT <u>41° 61' 04.3"</u>	LONG <u>-73° 22' 15.2"</u>	LMK <u>056</u>
	END LAT <u>41° 61' 26.2"</u>	LONG <u>-73° 22' 19.1"</u>	LMK <u>057</u>
GPS: (Unit ID)			

TYPE:  Channelization  Bank armoring  concrete channel  Floodplain encroachment  Other:

<b>MATERIAL:</b> <input type="checkbox"/> Concrete <input type="checkbox"/> Gabion <input type="checkbox"/> Rip Rap <input checked="" type="checkbox"/> Earthen <input type="checkbox"/> Metal <input type="checkbox"/> Other:	Does channel have perennial flow?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<b>DIMENSIONS:</b> Height: <u>10</u> (ft) Bottom Width: <u>25</u> (ft) Top Width: <u>25</u> (ft) Length: <u>500+</u> (ft)
	Is there evidence of sediment deposition?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
	Is vegetation growing in channel?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
	Is channel connected to floodplain?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	

<b>BASE FLOW CHANNEL</b> Depth of flow _____ (in) Defined low flow channel? <input type="checkbox"/> Yes <input type="checkbox"/> No % of channel bottom _____ %	<b>ADJACENT STREAM CORRIDOR</b> Available width LT _____ (ft) RT _____ (ft) Utilities Present? <input type="checkbox"/> Yes <input type="checkbox"/> No Fill in floodplain? <input type="checkbox"/> Yes <input type="checkbox"/> No
---	---

POTENTIAL RESTORATION CANDIDATE  Structural repair  Base flow channel creation  Natural channel design  Can't tell

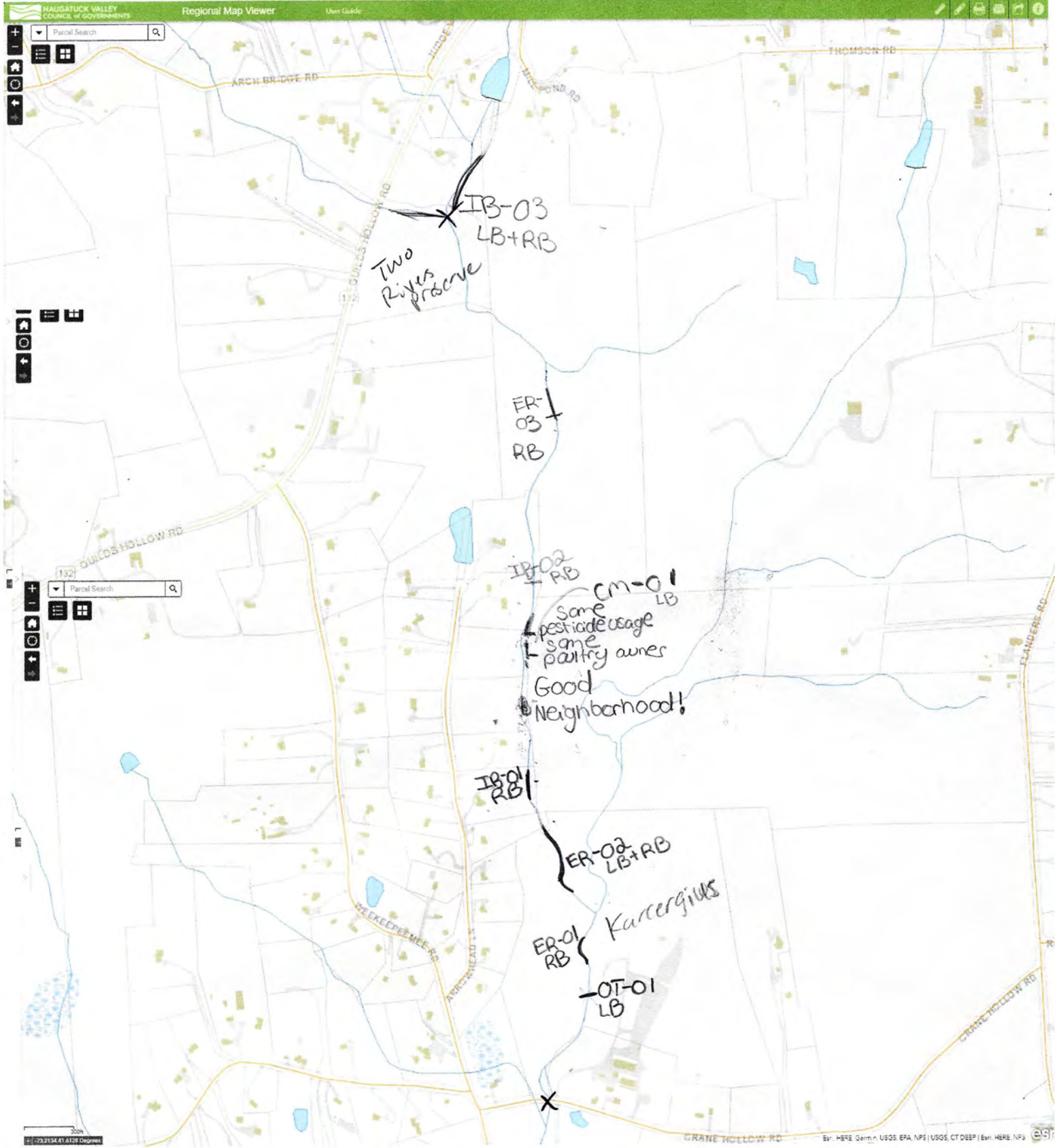
no  De-channelization  Fish barrier removal  Bioengineering

<b>CHANNEL-IZATION SEVERITY:</b> (Circle #)	A long section of concrete stream (>500') channel where water is very shallow (<1" deep) with no natural sediments present in the channel.	A moderate length (> 200'), but channel stabilized and beginning to function as a natural stream channel. Vegetated bars may have formed in channel.	An earthen channel less than 100 ft with good water depth, a natural sediment bottom, and size and shape similar to the unchannelized stream reaches above and below impacted area.
	5	4	3

NOTES:

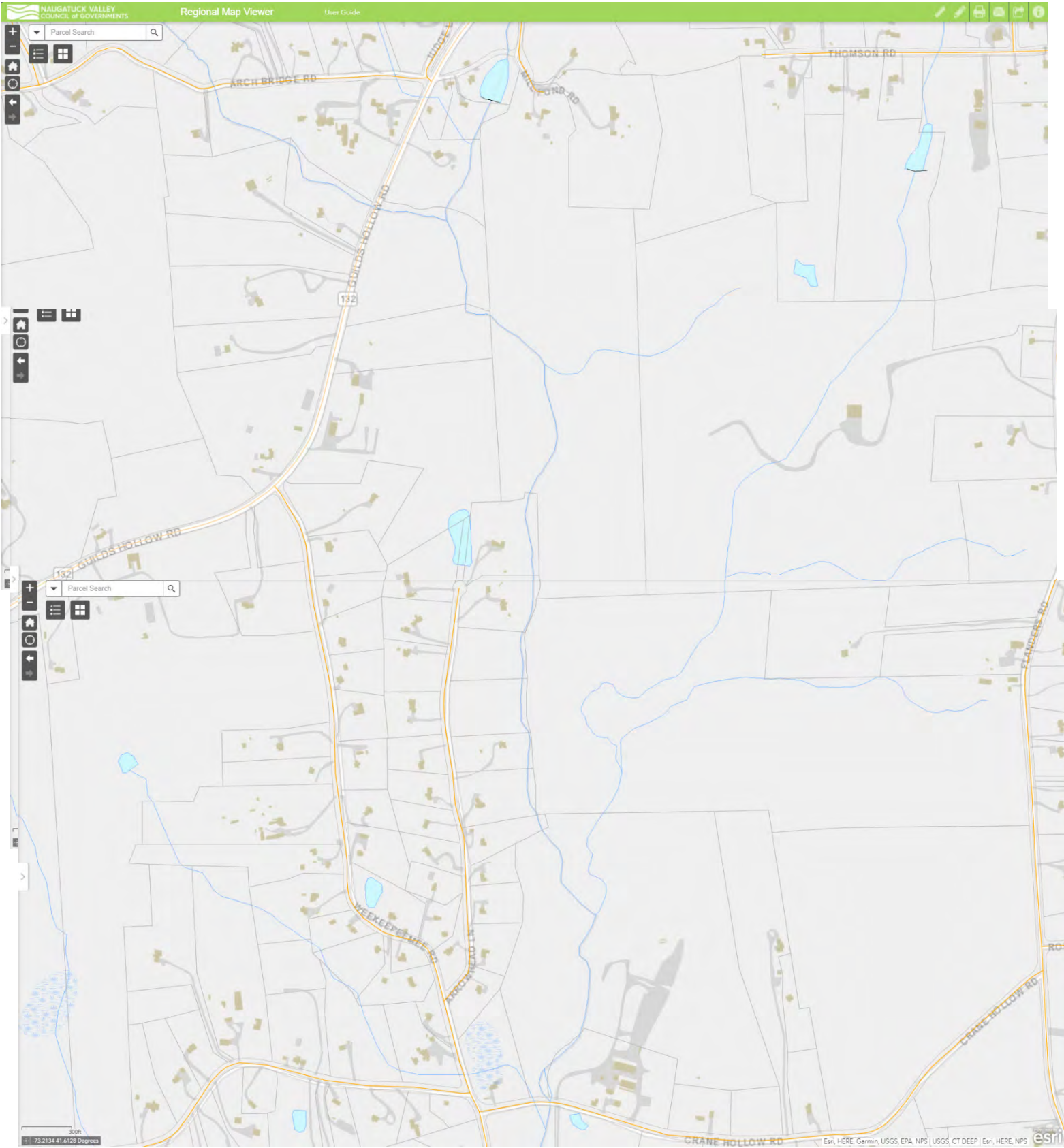
- could use some woody debris, boulder-placement
- very open, plenty of room for the water to move and flood but very little stream cover
- very clear channel was straighten, very good buffer on either bank
- a lot of algae/water weed in channelized section

Reach 6 – Crane Hollow Road to Two Rivers Preserve (Confluence with Wood Creek – South of Mill Pond Road)





# Reach 6 – Crane Hollow Road to Two Rivers Preserve (Confluence with Wood Creek – South of Mill Pond Road)



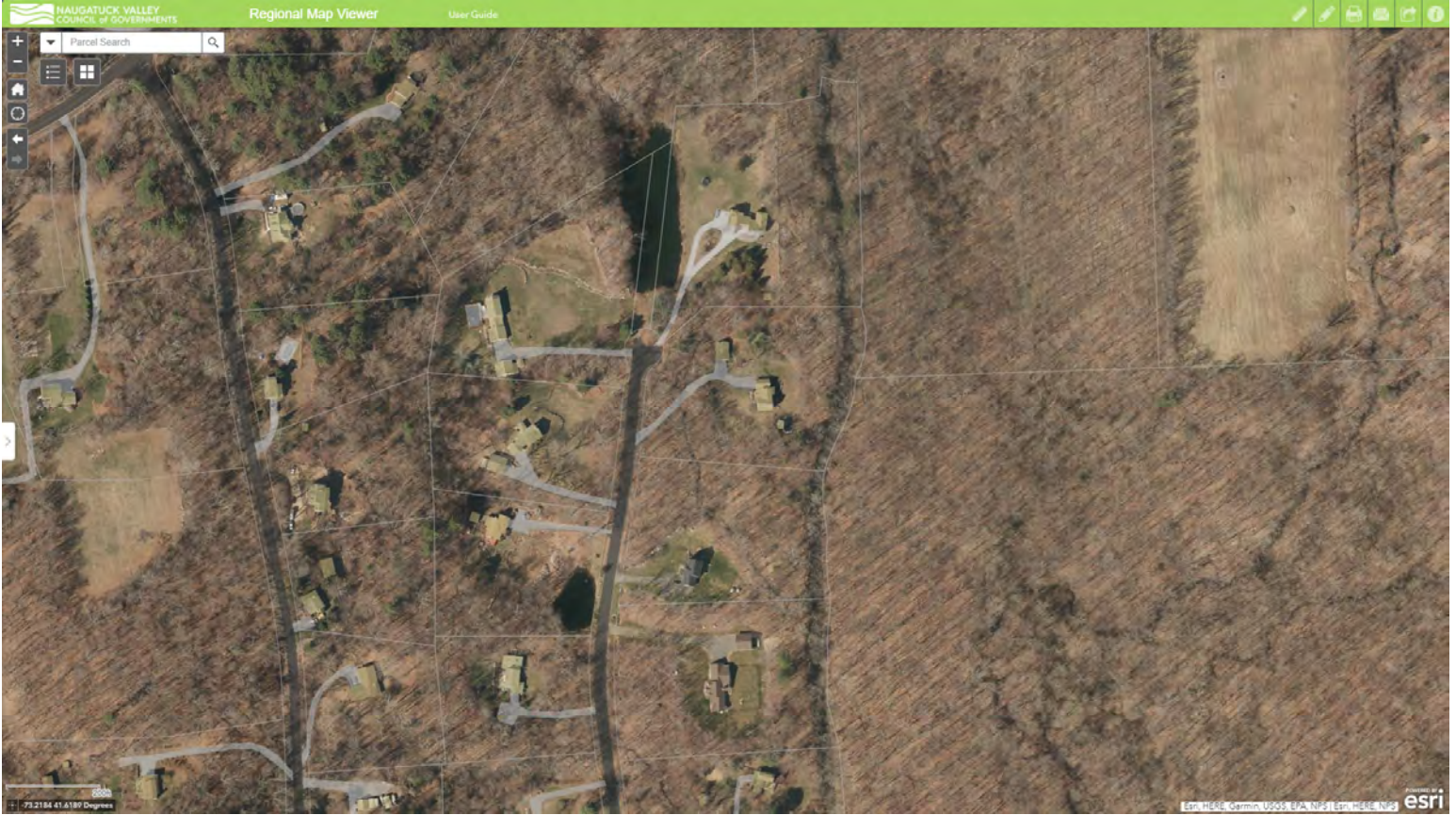
Parcel Search

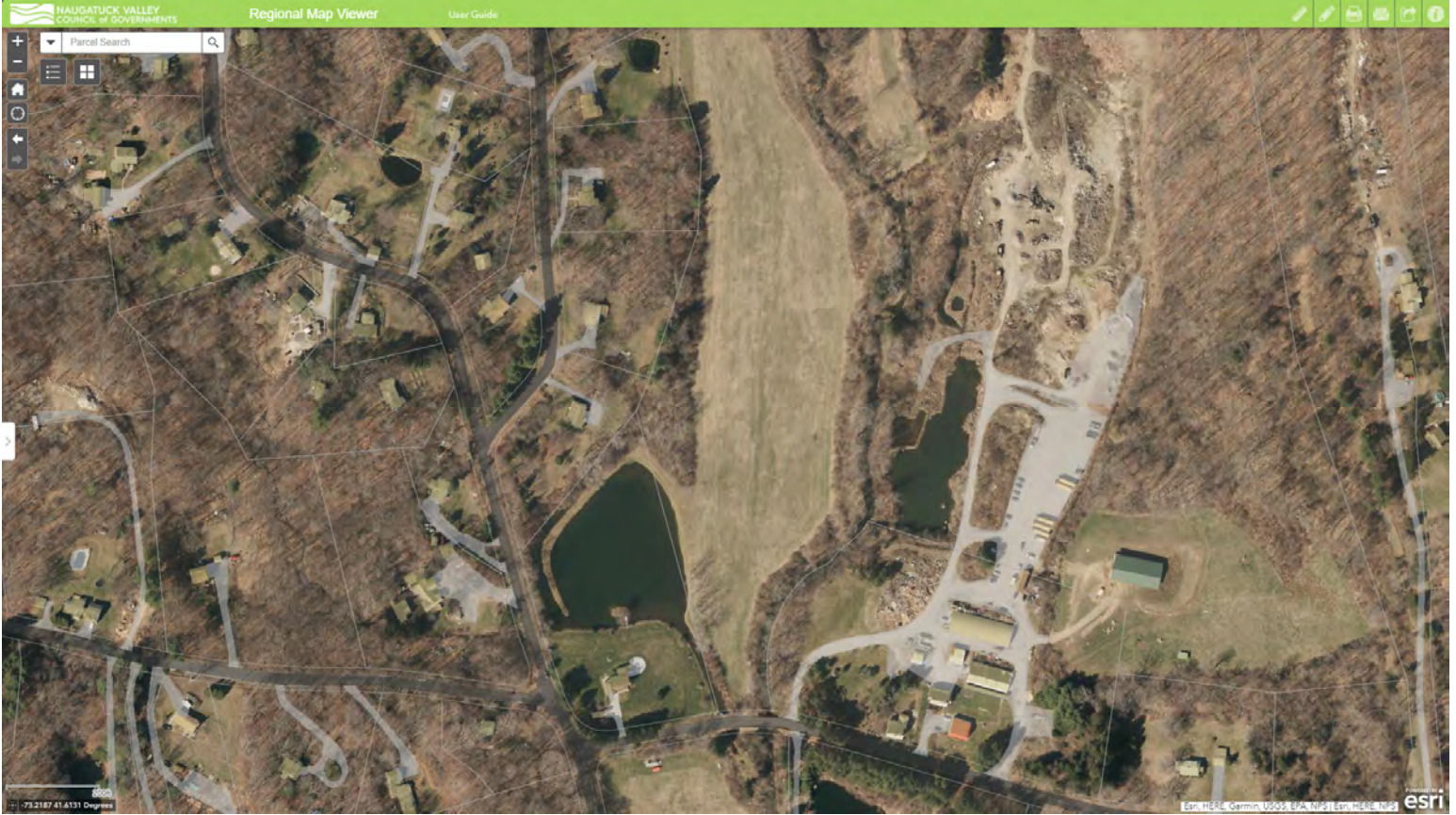
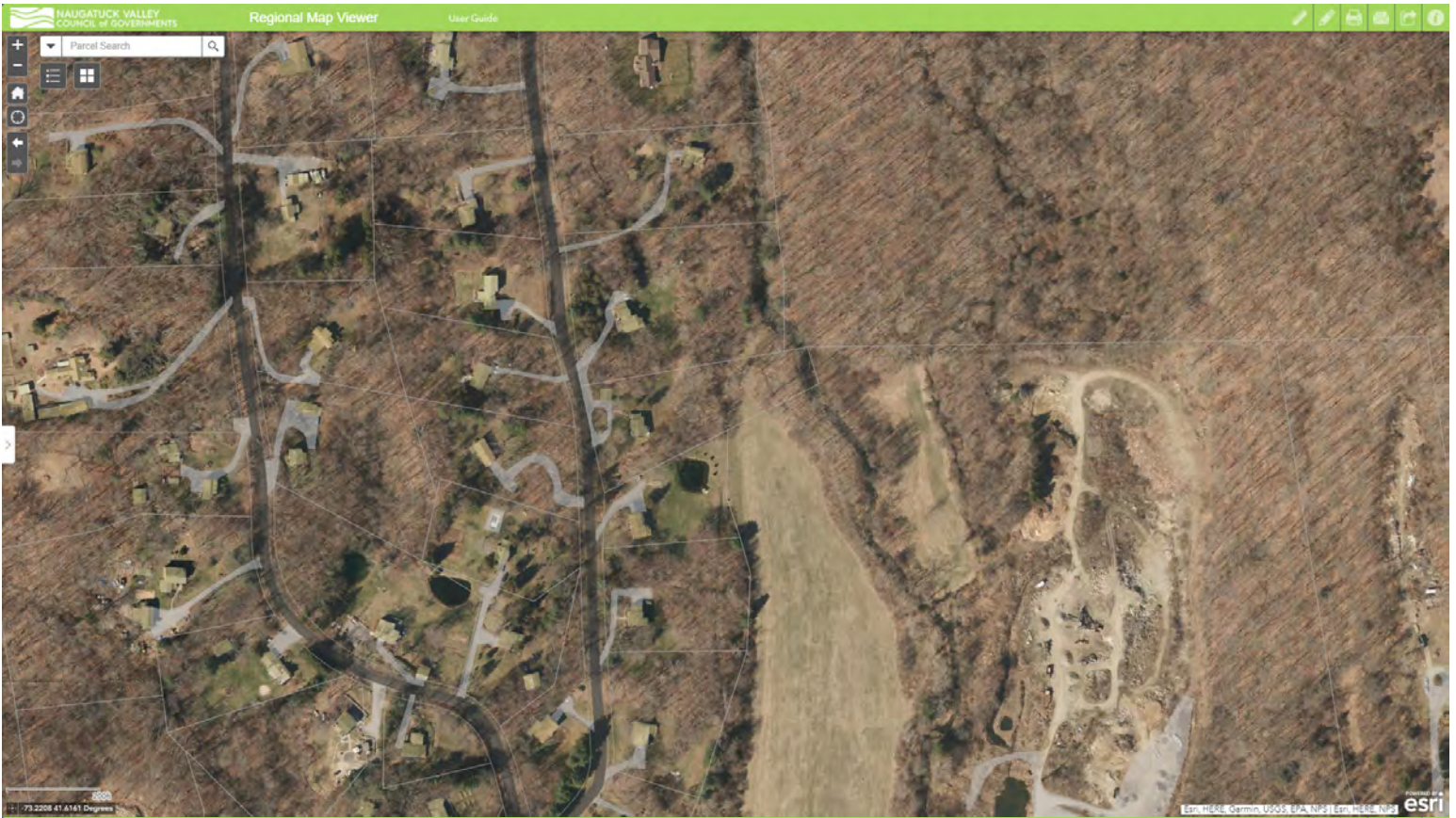


73.2225 41.6271 Degrees

Esri | HERE | Garmin | USGS | BIA | NOAA | FEMA | USGS | NPS | Esri | HERE | Garmin | USGS | BIA | NOAA | FEMA | USGS | NPS | Esri







Parcel Search



73.2202 41.6149 Degrees

Imagery © 2019 Esri, Garmin, USDA, EPA, NOAA, USDA, NOAA, Esri  
esri

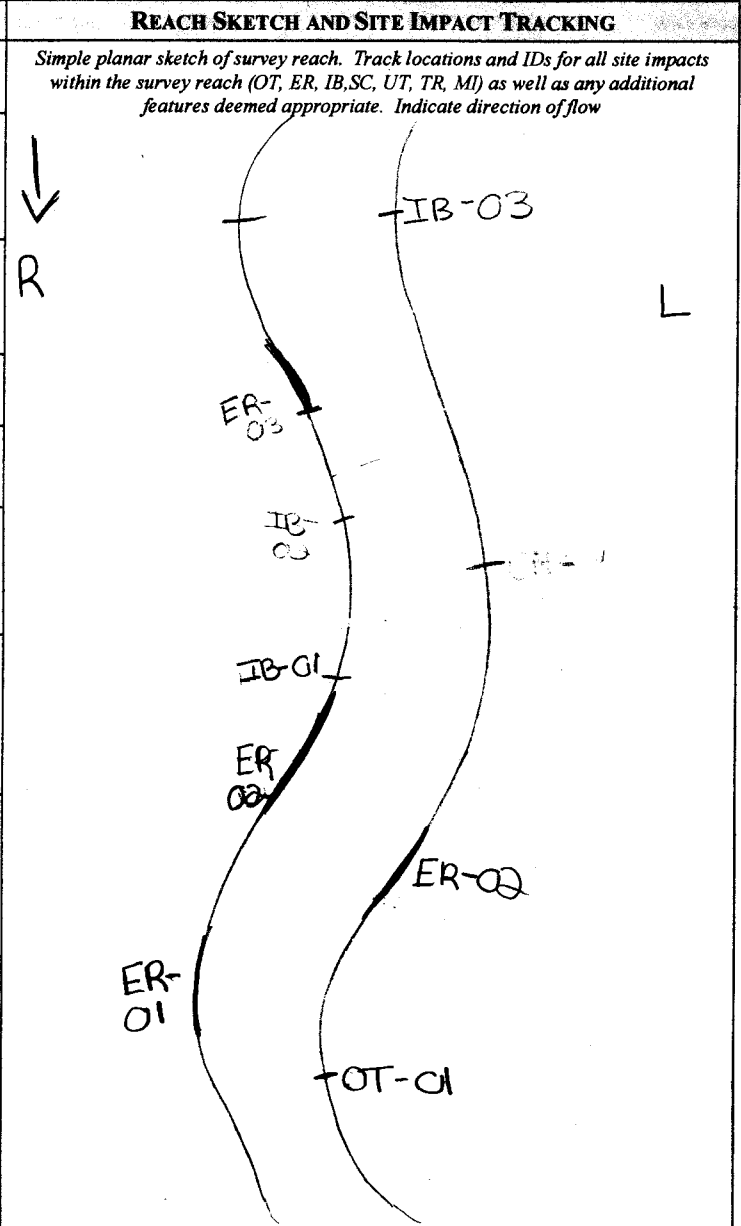




<b>SURVEY REACH ID:</b> 06	<b>WTRSHD/SUBSHD:</b> Weekeepemee	<b>DATE:</b> 08/05/21	<b>ASSESSED BY:</b> CH, PR SK, SO, HK
<b>START TIME:</b> 11:31 AM/PM	<b>LMK:</b> 057	<b>END TIME:</b> 3:15 AM/PM	<b>LMK:</b> 069
<b>LAT:</b> 41° 61' 62" "	<b>LONG:</b> 73° 22' 191" "	<b>LAT:</b> 41° 62' 701" "	<b>LONG:</b> 73° 22' 358" "
<b>DESCRIPTION:</b> Crane Hollow Road Bridge		<b>DESCRIPTION:</b> At confluence of Weekeepemee and Wood Creek	

<b>RAIN IN LAST 24 HOURS</b>	<input type="checkbox"/> Heavy rain	<input type="checkbox"/> Steady rain	<input type="checkbox"/> Intermittent	<input type="checkbox"/> None	<input type="checkbox"/> Intermittent	<input checked="" type="checkbox"/> Trace	<b>PRESENT CONDITIONS</b>	<input type="checkbox"/> Heavy rain	<input type="checkbox"/> Steady rain	<input type="checkbox"/> Intermittent	<input type="checkbox"/> Clear	<input type="checkbox"/> Trace	<input checked="" type="checkbox"/> Overcast	<input type="checkbox"/> Partly cloudy
<b>SURROUNDING LAND USE:</b>	<input type="checkbox"/> Industrial	<input checked="" type="checkbox"/> Commercial	<input type="checkbox"/> Urban/Residential	<input checked="" type="checkbox"/> Suburban/Res	<input checked="" type="checkbox"/> Forested	<input type="checkbox"/> Institutional	<input type="checkbox"/> Golf course	<input type="checkbox"/> Park	<input type="checkbox"/> Crop	<input type="checkbox"/> Pasture	<input checked="" type="checkbox"/> Other: Meadow			

<b>AVERAGE CONDITIONS (check applicable)</b>	
<b>BASE FLOW AS %</b>	<input type="checkbox"/> 0-25% <input type="checkbox"/> 50%-75%
<b>CHANNEL WIDTH</b>	<input type="checkbox"/> 25-50 % <input checked="" type="checkbox"/> 75-100%
<b>DOMINANT SUBSTRATE</b>	
<input type="checkbox"/> Silt/clay (fine or slick)	<input checked="" type="checkbox"/> Cobble (2.5 -10")
<input type="checkbox"/> Sand (gritty)	<input type="checkbox"/> Boulder (>10")
<input type="checkbox"/> Gravel (0.1-2.5")	<input type="checkbox"/> Bed rock
<b>WATER CLARITY</b>	
<input checked="" type="checkbox"/> Clear	<input type="checkbox"/> Turbid (suspended matter)
<input type="checkbox"/> Stained (clear, naturally colored)	<input type="checkbox"/> Opaque (milky)
<input type="checkbox"/> Other (chemicals, dyes)	
<b>AQUATIC PLANTS IN STREAM</b>	
Attached:	<input checked="" type="checkbox"/> none <input type="checkbox"/> some <input type="checkbox"/> lots
Floating:	<input checked="" type="checkbox"/> none <input type="checkbox"/> some <input type="checkbox"/> lots
<b>WILDLIFE IN OR AROUND STREAM</b>	
(Evidence of)	
<input checked="" type="checkbox"/> Fish	<input type="checkbox"/> Beaver
<input type="checkbox"/> Snails	<input checked="" type="checkbox"/> Deer
<input checked="" type="checkbox"/> Other: raccoons	
<b>STREAM SHADING (water surface)</b>	
<input checked="" type="checkbox"/> Mostly shaded (≥75% coverage)	
<input type="checkbox"/> Halfway (≥50%)	
<input type="checkbox"/> Partially shaded (≥25%)	
<input type="checkbox"/> Unshaded (< 25%)	
<b>CHANNEL DYNAMICS</b>	
<input type="checkbox"/> Downcutting	<input type="checkbox"/> Bed scour
<input type="checkbox"/> Widening	<input type="checkbox"/> Bank failure
<input checked="" type="checkbox"/> Headcutting	<input type="checkbox"/> Bank scour
<input type="checkbox"/> Aggrading	<input type="checkbox"/> Slope failure
<input type="checkbox"/> Sed. deposition	<input type="checkbox"/> Channelized
<input type="checkbox"/> Unknown	
<b>CHANNEL DIMENSIONS (FACING DOWNSTREAM)</b>	
Height: LT bank	5 (ft)
RT bank	3 (ft)
Width: Bottom	35 (ft)
Top	40 (ft)



<b>REACH ACCESSIBILITY</b>		
<b>Good:</b> Open area in public ownership, sufficient room to stockpile materials, easy stream channel access for heavy equipment using existing roads or trails.	<b>Fair:</b> Forested or developed area adjacent to stream. Access requires tree removal or impact to landscaped areas. Stockpile areas small or distant from stream.	<b>Difficult:</b> Must cross wetland, steep slope, or sensitive areas to get to stream. Few areas to stockpile available and/or located a great distance from stream. Specialized heavy equipment required.
5	4	3

**NOTES:** (biggest problem you see in survey reach)

Erosion - there was a great amount of headcutting throughout the stream. Impacted buffers were also a concern.

**REPORTED TO AUTHORITIES**  YES  NO

OVERALL STREAM CONDITION				
	Optimal	Suboptimal	Marginal	Poor
<b>IN-STREAM HABITAT</b>  <i>(May modify criteria based on appropriate habitat regime)</i>	Greater than 70% of substrate favorable for epifaunal colonization and fish cover; mix of snags, submerged logs, undercut banks, cobble or other stable habitat and at stage to allow full colonization potential (i.e., logs/snags that are <u>not</u> new fall and <u>not</u> transient).	40-70% mix of stable habitat; well-suited for full colonization potential; adequate habitat for maintenance of populations; presence of additional substrate in the form of newfall, but not yet prepared for colonization (may rate at high end of scale).	20-40% mix of stable habitat; habitat availability less than desirable; substrate frequently disturbed or removed.	Less than 20% stable habitat; lack of habitat is obvious; substrate unstable or lacking.
	20 19 <b>18</b> 17 16	15 14 13 12 11	10 9 8 7 6	5 4 3 2 1 0
<b>VEGETATIVE PROTECTION</b>  <i>(score each bank, determine sides by facing downstream)</i>	More than 90% of the streambank surfaces and immediate riparian zone covered by native vegetation, including trees, understory shrubs, or nonwoody macrophytes; vegetative disruption through grazing or mowing minimal or not evident; almost all plants allowed to grow naturally.	70-90% of the streambank surfaces covered by native vegetation, but one class of plants is not well-represented; disruption evident but not affecting full plant growth potential to any great extent; more than one-half of the potential plant stubble height remaining.	50-70% of the streambank surfaces covered by vegetation; disruption obvious; patches of bare soil or closely cropped vegetation common; less than one-half of the potential plant stubble height remaining.	Less than 50% of the streambank surfaces covered by vegetation; disruption of streambank vegetation is very high; vegetation has been removed to 5 centimeters or less in average stubble height.
	Left Bank 10 <b>9</b>	8 7 6	5 4 3	2 1 0
	Right Bank 10 9	8 <b>7</b> 6	5 4 3	2 1 0
<b>BANK EROSION</b>  <i>(facing downstream)</i>	Banks stable; evidence of erosion or bank failure absent or minimal; little potential for future problems. <5% of bank affected.	Grade and width stable; isolated areas of bank failure/erosion; likely caused by a pipe outfall, local scour, impaired riparian vegetation or adjacent use.	Past downcutting evident, active stream widening, banks actively eroding at a moderate rate; no threat to property or infrastructure	Active downcutting; tall banks on both sides of the stream eroding at a fast rate; erosion contributing significant amount of sediment to stream; obvious threat to property or infrastructure.
	Left Bank 10 9	8 7 <b>6</b>	5 4 3	2 1 0
	Right Bank 10 9	8 7 6	<b>5</b> 4 3	2 1 0
<b>FLOODPLAIN CONNECTION</b>	High flows (greater than bankfull) able to enter floodplain. Stream not deeply entrenched.	High flows (greater than bankfull) able to enter floodplain. Stream not deeply entrenched.	High flows (greater than bankfull) not able to enter floodplain. Stream deeply entrenched.	High flows (greater than bankfull) not able to enter floodplain. Stream deeply entrenched.
	20 19 <b>18</b> 17 16	15 14 13 12 11	10 9 8 7 6	5 4 3 2 1 0
OVERALL BUFFER AND FLOODPLAIN CONDITION				
	Optimal	Suboptimal	Marginal	Poor
<b>VEGETATED BUFFER WIDTH</b>	Width of buffer zone >50 feet; human activities (i.e., parking lots, roadbeds, clear-cuts, lawns, crops) have not impacted zone.	Width of buffer zone 25-50 feet; human activities have impacted zone only minimally.	Width of buffer zone 10-25 feet; human activities have impacted zone a great deal.	Width of buffer zone <10 feet; little or no riparian vegetation due to human activities.
	Left Bank <b>10</b> 9	8 7 6	5 4 3	2 1 0
	Right Bank 10 9	<b>8</b> 7 6	5 4 3	2 1 0
<b>FLOODPLAIN VEGETATION</b>	Predominant floodplain vegetation type is mature forest	Predominant floodplain vegetation type is young forest	Predominant floodplain vegetation type is shrub or old field	Predominant floodplain vegetation type is turf or crop land
	20 19 18 17 16	<b>15</b> 14 13 12 11	10 9 8 7 6	5 4 3 2 1 0
<b>FLOODPLAIN HABITAT</b>	Even mix of wetland and non-wetland habitats, evidence of standing/ponded water	Even mix of wetland and non-wetland habitats, no evidence of standing/ponded water	Either all wetland or all non-wetland habitat, evidence of standing/ponded water	Either all wetland or all non-wetland habitat, no evidence of standing/ponded water
	20 <b>19</b> 18 17 16	15 14 13 12 11	10 9 8 7 6	5 4 3 2 1 0
<b>FLOODPLAIN ENCROACHMENT</b>	No evidence of floodplain encroachment in the form of fill material, land development, or manmade structures	Minor floodplain encroachment in the form of fill material, land development, or manmade structures, but not effecting floodplain function	Moderate floodplain encroachment in the form of filling, land development, or manmade structures, some effect on floodplain function	Significant floodplain encroachment (i.e. fill material, land development, or man-made structures). Significant effect on floodplain function
	20 19 <b>18</b> 17 16	15 14 13 12 11	10 9 8 7 6	5 4 3 2 1 0
<b>Sub Total In-stream: 63 /80 + Buffer/Floodplain: 70 /80 = Total Survey Reach 133 /160</b>				







WATERSHED/SUBSHED: Wee Wee Wee Wee DATE: 07/06/04 ASSESSED BY:           

SURVEY REACH: 06 TIME: 11:58 AM PHOTO ID (CAMERA-PIC #):            #           

SITE ID: (Condition-#) ER-01 START LAT 41° 01' 43" LONG -73° 22' 09" LMK 058 GPS: (Unit ID)             
 END LAT 41° 01' 43" LONG -73° 22' 10" LMK 059

PROCESS:  Currently unknown  
 Downcutting  Bed scour  
 Widening  Bank failure  
 Headcutting  Bank scour  
 Aggrading  Slope failure  
 Sed. deposition  Channelized

BANK OF CONCERN:  LT  RT  Both (looking downstream)  
 LOCATION:  Meander bend  Straight section  Steep slope/valley wall  Other:  
 DIMENSIONS:  
 Length (if no GPS) LT            ft and/or RT 100 ft Bottom width 15 ft  
 Bank Ht LT            ft and/or RT 5 ft Top width 35 ft  
 Bank Angle LT            ° and/or RT            ° Wetted Width 15 ft

LAND OWNERSHIP:  Private  Public  Unknown LAND COVER:  Forest  Field/Ag  Developed:

POTENTIAL RESTORATION CANDIDATE:  Grade control  Bank stabilization  
 No  Other:

THREAT TO PROPERTY/INFRASTRUCTURE:  No  Yes (Describe):

EXISTING RIPARIAN WIDTH:  ≤25 ft  25 - 50 ft  50-75ft  75-100ft  >100ft

EROSION SEVERITY (circle#)  Channelized= <input type="checkbox"/> 1	Active downcutting; tall banks on both sides of the stream eroding at a fast rate; erosion contributing significant amount of sediment to stream; obvious threat to property or infrastructure.	Pat downcutting evident, active stream widening, banks actively eroding at a moderate rate; no threat to property or infrastructure	Grade and width stable; isolated areas of bank failure/erosion; likely caused by a pipe outfall, local scour, impaired riparian vegetation or adjacent use.
	5	4	3
ACCESS:	Good access: Open area in public ownership, sufficient room to stockpile materials, easy stream channel access for heavy equipment using existing roads or trails.	Fair access: Forested or developed area adjacent to stream. Access requires tree removal or impact to landscaped areas. Stockpile areas small or distant from stream.	Difficult access. Must cross wetland, steep slope or other sensitive areas to access stream. Minimal stockpile areas available and/or located a great distance from stream section. Specialized heavy equipment required.
	5	4	3

NOTES/CROSS SECTION SKETCH:

- exposed roots over a headcutted area  
 - Very small section, not very high/long (5ft x 100ft)  
 - not an immediate threat to infrastructure, isolated area

REPORTED TO AUTHORITIES  Yes  No



WATERSHED/SUBSHED: <u>Wee keepeemee</u>		DATE: <u>08/05/01</u>	ASSESSED BY: <u>CH. FROST</u>
SURVEY REACH: <u>06</u>		TIME: <u>12:17 AM/PM</u>	PHOTO ID (CAMERA-PIC #): # <u>2</u>
SITE ID: (Condition-#) <u>ER-02</u>	START LAT <u>41° 61' 634"</u> LONG <u>-73° 22' 149"</u>	LMK <u>061</u>	GPS: (Unit ID)
	END LAT <u>41° 61' 718"</u> LONG <u>-73° 22' 189"</u>	LMK <u>062</u>	

<b>PROCESS:</b> <input type="checkbox"/> Currently unknown <input type="checkbox"/> Downcutting <input type="checkbox"/> Widening <input checked="" type="checkbox"/> Headcutting <input type="checkbox"/> Aggrading <input checked="" type="checkbox"/> Sed. deposition	<input type="checkbox"/> Bed scour <input type="checkbox"/> Bank failure <input checked="" type="checkbox"/> Bank scour <input type="checkbox"/> Slope failure <input type="checkbox"/> Channelized	<b>BANK OF CONCERN:</b> <input type="checkbox"/> LT <input type="checkbox"/> RT <input checked="" type="checkbox"/> Both (looking downstream) <b>LOCATION:</b> <input checked="" type="checkbox"/> Meander bend <input type="checkbox"/> Straight section <input type="checkbox"/> Steep slope/valley wall <input type="checkbox"/> Other: <b>DIMENSIONS:</b> Length (if no GPS) LT _____ ft and/or RT _____ ft * Bottom width <u>15</u> ft Bank Ht LT <u>6.5</u> ft and/or RT <u>4</u> ft Top width <u>35</u> ft Bank Angle LT _____ ° and/or RT _____ ° Wetted Width <u>15</u> ft
---	---	--

LAND OWNERSHIP:  Private  Public  Unknown LAND COVER:  Forest  Field/Ag  Developed:

POTENTIAL RESTORATION CANDIDATE:  Grade control  Bank stabilization  
 No  Other:

THREAT TO PROPERTY/INFRASTRUCTURE:  No  Yes (Describe):

EXISTING RIPARIAN WIDTH:  ≤25 ft  25 - 50 ft  50-75ft  75-100ft  >100ft

EROSION SEVERITY (circle#)	Active downcutting; tall banks on both sides of the stream eroding at a fast rate; erosion contributing significant amount of sediment to stream; obvious threat to property or infrastructure.	Pat downcutting evident, active stream widening, banks actively eroding at a moderate rate; no threat to property or infrastructure	Grade and width stable; isolated areas of bank failure/erosion; likely caused by a pipe outfall, local scour, impaired riparian vegetation or adjacent use.	
	Channelized= <input type="checkbox"/> 1	5	4	3
ACCESS:	Good access: Open area in public ownership, sufficient room to stockpile materials, easy stream channel access for heavy equipment using existing roads or trails.	Fair access: Forested or developed area adjacent to stream. Access requires tree removal or impact to landscaped areas. Stockpile areas small or distant from stream.	Difficult access. Must cross wetland, steep slope or other sensitive areas to access stream. Minimal stockpile areas available and/or located a great distance from stream section. Specialized heavy equipment required.	
		5	4	3

NOTES/CROSS SECTION SKETCH:

- long stretch of erosion with little plant growth
- exposed roots, a small amount of overhang
- not a threat to any infrastructure
- Both left and right bank, alternates after bend in flow
- Scour on outside of curve and deposition on the inside

REPORTED TO AUTHORITIES  Yes  No



WATERSHED/SUBSHED: Wee Keepeemee      DATE: 08/05/21      ASSESSED BY: CH, PP, SR, SO, HKS  
 SURVEY REACH: 06      TIME: 8:31 AM (PM)      PHOTO ID: (Camera-Pic #)      # 3  
 SITE ID: (Condition-#)      START      LAT 41° 61' 74"      LONG -73° 22' 21"      LMK 063      GPS: (Unit ID)  
IB-01      END      LAT      "      LONG      "      LMK

IMPACTED BANK:      REASON INADEQUATE:  Lack of vegetation     Too narrow     Widespread invasive plants  
 LT     RT     Both       Recently planted     Other:

LAND USE:      Private    Institutional    Golf Course    Park    Other Public  
 (Facing downstream) LT Bank                    :  
 RT Bank                    :

DOMINANT      Paved    Bare ground    Turf/lawn    Tall grass    Shrub/scrub    Trees    Other  
 LAND COVER:    LT Bank                            :  
 RT Bank                            :

INVASIVE PLANTS:     None     Rare     Partial coverage     Extensive coverage     unknown

STREAM SHADE PROVIDED?     None     Partial     Full      WETLANDS PRESENT?     No     Yes     Unknown

POTENTIAL RESTORATION CANDIDATE     Active reforestation     Greenway design     Natural regeneration     Invasives removal  
 no       Other:

RESTORABLE AREA	REFORESTATION POTENTIAL: (Circle #)	Impacted area on public land where the riparian area does not appear to be used for any specific purpose; plenty of area available for planting	Impacted area on either public or private land that is presently used for a specific purpose; available area for planting adequate	Impacted area on private land where road; building encroachment or other feature significantly limits available area for planting
Length (ft):      LT    BANK    RT -      100		5	4	3
Width (ft):      -      15				2
				1

POTENTIAL CONFLICTS WITH REFORESTATION     Widespread invasive plants     Potential contamination     Lack of sun  
 Poor/unsafe access to site     Existing impervious cover     Severe animal impacts (deer, beaver)     Other: private ownership

NOTES:

- Small section (less than 100 ft) along private property where grass is mowed to the edge with very little shrub layer
- trees in lawn area providing canopy cover, forested all around
- could use more shrub layer along stream flow
- area set far back from structure, good for planting
- tent, campsite, fire pit in mowed lawn area
- Not hugely concerning → not intensive land use → no impervious cover associated
- structure > 100 ft from river (house)

↓  
Stream is mostly shaded

WATERSHED/SUBSHED: <u>WEEKREPENSE</u>		DATE: <u>08/05/21</u>	ASSESSED BY: <u>SK</u>
SURVEY REACH ID: <u>06</u>		TIME: <u>1:35 AM/PM</u>	PHOTO ID: (Camera-Pic #) # <u>4</u>
SITE ID: (Condition-#) <u>CM-01</u>	START LAT <u>41°619'53"</u>	LONG <u>-73°222'44"</u>	LMK <u>064</u>
	END LAT <u>41°620'36"</u>	LONG <u>-73°222'33"</u>	LMK <u>065</u>
GPS: (Unit ID)			
TYPE: <input type="checkbox"/> Channelization <input checked="" type="checkbox"/> Bank armoring <input type="checkbox"/> concrete channel <input type="checkbox"/> Floodplain encroachment <input type="checkbox"/> Other:			
<b>MATERIAL:</b> <input type="checkbox"/> Concrete <input type="checkbox"/> Gabion <input type="checkbox"/> Rip Rap <input checked="" type="checkbox"/> Earthen <input type="checkbox"/> Metal <input type="checkbox"/> Other:	Does channel have perennial flow? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		<b>DIMENSIONS:</b> Height <u>3+4</u> (ft) Bottom Width <u>25</u> (ft) Top Width: <u>30</u> (ft) Length: <u>200</u> (ft)
	Is there evidence of sediment deposition? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
	Is vegetation growing in channel? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
	Is channel connected to floodplain? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		
<b>BASE FLOW CHANNEL</b> Depth of flow _____ (in) Defined low flow channel? <input type="checkbox"/> Yes <input type="checkbox"/> No % of channel bottom _____ %		<b>ADJACENT STREAM CORRIDOR</b> Available width LT <u>100</u> (ft) RT <u>100</u> (ft) Utilities Present? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Fill in floodplain? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
<b>POTENTIAL RESTORATION CANDIDATE</b> <input type="checkbox"/> Structural repair <input type="checkbox"/> Base flow channel creation <input type="checkbox"/> Natural channel design <input type="checkbox"/> Can't tell <input checked="" type="checkbox"/> no <input type="checkbox"/> De-channelization <input type="checkbox"/> Fish barrier removal <input type="checkbox"/> Bioengineering			
<b>CHANNELIZATION SEVERITY:</b> (Circle #)	A long section of concrete stream (>500') channel where water is very shallow (<1" deep) with no natural sediments present in the channel.	A moderate length (> 200'), but channel stabilized and beginning to function as a natural stream channel. Vegetated bars may have formed in channel.	An earthen channel less than 100 ft with good water depth, a natural sediment bottom, and size and shape similar to the unchannelized stream reaches above and below impacted area.
	5	4	3
<b>NOTES:</b> - Old rock wall armoring, earthen material, good condition - Water can flow over and into floodplain <sup>plain</sup> → water can probably flow through wall too - Not changing channel design/flow			



**WATERSHED/SUBSHED:** Wetkeepemece      **DATE:** 08/05/21      **ASSESSED BY:** CH, HK  
**SURVEY REACH:** 05      **TIME:** 1:49 AM/PM      **PHOTO ID: (Camera-Pic #)**      **#5**  
**SITE ID: (Condition-#)**      **START**      **LAT** 41° 62' 03.6"      **LONG** -73° 22' 23.3"      **LMK** 065      **GPS: (Unit ID)**  
**IB-02**      **END**      **LAT** 41° 62' 08.8"      **LONG** -73° 22' 15"      **LMK** 066

**IMPACTED BANK:**      **REASON INADEQUATE:**       Lack of vegetation       Too narrow       Widespread invasive plants  
 LT       RT       Both       Recently planted       Other:

**LAND USE:**      Private      Institutional      Golf Course      Park      Other Public  
 (Facing downstream) LT Bank                               :  
 RT Bank                               :

**DOMINANT LAND COVER:**      Paved      Bare ground      Turf/lawn      Tall grass      Shrub/scrub      Trees      Other  
 LT Bank                                           :  
 RT Bank                                           :

**INVASIVE PLANTS:**       None       Rare       Partial coverage       Extensive coverage       unknown

**STREAM SHADE PROVIDED?**       None       Partial       Full      **WETLANDS PRESENT?**       No       Yes       Unknown

**POTENTIAL RESTORATION CANDIDATE**       Active reforestation       Greenway design       Natural regeneration       Invasives removal  
 no       Other:

RESTORABLE AREA	REFORESTATION POTENTIAL: (Circle #)	Impacted area on public land where the riparian area does not appear to be used for any specific purpose; plenty of area available for planting	Impacted area on either public or private land that is presently used for a specific purpose; available area for planting adequate	Impacted area on private land where road; building encroachment or other feature significantly limits available area for planting
		5	4	3
Length (ft): <u>                    </u> <u>125</u> Width (ft): <u>                    </u> <u>15</u>				

**POTENTIAL CONFLICTS WITH REFORESTATION**       Widespread invasive plants       Potential contamination       Lack of sun  
 Poor/unsafe access to site       Existing impervious cover       Severe animal impacts (deer, beaver)       Other: private property

**NOTES:**  
 - Some canopy layer providing stream shade partially  
 - pool 100 ft from water, house 150 ft, potential for runoff w/ shrubs  
 - grass mow to water edge, no shrub layer  
 - good access site for planting, a lot of room



WATERSHED/SUBSHED: <u>Weekeeprenee</u>		DATE: <u>08/05/21</u>	ASSESSED BY: <u>CH, PP, SK, SO, HK</u>
SURVEY REACH: <u>06</u>		TIME: <u>2:10 AM/PM</u>	PHOTO ID (CAMERA-PIC #): # <u>6</u>
SITE ID: (Condition-#) <u>ER-03</u>	START LAT <u>41° 02' 56.2"</u> LONG <u>-73° 22' 23.2"</u>	LMK <u>067</u>	GPS: (Unit ID)
	END LAT <u>41° 02' 33.2"</u> LONG <u>-73° 22' 18.8"</u>	LMK <u>068</u>	

<b>PROCESS:</b> <input type="checkbox"/> Currently unknown <input checked="" type="checkbox"/> Downcutting <input type="checkbox"/> Bed scour <input type="checkbox"/> Widening <input type="checkbox"/> Bank failure <input checked="" type="checkbox"/> Headcutting <input type="checkbox"/> Bank scour <input type="checkbox"/> Aggrading <input type="checkbox"/> Slope failure <input type="checkbox"/> Sed. deposition <input type="checkbox"/> Channelized		<b>BANK OF CONCERN:</b> <input type="checkbox"/> LT <input checked="" type="checkbox"/> RT <input type="checkbox"/> Both (looking downstream) <b>LOCATION:</b> <input type="checkbox"/> Meander bend <input checked="" type="checkbox"/> Straight section <input type="checkbox"/> Steep slope/valley wall <input type="checkbox"/> Other: <b>DIMENSIONS:</b> Length (if no GPS) LT <u>-</u> ft and/or RT <u>-</u> ft Bottom width <u>15</u> ft Bank Ht LT <u>-</u> ft and/or RT <u>4-7</u> ft Top width <u>30</u> ft Bank Angle LT <u>-</u> ° and/or RT <u>-</u> ° Wetted Width <u>15</u> ft	
--	--	--	--

LAND OWNERSHIP:  Private  Public  Unknown    LAND COVER:  Forest  Field/Ag  Developed:

POTENTIAL RESTORATION CANDIDATE:  Grade control  Bank stabilization  
 No  Other:

THREAT TO PROPERTY/INFRASTRUCTURE:  No  Yes (Describe):

EXISTING RIPARIAN WIDTH:  <25 ft  25 - 50 ft  50-75 ft  75-100 ft  >100ft

<b>EROSION SEVERITY</b> (circle#)  Channelized= <input type="checkbox"/> 1	Active downcutting; tall banks on both sides of the stream eroding at a fast rate; erosion contributing significant amount of sediment to stream; obvious threat to property or infrastructure.	Pat downcutting evident, active stream widening, banks actively eroding at a moderate rate; no threat to property or infrastructure	Grade and width stable; isolated areas of bank failure/erosion; likely caused by a pipe outfall, local scour, impaired riparian vegetation or adjacent use.	
	5	4	3	(2)
<b>ACCESS:</b>	<b>Good access:</b> Open area in public ownership, sufficient room to stockpile materials, easy stream channel access for heavy equipment using existing roads or trails.	<b>Fair access:</b> Forested or developed area adjacent to stream. Access requires tree removal or impact to landscaped areas. Stockpile areas small or distant from stream.	<b>Difficult access.</b> Must cross wetland, steep slope or other sensitive areas to access stream. Minimal stockpile areas available and/or located a great distance from stream section. Specialized heavy equipment required.	
	5	4	3	(2)

**NOTES/CROSS SECTION SKETCH:**

- exposed tree roots, water mostly downcutting with some headcutting
- beginning section is 7 ft, gradually becomes shorter
- no erosion on left bank, large gravel bar on left 15 ft wide
- erosion at a straight section of river
- some wetland nearby, water outfall from wetlands by eroded surface
- occurs @ a meander in the river channel → cutting on outside of bend, deposition on inside

REPORTED TO AUTHORITIES  Yes  No



WATERSHED/SUBSHED: <u>Wekkepeemee</u>		DATE: <u>08/05/21</u>	ASSESSED BY: <u>CH, DP, SK, SO, WK</u>
SURVEY REACH: <u>06</u>		TIME: <u>3:03AM/PM</u>	PHOTO ID: (Camera-Pic #) # <u>7</u>
SITE ID: (Condition-#) <u>IB-03</u>	START LAT <u>41° 62' 70"</u> LONG <u>-73° 22' 38"</u> LMK <u>069</u>	GPS: (Unit ID)	
	END LAT _____ LONG _____ LMK _____		
IMPACTED BANK: <input type="checkbox"/> LT <input type="checkbox"/> RT <input checked="" type="checkbox"/> Both	REASON INADEQUATE: <input checked="" type="checkbox"/> Lack of vegetation <input type="checkbox"/> Too narrow <input type="checkbox"/> Widespread invasive plants <input type="checkbox"/> Recently planted <input type="checkbox"/> Other:		
LAND USE: (Facing downstream) LT Bank	Private <input checked="" type="checkbox"/>	Institutional <input type="checkbox"/>	Golf Course <input type="checkbox"/>
RT Bank	Private <input checked="" type="checkbox"/>	Institutional <input type="checkbox"/>	Golf Course <input type="checkbox"/>
	Park <input type="checkbox"/>	Park <input type="checkbox"/>	Park <input type="checkbox"/>
	Other Public <input type="checkbox"/>	Other Public <input type="checkbox"/>	Other Public <input type="checkbox"/>
DOMINANT LAND COVER:	Paved <input type="checkbox"/>	Bare ground <input type="checkbox"/>	Turf/lawn <input checked="" type="checkbox"/>
LT Bank	Paved <input type="checkbox"/>	Bare ground <input type="checkbox"/>	Turf/lawn <input checked="" type="checkbox"/>
RT Bank	Paved <input type="checkbox"/>	Bare ground <input type="checkbox"/>	Turf/lawn <input checked="" type="checkbox"/>
	Tall grass <input type="checkbox"/>	Tall grass <input type="checkbox"/>	Tall grass <input type="checkbox"/>
	Shrub/scrub <input checked="" type="checkbox"/>	Shrub/scrub <input checked="" type="checkbox"/>	Shrub/scrub <input checked="" type="checkbox"/>
	Trees <input type="checkbox"/>	Trees <input type="checkbox"/>	Trees <input type="checkbox"/>
	Other <input checked="" type="checkbox"/> Wildflowers	Other <input checked="" type="checkbox"/> Wildflowers	Other <input checked="" type="checkbox"/> Wildflowers
INVASIVE PLANTS:	<input type="checkbox"/> None	<input type="checkbox"/> Rare	<input checked="" type="checkbox"/> Partial coverage
	<input type="checkbox"/> None	<input type="checkbox"/> Rare	<input type="checkbox"/> Extensive coverage
	<input type="checkbox"/> None	<input type="checkbox"/> Rare	<input type="checkbox"/> unknown
STREAM SHADE PROVIDED?	<input type="checkbox"/> None	<input checked="" type="checkbox"/> Partial	<input type="checkbox"/> Full
	<input type="checkbox"/> None	<input checked="" type="checkbox"/> Partial	<input type="checkbox"/> Full
	<input type="checkbox"/> None	<input checked="" type="checkbox"/> Partial	WETLANDS PRESENT? <input type="checkbox"/> No <input checked="" type="checkbox"/> Yes <input type="checkbox"/> Unknown
POTENTIAL RESTORATION CANDIDATE	<input type="checkbox"/> Active reforestation	<input type="checkbox"/> Greenway design	<input checked="" type="checkbox"/> Natural regeneration
	<input type="checkbox"/> Active reforestation	<input type="checkbox"/> Greenway design	<input type="checkbox"/> Invasives removal
	<input type="checkbox"/> no	<input type="checkbox"/> Other:	<input type="checkbox"/> Invasives removal
RESTORABLE AREA	Length (ft): LT <u>300</u> RT <u>300</u>	Width (ft): LT <u>75</u> RT <u>25</u>	REFORESTATION POTENTIAL: (Circle #)
	Length (ft): LT <u>300</u> RT <u>300</u>	Width (ft): LT <u>75</u> RT <u>25</u>	5 4 3 2 1
			Impacted area on public land where the riparian area does not appear to be used for any specific purpose; plenty of area available for planting
			Impacted area on either public or private land that is presently used for a specific purpose; available area for planting adequate
			Impacted area on private land where road; building encroachment or other feature significantly limits available area for planting
POTENTIAL CONFLICTS WITH REFORESTATION	<input type="checkbox"/> Widespread invasive plants	<input type="checkbox"/> Potential contamination	<input type="checkbox"/> Lack of sun
	<input type="checkbox"/> Poor/unsafe access to site	<input type="checkbox"/> Existing impervious cover	<input type="checkbox"/> Severe animal impacts (deer, beaver)
	<input type="checkbox"/> Poor/unsafe access to site	<input type="checkbox"/> Existing impervious cover	<input checked="" type="checkbox"/> Other: <u>private property</u>

NOTES:

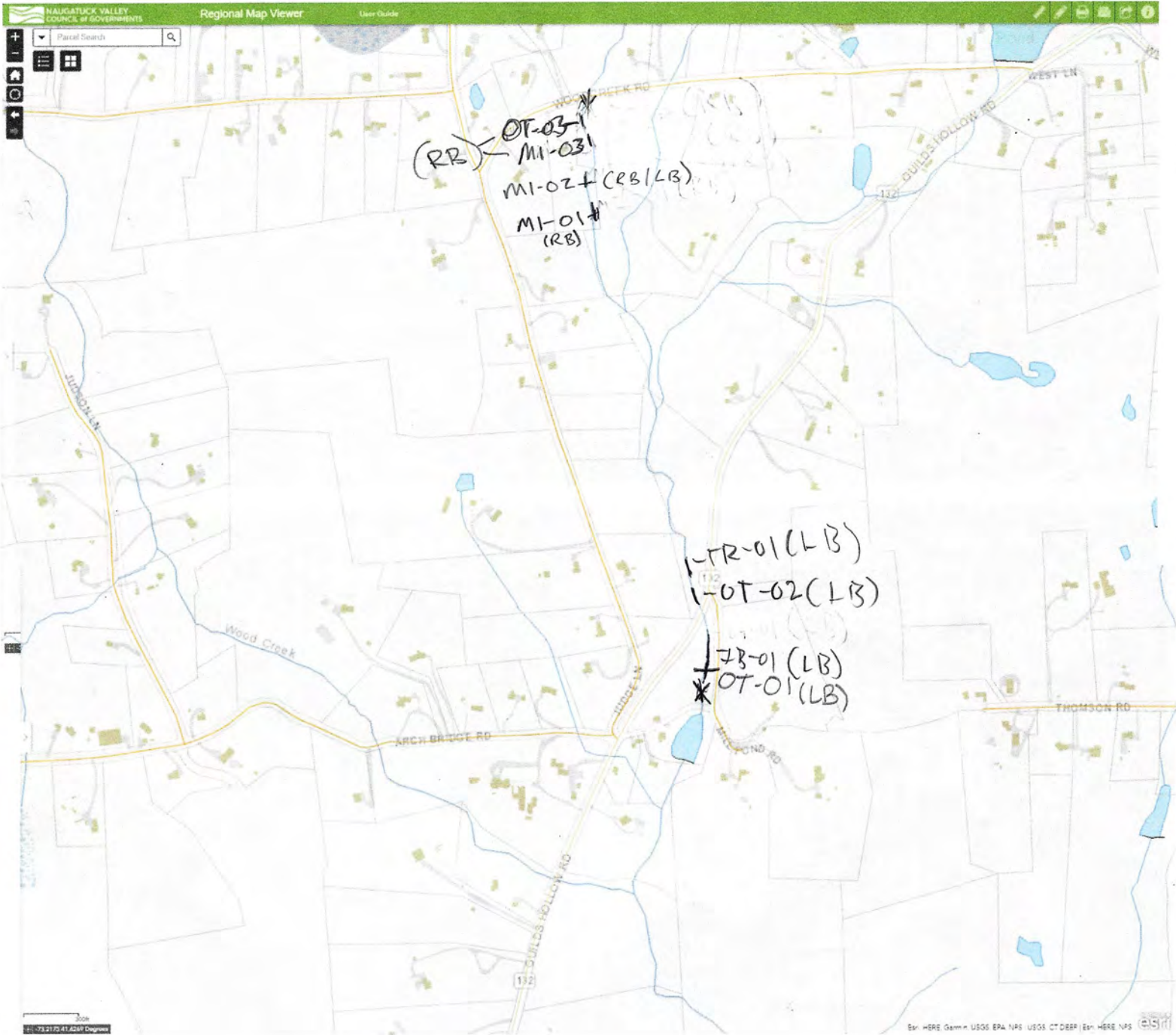
- pond/wetland upstream of impacted buffer
- pool set back 75 ft from stream flow
- at a confluence with Wood Creek
- a few trees, mostly fresh cut lawn and some Shrub/Wild Flower
- good restore. potential, easy access / a lot of room

The sketch shows a site layout with 'Route 132' on the left, a 'driveway' leading to a 'House' with an arrow pointing up. To the right of the house is a 'pond' represented by a circle. Below the house is a hatched area labeled 'turf'. At the bottom of the sketch is a horizontal line labeled 'Wood Creek'. A vertical line on the right side is labeled 'Wekkepeemee'.



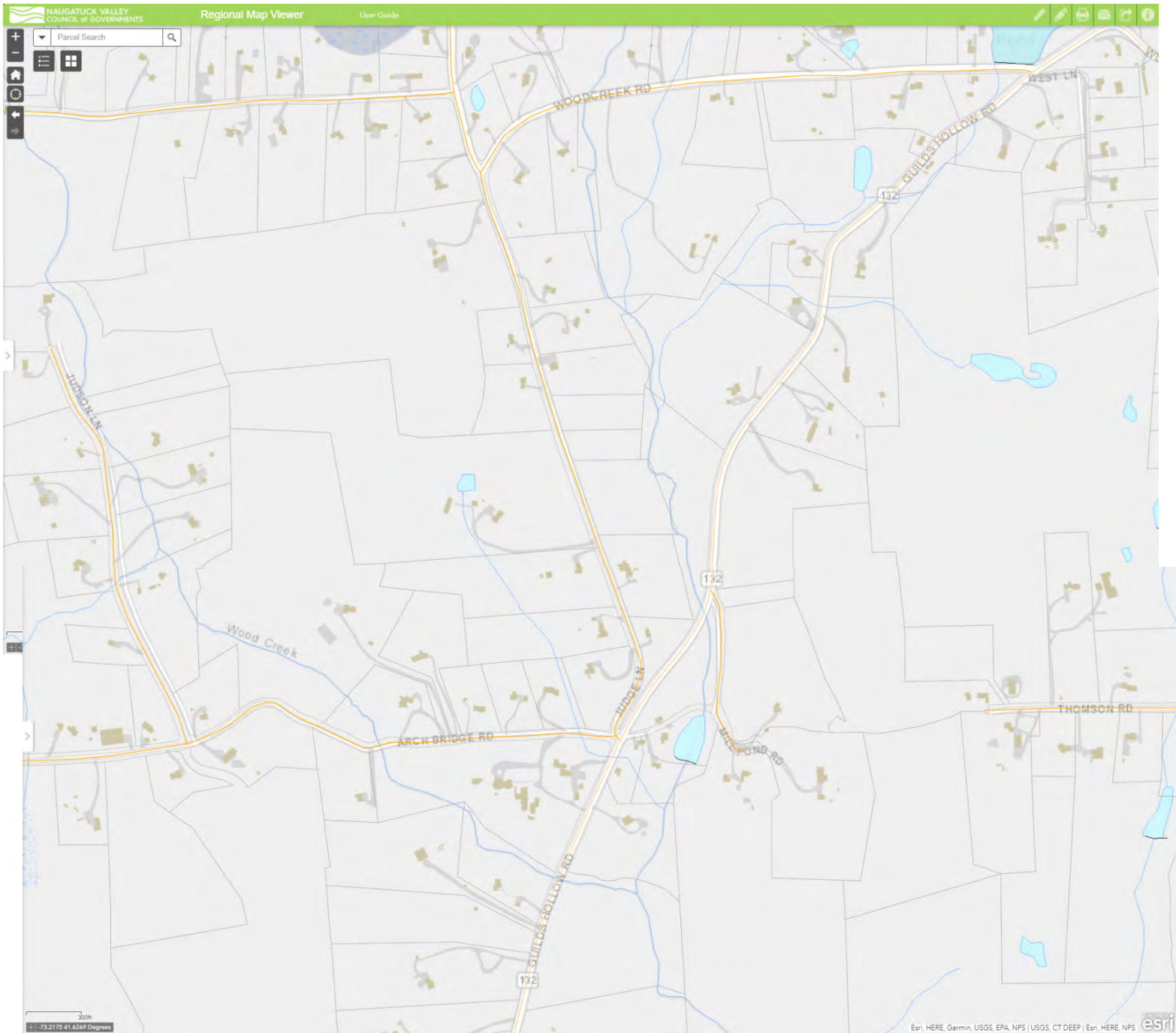
# Reach 7 – Mill Pond Road to Wood Creek Road

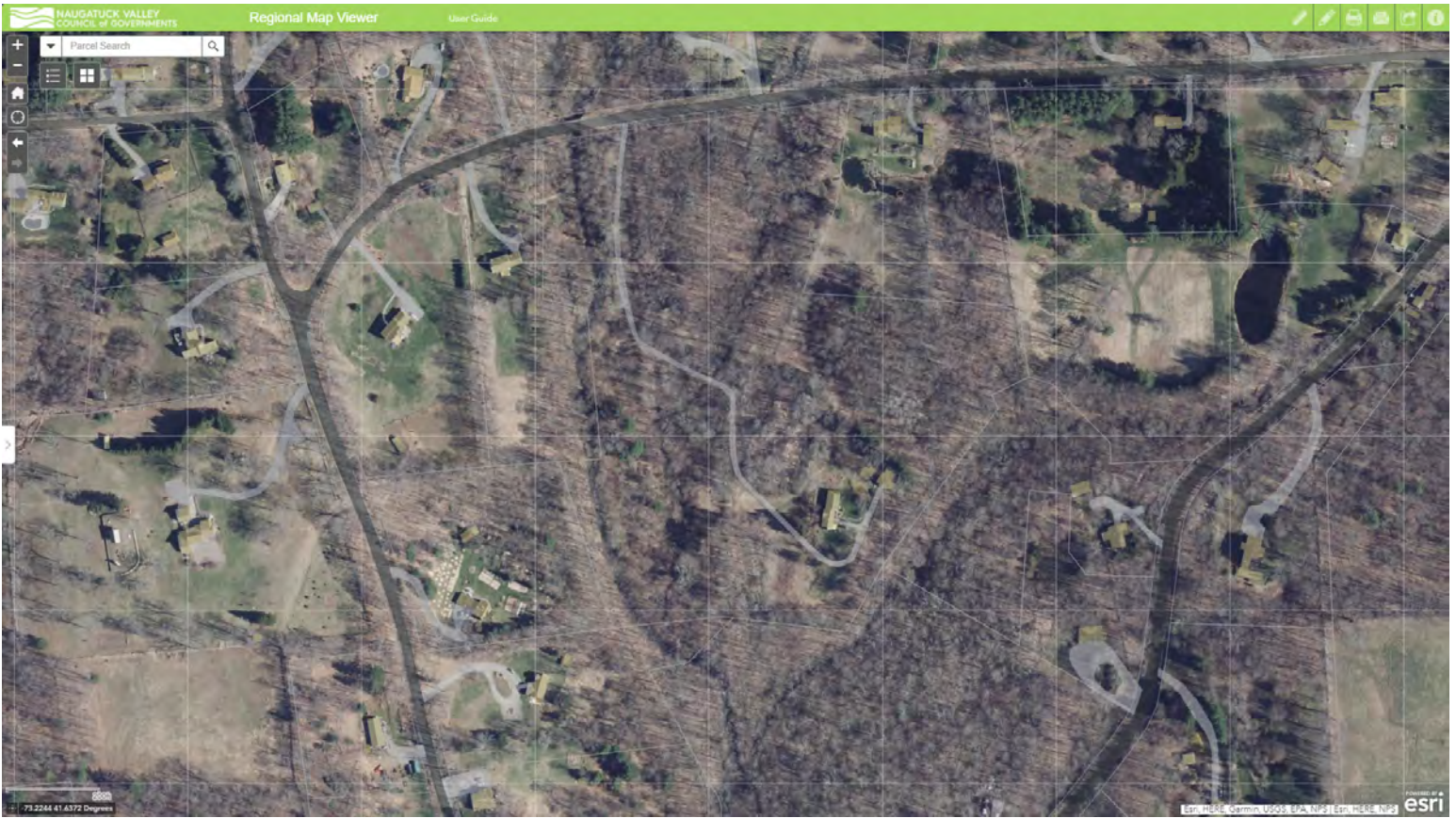
NOTES – Wood Creek Road Bridge is out – active construction zone. Start upstream of the pond on Mill Pond Rd. Reach 6 will end at the confluence of Wood Creek; exit point for Reach 6 is at Two Rivers Preserve located on Route 132.



## Reach 7 – Mill Pond Road to Wood Creek Road

NOTES – Wood Creek Road Bridge is out – active construction zone. Start upstream of the pond on Mill Pond Rd. Reach 6 will end at the confluence of Wood Creek; exit point for Reach 6 is at Two Rivers Preserve located on Route 132.





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Map navigation icons: Home, Back, Forward, Refresh, Print, Full Screen, Help



73.2178 41.6294 Degrees

ESRI, HERE, Garmin, USGS, EPA, NPS, USDA, HERE, Esri, Inc. esri



<b>SURVEY REACH ID:</b> 07		<b>WTRSHD/SUBSHD:</b> Weekeepee	<b>DATE:</b> 8/10/2021	<b>ASSESSED BY:</b> CN DP, SIC 50
<b>START TIME:</b> 10:05 AM/PM	<b>LMK:</b> 70	<b>END TIME:</b> 12:45 AM/PM	<b>LMK:</b> 77	<b>GPS ID:</b>
<b>LAT:</b> 41° 52' 916"		<b>LONG:</b> 73° 20' 100"		
<b>LAT:</b> 41° 03' 864"		<b>LONG:</b> 73° 22' 491"		
<b>DESCRIPTION:</b> Mill Pond Rd / Route 132		<b>DESCRIPTION:</b> Wood Creek Rd		

<b>RAIN IN LAST 24 HOURS</b>	<input type="checkbox"/> Heavy rain	<input type="checkbox"/> Steady rain	<b>PRESENT CONDITIONS</b>	<input type="checkbox"/> Heavy rain	<input type="checkbox"/> Steady rain	<input type="checkbox"/> Intermittent
<input type="checkbox"/> None	<input type="checkbox"/> Intermittent	<input checked="" type="checkbox"/> Trace	<input type="checkbox"/> Clear	<input type="checkbox"/> Trace	<input type="checkbox"/> Overcast	<input checked="" type="checkbox"/> Partly cloudy
<b>SURROUNDING LAND USE:</b>	<input type="checkbox"/> Industrial	<input type="checkbox"/> Commercial	<input checked="" type="checkbox"/> Urban/Residential	<input checked="" type="checkbox"/> Suburban/Res	<input checked="" type="checkbox"/> Forested	<input type="checkbox"/> Institutional
	<input type="checkbox"/> Golf course	<input type="checkbox"/> Park	<input type="checkbox"/> Crop	<input type="checkbox"/> Pasture	<input type="checkbox"/> Other:	

**AVERAGE CONDITIONS (check applicable)**

**BASE FLOW AS %**  0-25%  50%-75%  75-100%

**CHANNEL WIDTH**  25-50%  75-100%

**DOMINANT SUBSTRATE**

Silt/clay (fine or slick)  Cobble (2.5-10")

Sand (gritty)  Boulder (>10")

Gravel (0.1-2.5")  Bed rock

**WATER CLARITY**  Clear  Turbid (suspended matter)

Stained (clear, naturally colored)  Opaque (milky)

Other (chemicals, dyes)

**AQUATIC PLANTS IN STREAM**

Attached:  none  some  lots

Floating:  none  some  lots

**WILDLIFE IN OR AROUND STREAM** (Evidence of)

Fish  Beaver  Deer

Snails  Other: Raccoon

**STREAM SHADING (water surface)**

Mostly shaded (≥75% coverage)

Halfway (≥50%)

Partially shaded (≥25%)

Unshaded (<25%)

**CHANNEL DYNAMICS**

Downcutting  Bed scour

Widening  Bank failure

Headcutting  Bank scour

Aggrading  Slope failure

Unknown  Sed. deposition  Channelized

**CHANNEL DIMENSIONS (FACING DOWNSTREAM)**

Height: LT bank 20 (ft)

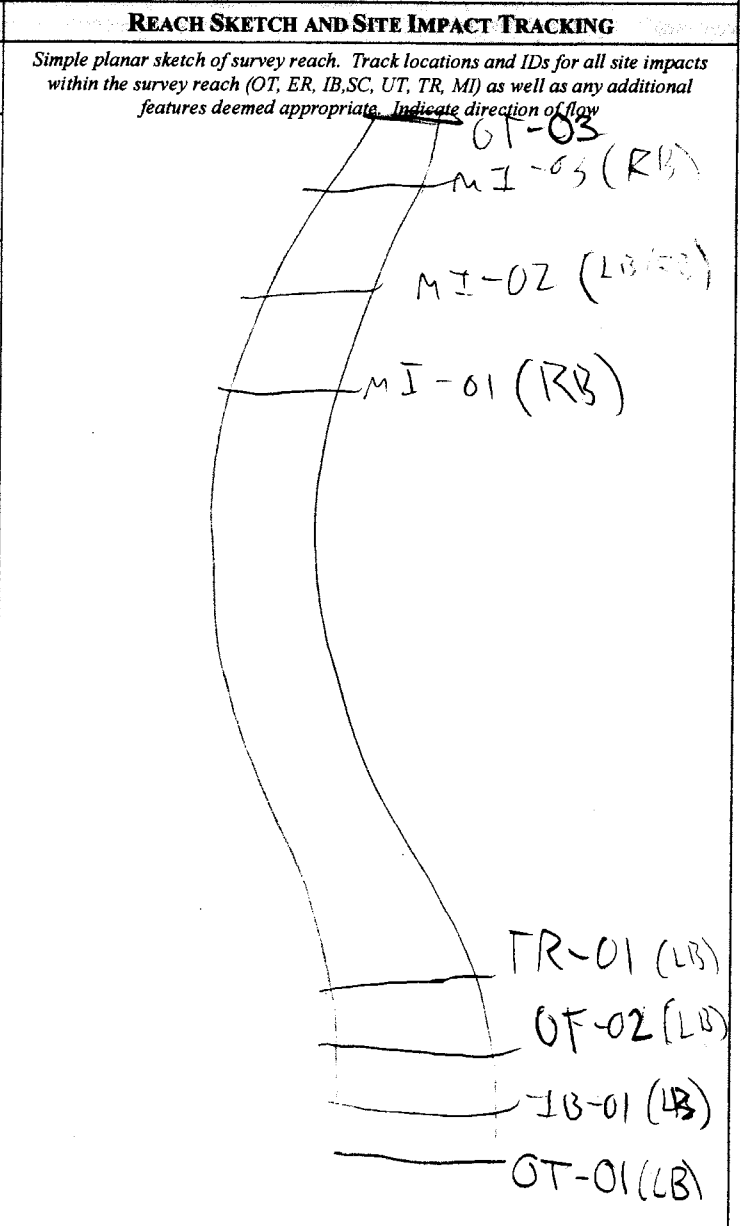
RT bank 20 (ft)

Width: Bottom 15 (ft)

Top 25 (ft)

**REACH ACCESSIBILITY**

<b>Good:</b> Open area in public ownership, sufficient room to stockpile materials, easy stream channel access for heavy equipment using existing roads or trails.	<b>Fair:</b> Forested or developed area adjacent to stream. Access requires tree removal or impact to landscaped areas. Stockpile areas small or distant from stream.	<b>Difficult:</b> Must cross wetland, steep slope, or sensitive areas to get to stream. Few areas to stockpile available and/or located a great distance from stream. Specialized heavy equipment required.
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**NOTES: (biggest problem you see in survey reach)**

Trash, Channel modification

**REPORTED TO AUTHORITIES**  YES  NO

OVERALL STREAM CONDITION																				
		Optimal					Suboptimal					Marginal					Poor			
<b>IN-STREAM HABITAT</b> <i>(May modify criteria based on appropriate habitat regime)</i>	Greater than 70% of substrate favorable for epifaunal colonization and fish cover; mix of snags, submerged logs, undercut banks, cobble or other stable habitat and at stage to allow full colonization potential (i.e., logs/snags that are <u>not</u> new fall and <u>not</u> transient).																			
	20 19 18 17 16					15 14 13 12 11					10 9 8 7 6					5 4 3 2 1 0				
<b>VEGETATIVE PROTECTION</b> <i>(score each bank, determine sides by facing downstream)</i>	More than 90% of the streambank surfaces and immediate riparian zone covered by native vegetation, including trees, understory shrubs, or nonwoody macrophytes; vegetative disruption through grazing or mowing minimal or not evident; almost all plants allowed to grow naturally.																			
	Left Bank 10 9					8 7 6					5 4 3					2 1 0				
	Right Bank 10 9					8 7 6					5 4 3					2 1 0				
<b>BANK EROSION</b> <i>(facing downstream)</i>	Banks stable; evidence of erosion or bank failure absent or minimal; little potential for future problems. <5% of bank affected.																			
	Left Bank 10 9					8 7 6					5 4 3					2 1 0				
	Right Bank 10 9					8 7 6					5 4 3					2 1 0				
<b>FLOODPLAIN CONNECTION</b>	High flows (greater than bankfull) able to enter floodplain. Stream not deeply entrenched.																			
	20 19 18 17 16					15 14 13 12 11					10 9 8 7 6					5 4 3 2 1 0				
OVERALL BUFFER AND FLOODPLAIN CONDITION																				
		Optimal					Suboptimal					Marginal					Poor			
<b>VEGETATED BUFFER WIDTH</b>	Width of buffer zone >50 feet; human activities (i.e., parking lots, roadbeds, clear-cuts, lawns, crops) have not impacted zone.																			
	Left Bank 10 9					8 7 6					5 4 3					2 1 0				
	Right Bank 10 9					8 7 6					5 4 3					2 1 0				
<b>FLOODPLAIN VEGETATION</b>	Predominant floodplain vegetation type is mature forest																			
	20 19 18 17 16					15 14 13 12 11					10 9 8 7 6					5 4 3 2 1 0				
<b>FLOODPLAIN HABITAT</b>	Even mix of wetland and non-wetland habitats, evidence of standing/ponded water																			
20 19 18 17 16					15 14 13 12 11					10 9 8 7 6					5 4 3 2 1 0					
<b>FLOODPLAIN ENCROACHMENT</b>	No evidence of floodplain encroachment in the form of fill material, land development, or manmade structures																			
	20 19 18 17 16					15 14 13 12 11					10 9 8 7 6					5 4 3 2 1 0				
<b>Sub Total In-stream: 70 /80 + Buffer/Floodplain: 49 /80 = Total Survey Reach 119 /160</b>																				

Storm Water Outfalls

**OT**

WATERSHED/SUBSHED: <u>Weckepeemee</u>		DATE: <u>8/10/21</u>	ASSESSED BY: <u>CH, PP, SK, SO</u>
SURVEY REACH ID: <u>07</u>	TIME: <u>10:05 AM/PM</u>	PHOTO ID: (Camera-Pic #) _____	# _____
SITE ID (Condition-#): <u>OT-01</u>	LAT <u>41°52'9.16"</u>	LONG <u>73°20'1.00"</u>	LMK <u>070</u> GPS: (Unit ID) _____

<b>BANK:</b> <input checked="" type="checkbox"/> LT <input type="checkbox"/> RT <input type="checkbox"/> Head  <b>FLOW:</b> <input type="checkbox"/> None <input type="checkbox"/> Trickle <input type="checkbox"/> Moderate <input type="checkbox"/> Substantial <input type="checkbox"/> Other:	<b>TYPE:</b> <input checked="" type="checkbox"/> Closed pipe  <input type="checkbox"/> Open channel	<b>MATERIAL:</b> <input checked="" type="checkbox"/> Concrete <input type="checkbox"/> Metal <input type="checkbox"/> PVC/Plastic <input type="checkbox"/> Brick <input type="checkbox"/> Other:	<b>SHAPE:</b> <input type="checkbox"/> Single <input type="checkbox"/> Double <input type="checkbox"/> Elliptical <input type="checkbox"/> Triple <input type="checkbox"/> Other:	<b>DIMENSIONS:</b> Diameter: <u>18</u> (in)  Depth: _____ (in) Width (Top): _____ (in) " (Bottom): _____ (in)	<b>SUBMERGED:</b> <input checked="" type="checkbox"/> No <input type="checkbox"/> Partially <input type="checkbox"/> Fully
	<b>CONDITION:</b> <input checked="" type="checkbox"/> None <input type="checkbox"/> Chip/Cracked <input type="checkbox"/> Peeling Paint <input type="checkbox"/> Corrosion <input type="checkbox"/> Other:		<b>ODOR:</b> <input checked="" type="checkbox"/> No <input type="checkbox"/> Gas <input type="checkbox"/> Sewage <input type="checkbox"/> Rancid/Sour <input type="checkbox"/> Sulfide <input type="checkbox"/> Other:	<b>DEPOSITS/STAINS:</b> <input type="checkbox"/> None <input type="checkbox"/> Oily <input checked="" type="checkbox"/> Flow Line <input type="checkbox"/> Paint <input type="checkbox"/> Other:	<b>VEGGIE DENSITY:</b> <input checked="" type="checkbox"/> None <input type="checkbox"/> Normal <input type="checkbox"/> Inhibited <input type="checkbox"/> Excessive <input type="checkbox"/> Other:
<b>POOL QUALITY:</b> <input checked="" type="checkbox"/> No pool <input type="checkbox"/> Good <input type="checkbox"/> Odors <input type="checkbox"/> Colors <input type="checkbox"/> Oils <input type="checkbox"/> Suds <input type="checkbox"/> Algae <input type="checkbox"/> Floatables <input type="checkbox"/> Other:					

<b>FOR FLOWING ONLY</b>	<b>COLOR:</b>	<input type="checkbox"/> Clear <input type="checkbox"/> Brown <input type="checkbox"/> Grey <input type="checkbox"/> Yellow <input type="checkbox"/> Green <input type="checkbox"/> Orange <input type="checkbox"/> Red <input type="checkbox"/> Other:					
	<b>TURBIDITY:</b>	<input type="checkbox"/> None <input type="checkbox"/> Slight Cloudiness <input type="checkbox"/> Cloudy <input type="checkbox"/> Opaque					
	<b>FLOATABLES:</b>	<input type="checkbox"/> None <input type="checkbox"/> Sewage (toilet paper, etc.)		<input type="checkbox"/> Petroleum (oil sheen)		<input type="checkbox"/> Other:	
<b>OTHER CONCERNS:</b>	<input type="checkbox"/> Excess Trash (paper/plastic bags)		<input type="checkbox"/> Dumping (bulk)		<input type="checkbox"/> Excessive Sedimentation		
	<input type="checkbox"/> Needs Regular Maintenance		<input type="checkbox"/> Bank Erosion		<input checked="" type="checkbox"/> Other: <u>None</u>		

**POTENTIAL RESTORATION CANDIDATE**  Discharge investigation  Stream daylighting  Local stream repair/outfall stabilization

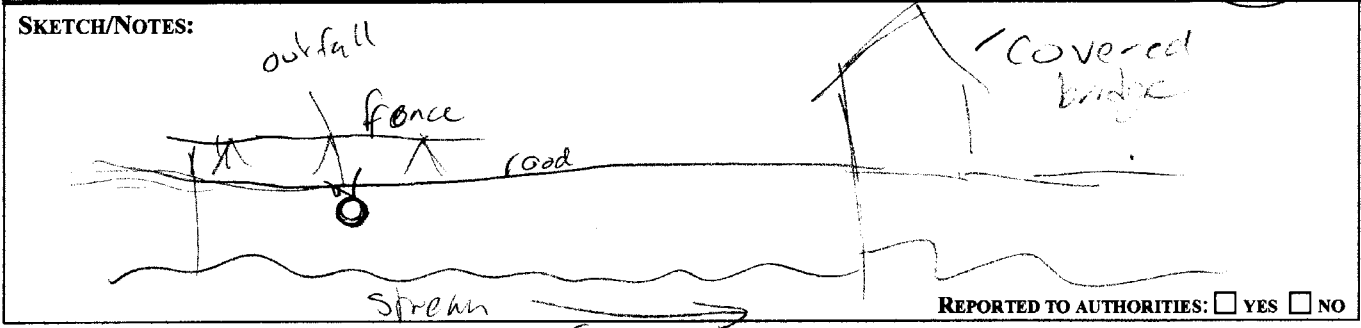
no  Storm water retrofit  Other:

*If yes for daylighting:*  
 Length of vegetative cover from outfall: \_\_\_\_\_ ft Type of existing vegetation: \_\_\_\_\_ Slope: \_\_\_\_\_ °

*If yes for stormwater:*  
 Is stormwater currently controlled?  
 Yes  No  Not investigated

Land Use description: \_\_\_\_\_  
 Area available: \_\_\_\_\_

<b>OUTFALL SEVERITY:</b> (circle #)	Heavy discharge with a distinct color and/or a strong smell. The amount of discharge is significant compared to the amount of normal flow in receiving stream; discharge appears to be having a significant impact downstream.	Small discharge; flow mostly clear and odorless. If the discharge has a color and/or odor, the amount of discharge is very small compared to the stream's base flow and any impact appears to be minor / localized.	Outfall does not have dry weather discharge; staining; or appearance of causing any erosion problems.	
	5	4	3	2



Storm Water Outfalls



<b>WATERSHED/SUBSHED:</b> <u>WEEK</u>	<b>DATE:</b> <u>8/10/2021</u>	<b>ASSESSED BY:</b> <u>CA, DP, SC, SK</u>
<b>SURVEY REACH ID:</b> <u>07</u>	<b>TIME:</b> <u>10:37 AM/PM</u>	<b>PHOTO ID: (Camera-Pic #)</b> <u>        </u> <b>#</b> <u>        </u>
<b>SITE ID (Condition-#):</b> <u>OT-02</u>	<b>LAT</b> <u>40° 63' 19"</u> <b>LONG</b> <u>-73° 22' 28"</u>	<b>LMK</b> <u>72</u> <b>GPS: (Unit ID)</b> <u>        </u>

<b>BANK:</b> <input checked="" type="checkbox"/> LT <input type="checkbox"/> RT <input type="checkbox"/> Head	<b>TYPE:</b> <input checked="" type="checkbox"/> Closed pipe <input type="checkbox"/> Open channel	<b>MATERIAL:</b> <input checked="" type="checkbox"/> Concrete <input type="checkbox"/> Metal <input type="checkbox"/> PVC/Plastic <input type="checkbox"/> Brick <input type="checkbox"/> Other:	<b>SHAPE:</b> <input checked="" type="checkbox"/> Single <input type="checkbox"/> Double <input checked="" type="checkbox"/> Circular <input type="checkbox"/> Elliptical <input type="checkbox"/> Triple <input type="checkbox"/> Other:	<b>DIMENSIONS:</b> Diameter: <u>24</u> (in) Depth: _____ (in) Width (Top): _____ (in) " (Bottom): _____ (in)	<b>SUBMERGED:</b> <input checked="" type="checkbox"/> No <input type="checkbox"/> Partially <input type="checkbox"/> Fully
<b>FLOW:</b> <input checked="" type="checkbox"/> None <input type="checkbox"/> Trickle <input type="checkbox"/> Moderate <input type="checkbox"/> Substantial <input type="checkbox"/> Other:	<input type="checkbox"/> Concrete <input type="checkbox"/> Earthen <input type="checkbox"/> Other:	<input type="checkbox"/> Trapezoid <input type="checkbox"/> Parabolic <input type="checkbox"/> Other:	<b>NOT APPLICABLE</b>		
<b>CONDITION:</b> <input checked="" type="checkbox"/> None <input type="checkbox"/> Chip/Cracked <input type="checkbox"/> Peeling Paint <input type="checkbox"/> Corrosion <input type="checkbox"/> Other:	<b>ODOR:</b> <input checked="" type="checkbox"/> No <input type="checkbox"/> Gas <input type="checkbox"/> Sewage <input type="checkbox"/> Rancid/Sour <input type="checkbox"/> Sulfide <input type="checkbox"/> Other:	<b>DEPOSITS/STAINS:</b> <input checked="" type="checkbox"/> None <input type="checkbox"/> Oily <input type="checkbox"/> Flow Line <input type="checkbox"/> Paint <input type="checkbox"/> Other:	<b>VEGGIE DENSITY:</b> <input checked="" type="checkbox"/> None <input type="checkbox"/> Normal <input type="checkbox"/> Inhibited <input type="checkbox"/> Excessive <input type="checkbox"/> Other:	<b>PIPE BENTHIC GROWTH:</b> <input type="checkbox"/> None <input type="checkbox"/> Brown <input type="checkbox"/> Orange <input checked="" type="checkbox"/> Green <input type="checkbox"/> Other: <b>POOL QUALITY:</b> <input checked="" type="checkbox"/> No pool <input type="checkbox"/> Good <input type="checkbox"/> Odors <input type="checkbox"/> Colors <input type="checkbox"/> Oils <input type="checkbox"/> Suds <input type="checkbox"/> Algae <input type="checkbox"/> Floatables <input type="checkbox"/> Other:	

<b>FOR FLOWING ONLY</b>	<b>COLOR:</b>	<input type="checkbox"/> Clear <input type="checkbox"/> Brown <input type="checkbox"/> Grey <input type="checkbox"/> Yellow <input type="checkbox"/> Green <input type="checkbox"/> Orange <input type="checkbox"/> Red <input type="checkbox"/> Other:					
	<b>TURBIDITY:</b>	<input type="checkbox"/> None <input type="checkbox"/> Slight Cloudiness <input type="checkbox"/> Cloudy <input type="checkbox"/> Opaque					
	<b>FLOATABLES:</b>	<input type="checkbox"/> None <input type="checkbox"/> Sewage (toilet paper, etc.) <input type="checkbox"/> Petroleum (oil sheen) <input type="checkbox"/> Other:					
<b>OTHER CONCERNS:</b>	<input checked="" type="checkbox"/> Excess Trash (paper/plastic bags) <input type="checkbox"/> Dumping (bulk) <input type="checkbox"/> Excessive Sedimentation <input type="checkbox"/> Needs Regular Maintenance <input type="checkbox"/> Bank Erosion <input type="checkbox"/> Other:						

**POTENTIAL RESTORATION CANDIDATE**  Discharge investigation  Stream daylighting  Local stream repair/outfall stabilization  
 no  Storm water retrofit  Other:

*If yes for daylighting:*  
 Length of vegetative cover from outfall: \_\_\_\_\_ ft    Type of existing vegetation: \_\_\_\_\_    Slope: \_\_\_\_\_ °

*If yes for stormwater:*  
 Is stormwater currently controlled?  Yes  No  Not investigated    Land Use description: ROAD RIGHT OF WAY  
 Area available: \_\_\_\_\_

<b>OUTFALL SEVERITY:</b> (circle #)	Heavy discharge with a distinct color and/or a strong smell. The amount of discharge is significant compared to the amount of normal flow in receiving stream; discharge appears to be having a significant impact downstream.	Small discharge; flow mostly clear and odorless. If the discharge has a color and/or odor, the amount of discharge is very small compared to the stream's base flow and any impact appears to be minor / localized.	Outfall does not have dry weather discharge; staining; or appearance of causing any erosion problems.
	5	4	3
			2
			1

**SKETCH/NOTES:** - MAY BE DRY STREAM CROSSING  
 - LOTS OF CANS & BOTTLES

**REPORTED TO AUTHORITIES:**  YES  NO





**WATERSHED/SUBSHED:** Weticepeme      **DATE:** 8/10/2021      **ASSESSED BY:** CH, PP, SK, SO  
**SURVEY REACH:** 07      **TIME:** 10:07 AM/PM      **PHOTO ID: (Camera-Pic #)** | **#**  
**SITE ID: (Condition-#)**      **START**    **LAT** 41° 52' 9.16"    **LONG** -73° 20' 1.00"    **LMK** 70      **GPS: (Unit ID)**  
**IB-01**      **END**      **LAT** 41° 63' 1.10"    **LONG** -73° 22' 2.46"    **LMK** 71

**IMPACTED BANK:**      **REASON INADEQUATE:**     Lack of vegetation     Too narrow     Widespread invasive plants  
 LT     RT     Both       Recently planted     Other:

**LAND USE:**      Private    Institutional    Golf Course    Park    Other Public  
 (Facing downstream) LT Bank                     Road  
 RT Bank                     :

**DOMINANT LAND COVER:**    Paved    Bare ground    Turf/lawn    Tall grass    Shrub/scrub    Trees    Other  
 LT Bank                             :  
 RT Bank                             :

**INVASIVE PLANTS:**     None     Rare     Partial coverage     Extensive coverage     unknown

**STREAM SHADE PROVIDED?**     None     Partial     Full      **WETLANDS PRESENT?**     No     Yes     Unknown

**POTENTIAL RESTORATION CANDIDATE**     Active reforestation     Greenway design     Natural regeneration     Invasives removal  
 no       Other:

RESTORABLE AREA	REFORESTATION POTENTIAL:	Impacted area on public land where the riparian area does not appear to be used for any specific purpose; plenty of area available for planting	Impacted area on either public or private land that is presently used for a specific purpose; available area for planting adequate	Impacted area on private land where road; building encroachment or other feature significantly limits available area for planting
Length (ft):      LT    BANK    RT Width (ft):	(Circle #)	5	4	3
			2	1

**POTENTIAL CONFLICTS WITH REFORESTATION**     Widespread invasive plants     Potential contamination     Lack of sun  
 Poor/unsafe access to site     Existing impervious cover     Severe animal impacts (deer, beaver)     Other: Road

**NOTES:**

- Lots of armoring, evidence of channel modification
- No restoration candidate, as road prevents vegetation growth
- Right bank has some minor undercutting



<b>WATERSHED/SUBSHED:</b> <u>WELK</u>		<b>DATE:</b> <u>8/16/2021</u>		<b>ASSESSED BY:</b> <u>CH, PP, SK, SC</u>	
<b>SURVEY REACH ID:</b> <u>07</u>		<b>TIME:</b> <u>10:57</u> AM/PM		<b>PHOTO ID: (Camera-Pic #)</b> <u>3</u> /#	
<b>SITE ID: (Condition-#)</b> <u>TR-01</u>		<b>LAT</b> <u>41° 63' 26.9"</u> <b>LONG</b> <u>73° 22' 29.0"</u>		<b>GPS: (Unit ID)</b> <u>LMK 73</u>	
<b>TYPE:</b> <input type="checkbox"/> Industrial <input type="checkbox"/> Commercial <input checked="" type="checkbox"/> Residential	<b>MATERIAL:</b> <input checked="" type="checkbox"/> Plastic <input type="checkbox"/> Tires <input type="checkbox"/> Appliances <input type="checkbox"/> Automotive <input type="checkbox"/> Paper <input type="checkbox"/> Construction <input type="checkbox"/> Yard Waste <input type="checkbox"/> Other:		<b>SOURCE:</b> <input type="checkbox"/> Unknown <input checked="" type="checkbox"/> Flooding <input checked="" type="checkbox"/> Illegal dump <input type="checkbox"/> Local outfall	<b>LOCATION:</b> <input type="checkbox"/> Stream <input checked="" type="checkbox"/> Riparian Area <input checked="" type="checkbox"/> Lt bank <input type="checkbox"/> Rt bank	<b>LAND OWNERSHIP:</b> <input type="checkbox"/> Public <input checked="" type="checkbox"/> Unknown <input type="checkbox"/> Private <b>AMOUNT (# Pickup truck loads):</b>
<b>POTENTIAL RESTORATION CANDIDATE</b> <input type="checkbox"/> Stream cleanup <input type="checkbox"/> Stream adoption segment <input checked="" type="checkbox"/> Removal/prevention of dumping <input type="checkbox"/> no <input type="checkbox"/> Other:					
<i>If yes for trash or debris removal</i>	<b>EQUIPMENT NEEDED :</b> <input type="checkbox"/> Heavy equipment <input checked="" type="checkbox"/> Trash bags <input type="checkbox"/> Unknown			<b>DUMPSTER WITHIN 100 FT:</b> <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Unknown	
	<b>WHO CAN DO IT:</b> <input checked="" type="checkbox"/> Volunteers <input type="checkbox"/> Local Gov <input type="checkbox"/> Hazmat Team <input type="checkbox"/> Other				
<b>CLEAN-UP POTENTIAL:</b> (Circle #)	A small amount of trash (i.e., less than two pickup truck loads) located inside a park with easy access	A large amount of trash, or bulk items, in a small area with easy access. Trash may have been dumped over a long period of time but it could be cleaned up in a few days, possibly with a small backhoe.	A large amount of trash or debris scattered over a large area, where access is very difficult. Or presence of drums or indications of hazardous materials		
	5	(4)	3	2	1
<b>NOTES:</b> <u>- Road side trash</u>					
<b>REPORTED TO AUTHORITIES</b> <input type="checkbox"/> YES <input type="checkbox"/> NO					

WATERSHED/SUBSHED: <u>Week</u>	DATE: <u>10/18/2021</u>	ASSESSED BY: <u>CH, PP, SIC, SO</u>
SURVEY REACH ID: <u>07</u>	TIME: <u>11:36</u> AM/PM	PHOTO ID: (Camera-Pic #) <u>4</u> #
SITE ID: (Condition-#) <u>MI-01</u>	LAT <u>41° 63' 47.4"</u> LONG <u>73° 22' 57.7"</u> LMK: <u>74</u>	GPS: (Unit ID)
POTENTIAL RESTORATION CANDIDATE <input type="checkbox"/> Storm water retrofit <input checked="" type="checkbox"/> Stream restoration <input type="checkbox"/> Riparian Management <input type="checkbox"/> no <input type="checkbox"/> Discharge Prevention <input type="checkbox"/> Other:		
DESCRIBE: <u>- man-made rock barrier/dam/stonewall</u> <u>- last clearing of understory</u>		
REPORTED TO LOCAL AUTHORITIES <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		

WATERSHED/SUBSHED: <u>Week</u>	DATE: <u>8/16/2021</u>	ASSESSED BY: <u>CH, PP, SIC, SO</u>
SURVEY REACH ID: <u>07</u>	TIME: <u>11:43</u> AM/PM	PHOTO ID: (Camera-Pic #) <u>5</u> #
SITE ID: (Condition-#) <u>MI-02</u>	LAT <u>41° 63' 09"</u> LONG <u>73° 22' 36.7"</u> LMK: <u>75</u>	GPS: (Unit ID)
POTENTIAL RESTORATION CANDIDATE <input type="checkbox"/> Storm water retrofit <input checked="" type="checkbox"/> Stream restoration <input type="checkbox"/> Riparian Management <input type="checkbox"/> no <input type="checkbox"/> Discharge Prevention <input type="checkbox"/> Other:		
DESCRIBE: <u>- man-made stone wall in stream</u> <u>- between 2-3 feet in height</u>		
REPORTED TO LOCAL AUTHORITIES <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		

WATERSHED/SUBSHED: <u>Week</u>	DATE: <u>8/10/2021</u>	ASSESSED BY: <u>CH, SIC, PP, SO</u>
SURVEY REACH ID: <u>07</u>	TIME: <u>11:57</u> AM/PM	PHOTO ID: (Camera-Pic #) <u>6</u> #
SITE ID: (Condition-#) <u>MI-03</u>	LAT <u>41° 06' 36.04"</u> LONG <u>73° 22' 15.6"</u> LMK: <u>76</u>	GPS: (Unit ID)
POTENTIAL RESTORATION CANDIDATE <input type="checkbox"/> Storm water retrofit <input type="checkbox"/> Stream restoration <input type="checkbox"/> Riparian Management <input type="checkbox"/> no <input checked="" type="checkbox"/> Discharge Prevention <input checked="" type="checkbox"/> Other: <u>Remove hose</u>		
DESCRIBE: <u>- hose for unknown purpose</u> <u>- no pump, so it's not a water withdrawal</u> <u>- hose 100+ feet long</u> <u>- possible discharge pipe/ sump</u>		
REPORTED TO LOCAL AUTHORITIES <input type="checkbox"/> Yes <input type="checkbox"/> No		

Storm Water Outfalls

**OT**

<b>WATERSHED/SUBSHED:</b> <u>WEEK</u>	<b>DATE:</b> <u>8/10/2011</u>	<b>ASSESSED BY:</b> <u>CH, DP, SK</u>
<b>SURVEY REACH ID:</b> <u>07</u>	<b>TIME:</b> <u>12:34 AM/PM</u>	<b>PHOTO ID: (Camera-Pic #)</b> <u>7</u> #
<b>SITE ID (Condition-#):</b> <u>OT-03</u>	<b>LAT</b> <u>41° 63' 86"</u> <b>LONG</b> <u>-80° 22' 49"</u>	<b>LMK</b> <u>77</u> <b>GPS: (Unit ID)</b>

<b>BANK:</b> <input type="checkbox"/> LT <input checked="" type="checkbox"/> RT <input type="checkbox"/> Head	<b>TYPE:</b> <input checked="" type="checkbox"/> Closed pipe <input type="checkbox"/> Open channel	<b>MATERIAL:</b> <input type="checkbox"/> Concrete <input checked="" type="checkbox"/> Metal <input type="checkbox"/> PVC/Plastic <input type="checkbox"/> Brick <input type="checkbox"/> Other:	<b>SHAPE:</b> <input checked="" type="checkbox"/> Single <input type="checkbox"/> Double <input checked="" type="checkbox"/> Circular <input type="checkbox"/> Elliptical <input type="checkbox"/> Triple <input type="checkbox"/> Other:	<b>DIMENSIONS:</b> Diameter: <u>12</u> (in) Depth: _____ (in) Width (Top): _____ (in) " (Bottom): _____ (in)	<b>SUBMERGED:</b> <input checked="" type="checkbox"/> No <input type="checkbox"/> Partially <input type="checkbox"/> Fully
<b>FLOW:</b> <input checked="" type="checkbox"/> None <input type="checkbox"/> Trickle <input type="checkbox"/> Moderate <input type="checkbox"/> Substantial <input type="checkbox"/> Other:	<input type="checkbox"/> Concrete <input type="checkbox"/> Earthen <input type="checkbox"/> Other:	<input type="checkbox"/> Trapezoid <input type="checkbox"/> Parabolic <input type="checkbox"/> Other:	<b>NOT APPLICABLE</b>		

<b>CONDITION:</b> <input checked="" type="checkbox"/> None <input type="checkbox"/> Chip/Cracked <input type="checkbox"/> Peeling Paint <input type="checkbox"/> Corrosion <input checked="" type="checkbox"/> Other: <u>NEW</u>	<b>ODOR:</b> <input checked="" type="checkbox"/> No <input type="checkbox"/> Gas <input type="checkbox"/> Sewage <input type="checkbox"/> Rancid/Sour <input type="checkbox"/> Sulfide <input type="checkbox"/> Other:	<b>DEPOSITS/STAINS:</b> <input checked="" type="checkbox"/> None <input type="checkbox"/> Oily <input type="checkbox"/> Flow Line <input type="checkbox"/> Paint <input type="checkbox"/> Other:	<b>VEGGIE DENSITY:</b> <input checked="" type="checkbox"/> None <input type="checkbox"/> Normal <input type="checkbox"/> Inhibited <input type="checkbox"/> Excessive <input type="checkbox"/> Other:	<b>PIPE BENTHIC GROWTH:</b> <input checked="" type="checkbox"/> None <input type="checkbox"/> Brown <input type="checkbox"/> Orange <input type="checkbox"/> Green <input type="checkbox"/> Other: <b>POOL QUALITY:</b> <input type="checkbox"/> No pool <input type="checkbox"/> Good <input type="checkbox"/> Odors <input type="checkbox"/> Colors <input type="checkbox"/> Oils <input type="checkbox"/> Suds <input type="checkbox"/> Algae <input type="checkbox"/> Floatables <input checked="" type="checkbox"/> Other: <u>Heavy amount of sludge</u>
---	---	---	--	---

<b>FOR FLOWING ONLY</b>	<b>COLOR:</b> <input type="checkbox"/> Clear <input type="checkbox"/> Brown <input type="checkbox"/> Grey <input type="checkbox"/> Yellow <input type="checkbox"/> Green <input type="checkbox"/> Orange <input type="checkbox"/> Red <input type="checkbox"/> Other:
	<b>TURBIDITY:</b> <input type="checkbox"/> None <input type="checkbox"/> Slight Cloudiness <input type="checkbox"/> Cloudy <input type="checkbox"/> Opaque
	<b>FLOATABLES:</b> <input type="checkbox"/> None <input type="checkbox"/> Sewage (toilet paper, etc.) <input type="checkbox"/> Petroleum (oil sheen) <input type="checkbox"/> Other:
<b>OTHER CONCERNS:</b>	<input type="checkbox"/> Excess Trash (paper/plastic bags) <input type="checkbox"/> Dumping (bulk) <input type="checkbox"/> Excessive Sedimentation <input type="checkbox"/> Needs Regular Maintenance <input type="checkbox"/> Bank Erosion <input checked="" type="checkbox"/> Other: <u>none</u>

**POTENTIAL RESTORATION CANDIDATE**  Discharge investigation  Stream daylighting  Local stream repair/outfall stabilization  
 no  Storm water retrofit  Other:

**If yes for daylighting:**  
Length of vegetative cover from outfall: \_\_\_\_\_ ft Type of existing vegetation: \_\_\_\_\_ Slope: \_\_\_\_\_ °

**If yes for stormwater:**  
Is stormwater currently controlled?  Yes  No  Not investigated  
Land Use description: \_\_\_\_\_  
Area available: \_\_\_\_\_

<b>OUTFALL SEVERITY:</b> (circle #)	Heavy discharge with a distinct color and/or a strong smell. The amount of discharge is significant compared to the amount of normal flow in receiving stream; discharge appears to be having a significant impact downstream.	Small discharge; flow mostly clear and odorless. If the discharge has a color and/or odor, the amount of discharge is very small compared to the stream's base flow and any impact appears to be minor / localized.	Outfall does not have dry weather discharge; staining; or appearance of causing any erosion problems.	
	5	4	3	2

**SKETCH/NOTES:**

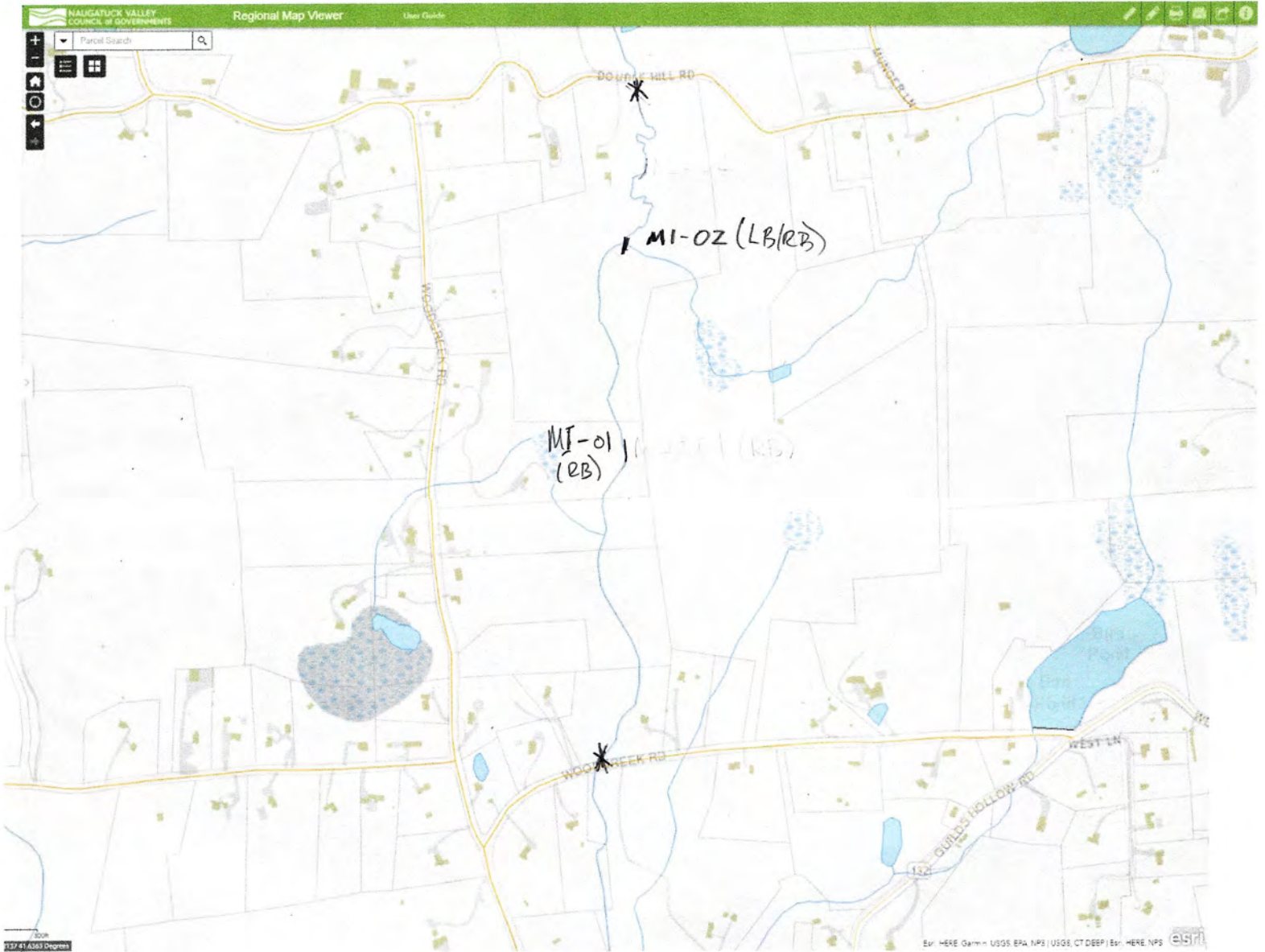
-25 feet from river Road

**REPORTED TO AUTHORITIES:**  YES  NO

Not to scale!

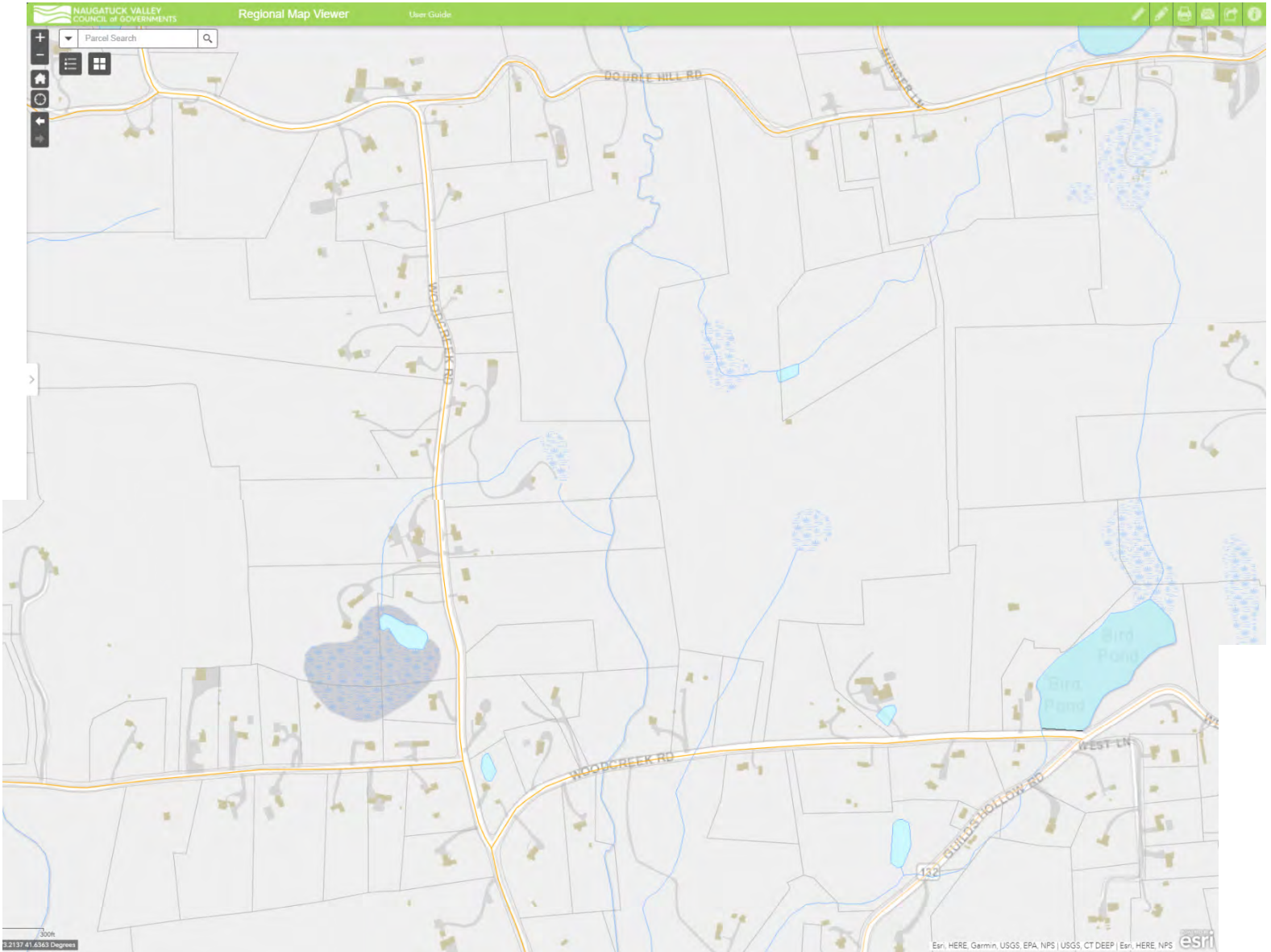
# Reach 8 – Wood Creek Road to Double Hill Road

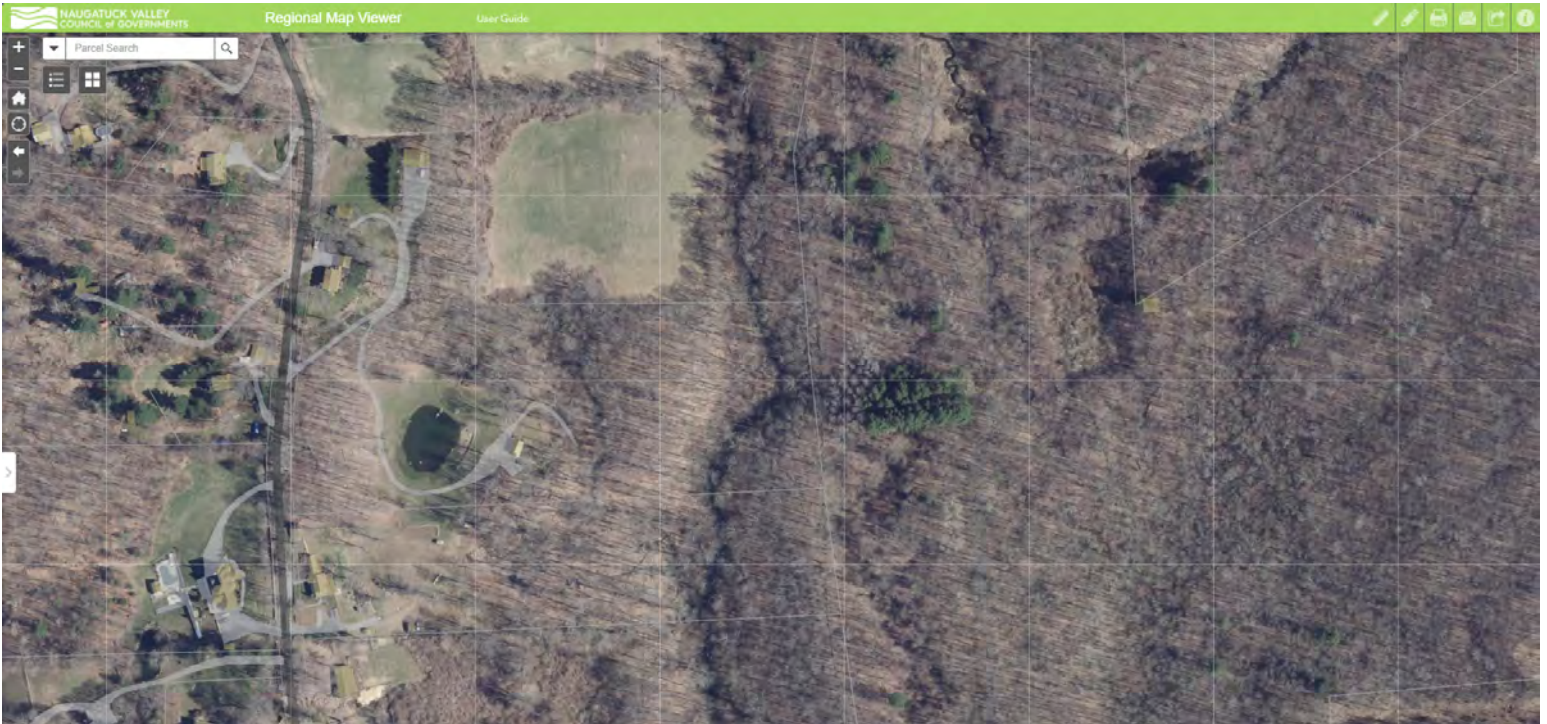
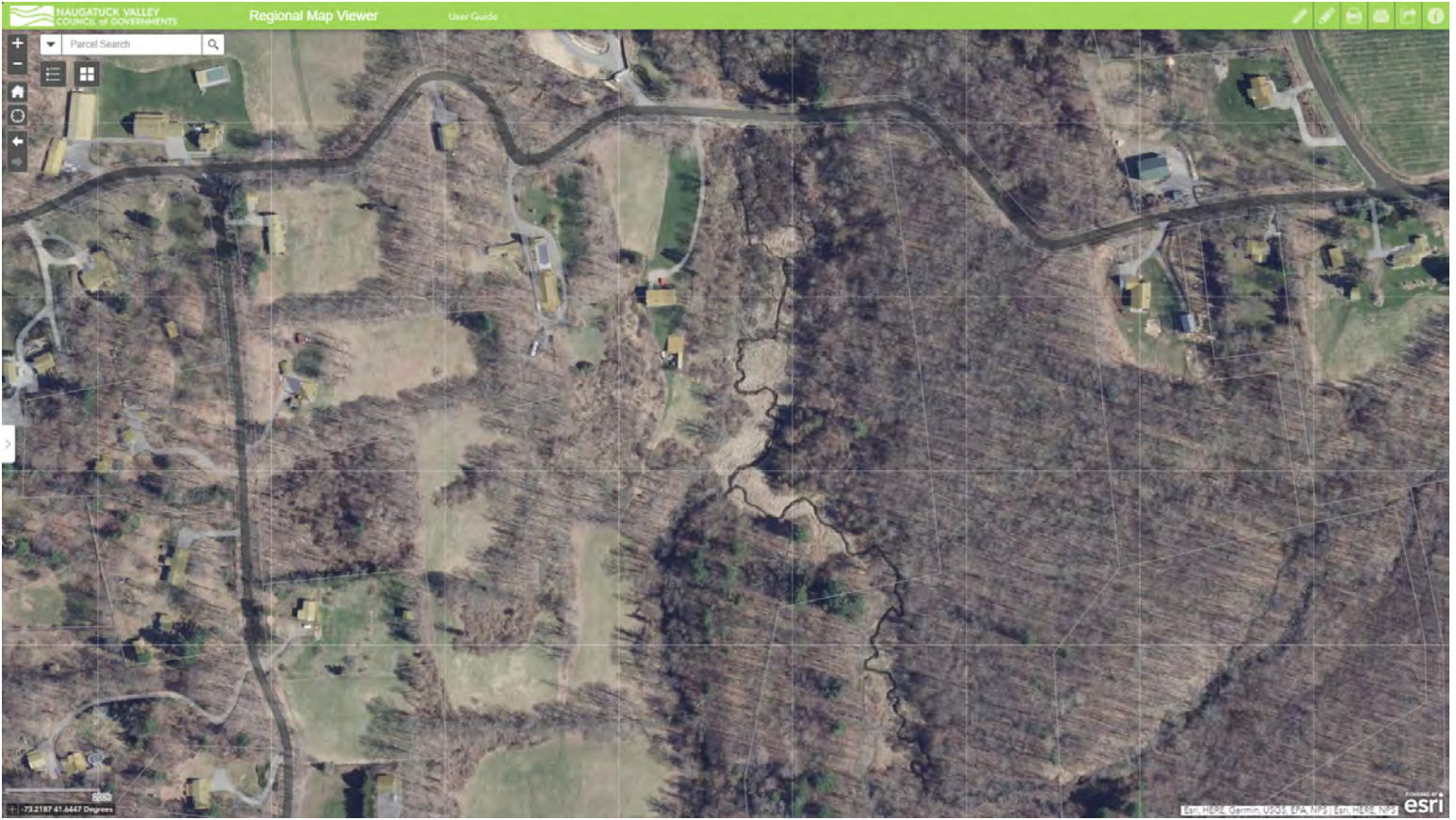
NOTE – Wood Creek Road Bridge is out – active construction zone



## Reach 8 – Wood Creek Road to Double Hill Road

NOTE – Wood Creek Road Bridge is out – active construction zone





Parcel Search

Map navigation controls: Home, Back, Forward, Refresh, Print, Full Screen, Help

Scale: 6560

Coordinates: 73.2190 41.6379 Degrees





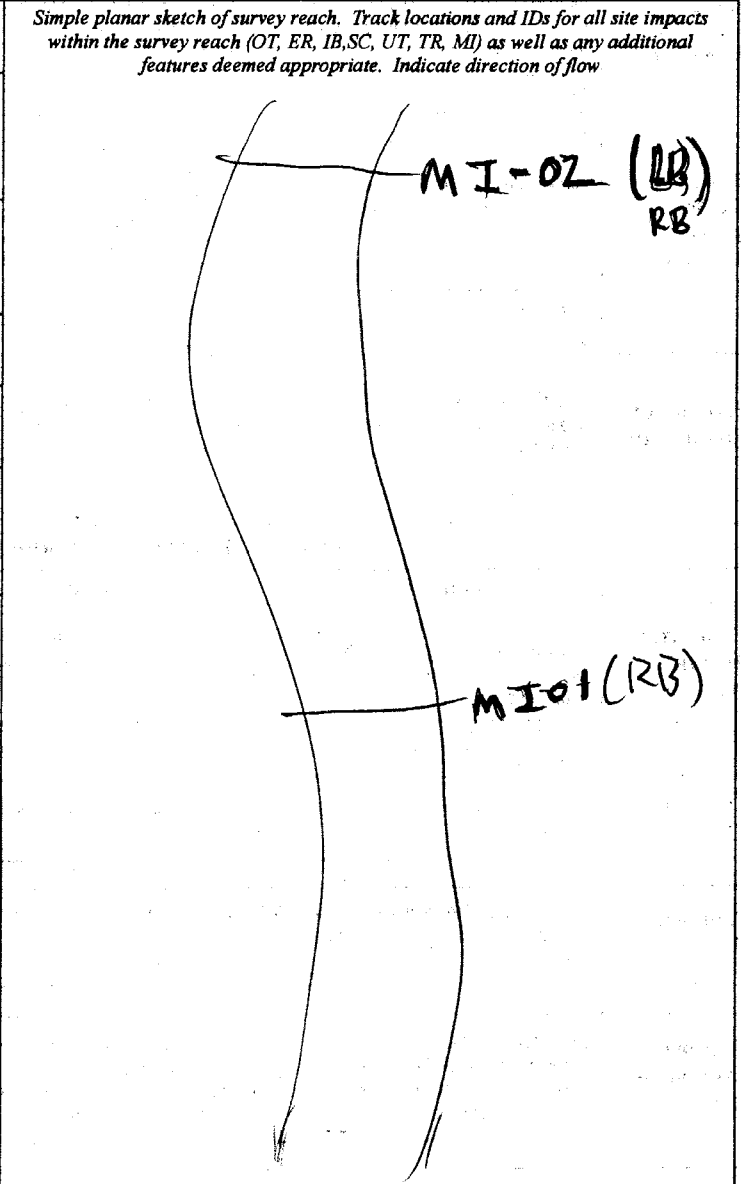


<b>SURVEY REACH ID:</b> 02	<b>WTRSHD/SUBSHD:</b> Wee Kee	<b>DATE:</b> 8/11/2001	<b>ASSESSED BY:</b> CH, PP, SK, SO
<b>START TIME:</b> 10:12 AM/PM	<b>LMK:</b> 78	<b>END TIME:</b> 11:29 AM/PM	<b>LMK:</b> 80
<b>LAT:</b> 41° 63' 889"	<b>LONG:</b> 73° 22' 409"	<b>LAT:</b> 41° 64' 606"	<b>LONG:</b> 73° 22' 446"
<b>DESCRIPTION:</b> Wood Creek Rd		<b>DESCRIPTION:</b> Beaver Swamp DS of Double Hill Rd	

<b>RAIN IN LAST 24 HOURS</b>	<input type="checkbox"/> Heavy rain	<input type="checkbox"/> Steady rain	<input type="checkbox"/> Intermittent
<input checked="" type="checkbox"/> None	<input type="checkbox"/> Intermittent	<input type="checkbox"/> Trace	
<b>PRESENT CONDITIONS</b>	<input type="checkbox"/> Heavy rain	<input type="checkbox"/> Steady rain	<input type="checkbox"/> Intermittent
<input checked="" type="checkbox"/> Clear	<input type="checkbox"/> Trace	<input type="checkbox"/> Overcast	<input type="checkbox"/> Partly cloudy
<b>SURROUNDING LAND USE:</b>	<input type="checkbox"/> Industrial	<input type="checkbox"/> Commercial	<input type="checkbox"/> Urban/Residential
	<input type="checkbox"/> Golf course	<input type="checkbox"/> Park	<input type="checkbox"/> Suburban/Res
			<input checked="" type="checkbox"/> Forested
			<input type="checkbox"/> Institutional
			<input type="checkbox"/> Crop
			<input type="checkbox"/> Pasture
			<input type="checkbox"/> Other:

**AVERAGE CONDITIONS (check applicable)** | **REACH SKETCH AND SITE IMPACT TRACKING**

<b>BASE FLOW AS %</b>	<input type="checkbox"/> 0-25%	<input type="checkbox"/> 50%-75%
<b>CHANNEL WIDTH</b>	<input type="checkbox"/> 25-50 %	<input type="checkbox"/> 75-100%
<b>DOMINANT SUBSTRATE</b>	<input type="checkbox"/> Silt/clay (fine or slick)	<input type="checkbox"/> Cobble (2.5 -10")
	<input type="checkbox"/> Sand (gritty)	<input checked="" type="checkbox"/> Boulder (>10")
	<input type="checkbox"/> Gravel (0.1-2.5")	<input type="checkbox"/> Bed rock
<b>WATER CLARITY</b>	<input checked="" type="checkbox"/> Clear	<input type="checkbox"/> Turbid (suspended matter)
	<input type="checkbox"/> Stained (clear, naturally colored)	<input type="checkbox"/> Opaque (milky)
	<input type="checkbox"/> Other (chemicals, dyes)	
<b>AQUATIC PLANTS IN STREAM</b>	Attached: <input type="checkbox"/> none <input type="checkbox"/> some <input type="checkbox"/> lots	Floating: <input type="checkbox"/> none <input type="checkbox"/> some <input type="checkbox"/> lots
<b>WILDLIFE IN OR AROUND STREAM</b>	(Evidence of)	
	<input type="checkbox"/> Fish <input type="checkbox"/> Beaver <input checked="" type="checkbox"/> Deer	
	<input type="checkbox"/> Snails <input checked="" type="checkbox"/> Other: 24(600A)	
<b>STREAM SHADING (water surface)</b>	<input checked="" type="checkbox"/> Mostly shaded (>75% coverage)	
	<input type="checkbox"/> Halfway (>50%)	
	<input type="checkbox"/> Partially shaded (>25%)	
	<input type="checkbox"/> Unshaded (< 25%)	
<b>CHANNEL DYNAMICS</b>	<input type="checkbox"/> Downcutting	<input type="checkbox"/> Bed scour
	<input type="checkbox"/> Widening	<input type="checkbox"/> Bank failure
	<input type="checkbox"/> Headcutting	<input type="checkbox"/> Bank scour
	<input type="checkbox"/> Aggrading	<input type="checkbox"/> Slope failure
<input type="checkbox"/> Unknown	<input type="checkbox"/> Sed. deposition	<input checked="" type="checkbox"/> Channelized
<b>CHANNEL DIMENSIONS (FACING DOWNSTREAM)</b>	Height: LT bank	12 (ft)
	RT bank	12 (ft)
	Width: Bottom	12 (ft)
	Top	25 (ft)



**REACH ACCESSIBILITY**

<b>Good:</b> Open area in public ownership, sufficient room to stockpile materials, easy stream channel access for heavy equipment using existing roads or trails.	<b>Fair:</b> Forested or developed area adjacent to stream. Access requires tree removal or impact to landscaped areas. Stockpile areas small or distant from stream.	<b>Difficult:</b> Must cross wetland, steep slope, or sensitive areas to get to stream. Few areas to stockpile available and/or located a great distance from stream. Specialized heavy equipment required.
5	4	3
		2
		1

**NOTES:** (biggest problem you see in survey reach)

- Beaver activity  
- Brush pile

- Dashed back downstream from MI-02 turned to beaver swamp.

**REPORTED TO AUTHORITIES**  YES  NO

Planned Reach Wood Creek Rd to Double Hill Rd

OVERALL STREAM CONDITION				
	Optimal	Suboptimal	Marginal	Poor
<b>IN-STREAM HABITAT</b>  <i>(May modify criteria based on appropriate habitat regime)</i>	Greater than 70% of substrate favorable for epifaunal colonization and fish cover; mix of snags, submerged logs, undercut banks, cobble or other stable habitat and at stage to allow full colonization potential (i.e., logs/snags that are <u>not</u> new fall and <u>not</u> transient).	40-70% mix of stable habitat; well-suited for full colonization potential; adequate habitat for maintenance of populations; presence of additional substrate in the form of newfall, but not yet prepared for colonization (may rate at high end of scale).	20-40% mix of stable habitat; habitat availability less than desirable; substrate frequently disturbed or removed.	Less than 20% stable habitat; lack of habitat is obvious; substrate unstable or lacking.
	20 <b>19</b> 18 17 16	15 14 13 12 11	10 9 8 7 6	5 4 3 2 1 0
<b>VEGETATIVE PROTECTION</b>  <i>(score each bank, determine sides by facing downstream)</i>	More than 90% of the streambank surfaces and immediate riparian zone covered by native vegetation, including trees, understory shrubs, or nonwoody macrophytes; vegetative disruption through grazing or mowing minimal or not evident; almost all plants allowed to grow naturally.	70-90% of the streambank surfaces covered by native vegetation, but one class of plants is not well-represented; disruption evident but not affecting full plant growth potential to any great extent; more than one-half of the potential plant stubble height remaining.	50-70% of the streambank surfaces covered by vegetation; disruption obvious; patches of bare soil or closely cropped vegetation common; less than one-half of the potential plant stubble height remaining.	Less than 50% of the streambank surfaces covered by vegetation; disruption of streambank vegetation is very high; vegetation has been removed to 5 centimeters or less in average stubble height.
	Left Bank 10 <b>8</b>	8 7 6	5 4 3	2 1 0
	Right Bank 10 <b>9</b>	8 7 6	5 4 3	2 1 0
<b>BANK EROSION</b> <i>(facing downstream)</i>	Banks stable; evidence of erosion or bank failure absent or minimal; little potential for future problems. <5% of bank affected.	Grade and width stable; isolated areas of bank failure/erosion; likely caused by a pipe outfall, local scour, impaired riparian vegetation or adjacent use.	Past downcutting evident, active stream widening, banks actively eroding at a moderate rate; no threat to property or infrastructure	Active downcutting; tail banks on both sides of the stream eroding at a fast rate; erosion contributing significant amount of sediment to stream; obvious threat to property or infrastructure.
	Left Bank 10 <b>3</b>	8 7 6	5 4 3	2 1 0
	Right Bank 10 <b>3</b>	8 7 6	5 4 3	2 1 0
<b>FLOODPLAIN CONNECTION</b>	High flows (greater than bankfull) able to enter floodplain. Stream not deeply entrenched.	High flows (greater than bankfull) able to enter floodplain. Stream not deeply entrenched.	High flows (greater than bankfull) not able to enter floodplain. Stream deeply entrenched.	High flows (greater than bankfull) not able to enter floodplain. Stream deeply entrenched.
	20 <b>19</b> 18 17 16	15 14 13 12 11	10 9 8 7 6	5 4 3 2 1 0

OVERALL BUFFER AND FLOODPLAIN CONDITION				
	Optimal	Suboptimal	Marginal	Poor
<b>VEGETATED BUFFER WIDTH</b>	Width of buffer zone >50 feet; human activities (i.e., parking lots, roadbeds, clear-cuts, lawns, crops) have not impacted zone.	Width of buffer zone 25-50 feet; human activities have impacted zone only minimally.	Width of buffer zone 10-25 feet; human activities have impacted zone a great deal.	Width of buffer zone <10 feet; little or no riparian vegetation due to human activities.
	Left Bank 10 <b>9</b>	8 7 6	5 4 3	2 1 0
	Right Bank 10 <b>9</b>	8 7 6	5 4 3	2 1 0
<b>FLOODPLAIN VEGETATION</b>	Predominant floodplain vegetation type is mature forest	Predominant floodplain vegetation type is young forest	Predominant floodplain vegetation type is shrub or old field	Predominant floodplain vegetation type is turf or crop land
	20 19 18 17 16	15 <b>14</b> 13 12 11	10 9 8 7 6	5 4 3 2 1 0
<b>FLOODPLAIN HABITAT</b>	Even mix of wetland and non-wetland habitats, evidence of standing/ponded water	Even mix of wetland and non-wetland habitats, no evidence of standing/ponded water	Either all wetland or all non-wetland habitat, evidence of standing/ponded water	Either all wetland or all non-wetland habitat, no evidence of standing/ponded water
	20 19 18 17 <b>6</b>	15 14 13 12 11	10 9 8 7 6	5 4 3 2 1 0
<b>FLOODPLAIN ENCROACHMENT</b>	No evidence of floodplain encroachment in the form of fill material, land development, or manmade structures	Minor floodplain encroachment in the form of fill material, land development, or manmade structures, but not affecting floodplain function	Moderate floodplain encroachment in the form of filling, land development, or manmade structures, some effect on floodplain function	Significant floodplain encroachment (i.e. fill material, land development, or man-made structures). Significant effect on floodplain function
	20 <b>9</b> 18 17 16	15 14 13 12 11	10 9 8 7 6	5 4 3 2 1 0

Sub Total In-stream: **74** /80 + Buffer/Floodplain: **67** /80 = Total Survey Reach **141** /160

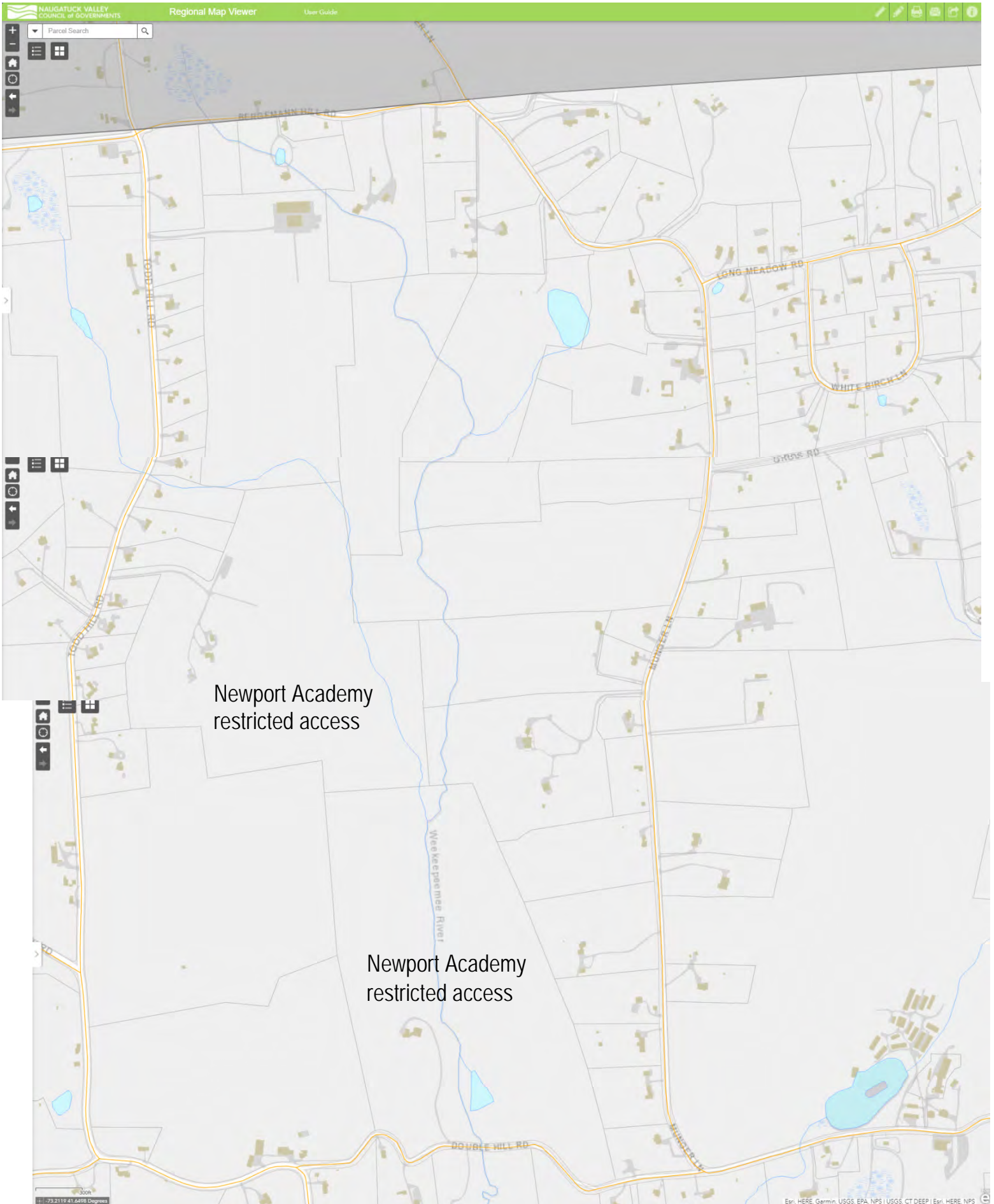
WATERSHED/SUBSHED: <u>Week</u>	DATE: <u>8/11/2021</u>	ASSESSED BY: <u>CH, PP, SK, SO</u>
SURVEY REACH ID: <u>08</u>	TIME: <u>10:40</u> AM/PM	PHOTO ID: (Camera-Pic #) <u>1</u> #
SITE ID: (Condition-#) <u>MI-01</u>	LAT <u>41° 64' 18"</u> LONG <u>73° 22' 43"</u> LMK: <u>79</u>	GPS: (Unit ID)
POTENTIAL RESTORATION CANDIDATE <input type="checkbox"/> Storm water retrofit <input type="checkbox"/> Stream restoration <input checked="" type="checkbox"/> Riparian Management: <u>Removing log pile/moving it up slope</u> <input type="checkbox"/> no <input type="checkbox"/> Discharge Prevention <input type="checkbox"/> Other:		
DESCRIBE: <u>- Brush pile (log dump)</u> <u>- timber raft</u> <u>- 25 x 25 feet, 8-10 feet high</u> <u>- fill on right bank</u> <u>- 6-12 inch diameter log</u>		
REPORTED TO LOCAL AUTHORITIES <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		

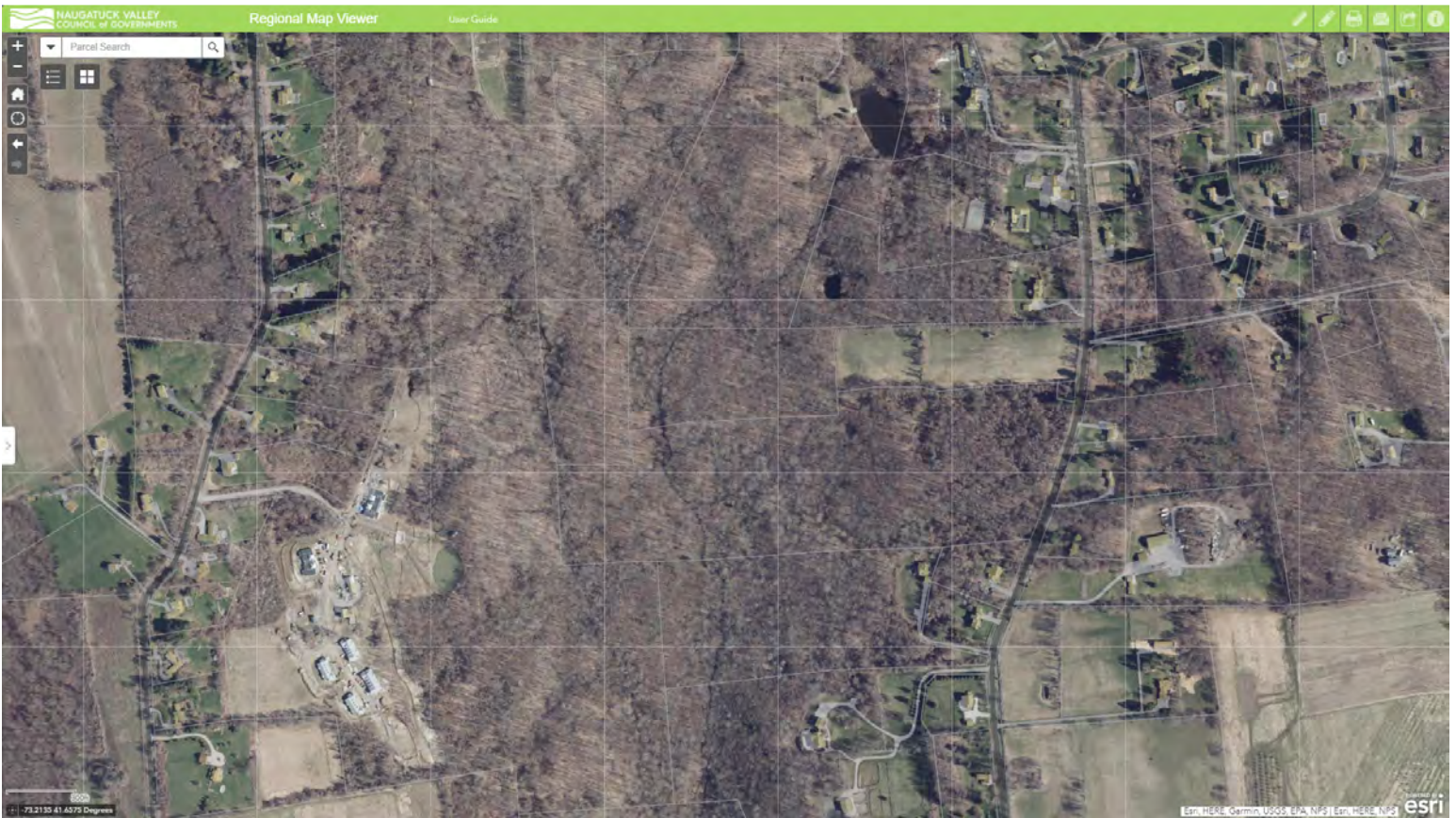
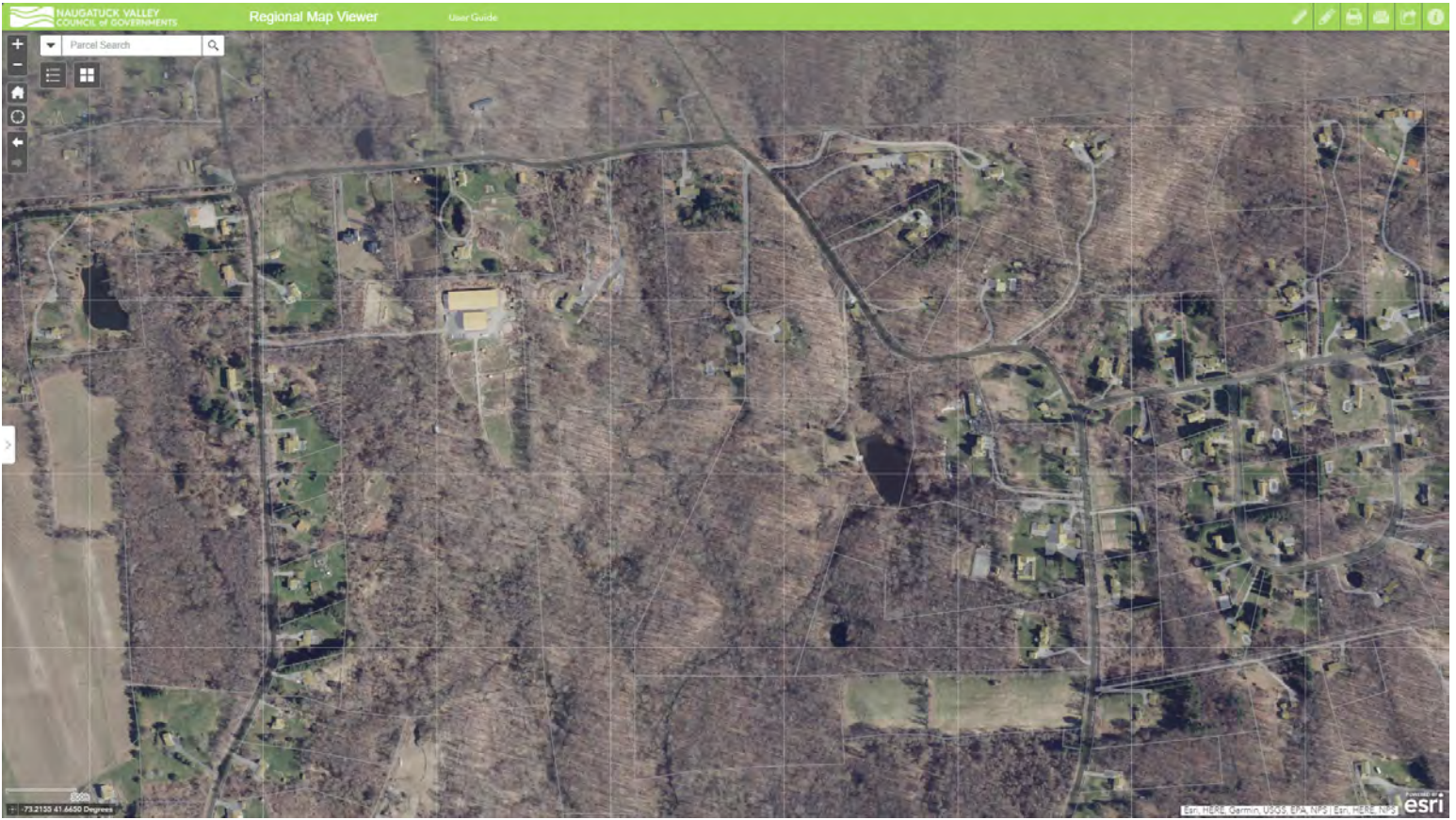
WATERSHED/SUBSHED: <u>Week</u>	DATE: <u>8/11/2021</u>	ASSESSED BY: <u>CH, PP, SK, SO</u>
SURVEY REACH ID: <u>08</u>	TIME: <u>11:29</u> AM/PM	PHOTO ID: (Camera-Pic #) <u>2</u> #
SITE ID: (Condition-#) <u>MI-02</u>	LAT <u>41° 64' 606"</u> LONG <u>73° 22' 446"</u> LMK: <u>80</u>	GPS: (Unit ID)
POTENTIAL RESTORATION CANDIDATE <input type="checkbox"/> Storm water retrofit <input type="checkbox"/> Stream restoration <input type="checkbox"/> Riparian Management <input checked="" type="checkbox"/> no <input type="checkbox"/> Discharge Prevention <input type="checkbox"/> Other:		
DESCRIBE: <u>- Beaver dam adjacent to hayfield meadow</u> <u>- 4-5 feet high</u> <u>- 8-12 feet wide</u>		
REPORTED TO LOCAL AUTHORITIES <input type="checkbox"/> Yes <input type="checkbox"/> No		

WATERSHED/SUBSHED:	DATE: ___/___/___	ASSESSED BY:
SURVEY REACH ID:	TIME: ___:___ AM/PM	PHOTO ID: (Camera-Pic #) #
SITE ID: (Condition-#) MI-___	LAT ___° ___' ___" LONG ___° ___' ___" LMK: ___	GPS: (Unit ID)
POTENTIAL RESTORATION CANDIDATE <input type="checkbox"/> Storm water retrofit <input type="checkbox"/> Stream restoration <input type="checkbox"/> Riparian Management <input type="checkbox"/> no <input type="checkbox"/> Discharge Prevention <input type="checkbox"/> Other:		
DESCRIBE:		
REPORTED TO LOCAL AUTHORITIES <input type="checkbox"/> Yes <input type="checkbox"/> No		

# Reach 9 – Bergemann Hill Road to Double Hill Road

NOTE – No Access / high security at Newport Academy (large parcel North of Double Hill Road)





Parcel Search

Map navigation controls: Home, Back, Forward, Refresh, Print, Full Screen, Help

Scale bar: 500 feet

Coordinates: 73.2244 41.6504 Degrees



<b>WATERSHED:</b>		<b>SUBWATERSHED:</b>		<b>UNIQUE SITE ID:</b>	
DATE: <u>7/30/2021</u>		ASSESSED BY:		CAMERA ID:	
				PIC#:	
<b>A. NEIGHBORHOOD CHARACTERIZATION</b>					
Neighborhood/Subdivision Name: _____				Neighborhood Area (acres) _____	
If unknown, address (or streets) surveyed: <u>Munger Lane/Bergemann Hill Road</u>					
Homeowners Association? <input type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> Unknown If yes, name and contact information: _____					
Residential (circle average single family lot size): _____					
<input type="checkbox"/> Single Family Attached (Duplexes, Row Homes) <1/8 1/8 1/4 1/3 1/2 acre		<input type="checkbox"/> Multifamily (Apts, Townhomes, Condos)			
<input checked="" type="checkbox"/> Single Family Detached <1/4 1/4 1/2 1 >1 acre		<input type="checkbox"/> Mobile Home Park			
Estimated Age of Neighborhood: <u>30-60</u> years		Percent of Homes with Garages: <u>90</u> %		With Basements <u>100</u> %	
Sewer Service? <input type="checkbox"/> Y <input checked="" type="checkbox"/> N					○
Index of Infill, Redevelopment, and Remodeling <input checked="" type="checkbox"/> No Evidence <input type="checkbox"/> <5% of units <input type="checkbox"/> 5-10% <input type="checkbox"/> >10%					○
<i>Record percent observed for each of the following indicators, depending on applicability and/or site complexity</i>			<b>Percentage</b>	<b>Comments/Notes</b>	
<b>B. YARD AND LAWN CONDITIONS</b>					
B1. % of lot with impervious cover			<u>&lt; 5%</u>		
B2. % of lot with grass cover			<u>&lt; 30%</u>	○	
B3. % of lot with landscaping (e.g., mulched bed areas)			<u>&lt; 5%</u>	◇	
B4. % of lot with bare soil			<u>&lt; 1%</u>	○	
<i>*Note: B1 through B4 must total 100%</i>					
B5. % of lot with forest canopy			<u>&gt; 50%</u>	◇	
B6. Evidence of permanent irrigation or "non-target" irrigation			<u>no</u>	○	
B7. Proportion of total neighborhood turf lawns with following management status:			High: _____	○	
			Med: _____		
			Low: _____		
B8. Outdoor swimming pools? <input type="checkbox"/> Y <input checked="" type="checkbox"/> N <input type="checkbox"/> Can't Tell Estimated # _____					○
B9. Junk or trash in yards? <input type="checkbox"/> Y <input checked="" type="checkbox"/> N <input type="checkbox"/> Can't Tell					○
<b>C. DRIVEWAYS, SIDEWALKS, AND CURBS</b>					
C1. % of driveways that are impervious <input type="checkbox"/> N/A			<u>90%</u>		
C2. Driveway Condition <input checked="" type="checkbox"/> Clean <input type="checkbox"/> Stained <input type="checkbox"/> Dirty <input type="checkbox"/> Breaking up					○
C3. Are sidewalks present? <input type="checkbox"/> Y <input checked="" type="checkbox"/> N If yes, are they on one side of street <input type="checkbox"/> or along both sides <input type="checkbox"/>					○
<input type="checkbox"/> Spotless <input type="checkbox"/> Covered with lawn clippings/leaves <input type="checkbox"/> Receiving 'non-target' irrigation					○
What is the distance between the sidewalk and street? _____ ft.					◇
Is pet waste present in this area? <input type="checkbox"/> Y <input checked="" type="checkbox"/> N <input type="checkbox"/> N/A <u>- large children, dog</u>					○
C4. Is curb and gutter present? <input type="checkbox"/> Y <input checked="" type="checkbox"/> N If yes, check all that apply:					○
<input type="checkbox"/> Clean and Dry <input type="checkbox"/> Flowing or standing water <input type="checkbox"/> Long-term car parking <input type="checkbox"/> Sediment					○
<input type="checkbox"/> Organic matter, leaves, lawn clippings <input type="checkbox"/> Trash, litter, or debris <input type="checkbox"/> Overhead tree canopy					◇

\* INDEX: ○ denotes potential pollution source; ◇ denotes a neighborhood restoration opportunity





<b>WATERSHED:</b>		<b>SUBWATERSHED:</b>		<b>UNIQUE SITE ID:</b>	
<b>DATE:</b> 7/30/2021		<b>ASSESSED BY:</b>		<b>CAMERA ID:</b>	
<b>DATE:</b> 7/30/2021		<b>ASSESSED BY:</b>		<b>PIC#:</b>	
<b>A. NEIGHBORHOOD CHARACTERIZATION</b>					
Neighborhood/Subdivision Name: _____				Neighborhood Area (acres) _____	
If unknown, address (or streets) surveyed: <u>Arrowhead Lane</u>					
Homeowners Association? <input type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> Unknown If yes, name and contact information: _____					
Residential (circle average single family lot size):					
<input type="checkbox"/> Single Family Attached (Duplexes, Row Homes) <1/8 1/8 1/4 1/3 1/3 acre <input type="checkbox"/> Multifamily (Apts, Townhomes, Condos) <input checked="" type="checkbox"/> Single Family Detached <1/4 1/4 1/2 1 >1 acre <input type="checkbox"/> Mobile Home Park					
Estimated Age of Neighborhood: <u>40<sup>ish</sup></u> years		Percent of Homes with Garages: <u>90</u> %		With Basements <u>100</u> %	
Sewer Service? <input type="checkbox"/> Y <input checked="" type="checkbox"/> N					○
Index of Infill, Redevelopment, and Remodeling <input checked="" type="checkbox"/> No Evidence <input type="checkbox"/> <5% of units <input type="checkbox"/> 5-10% <input type="checkbox"/> >10%					○
<i>Record percent observed for each of the following indicators, depending on applicability and/or site complexity</i>			<b>Percentage</b>	<b>Comments/Notes</b>	
<b>B. YARD AND LAWN CONDITIONS</b>					
B1. % of lot with impervious cover			<u>&lt; 10%</u>		
B2. % of lot with grass cover			<u>&lt; 50%</u>	○	
B3. % of lot with landscaping (e.g., mulched bed areas)			<u>&lt; 5%</u>	◇	
B4. % of lot with bare soil			<u>&lt; 1%</u>	○	
<i>*Note: B1 through B4 must total 100%</i>					
B5. % of lot with forest canopy			<u>&gt; 50%</u>	◇	
B6. Evidence of permanent irrigation or "non-target" irrigation			<u>0</u>	○	
B7. Proportion of total neighborhood turf lawns with following management status:			High: _____	○	
			Med: _____		
			Low: _____		
B8. Outdoor swimming pools? <input type="checkbox"/> Y <input checked="" type="checkbox"/> N <input type="checkbox"/> Can't Tell Estimated # _____					○
B9. Junk or trash in yards? <input type="checkbox"/> Y <input checked="" type="checkbox"/> N <input type="checkbox"/> Can't Tell					○
<b>C. DRIVEWAYS, SIDEWALKS, AND CURBS</b>					
C1. % of driveways that are impervious <input type="checkbox"/> N/A			<u>25%</u>		
C2. Driveway Condition <input checked="" type="checkbox"/> Clean <input type="checkbox"/> Stained <input type="checkbox"/> Dirty <input type="checkbox"/> Breaking up			<u>gravel</u>	○	
C3. Are sidewalks present? <input type="checkbox"/> Y <input checked="" type="checkbox"/> N If yes, are they on one side of street <input type="checkbox"/> or along both sides <input type="checkbox"/>					○
<input type="checkbox"/> Spotless <input type="checkbox"/> Covered with lawn clippings/leaves <input type="checkbox"/> Receiving 'non-target' irrigation					○
What is the distance between the sidewalk and street? _____ ft.					◇
Is pet waste present in this area? <input type="checkbox"/> Y <input checked="" type="checkbox"/> N <input type="checkbox"/> N/A			<u>1 chicken coop, "no poop zone"</u>		○
C4. Is curb and gutter present? <input type="checkbox"/> Y <input checked="" type="checkbox"/> N If yes, check all that apply:					○
<input type="checkbox"/> Clean and Dry <input type="checkbox"/> Flowing or standing water <input type="checkbox"/> Long-term car parking <input type="checkbox"/> Sediment					○
<input type="checkbox"/> Organic matter, leaves, lawn clippings <input type="checkbox"/> Trash, litter, or debris <input type="checkbox"/> Overhead tree canopy					◇

\* INDEX: ○ denotes potential pollution source; ◇ denotes a neighborhood restoration opportunity



<b>D. ROOFTOPS</b>																																																																																																																																																																																																																																																															
<b>D1.</b> Downspouts are directly connected to storm drains or sanitary sewer	NO		◇ ○																																																																																																																																																																																																																																																												
<b>D2.</b> Downspouts are directed to impervious surface	NO																																																																																																																																																																																																																																																														
<b>D3.</b> Downspouts discharge to pervious area	YES																																																																																																																																																																																																																																																														
<b>D4.</b> Downspouts discharge to a cistern, rain barrel, etc.	NO																																																																																																																																																																																																																																																														
<i>*Note: C1 through C4 should total 100%</i>																																																																																																																																																																																																																																																															
<b>D5.</b> Lawn area present downgradient of leader for rain garden? <input type="checkbox"/> Y <input type="checkbox"/> N			◇																																																																																																																																																																																																																																																												
<b>E. COMMON AREAS</b>																																																																																																																																																																																																																																																															
<b>E1.</b> Storm drain inlets? <input type="checkbox"/> Y <input checked="" type="checkbox"/> N If yes, are they stenciled? <input type="checkbox"/> Y <input type="checkbox"/> N Condition: <input type="checkbox"/> Clean <input type="checkbox"/> Dirty			◇																																																																																																																																																																																																																																																												
Catch basins inspected? <input type="checkbox"/> Y <input type="checkbox"/> N If yes, include Unique Site ID from SSD sheet: _____			○																																																																																																																																																																																																																																																												
<b>E2.</b> Storm water pond? <input type="checkbox"/> Y <input checked="" type="checkbox"/> N Is it a <input type="checkbox"/> wet pond or <input type="checkbox"/> dry pond? Is it overgrown? <input type="checkbox"/> Y <input type="checkbox"/> N What is the estimated pond area? <input type="checkbox"/> <1 acre <input type="checkbox"/> about 1 acre <input type="checkbox"/> > 1 acre			◇																																																																																																																																																																																																																																																												
<b>E3.</b> Open Space? <input type="checkbox"/> Y <input checked="" type="checkbox"/> N If yes, is pet waste present? <input type="checkbox"/> Y <input type="checkbox"/> N dumping? <input type="checkbox"/> Y <input type="checkbox"/> N			○																																																																																																																																																																																																																																																												
Buffers/floodplain present: <input type="checkbox"/> Y <input type="checkbox"/> N If yes, is encroachment evident? <input type="checkbox"/> Y <input type="checkbox"/> N																																																																																																																																																																																																																																																															
<b>F. INITIAL NEIGHBORHOOD ASSESSMENT AND RECOMMENDATIONS</b>																																																																																																																																																																																																																																																															
Based on field observations, this neighborhood has significant indicators for the following: <i>(check all that apply)</i> <input type="checkbox"/> Nutrients <input type="checkbox"/> Oil and Grease <input type="checkbox"/> Trash/Litter <input type="checkbox"/> Bacteria <input type="checkbox"/> Sediment <input type="checkbox"/> Other _____			○																																																																																																																																																																																																																																																												
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NOTES: septic failure risk

35g 19p

WATERSHED: Pomperaug	SUBWATERSHED: Weekeepee	UNIQUE SITE ID:
DATE: 7/30/2021	ASSESSED BY: CH, PP, SK, SA, HR	CAMERA ID: PIC#:
<b>A. NEIGHBORHOOD CHARACTERIZATION</b>		
Neighborhood/Subdivision Name: Casson Grove		Neighborhood Area (acres) 2.5
If unknown, address (or streets) surveyed:		
Homeowners Association? <input checked="" type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> Unknown If yes, name and contact information: UNKNOWN		
Residential (circle average single family lot size):		
<input type="checkbox"/> Single Family Attached (Duplexes, Row Homes) <1/8 1/8 1/4 1/3 1/3 acre <input type="checkbox"/> Multifamily (Apts, Townhomes, Condos) <input checked="" type="checkbox"/> Single Family Detached <1/4 1/4 1/2 1 >1 acre <input type="checkbox"/> Mobile Home Park		
Estimated Age of Neighborhood: 100 years	Percent of Homes with Garages: 0 % With Basements 50 %	<b>INDEX*</b>
Sewer Service? <input type="checkbox"/> Y <input checked="" type="checkbox"/> N		○
Index of Infill, Redevelopment, and Remodeling <input type="checkbox"/> No Evidence <input type="checkbox"/> <5% of units <input type="checkbox"/> 5-10% <input checked="" type="checkbox"/> >10%		○
<i>Record percent observed for each of the following indicators, depending on applicability and/or site complexity</i>		
	Percentage	Comments/Notes
<b>B. YARD AND LAWN CONDITIONS</b>		
B1. % of lot with impervious cover	50%	
B2. % of lot with grass cover	40%	○
B3. % of lot with landscaping (e.g., mulched bed areas)	5%	◇
B4. % of lot with bare soil	<1%	○
*Note: B1 through B4 must total 100%		
B5. % of lot with forest canopy	<5%	◇
B6. Evidence of permanent irrigation or "non-target" irrigation	no	○
B7. Proportion of total neighborhood turf lawns with following management status:	High: _____	○
	Med: _____	
	Low: _____	
B8. Outdoor swimming pools? <input type="checkbox"/> Y <input checked="" type="checkbox"/> N <input type="checkbox"/> Can't Tell Estimated # _____		○
B9. Junk or trash in yards? <input type="checkbox"/> Y <input checked="" type="checkbox"/> N <input type="checkbox"/> Can't Tell small amounts		○
<b>C. DRIVEWAYS, SIDEWALKS, AND CURBS</b>		
C1. % of driveways that are impervious <input type="checkbox"/> N/A 40%		
C2. Driveway Condition <input checked="" type="checkbox"/> Clean <input type="checkbox"/> Stained <input type="checkbox"/> Dirty <input type="checkbox"/> Breaking up		○
C3. Are sidewalks present? <input type="checkbox"/> Y <input checked="" type="checkbox"/> N If yes, are they on one side of street <input type="checkbox"/> or along both sides <input type="checkbox"/>		
<input type="checkbox"/> Spotless <input type="checkbox"/> Covered with lawn clippings/leaves <input type="checkbox"/> Receiving 'non-target' irrigation		○
What is the distance between the sidewalk and street? _____ ft.		◇
Is pet waste present in this area? <input type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> N/A		○
C4. Is curb and gutter present? <input type="checkbox"/> Y <input checked="" type="checkbox"/> N If yes, check all that apply:		
<input type="checkbox"/> Clean and Dry <input type="checkbox"/> Flowing or standing water <input type="checkbox"/> Long-term car parking <input type="checkbox"/> Sediment		○
<input type="checkbox"/> Organic matter, leaves, lawn clippings <input type="checkbox"/> Trash, litter, or debris <input type="checkbox"/> Overhead tree canopy		◇

\* INDEX: ○ denotes potential pollution source; ◇ denotes a neighborhood restoration opportunity

D. ROOFTOPS			
D1. Downspouts are directly connected to storm drains or sanitary sewer	no		◇ ○
D2. Downspouts are directed to impervious surface	yes		
D3. Downspouts discharge to pervious area	no		
D4. Downspouts discharge to a cistern, rain barrel, etc.	no		
<i>*Note: C1 through C4 should total 100%</i>			
D5. Lawn area present downgradient of leader for rain garden? <input type="checkbox"/> Y <input checked="" type="checkbox"/> N	not much room		◇
E. COMMON AREAS			
E1. Storm drain inlets? <input type="checkbox"/> Y <input checked="" type="checkbox"/> N If yes, are they stenciled? <input type="checkbox"/> Y <input type="checkbox"/> N Condition: <input type="checkbox"/> Clean <input type="checkbox"/> Dirty			◇
Catch basins inspected? <input type="checkbox"/> Y <input checked="" type="checkbox"/> N If yes, include Unique Site ID from SSD sheet: _____			○
E2. Storm water pond? <input type="checkbox"/> Y <input checked="" type="checkbox"/> N Is it a <input type="checkbox"/> wet pond or <input type="checkbox"/> dry pond? Is it overgrown? <input type="checkbox"/> Y <input type="checkbox"/> N			◇
What is the estimated pond area? <input type="checkbox"/> <1 acre <input type="checkbox"/> about 1 acre <input type="checkbox"/> > 1 acre			
E3. Open Space? <input checked="" type="checkbox"/> Y <input type="checkbox"/> N If yes, is pet waste present? <input type="checkbox"/> Y <input checked="" type="checkbox"/> N dumping? <input type="checkbox"/> Y <input checked="" type="checkbox"/> N			○
Buffers/floodplain present: <input type="checkbox"/> Y <input checked="" type="checkbox"/> N If yes, is encroachment evident? <input type="checkbox"/> Y <input type="checkbox"/> N			
<b>F. INITIAL NEIGHBORHOOD ASSESSMENT AND RECOMMENDATIONS</b>			
Based on field observations, this neighborhood has significant indicators for the following: (check all that apply)			
<input type="checkbox"/> Nutrients <input type="checkbox"/> Oil and Grease <input type="checkbox"/> Trash/Litter <input type="checkbox"/> Bacteria <input type="checkbox"/> Sediment <input checked="" type="checkbox"/> Other Sewage			○
<b>Recommended Actions</b> <i>Specific Action</i>	<b>Describe Recommended Actions:</b>		
<input type="checkbox"/> Onsite retrofit potential? <input type="checkbox"/> Better lawn/landscaping practice? <input type="checkbox"/> Better management of common space? <input type="checkbox"/> Pond retrofit? <input type="checkbox"/> Multi-family Parking Lot Retrofit? <input checked="" type="checkbox"/> Other action(s) <u>increase buffers</u>	- potentially a neighborhood shared sewage treatment plant - convert paved driveways to gravel		
<b>Initial Assessment</b>  <b>NSA Pollution Severity Index</b> <input type="checkbox"/> Severe (More than 10 circles checked) <input type="checkbox"/> High (5 to 10 circles checked) <input type="checkbox"/> Moderate (Fewer than 5 circles checked) <input type="checkbox"/> None (No circles checked)  <b>Neighborhood Restoration Opportunity Index</b> <input type="checkbox"/> High (More than 5 diamonds checked) <input type="checkbox"/> Moderate (3-5 diamonds checked) <input type="checkbox"/> Low (Fewer than 3 diamonds checked)	[Grid for Initial Assessment]		

NOTES: estimated 50/50 seasonal and year-round residence  
Some pesticide application signs

WATERSHED: <u>Waplesville</u>		SUBWATERSHED:		UNIQUE SITE ID:	
DATE: <u>7/30/2021</u>		ASSESSED BY: <u>CL, P, S, K, H, C, S, D</u>		CAMERA ID:	
MAP GRID:		LAT: <u>1</u> ° <u>65</u> ' <u>236</u> " LONG: <u>73</u> ° <u>20</u> ' <u>450</u> "		PIC#:	
				LMK # <u>037</u>	
<b>A. SITE DATA AND BASIC CLASSIFICATION</b>					
Name and Address: <u>Long Meadow Pond Beach, Lake Road</u>		Category: <input type="checkbox"/> Commercial <input type="checkbox"/> Industrial <input type="checkbox"/> Miscellaneous <input type="checkbox"/> Institutional <input checked="" type="checkbox"/> Municipal <input type="checkbox"/> Golf Course <input type="checkbox"/> Transport-Related <input type="checkbox"/> Marina <input type="checkbox"/> Animal Facility			
SIC code (if available): _____		Basic Description of Operation: <u>Town beach, boating, summer camp</u>			
NPDES Status: <input type="checkbox"/> Regulated <input type="checkbox"/> Unregulated <input type="checkbox"/> Unknown		<b>INDEX*</b>			
<b>B. VEHICLE OPERATIONS</b> <input type="checkbox"/> N/A (Skip to part C)				<b>Observed Pollution Source?</b>	
B1. Types of vehicles: <input type="checkbox"/> Fleet vehicles <input type="checkbox"/> School buses <input checked="" type="checkbox"/> Other: <u>personal</u>					
B2. Approximate number of vehicles: <u>20</u>					
B3. Vehicle activities (circle all that apply): Maintained <input type="checkbox"/> Repaired <input type="checkbox"/> Recycled <input type="checkbox"/> Fueled <input type="checkbox"/> Washed <input type="checkbox"/> Stored <input type="checkbox"/>				○	
B4. Are vehicles stored and/or repaired outside? <input type="checkbox"/> Y <input checked="" type="checkbox"/> N <input type="checkbox"/> Can't Tell Are these vehicles lacking runoff diversion methods? <input type="checkbox"/> Y <input checked="" type="checkbox"/> N <input type="checkbox"/> Can't Tell				○	
B5. Is there evidence of spills/leakage from vehicles? <input type="checkbox"/> Y <input checked="" type="checkbox"/> N <input type="checkbox"/> Can't Tell				○	
B6. Are uncovered outdoor fueling areas present? <input type="checkbox"/> Y <input checked="" type="checkbox"/> N <input type="checkbox"/> Can't Tell				○	
B7. Are fueling areas directly connected to storm drains? <input type="checkbox"/> Y <input checked="" type="checkbox"/> N <input type="checkbox"/> Can't Tell				○	
B8. Are vehicles washed outdoors? <input type="checkbox"/> Y <input checked="" type="checkbox"/> N <input type="checkbox"/> Can't Tell Does the area where vehicles are washed discharge to the storm drain? <input type="checkbox"/> Y <input checked="" type="checkbox"/> N <input type="checkbox"/> Can't Tell				○	
<b>C. OUTDOOR MATERIALS</b> <input type="checkbox"/> N/A (Skip to part D)				<b>Observed Pollution Source?</b>	
C1. Are loading/unloading operations present? <input type="checkbox"/> Y <input checked="" type="checkbox"/> N <input type="checkbox"/> Can't Tell If yes, are they uncovered and draining towards a storm drain inlet? <input type="checkbox"/> Y <input checked="" type="checkbox"/> N <input type="checkbox"/> Can't Tell				○	
C2. Are materials stored outside? <input type="checkbox"/> Y <input checked="" type="checkbox"/> N <input type="checkbox"/> Can't Tell If yes, are they <input type="checkbox"/> Liquid <input type="checkbox"/> Solid Description: _____ Where are they stored? <input type="checkbox"/> grass/dirt area <input type="checkbox"/> concrete/asphalt <input type="checkbox"/> bermed area				○	
C3. Is the storage area directly or indirectly connected to storm drain (circle one)? <input type="checkbox"/> Y <input checked="" type="checkbox"/> N <input type="checkbox"/> Can't Tell				○	
C4. Is staining or discoloration around the area visible? <input type="checkbox"/> Y <input checked="" type="checkbox"/> N <input type="checkbox"/> Can't Tell				○	
C5. Does outdoor storage area lack a cover? <input type="checkbox"/> Y <input checked="" type="checkbox"/> N <input type="checkbox"/> Can't Tell				○	
C6. Are liquid materials stored without secondary containment? <input type="checkbox"/> Y <input checked="" type="checkbox"/> N <input type="checkbox"/> Can't Tell				○	
C7. Are storage containers missing labels or in poor condition (rusting)? <input type="checkbox"/> Y <input checked="" type="checkbox"/> N <input type="checkbox"/> Can't Tell				○	
<b>D. WASTE MANAGEMENT</b> <input type="checkbox"/> N/A (Skip to part E)				<b>Observed Pollution Source?</b>	
D1. Type of waste (check all that apply): <input checked="" type="checkbox"/> Garbage <input type="checkbox"/> Construction materials <input checked="" type="checkbox"/> Hazardous materials				○	
D2. Dumpster condition (check all that apply): <input type="checkbox"/> No cover/Lid is open <input type="checkbox"/> Damaged/poor condition <input type="checkbox"/> Leaking or evidence of leakage (stains on ground) <input type="checkbox"/> Overflowing				○	
D3. Is the dumpster located near a storm drain inlet? <input type="checkbox"/> Y <input checked="" type="checkbox"/> N <input type="checkbox"/> Can't Tell If yes, are runoff diversion methods (berms, curbs) lacking? <input type="checkbox"/> Y <input checked="" type="checkbox"/> N <input type="checkbox"/> Can't Tell				○	
<b>E. PHYSICAL PLANT</b> <input checked="" type="checkbox"/> N/A (Skip to part F)				<b>Observed Pollution Source?</b>	
E1. Building: Approximate age: _____ yrs. Condition of surfaces: <input type="checkbox"/> Clean <input type="checkbox"/> Stained <input type="checkbox"/> Dirty <input type="checkbox"/> Damaged Evidence that maintenance results in discharge to storm drains (staining/dyscoloration)? <input type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> Don't know				○	

\*Index: ○ denotes potential pollution source; □ denotes confirmed polluter (evidence was seen)

E2. Parking Lot: Approximate age \_\_\_\_ yrs. Condition:  Clean  Stained  Dirty  Breaking up  
 Surface material  Paved/Concrete  Gravel  Permeable  Don't know ○

E3. Do downspouts discharge to impervious surface?  Y  N  Don't know  None visible ○  
 Are downspouts directly connected to storm drains?  Y  N  Don't know

E4. Evidence of poor cleaning practices for construction activities (stains leading to storm drain)?  Y  N  Can't Tell ○

**F. TURF/LANDSCAPING AREAS**  N/A (skip to part G) **Observed Pollution Source?**

F1. % of site with: Forest canopy 45% Turf grass 40% Landscaping 10% Bare Soil 5% ○

F2. Rate the turf management status:  High  Medium  Low ○

F3. Evidence of permanent irrigation or "non-target" irrigation  Y  N  Can't Tell ○

F4. Do landscaped areas drain to the storm drain system?  Y  N  Can't Tell ○

F5. Do landscape plants accumulate organic matter (leaves, grass clippings) on adjacent impervious surface?  Y  N  Can't Tell ○

**G. STORM WATER INFRASTRUCTURE**  N/A (skip to part H) **Observed Pollution Source?**

G1. Are storm water treatment practices present?  Y  N  Unknown If yes, please describe: \_\_\_\_\_ ○

G2. Are private storm drains located at the facility?  Y  N  Unknown ○  
 Is trash present in gutters leading to storm drains? If so, complete the index below.

**Index Rating for Accumulation in Gutters**

	Clean			Filthy		
Sediment	<input type="checkbox"/> 1	<input type="checkbox"/> 2	<input type="checkbox"/> 3	<input type="checkbox"/> 4	<input type="checkbox"/> 5	<input type="checkbox"/> 5
Organic material	<input type="checkbox"/> 1	<input type="checkbox"/> 2	<input type="checkbox"/> 3	<input type="checkbox"/> 4	<input type="checkbox"/> 5	<input type="checkbox"/> 5
Litter	<input type="checkbox"/> 1	<input type="checkbox"/> 2	<input type="checkbox"/> 3	<input type="checkbox"/> 4	<input type="checkbox"/> 5	<input type="checkbox"/> 5

G3. Catch basin inspection – Record SSD Unique Site ID here: \_\_\_\_\_ Condition:  Dirty  Clean

**H. INITIAL HOTSPOT STATUS - INDEX RESULTS**

Not a hotspot (fewer than 5 circles and no boxes checked)  Potential hotspot (5 to 10 circles but no boxes checked)  
 Confirmed hotspot (10 to 15 circles and/or 1 box checked)  Severe hotspot (>15 circles and/or 2 or more boxes checked)

**Follow-up Action:**

Refer for immediate enforcement  
 Suggest follow-up on-site inspection  
 Test for illicit discharge  
 Include in future education effort  
 Check to see if hotspot is an NPDES non-filer  
 Onsite non-residential retrofit  
 Pervious area restoration; complete PAA sheet and record Unique Site ID here: \_\_\_\_\_  
 Schedule a review of storm water pollution prevention plan

**Notes:**

- Good rain garden potential by pavilion  
 - Goose poop everywhere  
 - some trash  
 - Part of potty adjacent to water at boat launch

- minimal septic discharge potential



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<input type="checkbox"/> Nutrients <input type="checkbox"/> Oil and Grease <input type="checkbox"/> Trash/Litter <input type="checkbox"/> Bacteria <input type="checkbox"/> Sediment <input checked="" type="checkbox"/> Other <u>Septic</u>																																																																																																																																																																																																																															
<b>Recommended Actions</b> <i>Specific Action</i> <input type="checkbox"/> Onsite retrofit potential? <input type="checkbox"/> Better lawn/landscaping practice? <input type="checkbox"/> Better management of common space? <input type="checkbox"/> Pond retrofit? <input type="checkbox"/> Multi-family Parking Lot Retrofit? <input type="checkbox"/> Other action(s) _____	<b>Describe Recommended Actions:</b>  <div style="border: 1px solid black; height: 150px;"></div>																																																																																																																																																																																																																														
<b>Initial Assessment</b>  <b>NSA Pollution Severity Index</b> <input type="checkbox"/> Severe (More than 10 circles checked) <input type="checkbox"/> High (5 to 10 circles checked) <input type="checkbox"/> Moderate (Fewer than 5 circles checked) <input type="checkbox"/> None (No circles checked)  <b>Neighborhood Restoration Opportunity Index</b> <input type="checkbox"/> High (More than 5 diamonds checked) <input type="checkbox"/> Moderate (3-5 diamonds checked) <input type="checkbox"/> Low (Fewer than 3 diamonds checked)	<table border="1" style="width:100%; border-collapse: collapse; height: 200px;"> <tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> </table>																																																																																																																																																																																																																														

**NOTES:**  
 a lot of lawn/grass cover on lots, but remove from stream

<b>WATERSHED:</b>		<b>SUBWATERSHED:</b>		<b>UNIQUE SITE ID:</b>	
DATE: <u>7/30/2021</u>		ASSESSED BY:		CAMERA ID:	
MAP GRID:		LAT <u>  </u> ° <u>  </u> ' <u>  </u> "		LONG <u>  </u> ° <u>  </u> ' <u>  </u> "	
<b>A. SITE DATA AND BASIC CLASSIFICATION</b>					
Name and Address: <u>Weekapahee River Farm, Weechee Lane Rd</u>		Category: <input type="checkbox"/> Commercial <input type="checkbox"/> Industrial <input type="checkbox"/> Miscellaneous <input type="checkbox"/> Institutional <input type="checkbox"/> Municipal <input type="checkbox"/> Golf Course <input type="checkbox"/> Transport-Related <input type="checkbox"/> Marina <input type="checkbox"/> Animal Facility			
SIC code (if available): _____		Basic Description of Operation: _____			
NPDES Status: <input type="checkbox"/> Regulated <input type="checkbox"/> Unregulated <input type="checkbox"/> Unknown		<b>INDEX*</b>			
<b>B. VEHICLE OPERATIONS</b> <input type="checkbox"/> N/A (Skip to part C)					<b>Observed Pollution Source?</b> <input type="checkbox"/>
B1. Types of vehicles: <input type="checkbox"/> Fleet vehicles <input type="checkbox"/> School buses <input type="checkbox"/> Other: _____					
B2. Approximate number of vehicles: _____					
B3. Vehicle activities (circle all that apply): Maintained Repaired Recycled Fueled Washed Stored <span style="float: right;">○</span>					
B4. Are vehicles stored and/or repaired outside? <input type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> Can't Tell <span style="float: right;">○</span> Are these vehicles lacking runoff diversion methods? <input type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> Can't Tell					
B5. Is there evidence of spills/leakage from vehicles? <input type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> Can't Tell <span style="float: right;">○</span>					
B6. Are uncovered outdoor fueling areas present? <input type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> Can't Tell <span style="float: right;">○</span>					
B7. Are fueling areas directly connected to storm drains? <input type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> Can't Tell <span style="float: right;">○</span>					
B8. Are vehicles washed outdoors? <input type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> Can't Tell <span style="float: right;">○</span> Does the area where vehicles are washed discharge to the storm drain? <input type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> Can't Tell					
<b>C. OUTDOOR MATERIALS</b> <input type="checkbox"/> N/A (Skip to part D)					<b>Observed Pollution Source?</b> <input type="checkbox"/>
C1. Are loading/unloading operations present? <input type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> Can't Tell <span style="float: right;">○</span> If yes, are they uncovered and draining towards a storm drain inlet? <input type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> Can't Tell					
C2. Are materials stored outside? <input type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> Can't Tell <span style="float: right;">○</span> If yes, are they <input type="checkbox"/> Liquid <input type="checkbox"/> Solid Description: _____ Where are they stored? <input type="checkbox"/> grass/dirt area <input type="checkbox"/> concrete/asphalt <input type="checkbox"/> bermed area					
C3. Is the storage area directly or indirectly connected to storm drain (circle one)? <input type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> Can't Tell <span style="float: right;">○</span>					
C4. Is staining or discoloration around the area visible? <input type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> Can't Tell <span style="float: right;">○</span>					
C5. Does outdoor storage area lack a cover? <input type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> Can't Tell <span style="float: right;">○</span>					
C6. Are liquid materials stored without secondary containment? <input type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> Can't Tell <span style="float: right;">○</span>					
C7. Are storage containers missing labels or in poor condition (rusting)? <input type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> Can't Tell <span style="float: right;">○</span>					
<b>D. WASTE MANAGEMENT</b> <input type="checkbox"/> N/A (Skip to part E)					<b>Observed Pollution Source?</b> <input type="checkbox"/>
D1. Type of waste (check all that apply): <input type="checkbox"/> Garbage <input type="checkbox"/> Construction materials <input type="checkbox"/> Hazardous materials <span style="float: right;">○</span>					
D2. Dumpster condition (check all that apply): <input type="checkbox"/> No cover/Lid is open <input type="checkbox"/> Damaged/poor condition <input type="checkbox"/> Leaking or evidence of leakage (stains on ground) <input type="checkbox"/> Overflowing <span style="float: right;">○</span>					
D3. Is the dumpster located near a storm drain inlet? <input type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> Can't Tell <span style="float: right;">○</span> If yes, are runoff diversion methods (berms, curbs) lacking? <input type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> Can't Tell					
<b>E. PHYSICAL PLANT</b> <input type="checkbox"/> N/A (Skip to part F)					<b>Observed Pollution Source?</b> <input type="checkbox"/>
E1. Building: Approximate age: _____ yrs. Condition of surfaces: <input type="checkbox"/> Clean <input type="checkbox"/> Stained <input type="checkbox"/> Dirty <input type="checkbox"/> Damaged <span style="float: right;">○</span> Evidence that maintenance results in discharge to storm drains (staining/discoloration)? <input type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> Don't know <span style="float: right;">○</span>					

\*Index: ○ denotes potential pollution source; \_\_\_\_\_ denotes confirmed polluter (evidence was seen)





<b>E2. Parking Lot:</b> Approximate age ____ yrs. Condition: <input type="checkbox"/> Clean <input type="checkbox"/> Stained <input type="checkbox"/> Dirty <input type="checkbox"/> Breaking up Surface material <input type="checkbox"/> Paved/Concrete <input type="checkbox"/> Gravel <input type="checkbox"/> Permeable <input type="checkbox"/> Don't know	○
<b>E3. Do downspouts discharge to impervious surface?</b> <input type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> Don't know <input type="checkbox"/> None visible Are downspouts directly connected to storm drains? <input type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> Don't know	○
<b>E4. Evidence of poor cleaning practices for construction activities (stains leading to storm drain)?</b> <input type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> Can't Tell	○
<b>F. TURF/LANDSCAPING AREAS</b> <input type="checkbox"/> N/A (skip to part G)	<b>Observed Pollution Source?</b>
<b>F1. % of site with:</b> Forest canopy ____% Turf grass ____% Landscaping ____% Bare Soil ____%	○
<b>F2. Rate the turf management status:</b> <input type="checkbox"/> High <input type="checkbox"/> Medium <input type="checkbox"/> Low	○
<b>F3. Evidence of permanent irrigation or "non-target" irrigation</b> <input type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> Can't Tell	○
<b>F4. Do landscaped areas drain to the storm drain system?</b> <input type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> Can't Tell	○
<b>F5. Do landscape plants accumulate organic matter (leaves, grass clippings) on adjacent impervious surface?</b> <input type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> Can't Tell	○
<b>G. STORM WATER INFRASTRUCTURE</b> <input type="checkbox"/> N/A (skip to part H)	<b>Observed Pollution Source?</b>
<b>G1. Are storm water treatment practices present?</b> <input type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> Unknown If yes, please describe: _____	○
<b>G2. Are private storm drains located at the facility?</b> <input type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> Unknown Is trash present in gutters leading to storm drains? If so, complete the index below.	○
Index Rating for Accumulation in Gutters	
	Clean <span style="float: right;">Filthy</span>
Sediment	<input type="checkbox"/> 1 <input type="checkbox"/> 2 <input type="checkbox"/> 3 <input type="checkbox"/> 4 <input type="checkbox"/> 5
Organic material	<input type="checkbox"/> 1 <input type="checkbox"/> 2 <input type="checkbox"/> 3 <input type="checkbox"/> 4 <input type="checkbox"/> 5
Litter	<input type="checkbox"/> 1 <input type="checkbox"/> 2 <input type="checkbox"/> 3 <input type="checkbox"/> 4 <input type="checkbox"/> 5
<b>G3. Catch basin inspection – Record SSD Unique Site ID here:</b> _____	Condition: <input type="checkbox"/> Dirty <input type="checkbox"/> Clean
<b>H. INITIAL HOTSPOT STATUS - INDEX RESULTS</b>	
<input type="checkbox"/> Not a hotspot (fewer than 5 circles and no boxes checked) <input type="checkbox"/> Potential hotspot (5 to 10 circles but no boxes checked) <input type="checkbox"/> Confirmed hotspot (10 to 15 circles and/or 1 box checked) <input type="checkbox"/> Severe hotspot (>15 circles and/or 2 or more boxes checked)	
<b>Follow-up Action:</b> <input type="checkbox"/> Refer for immediate enforcement <input type="checkbox"/> Suggest follow-up on-site inspection <input type="checkbox"/> Test for illicit discharge <input type="checkbox"/> Include in future education effort <input type="checkbox"/> Check to see if hotspot is an NPDES non-filer <input type="checkbox"/> Onsite non-residential retrofit <input type="checkbox"/> Pervious area restoration; complete PAA sheet and record Unique Site ID here: _____ <input type="checkbox"/> Schedule a review of storm water pollution prevention plan	
<b>Notes:</b> chickens, goats, over pastured (maybe), 50-100 animals, impacted buffers, tractor crossings over river, property encroachments into air/water	

WATERSHED:		SUBWATERSHED:		UNIQUE SITE ID:	
DATE: <u>7/30/2021</u>		ASSESSED BY:		CAMERA ID:	
MAP GRID:		LAT ° ' "		LONG ° ' "	
PIC#:		LMK #			
<b>A. SITE DATA AND BASIC CLASSIFICATION</b>					
Name and Address: <u>Falcon Ridge Farm</u> <u>515 Weekepeenee Rd</u>		Category:		<input type="checkbox"/> Commercial <input type="checkbox"/> Industrial <input type="checkbox"/> Miscellaneous <input type="checkbox"/> Institutional <input type="checkbox"/> Municipal <input type="checkbox"/> Golf Course <input type="checkbox"/> Transport-Related <input type="checkbox"/> Marina <input type="checkbox"/> Animal Facility	
SIC code (if available): _____		Basic Description of Operation:		<b>INDEX*</b>	
NPDES Status: <input type="checkbox"/> Regulated <input type="checkbox"/> Unregulated <input type="checkbox"/> Unknown		<u>Alpacas, goats, horses,</u>			
<b>B. VEHICLE OPERATIONS</b> <input checked="" type="checkbox"/> N/A (Skip to part C)				<b>Observed Pollution Source?</b> <input type="checkbox"/>	
B1. Types of vehicles: <input type="checkbox"/> Fleet vehicles <input type="checkbox"/> School buses <input type="checkbox"/> Other: _____					
B2. Approximate number of vehicles: _____					
B3. Vehicle activities (circle all that apply): Maintained   Repaired   Recycled   Fueled   Washed   Stored <input type="radio"/>					
B4. Are vehicles stored and/or repaired outside? <input type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> Can't Tell					
Are these vehicles lacking runoff diversion methods? <input type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> Can't Tell					
B5. Is there evidence of spills/leakage from vehicles? <input type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> Can't Tell					
B6. Are uncovered outdoor fueling areas present? <input type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> Can't Tell					
B7. Are fueling areas directly connected to storm drains? <input type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> Can't Tell					
B8. Are vehicles washed outdoors? <input type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> Can't Tell					
Does the area where vehicles are washed discharge to the storm drain? <input type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> Can't Tell					
<b>C. OUTDOOR MATERIALS</b> <input type="checkbox"/> N/A (Skip to part D) <u>manure management</u>				<b>Observed Pollution Source?</b> <input type="checkbox"/>	
C1. Are loading/unloading operations present? <input type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> Can't Tell					
If yes, are they uncovered and draining towards a storm drain inlet? <input type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> Can't Tell					
C2. Are materials stored outside? <input type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> Can't Tell   If yes, are they <input type="checkbox"/> Liquid <input type="checkbox"/> Solid   Description: _____					
Where are they stored? <input type="checkbox"/> grass/dirt area <input type="checkbox"/> concrete/asphalt <input type="checkbox"/> bermed area					
C3. Is the storage area directly or indirectly connected to storm drain (circle one)? <input type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> Can't Tell					
C4. Is staining or discoloration around the area visible? <input type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> Can't Tell					
C5. Does outdoor storage area lack a cover? <input type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> Can't Tell					
C6. Are liquid materials stored without secondary containment? <input type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> Can't Tell					
C7. Are storage containers missing labels or in poor condition (rusting)? <input type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> Can't Tell					
<b>D. WASTE MANAGEMENT</b> <input type="checkbox"/> N/A (Skip to part E)				<b>Observed Pollution Source?</b> <input type="checkbox"/>	
D1. Type of waste (check all that apply): <input type="checkbox"/> Garbage <input type="checkbox"/> Construction materials <input type="checkbox"/> Hazardous materials					
D2. Dumpster condition (check all that apply): <input type="checkbox"/> No cover/Lid is open <input type="checkbox"/> Damaged/poor condition <input type="checkbox"/> Leaking or evidence of leakage (stains on ground) <input type="checkbox"/> Overflowing					
D3. Is the dumpster located near a storm drain inlet? <input type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> Can't Tell					
If yes, are runoff diversion methods (berms, curbs) lacking? <input type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> Can't Tell					
<b>E. PHYSICAL PLANT</b> <input type="checkbox"/> N/A (Skip to part F)				<b>Observed Pollution Source?</b> <input type="checkbox"/>	
E1. Building: Approximate age: _____ yrs. Condition of surfaces: <input type="checkbox"/> Clean <input type="checkbox"/> Stained <input type="checkbox"/> Dirty <input type="checkbox"/> Damaged					
Evidence that maintenance results in discharge to storm drains (staining/discoloration)? <input type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> Don't know					

\*Index:  denotes potential pollution source;  denotes confirmed pollutant (evidence was seen)

