Stream Visual Assessment Protocol
(Modified by the Rutgers Cooperative Extension Water Resources Program, <u>www.water.rutgers.edu</u>)

(Modified by the Rutgers Cooperative Extension Water Rose	
- 11'S	0_
Evaluators Name 1005CY (CROUP) Date 500 Time 11:3	
Grid ID	
112 4401C	
Barch Location Haut 7600	
Applicable Reference Site	·
GPS Coordinates (in degrees, minutes, and second)	mud
Weather conditions today Cooperate (circle one): boulder cobble gravel sand silt	
Weather conditions today Active channel width Dominant substrate (circle one): boulder cobble graver Active channel width Dominant substrate (circle one): boulder cobble graver Site Diagram: Note direction of flow, pipes, photo locations, stream characteristics, stormwater infrastructure, &	
Site Diagram: Note direction of flow, pipes, photo	
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Photo Notes: 1	
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Assessment Scores (1-Poor to 10-Excellent) Channel Condition Hydrologic Alteration Riparian Zone Left: Right: Riffle embeddedness Observed (optional) Riffle embeddedness Charcol (ose, in million) Riffle embeddedness Canopy Cover (ose Million) Riffle embeddedness Canopy Cover (ose Million) Riffle embeddedness Canopy Cover (ose Million) Riffle embeddednes	Soores (1-Poor to	10-Excellent)	***(facing upstream)**	*	
Invertebrate habitat Io Invertebrate Io Invertebrate habitat Io Invertebrate habitat Io Invertebrate habitat Io Invertebrate habitat Io Invertebrate habitatal Io Invertebrate habitat	Assessment Scores (1-1 our to	1	Pools	3	
Invertebrate habitat	Channel Condition]			
Riparian Zone Left: Right: Right: Canopy Cover (use Manual for guidance) Manure presence Nutrient Enrichment Barriers to fish movement Instream fish cover Overall Score (1000 in niffles) God in niffles) God in niffles) Overall Score (1000 in niffles) God in niffles) God in niffles) Overall Score (1000 in niffles) God in niffles) God in niffles) Observed (optional) Overall Score (1000 in niffles) God in niffles) God in niffles) Observed (optional) Overall Score (1000 in niffles) God in niffles) God in niffles) Observed (optional) Observed (optional) Streamside Land Use: (within 100 ft. of top of bank) Check all that apply: Category Average: S. 8 Oood > 9.0 Excellent Forest Pasture Cultivated Field Nursery Residential Commercial Industrial Other Courted Fipe in stream, at top of bank, in bank, out of / under bridge, other Channel downstream eroded? YES NO Pipe Material: concrete steel PVC Clay Other Flow appearance: clear turbid oily feamy colored other Unital Pipe 2: (Photo #_ and mark on site diagram) GPS Coordinates Outfail Pipe 2: (Photo #_ and mark on site diagram) GPS Coordinates Outfail Pipe 2: (Photo #_ and mark on site diagram) GPS Coordinates N Pipe gathers water from (road, yard, farm, etc.): Flow appearance: clear turbid oily feamy colored other Unital Pipe 2: (Photo #_ and mark on site diagram) GPS Coordinates N W Diameter:	Hydrologic Alteration 2				
Water Appearance Nutrient Enrichment Barriers to fish movement Instream fish cover Overall Score (Total divided by number scored) Left: \$\frac{1}{5}\$. Right: \$\frac{1}{5}\$ Average: \$\frac{3}{5}\$ 7.5-8.9 Good Left: \$\frac{5}{5}\$. Right: \$\frac{5}{5}\$ Average: \$\frac{5}{5}\$ 8.7-8.9 Good Left: \$\frac{5}{5}\$ 8.7-8.9 Good Left: \$\frac{5}{5}\$ 8.7-8.9 Good Left: \$\frac{5}{5}\$ 9.7-8.	- a 1" 1- 1	Right: <u>ろ</u>	Score only if appro		
Nutrient Enrichment Barriers to fish movement Instream fish cover Overall Score (Total divided by number scores) Left: \$\frac{1}{2}\$ \text{ Right: \$\frac{1}{2}\$ \text{ Average: \$\frac{1}{2}\$ \text{ 7.5-8.9} \text{ Good}}{0.0000000000000000000000000000000000	Bank Stability Left: 3	_	(use Manual for guidance)		
Nutrient Enrichment G	Water Appearance		Ivianos pro	二	1
Instream fish cover	7.		}		
Overall Score	Parriers to fish movement		(look in riffles)		
Overall Score (Total divided by number scored) Left: S. 1 Right: S. Average: S. 7.5-8.9 Good Left: S. 1 Right: S. Average: S. 7.5-8.9 Good Left: S. 1 Right: S. Average: S. 7.5-8.9 Good S. Average: S. 7.5-8.9 Good S. Average: S. 7.5-8.9 Good S. 7.5-8.9 Go	· · · · · · · · · · · · · · · · · · ·	П	Macroinvertebrates		
Overall Score	Instream fish cover		Observed (optional) 	<u></u>
Streamside Land Use: (within 100 ft. of top of bank) Check all that apply: Forest		(Total divided by number scored Left: 5.9 Right: 5	1) 6 Average: <u>5.8</u>	6.1-7.4 7.5-8.9	Fair Good
Streamside Land Use: (within 100 ft. of top of bank) Check all that apply: Forest				in f	the field
(within 100 ft. of top of bank) Check all that apply: Forest	Streamside Land Use:			JSET VEG III	Right Bank
Check all that apply. Pasture	(within 100 ft. of top of bank)		X		
Nursery Residential Commercial Industrial Other Outfall Pipe 1: (Photo # and mark on site diagram) GPS Coordinates Nursery Residential Other Other Other Other Nursery Residential Other Pow X Nother Nursery Nother Nursery Nother Nursery Nother Nother Nursery Nother Nursery Nother Nursery Nother Nursery Nother Nursery Nursery Nursery Nursery Nurser Nurs	Check all that apply.	Pasture			
Residential Commercial Industrial Other Outfall Pipe 1: (Photo #_ and mark on site diagram) GPS Coordinates Diameter:					_ <u>X</u>
Outfall Pipe 1: (Photo # and mark on site diagram) GPS Coordinates N Diameter: in		Residential			
Other Ot					
Outfall Pipe 1: (Photo # and mark on site diagram) GPS Coordinates N Diameter: in			Rex	Pod	35 X
Diameter:			S Coordinates		N w
Headwall? YES NO Double culvert? TES TO Pipe Material: concrete steel PVC Clay Other Location of Pipe: in stream, at top of bank, in bank, out of/ under bridge, other Channel downstream eroded? YES NO Pipe gathers water from (road, yard, farm, etc.): Flow appearance: clear turbid oily foamy colored other Flow appearance: clear turbid oily foamy colored other Outfall Pipe 2: (Photo # and mark on site diagram) GPS Coordinates W Diameter: in Headwall? YES NO Double culvert? YES NO Streambank at outfall eroded? YES NO Pipe Material: concrete steel PVC Clay Other Location of Pipe: in stream, at top of bank, in bank, out of/ under bridge, other Location of Pipe: in stream, at top of bank, in bank, out of/ under bridge, other	Outfall Pipe 1: (Photo # and ma	rk on site diagrams	Ctroombo	nk at outfall	
Pipe Material: concrete steel PVC Clay office Location of Pipe: in stream, at top of bank, in bank, out of/ under bridge, other Channel downstream eroded? YES NO Pipe gathers water from (road, yard, farm, etc.): Flow appearance: clear turbid oily foamy colored other Flow appearance: clear turbid oily foamy GPS Coordinates Outfall Pipe 2: (Photo # _ and mark on site diagram) GPS Coordinates W Diameter: in Headwall? YES NO Double culvert? YES NO Streambank at outfall eroded? YES NO Pipe Material: concrete steel PVC Clay Other Location of Pipe: in stream, at top of bank, in bank, out of/ under bridge, other Location of Pipe: in stream, at top of bank, in bank, out of/ under bridge, other	Diameter:	Double culvert? YES	110	iik at outlan	
Location of Pipe: in stream, at top of bank, in bank, each Channel downstream eroded? YES NO Pipe gathers water from (road, yard, farm, etc.): Flow appearance: clear turbid oily foamy colored other Flow appearance: clear turbid oily foamy GPS Coordinates Outfall Pipe 2: (Photo #_and mark on site diagram) GPS Coordinates W Diameter:in Headwall? YES NO Double culvert? YES NO Streambank at outfall eroded? YES NO Pipe Material: concrete steel PVC Clay Other Location of Pipe: in stream, at top of bank, in bank, out of/ under bridge, other	Headwaii! 125 100	PVC Clay Other	. I dan other		
Channel downstream eroded? YES NO Pipe gathers water from (road, yard, farm, etc.): Flow appearance: clear turbid oily foamy colored other Flow appearance: clear turbid oily foamy colored other Outfall Pipe 2: (Photo # _ and mark on site diagram) GPS Coordinates	Lagation of Pine: in stream, at top	of bank, in bank, out	under bridge, other		
Pipe gathers water from (road, yard, farm, etc.): Flow appearance: clear turbid oily foamy colored other Flow appearance: clear turbid oily foamy colored other Outfall Pipe 2: (Photo #and mark on site diagram) GPS Coordinates N Diameter:in Headwall? YES NO Double culvert? YES NO Streambank at outfall eroded? YES NO Pipe Material: concrete steel PVC Clay Other Location of Pipe: in stream, at top of bank, in bank, out of/ under bridge, other Location of Pipe: in stream, at top of bank, in bank, out of/ under bridge, other	Channel downstream eroded? Y	ES 110			
Flow appearance: clear turbid only round Outfall Pipe 2: (Photo # _ and mark on site diagram) GPS Coordinates	Pipe gathers water from (road, yar	d, farm, etc.):	other		
Headwall? YES NO Double culvert? YES NO Streambank at outland of the Pipe Material: concrete steel PVC Clay Other Location of Pipe: in stream, at top of bank, in bank, out of/ under bridge, other	Flow appearance: clear turbid	oily foamy colored	PS Coordinates		N
Headwall? YES NO Double culvert? YES NO Streambank at outland of the Pipe Material: concrete steel PVC Clay Other Location of Pipe: in stream, at top of bank, in bank, out of/ under bridge, other	Outfall Pipe 2: (Photo #and m	ark on site diagram)	- -	1- at autfa	oll eroded? YES NO
Pipe Material: concrete steel PVC Clay Other Location of Pipe: in stream, at top of bank, in bank, out of/ under bridge, other	Diameter:m	Double culvert? YES	NO Streamb	ank at outfa	III CIOGOGI 1 = 5 = 1
Location of Pipe: in stream, at top of bank, in bank, out of	Headwall? YES NO		a.		_
Channel downstream eroded? YES NO Channel downstream (road, yard, farm, etc.):	Pipe Material. Concrete States	o of bank, in bank, out o	f/ under bridge, other		
Chainer downer from (road, yard, farm, etc.):	Channel downstream eroded?				
Pipe gathers water from (1600, 750)		ES NO			

	Flow appearance: clear turbid oily foamy colored other
-	Drainage Ditch: (Photograph # and mark on site diagram) GPS Coordinates N Width of ditch ft Begins at: Ditch lining: stone, vegetation concrete, mud, other Ditch Flow is: none, intermittent, steady Ditch is: Stable, Eroding Stream channel downstream is: stable, eroded, silted Flow is: clear, cloudy, oily, foamy, colored Ditch comes from: Drop Ruch
Conserve	Drainage Ditch: (Photograph # and mark on site diagram) GPS Coordinates W Width of ditch ft Begins at: Ditch lining: stone, vegetation, concrete, mud, other Ditch Flow is: pone intermittent, steady Ditch is: Stable, Eroding Stream channel downstream is: stable, eroded, silted Flow is: clear, cloudy, oily, foamy, colored Ditch comes from: Ditch Comes from:
	Comments & Suggestions: Do you have suggestions for remediation along this reach? Teconocius to Aleo Dlane
	Given dry weather, is there any running water in nearby stormwater structures?
	Access to this sitehow far off of road is it? Accessible for large equipment, if necessary?
	Debris, trash, litter?
	LONG LOT FOR SALE NORE CONNEY CHUE PO ON HAMPTONC. NEXT TO IT IS LARGE BOT THAT HEADS BACK TO NEXT TO IT IS LARGE BY PMK LANDSCATE CONTERE ZNO NESHANIC - OWNED BY PMK LANDSCATE CONTERE
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Stream Visual Assessment Protocol (Modified by the Rutgers Cooperative Extension Water Resources Program, www.water.rutgers.edu)

PROJECT:
Evaluators Name Thatee Perhant Date 9/19/07 Time 10:00
Property Owners Name (if applicable)
Stream Name The New Message Grid ID C2 - 74
Reach Location Down Stream of 523 Crossing
Applicable Reference Site
GPS Coordinates (in degrees, minutes, and seconds):
Weather conditions today Sunny Past 2-5 days Tolk
Active channel width 32 ft Dominant substrate (circle one): boulder cobble gravel sand silt mud
Site Diagram: Note direction of flow, pipes, photo locations, stream characteristics, stormwater infrastructure, & ditches.
Photo Route 523 1) From bridge downstream 2) Erosion on loft bank 3) State walls on night bank 4 n 11 EATT BATTA BATTA
Photo Notes: 1. D/S from 523 bridge 2. L/B crosion 3. R/B Rock wall 5. R/B Rock wall at tweet wend 6. 7. 10.
910

Assessment Scores (1-Poor to 10	0-Excellent)	***(facing upstream)***	
Channel Condition		Pools	4
Hydrologic Alteration (Score only if Applicable)		Invertebrate habitat	7
Riparian Zone Left: 3 Rig	ght: 3	Score only if applical	ble
	ght: 1	Canopy Cover (use Manual for guidance) Manure presence Salinity Riffle embeddedness (look in riffles) Macroinvertebrates Observed (optional)	7 a - Gerris
(Totz	erall Score al divided by number scored) at: S.9 Right: S.9		-7.4 Fair 5-8.9 Good
Stroomside I and Use:	Land Usa	While Observ	ed in the field
Streamside Land Use: (within 100 ft of top of bank)	Land Use Category	While Observe	ed in the field Right Bank
(within 100 ft. of top of bank)	Category	While Observed	
7 · · ·	I .	Left Bank	
(within 100 ft. of top of bank)	Category Forest	Left Bank	
(within 100 ft. of top of bank)	Category Forest Pasture Cultivated Field Nursery	Left Bank	
(within 100 ft. of top of bank)	Category Forest Pasture Cultivated Field Nursery Residential	Left Bank	
(within 100 ft. of top of bank)	Category Forest Pasture Cultivated Field Nursery Residential Commercial	Left Bank	
(within 100 ft. of top of bank)	Category Forest Pasture Cultivated Field Nursery Residential Commercial Industrial	Left Bank	
(within 100 ft. of top of bank) Check all that apply: Outfall Pipe 1: (Photo # and mark on s	Category Forest Pasture Cultivated Field Nursery Residential Commercial Industrial Other	Left Bank 文	Right Bank X
(within 100 ft. of top of bank) Check all that apply: Outfall Pipe 1: (Photo # and mark on some planeter: in	Category Forest Pasture Cultivated Field Nursery Residential Commercial Industrial Other Site diagram) GPS Commercial	Left Bank X pordinates	Right Bank X N W
(within 100 ft. of top of bank) Check all that apply: Outfall Pipe 1: (Photo # and mark on some piameter: in Headwall? YES NO Double	Category Forest Pasture Cultivated Field Nursery Residential Commercial Industrial Other Site diagram) GPS Contential	Left Bank X pordinates	Right Bank X
(within 100 ft. of top of bank) Check all that apply: Outfall Pipe 1: (Photo # and mark on some point of the property of th	Category Forest Pasture Cultivated Field Nursery Residential Commercial Industrial Other Site diagram) GPS Co	Left Bank X Dordinates Streambank at of	Right Bank X N W utfall eroded? YES NO
(within 100 ft. of top of bank) Check all that apply: Outfall Pipe 1: (Photo # and mark on some point in the adwall? YES NO Double Pipe Material: concrete steel PVC Location of Pipe: in stream, at top of bank	Category Forest Pasture Cultivated Field Nursery Residential Commercial Industrial Other Site diagram) GPS Co	Left Bank X Dordinates Streambank at of	Right Bank X N W utfall eroded? YES NO
(within 100 ft. of top of bank) Check all that apply: Outfall Pipe 1: (Photo # and mark on some point of the property of th	Category Forest Pasture Cultivated Field Nursery Residential Commercial Industrial Other Site diagram) GPS Co	Dordinates Streambank at order bridge, other	N W utfall eroded? YES NO
(within 100 ft. of top of bank) Check all that apply: Outfall Pipe 1: (Photo # and mark on some point of the pipe 1: (Photo # and mark on some point of the pipe Material: concrete steel PVC Location of Pipe: in stream, at top of bank Channel downstream eroded? YES Note the pipe stream of the	Category Forest Pasture Cultivated Field Nursery Residential Commercial Industrial Other Site diagram) GPS Co	Left Bank X Doordinates Streambank at order bridge, other	N W utfall eroded? YES NO
(within 100 ft. of top of bank) Check all that apply: Outfall Pipe 1: (Photo # and mark on some point of the property of th	Category Forest Pasture Cultivated Field Nursery Residential Commercial Industrial Other cite diagram) GPS Commercial e culvert? YES NOmercial Clay Other commercial Commercial Commercial other commercial Comm	Streambank at order bridge, other	Right Bank X N W utfall eroded? YES NO
(within 100 ft. of top of bank) Check all that apply: Outfall Pipe 1: (Photo # and mark on some point of the property of th	Category Forest Pasture Cultivated Field Nursery Residential Commercial Industrial Other cite diagram) GPS Commercial e culvert? YES NOmercial Clay Other commercial Commercial Commercial other commercial Comm	Streambank at order bridge, other	N W utfall eroded? YES NO
(within 100 ft. of top of bank) Check all that apply: Outfall Pipe 1: (Photo # and mark on some point of the pipe of the pi	Category Forest Pasture Cultivated Field Nursery Residential Commercial Industrial Other cite diagram) GPS Commercial e culvert? YES NOmercial Clay Other commercial Commercial Commercial other commercial Comm	Streambank at order bridge, other pordinates Streambank at order bridge, other	Right Bank X N W utfall eroded? YES NO

Double culvert? YES NO

Other

Clay

Location of Pipe: in stream, at top of bank, in bank, out of/ under bridge, other_____

steel PVC

Headwall? YES NO

Pipe Material: concrete

Channel downstream eroded? YES NO Pipe gathers water from (road, yard, farm, etc.):_

Flow appearance: clear turbid oily foamy colored other
Drainage Ditch: (Photograph # and mark on site diagram) GPS Coordinates N Width of ditch ft Ditch lining: stone, vegetation, concrete, mud, other Ditch is: Stable, Eroding Ditch Flow is: none, intermittent, steady Stream channel downstream is: stable, eroded, silted Flow is: clear, cloudy, oily, foamy, colored Ditch comes from:
Drainage Ditch: (Photograph # and mark on site diagram) GPS Coordinates N Width of ditch ft W Begins at: Ditch lining: stone, vegetation, concrete, mud, other Ditch is: Stable, Eroding Ditch Flow is: none, intermittent, steady Stream channel downstream is: stable, eroded, silted Flow is: clear, cloudy, oily, foamy, colored Ditch comes from: Ditch Flow is: clear, cloudy, oily, foamy, colored
Comments & Suggestions: Do you have suggestions for remediation along this reach?
Given dry weather, is there any running water in nearby stormwater structures?
Access to this sitehow far off of road is it? Accessible for large equipment, if necessary?
Debris, trash, litter? Small amount
Additional comments:
Considerably altered by channeling walls

Stream Visual Assessment Protocol (Modified by the Rutgers Cooperative Extension Water Resources Program, www.water.rutgers.edu)

Evaluators Name Kerces Hussley Date 10-30-07 Time 1:30 PM
Property Owners Name (if applicable) Grid ID C2 - 74
Stream Name 1 4 C 2 C 2
Reach Location 4PSTRBAM OF THE Channel width
Anniicanie Releichee Site_C
GPS Coordinates (in degrees, minutes, and seconds):
Library day (QQ V) U W W Y Tast 2 3 3
Weather conditions today (150) 10 10 19 boulder cobble gravel sand silt mud Active channel width 20.5 ft Dominant substrate (circle one): boulder cobble gravel sand silt mud Active channel width 20.5 ft Dominant substrate (circle one): boulder cobble gravel sand silt mud Active channel width 20.5 ft Dominant substrate (circle one): boulder cobble gravel sand silt mud Active channel width 20.5 ft Dominant substrate (circle one): boulder cobble gravel sand silt mud
Note direction of flow, pipes, photo locations, stream characteristics, sterming
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Photo Notes. 1 4
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Assessment Scores (1-Poor to 10-F	Excellent)	***(facing upstream)**	*		
	,				
Channel Condition	۵		a		
Hydrologic Alteration (Score only if Applicable)	Sound of the second	Pools Invertebrate habitat Score only if application		' 	
Pingrian Zone Left: 9 Right	: 5 - VO COM	Score only if applie	cable	, -	
excellent but mossing [7] Pinto	101	Canopy Cover	19] [
Bank Stability		(use Manual for guidance) Manure presence	NA] [
Water Appearance		Calinity	NA	11	
Nutrient Enrichment		Salinity	[(A	7	
Barriers to fish movement		Riffle embeddednes (look in riffles)	s NA		
Instream fish cover		Macroinvertebrates	NA	₫	
Instream fish cover		Observed (optional)			
Over	all Score		< 6.0	Poor	
		7.0	6.1-7.4 7.5-8.9		
7.7 Left:	Right: 65		> 9.0	Excellent	
	79 76				
	Land Use	While Obs	served	in the field	
Streamside Land Use:	Category _	Left Bank		Right Bank	
(within 100 ft. of top of bank) Check all that apply:	Forest	X			
Check an mar apply	Pasture				
	Cultivated Field				
	Nursery			X Jawn	
	Residential Commercial				
	Industrial				
	Other				
				N	
Outfall Pipe 1: (Photo #_ and mark on s	ite diagram) GPS	Coordinates		w ~	
To*		Streambank	c at outf	fall eroded?YES (10)	
Headwall? YES NO What I Doubl	e culvert? YES				
	Clay Other	inder bridge, other			
Pipe Material: concrete Steel 1 Ve	k, in bank, out of u	inder on age, care			
Channel downstream eroded? YES N	())	() a			
c (mad word farm	2 10.10	Wall			
Pipe gamers water	1 600.10 1 1000 1 1 0	other that			
Flow appearance clear turbid oily	foamy colored	other the	. 	N	
Outfall Pipe 2: (Photo # _ and mark on	foamy colored	S Coordinates		W	
Outfall Pipe 2: (Photo #and mark on Diameter:in	foamy colored site diagram) GPS	S Coordinates	nk at ou	W tfall eroded? YES NO	5.A1
Outfall Pipe 2: (Photo #and mark on Diameter:in Headwall? VES NO Doub	foamy colored site diagram) GPS sle culvert? YES	S Coordinates NO Streambar	nk at ou	W tfall eroded? YES NO	[m]
Outfall Pipe 2: (Photo #and mark on Diameter:in Headwall? YES NO Doub	foamy colored site diagram) GPS sle culvert? YES Clay Other	NO Streambar		tfall eroded? YES NO	13
Outfall Pipe 2: (Photo #and mark on Diameter:in Headwall? YES NO Doub	foamy colored site diagram) GPS sle culvert? YES Clay Other	NO Streambar		tfall eroded? YES NO	[m
Outfall Pipe 2: (Photo #and mark on Diameter:in Headwall? VES NO Doub	foamy colored site diagram) GPS ole culvert? YES Clay Other in bank, out of	NO Streambar		tfall eroded? YES NO	im

Flow appearance: clear turbid oily foamy colored other	
Drainage Ditch: (Photograph # and mark on site diagram) GPS CoordinatesN Width of ditchft Begins at: Ditch lining: stone, vegetation, concrete, mud, other Ditch Flow is: none, intermittent, steady	
Begins at: Ditch ming. stone, regeated. Ditch Flow is: none, intermittent, steady Stream channel downstream is: stable, eroded, silted Ditch comes from:	
Drainage Ditch: (Photograph # and mark on site diagram) GPS Coordinates	_N _W
Width of ditchft Begins at: Ditch lining: stone, vegetation, concrete, mud, other Ditch Flow is: none, intermittent, steady Stream channel downstream is: stable, eroded, silted Ditch comes from:	
Comments & Suggestions: Do you have suggestions for remediation along this reach?	
Given dry weather, is there any running water in nearby stormwater structures?	
Access to this sitehow far off of road is it? Accessible for large equipment, if necessary? YOU SIK IS adjacent to the road.	
Debris, trash, litter?	
Additional comments: The Sheave Corridor is in good shape. It looks lelle there was historic down cutting but the sheam is stable now. Left bank is undercutting slightly with some roots exposed).



Stream Visual Assessment Protocol

(Modified by the Rutgers Cooperative Extension Water Resources Program, <u>www.water.rutgers.edu</u>)

PROJECT:	101	
Evaluators Name Kerroge Hungerey Date	10/30/07	Time_1420
Property Owners Name (if applicable)		100
Stream Name Strong Westaki C	Grid ID	
Reach Location Upsteam of Sandbook head of	variers ILE C Britten	104
Applicable Reference Site		
GPS Coordinates (in degrees, minutes, and seconds):	ast 2-5 days 2,5 indres of	Calla Gama 10/20 to 10/27
1		_
Active channel width ft Dominant substrate (circle one):	boulder cobble gravel	
Site Diagram: Note direction of flow, pipes, photo locations, stream	m characteristics, stormwater inf	rastructure, & diteries.
ont full - 10" Not toscale		
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outfall 6" Swall Swall Swall Swall	and the second s	
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sand brook head pe	harters ICa	
Photo Notes: 1	2.	
Photo Notes: 1	4	
5	6	
7	8 10	
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Assessment Scores (1-Poor	to 10-Excellent)	***(facing upstream)***	•
_	3	Pools	2
	7	Invertebrate habitat	7
Riparian Zone Left: D	Right:	Score only if applica	able
Bank Stability Left: Line Water Appearance	Right: 4	Canopy Cover (use Manual for guidance) Manure presence	NA
Nutrient Enrichment	0	Salinity	NA
Barriers to fish movement	5	(look in riffles)	NA
Instream fish cover	b	Macroinvertebrates Observed (optional)	NAI
	Overall Score (Total divided by number scored) Left: S.S Right: S.	6. _ Average: <u>5.6</u> 7.	6.0 Poor .1-7.4 Fair .5-8.9 Good
	55 62	>	9.0 Excellent
			ved in the field
Streamside Land Use:	Land Use	while Obser	ved ill the lield
Streamside Land Use: (within 100 ft. of top of bank)	Land Use Category	Left Bank	Right Bank
(within 100 ft. of top of bank)	Category Forest Pasture		
(within 100 ft. of top of bank)	Forest Pasture Cultivated Field		
(within 100 ft. of top of bank)	Forest Pasture Cultivated Field Nursery		Right Bank
(within 100 ft. of top of bank)	Forest Pasture Cultivated Field Nursery Residential		
(within 100 ft. of top of bank)	Forest Pasture Cultivated Field Nursery Residential Commercial		Right Bank
(within 100 ft. of top of bank)	Forest Pasture Cultivated Field Nursery Residential		Right Bank
(within 100 ft. of top of bank) Check all that apply:	Category Forest Pasture Cultivated Field Nursery Residential Commercial Industrial Other	Left Bank	Right Bank
(within 100 ft. of top of bank) Check all that apply: Outfall Pipe 1: (Photo # and mar Diameter:in	Category Forest Pasture Cultivated Field Nursery Residential Commercial Industrial Other Residential Other	Left Bank X oordinates	Right Bank X (awn
(within 100 ft. of top of bank) Check all that apply: Outfall Pipe 1: (Photo # and mar Diameter:in	Category Forest Pasture Cultivated Field Nursery Residential Commercial Industrial Other ck on site diagram) GPS Compared Double culvert? YES NO	Left Bank X oordinates	Right Bank X awA N W Outfall eroded? YES WO
(within 100 ft. of top of bank) Check all that apply: Outfall Pipe 1: (Photo # and mar Diameter: in Headwall? (ES NO In Pipe Material: concrete steel	Category Forest Pasture Cultivated Field Nursery Residential Commercial Industrial Other Ck on site diagram) GPS Composite Composite Notice N	Left Bank X oordinates Streambank at	Right Bank X (awn
(within 100 ft. of top of bank) Check all that apply: Outfall Pipe 1: (Photo # and mar Diameter: in Headwall? YES NO I Pipe Material: concrete steel Location of Pipe: in stream, at top of	Category Forest Pasture Cultivated Field Nursery Residential Commercial Industrial Other Ck on site diagram) GPS Complete Comple	Left Bank X oordinates Streambank at a	Right Bank X aun N W Outfall eroded? YES (10)
(within 100 ft. of top of bank) Check all that apply: Outfall Pipe 1: (Photo # and mar Diameter: in Headwall? YES NO I Pipe Material: concrete steel Location of Pipe: in stream, at top of Channel downstream eroded? YE	Forest Pasture Cultivated Field Nursery Residential Commercial Industrial Other Characteristics of the company	Left Bank X oordinates Streambank at	Right Bank X aun N W Outfall eroded? YES (10)
Outfall Pipe 1: (Photo # and mar Diameter: in Headwall? YES NO In the Material: Concrete steel Location of Pipe: in stream, at top of Channel downstream eroded? YE Pipe gathers water from road yard	Forest Pasture Cultivated Field Nursery Residential Commercial Industrial Other Double culvert? YES PVC Clay Other of bank, in bank, out of/ und S No Farm, etc.):	Left Bank X oordinates Streambank at the bridge other Coff alan Off ala	Right Bank X aun N W Outfall eroded? YES (10)
Outfall Pipe 1: (Photo # and mar Diameter: in Headwall? (ES NO I Location of Pipe: in stream, at top of Channel downstream eroded? YE Pipe gathers water from road yard Flow appearance: clear turbid of	Forest Pasture Cultivated Field Nursery Residential Commercial Industrial Other Character of bank, in bank, out of/ und serve of	Left Bank X Oordinates Streambank at a ler bridge other Left Bank A left Bank	Right Bank X aun
(within 100 ft. of top of bank) Check all that apply: Outfall Pipe 1: (Photo # and mar Diameter: in Headwall? YES NO I Pipe Material: concrete steel Location of Pipe: in stream, at top of Channel downstream eroded? YE	Forest Pasture Cultivated Field Nursery Residential Commercial Industrial Other Character of bank, in bank, out of/ und serve of	Streambank at ler bridge, other worthand coordinates	N W outfall eroded? YES NO CONTRACT LEVEL OF LEV
Outfall Pipe 1: (Photo # and mar Diameter: in Headwall? YES NO_ Channel downstream eroded? YE Pipe gathers water from road yard Flow appearance: clear turbid outfall Pipe 2: (Photo # and mar Diameter: in Headwall? YES NO_ Channel downstream eroded? YED Pipe gathers water from road yard Flow appearance: clear turbid outfall Pipe 2: (Photo # and mar Diameter: in Headwall? YES NO_ Check all that apply:	Forest Pasture Cultivated Field Nursery Residential Commercial Industrial Other Double culvert? YES Of bank, in bank, out of/ und S No farm, etc.): ily foamy colored other characteristics of the color of the culvert? YES Double culvert? YES No Color of the color of the culvert of the culve	Streambank at the bridge other ther wordinates coordinates	Right Bank X aun W Out of well Use well Use well N N
Outfall Pipe 1: (Photo # and mar Diameter: in Headwall? YES NO_ Channel downstream eroded? YE Pipe gathers water from road yard Flow appearance: clear turbid or Outfall Pipe 2: (Photo # and mar Diameter: in Headwall? YES NO	Forest Pasture Cultivated Field Nursery Residential Commercial Industrial Other Tok on site diagram) GPS Composite culvert? YES PVC Clay Other Tok on site diagram) GPS Composite culvert? YES Tok on site diagram of bank, out of/ und site diagram of bank out of/ und site diagram of bank of site diagram of site site site site site site site site	Streambank at the streambank a	N W outfall eroded? YES NO outfall eroded? YES NO outfall eroded? YES NO
Outfall Pipe 1: (Photo # and mar Diameter: in Headwall? YES NO Channel downstream eroded? YE Pipe gathers water from road yard Flow appearance: clear turbid of Outfall Pipe 2: (Photo # and mar Diameter: in Headwall? YES NO Channel downstream eroded? YES Pipe gathers water from road yard Flow appearance: clear turbid of Outfall Pipe 2: (Photo # and mar Diameter: in Headwall? YES NO Pipe Material: concrete Steel Location of Pipe: in stream, at top of the control of Pipe in stream in the control of	Forest Pasture Cultivated Field Nursery Residential Commercial Industrial Other Character of bank, in bank, out of/ und show of bank in bank, out of/ und show of bank, in bank, out of/ under of bank, in b	Streambank at the bridge other toordinates Streambank at the streambank at the bridge other toordinates Streambank at the bridge other toordinates	N W outfall eroded? YES NO outfall eroded? YES NO outfall eroded? YES NO
Outfall Pipe 1: (Photo # and mar Diameter: in Headwall? YES NO_ Channel downstream eroded? YE Pipe gathers water from road yard Flow appearance: clear turbid or Outfall Pipe 2: (Photo # and mar Diameter: in Headwall? YES NO	Forest Pasture Cultivated Field Nursery Residential Commercial Industrial Other Residential Commercial Industrial Other Category Residential Commercial Industrial Commercial Industrial Commercial Industrial Industrial Commercial Industrial Comm	Streambank at the streambank a	N W outfall eroded? YES NO outfall eroded? YES NO outfall eroded? YES NO

no out flam

Flow appearance: clear turbid oily foamy colored other	
Drainage Ditch: (Photograph # and mark on site diagram) GPS CoordinatesN Width of ditchft	_
Drainage Ditch: (Photograph # and mark on site diagram) GPS Coordinates N Width of ditch ft Begins at: Ditch lining: stone, vegetation, concrete, mud, other Ditch is: Stable, Eroding Ditch Flow is: none, intermittent, steady Stream channel downstream is: stable, eroded, silted Ditch comes from:	
Comments & Suggestions: Do you have suggestions for remediation along this reach?	_
Given dry weather, is there any running water in nearby stormwater structures?	
Access to this sitehow far off of road is it? Accessible for large equipment, if necessary?	
Debris, trash, litter? \(\lambda_0\)	
Additional comments: Spoke with local resident who stated the stream is clear in the summer and cloudy in the winder	

Stream Visual Assessment Protocol (Modified by the Rutgers Cooperative Extension Water Resources Program, <u>www.water.rutgers.edu</u>)

Assessment Scores (1-Poor to 10-Excellent)		*** (facing upstream) **	*
Channel Condition		Pools	7
Hydrologic Alteration (Score only if Applicable)	_	Invertebrate habitat	8
Riparian Zone Left: 2 Rig	ght: 8	Score only if applic	cable
Water Appearance	ght: <u>5</u>	Canopy Cover (use Manual for guidance) Manure presence	
Nutrient Enrichment		Salinity	5 2
Barriers to fish movement Instream fish cover		Riffle embeddedness (look in riffles) Macroinvertebrates Observed (optional)	
(Tota	erall Score al divided by number scored) t: 8.4 Right: 8.4	Average: 8.5	< 6.0 Poor 6.1-7.4 Fair 7.5-8.9 Good > 9.0 Excellent
86	89		
			erved in the field
Streamside Land Use:	Land Use Category	While Obso	
	Land Use	While Obse	erved in the field
Streamside Land Use: (within 100 ft. of top of bank)	Land Use Category Forest Pasture	While Obso	erved in the field
Streamside Land Use: (within 100 ft. of top of bank)	Land Use Category Forest Pasture Cultivated Field	While Obso	erved in the field
Streamside Land Use: (within 100 ft. of top of bank)	Land Use Category Forest Pasture Cultivated Field Nursery	While Obso	erved in the field
Streamside Land Use: (within 100 ft. of top of bank)	Land Use Category Forest Pasture Cultivated Field	While Obso	erved in the field
Streamside Land Use: (within 100 ft. of top of bank)	Land Use Category Forest Pasture Cultivated Field Nursery Residential Commercial Industrial	While Obso	erved in the field
Streamside Land Use: (within 100 ft. of top of bank)	Land Use Category Forest Pasture Cultivated Field Nursery Residential Commercial	While Obso	erved in the field
Streamside Land Use: (within 100 ft. of top of bank) Check all that apply: Outfall Pipe 1: (Photo # and mark on steel)	Land Use Category Forest Pasture Cultivated Field Nursery Residential Commercial Industrial Other	While Obset Left Bank	erved in the field Right Bank X N W
Streamside Land Use: (within 100 ft. of top of bank) Check all that apply: Outfall Pipe 1: (Photo # and mark on some planeter: in	Land Use Category Forest Pasture Cultivated Field Nursery Residential Commercial Industrial Other	While Obset Left Bank X oordinates	erved in the field Right Bank X
Streamside Land Use: (within 100 ft. of top of bank) Check all that apply: Outfall Pipe 1: (Photo # and mark on some point of the property	Land Use Category Forest Pasture Cultivated Field Nursery Residential Commercial Industrial Other Site diagram) GPS Commercial Comm	While Obse Left Bank X oordinates	erved in the field Right Bank X N W at outfall eroded? YES NO
Streamside Land Use: (within 100 ft. of top of bank) Check all that apply: Outfall Pipe 1: (Photo # and mark on some point of the property	Land Use Category Forest Pasture Cultivated Field Nursery Residential Commercial Industrial Other Site diagram) GPS Commercial Comm	While Obse Left Bank X oordinates	erved in the field Right Bank X N W at outfall eroded? YES NO
Streamside Land Use: (within 100 ft. of top of bank) Check all that apply: Outfall Pipe 1: (Photo # and mark on some point of the property	Land Use Category Forest Pasture Cultivated Field Nursery Residential Commercial Industrial Other Site diagram) GPS Company Clay Other k, in bank, out of/ und	While Obset Left Bank X oordinates Streambank and the bridge, other	erved in the field Right Bank X N W at outfall eroded? YES NO
Streamside Land Use: (within 100 ft. of top of bank) Check all that apply: Outfall Pipe 1: (Photo # and mark on some point of the property	Land Use Category Forest Pasture Cultivated Field Nursery Residential Commercial Industrial Other Site diagram) GPS Commercial Clay Other k, in bank, out of/ und formula of the cultivated Field Nursery Residential Commercial Industrial Other	While Obset Left Bank X oordinates Streambank and the bridge, other	erved in the field Right Bank X N W at outfall eroded? YES NO
Streamside Land Use: (within 100 ft. of top of bank) Check all that apply: Outfall Pipe 1: (Photo # and mark on some point of the property	Land Use Category Forest Pasture Cultivated Field Nursery Residential Commercial Industrial Other Site diagram) GPS Company Residential Commercial Industrial Other	While Obset Left Bank X oordinates Streambank and ther bridge, other	erved in the field Right Bank X N W at outfall eroded? YES NO

Diameter:_____in

Headwall? YES NO Double culvert? YES NO Streambank at outfall eroded? YES NO

Pipe Material: concrete steel PVC Clay Other

Location of Pipe: in stream, at top of bank, in bank, out of/ under bridge, other____

Channel downstream eroded? YES NO

Pipe gathers water from (road, yard, farm, etc.):____

Flow appearance: clear turbid oily foamy colored other	
Drainage Ditch: (Photograph # and mark on site diagram) GPS Coordinates N Width of ditch ft Begins at: Ditch lining: stone, vegetation, concrete, mud, other Ditch is: Stable, Eroding Ditch Flow is: none, intermittent, steady Stream channel downstream is: stable, eroded, silted Flow is: clear, cloudy, oily, foamy, colored Ditch comes from:	-
Drainage Ditch: (Photograph # and mark on site diagram) GPS CoordinatesN Width of ditchft Begins at: Ditch lining: stone, vegetation, concrete, mud, other Ditch is: Stable, Eroding Ditch Flow is: none, intermittent, steady Stream channel downstream is: stable, eroded, silted Ditch comes from:	 M
Comments & Suggestions: Do you have suggestions for remediation along this reach? Given dry weather, is there any running water in nearby stormwater structures?	
Access to this sitehow far off of road is it? Accessible for large equipment, if necessary?	
Debris, trash, litter? Nove Additional comments:	



Stream Visual Assessment Protocol (Modified by the Rutgers Cooperative Extension Water Resources Program, www.water.rutgers.edu)

PROJECT:	Time
Evaluators Name VELLEGE CARRESTS	Date
Property Owners Name (if applicable)	Grid ID B2 - 84
Stream Name THE P NEW 10	No Chindre D375
Reach Location Upsteam of Britton and	0000
Applicable Reference Site	
GPS Coordinates (in degrees, minutes, and seconds):	Past 2-5 days 2.5 inches of rain on 10/20+10/27
Weather conditions today Sunny 265 F	male houlder cobble gravel sand sitt mud
Active channel width 19 ft Dominant substrate (circle o	s, stream characteristics, stormwater infrastructure, & diches.
Site Diagram: Note direction of flow, pipes, photo location	3, 31,000.
Not to Sal	
م ماليات	
	·
1. Ca	
6 0 1 32	
5	
De con	
tue de la company de la compan	
8	all and
	ook Jude Standay
1 Comment	O. osh J. of P. Revolution
To the state of th	1 00 / 2 1
0 0	h sum / 8
	O.O. Il
b	a location the
Britten Dr.	Subtle god 1 youth
	2
Photo Notes: 1	2. 4
3	6
5	8
0	10

Assessment Scores (1-Poor to	10-Excellent)	***(facing upstream)**	*
(£: -7	٦ ,	Pools	Ø 1
Channel Condition			
Hydrologic Alteration (Score only if Applicable)		Invertebrate habitat	2
	Right: 8	Score only if appli	cable
repartan zonalogia		Course Cover	5
Dalik Stability	7	Canopy Cover (use Manual for guidance) Manure presence	NA
Water Appearance		-	==1
Nutrient Enrichment 10		Salinity	NA
Barriers to fish movement 5]	Riffle embeddednes (look in riffles)	
Instream fish cover	7	Macroinvertebrates	NA
Instream fish cover		Observed (optional)	
			< 6.0 Poor
•	Overall Score		6.1-7.4 Fair
	(Total divided by number scored) Left: 6.0 Right: 6.4	Average: 62	7.5-8.9 Good
		_Average	> 9.0 Excellent
Ļ	66 70		
		While Obe	served in the field
Streamside Land Use:	Land Use	Wille Obs	CI VCU III CHO 12010
Streamside Land Osc.	 -		Right Bank
(within 100 ft. of top of bank)	Category	Left Bank	Right Bank
(within 100 ft. of top of bank) Check all that apply:	Category Forest		Right Bank
(within 100 ft. of top of bank)	Category Forest Pasture		Right Bank
(within 100 ft. of top of bank)	Category Forest		Right Bank
(within 100 ft. of top of bank)	Forest Pasture Cultivated Field Nursery Residential		Right Bank
(within 100 ft. of top of bank)	Category Forest Pasture Cultivated Field Nursery Residential Commercial		Right Bank
(within 100 ft. of top of bank)	Category Forest Pasture Cultivated Field Nursery Residential Commercial Industrial	Left Bank	Right Bank
(within 100 ft. of top of bank)	Category Forest Pasture Cultivated Field Nursery Residential Commercial	Left Bank	Right Bank
(within 100 ft. of top of bank) Check all that apply:	Category Forest Pasture Cultivated Field Nursery Residential Commercial Industrial Other	Left Bank Toad rite of way or Jextarus the	Right Bank
(within 100 ft. of top of bank) Check all that apply: Outfall Pipe 1: (Photo # and mark)	Category Forest Pasture Cultivated Field Nursery Residential Commercial Industrial Other	Left Bank Toad rite of way Jest Lafu + hus Coordinates	Right Bank X N W
(within 100 ft. of top of bank) Check all that apply: Outfall Pipe 1: (Photo # and mark Diameter:in	Category Forest Pasture Cultivated Field Nursery Residential Commercial Industrial Other Con site diagram) GPS Constant	Left Bank Toud rite of way or Vesetatu + fur Coordinates	Right Bank
(within 100 ft. of top of bank) Check all that apply: Outfall Pipe 1: (Photo # and mark Diameter: in Headwall? YES NO D	Category Forest Pasture Cultivated Field Nursery Residential Commercial Industrial Other Con site diagram) GPS Consider Ouble culvert? YES NO	Left Bank Toad rik of way Jest Adu + hus Coordinates Streambank	Right Bank
(within 100 ft. of top of bank) Check all that apply: Outfall Pipe 1: (Photo # and mark Diameter: in Headwall? YES NO D	Category Forest Pasture Cultivated Field Nursery Residential Commercial Industrial Other Con site diagram) GPS Consider Ouble culvert? YES NO	Left Bank Toad rik of way Jest Adu + hus Coordinates Streambank	Right Bank
Outfall Pipe 1: (Photo # and mark Diameter: in Headwall? YES NO Depth Material: concrete steel I Location of Pipe: in stream, at top of	Category Forest Pasture Cultivated Field Nursery Residential Commercial Industrial Other Con site diagram) GPS Considered Separate Separat	Left Bank Toad rik of way Jest Adu + hus Coordinates Streambank	Right Bank
Outfall Pipe 1: (Photo # and mark Diameter:in Headwall? YES NO Diameter:in Location of Pipe: in stream, at top of Location of Pipe: in stream, at top of the property of the prop	Category Forest Pasture Cultivated Field Nursery Residential Commercial Industrial Other Con site diagram) GPS Converted Course	Left Bank Toud risk of way of the second risk of way of the second risk of way of the second risk of the se	Right Bank
Outfall Pipe 1: (Photo # and mark Diameter: in Headwall? YES NO Depipe Material: concrete steel I Location of Pipe: in stream, at top of Channel downstream eroded? YES	Category Forest Pasture Cultivated Field Nursery Residential Commercial Industrial Other Con site diagram) GPS Considered Service Clay Other Souble culvert? YES NOT Considered Service Clay Other Souble Service S	Left Bank Toud rite of way or vessel for the forward of the forwa	Right Bank X N W at outfall eroded?YES NO
Outfall Pipe 1: (Photo # and mark Diameter: in Headwall? YES NO Depipe Material: concrete steel I Location of Pipe: in stream, at top of Channel downstream eroded? YES	Category Forest Pasture Cultivated Field Nursery Residential Commercial Industrial Other Con site diagram) GPS Considered Service Clay Other Souble culvert? YES NOT Considered Service Clay Other Souble Service S	Left Bank Toud rite of way or vessel for the forward of the forwa	Right Bank X N W at outfall eroded?YES NO
Outfall Pipe 1: (Photo # and mark Diameter: in Headwall? YES NO Death Docation of Pipe: in stream, at top of Channel downstream eroded? YES Pipe gathers water from (road, yard, Flow appearance: clear turbid oi Outfall Pipe 2: (Photo # and mark processes)	Category Forest Pasture Cultivated Field Nursery Residential Commercial Industrial Other Con site diagram) GPS Considered Service Clay Other Souble culvert? YES NOT Considered Service Clay Other Souble Service S	Left Bank Toud rite of way and the streambank der bridge, other	Right Bank X N W at outfall eroded?YES NO
Outfall Pipe 1: (Photo # and mark Diameter: in Headwall? YES NO Diameter at top of Channel downstream eroded? YES Pipe gathers water from (road, yard, Flow appearance: clear turbid oi Outfall Pipe 2: (Photo # and mark Diameter: in	Forest Pasture Cultivated Field Nursery Residential Commercial Industrial Other Con site diagram) GPS Considered Service Clay Other Souble culvert? YES NO PVC Clay Other Souble Service Serv	Left Bank Toud rik of way of Jest Lature + 1000 representation +	Right Bank X N W at outfall eroded?YES NO
Outfall Pipe 1: (Photo # and mark Diameter: in Headwall? YES NO Description of Pipe: in stream, at top of Channel downstream eroded? YES Pipe gathers water from (road, yard, Flow appearance: clear turbid oi Outfall Pipe 2: (Photo # and mark Diameter: in Headwall? YES NO In the sadwall? YES NO In the sadwall	Category Forest Pasture Cultivated Field Nursery Residential Commercial Industrial Other Con site diagram) GPS Couble culvert? YES NO PVC Clay Other f bank, in bank, out of/ und S NO farm, etc.): ly foamy colored of k on site diagram) GPS Couble culvert? YES NO	Left Bank Toud rik of way of Jest Lature + 1000 representation +	Right Bank X N W at outfall eroded?YES NO
Outfall Pipe 1: (Photo # and mark Diameter: in Headwall? YES NO Description of Pipe: in stream, at top of Channel downstream eroded? YES Pipe gathers water from (road, yard, Flow appearance: clear turbid oi Outfall Pipe 2: (Photo # and mar Diameter: in Headwall? YES NO IN HEADWALL	Category Forest Pasture Cultivated Field Nursery Residential Commercial Industrial Other Con site diagram) GPS Considered of the site diagram of the site dia	Left Bank Toad rift of way or very a factor of the factor	Right Bank X
Outfall Pipe 1: (Photo # and mark Diameter: in Headwall? YES NO Death Pipe Material: concrete steel Fine Location of Pipe: in stream, at top of Channel downstream eroded? YES Pipe gathers water from (road, yard, Flow appearance: clear turbid oi Outfall Pipe 2: (Photo # and mar Diameter: in Headwall? YES NO In Pipe Material: concrete steel Location of Pipe: in stream, at top of Location of Pipe	Category Forest Pasture Cultivated Field Nursery Residential Commercial Industrial Other Con site diagram) GPS Couble culvert? YES NO PVC Clay Other f bank, in bank, out of/ und S NO farm, etc.): ly foamy colored of k on site diagram) GPS Couble culvert? YES NO PVC Clay Other Couble culvert? YES NO Couble culvert	Left Bank Toad rift of way or very a factor of the factor	Right Bank X
Outfall Pipe 1: (Photo # and mark Diameter: in Headwall? YES NO Description of Pipe: in stream, at top of Channel downstream eroded? YES Pipe gathers water from (road, yard, Flow appearance: clear turbid oi Outfall Pipe 2: (Photo # and mar Diameter: in Headwall? YES NO IN HEADWALL	Category Forest Pasture Cultivated Field Nursery Residential Commercial Industrial Other Con site diagram) GPS Considered of bank, in bank, out of/ under the site of bank, in bank, out of/ und	Left Bank Toad rife of way or very back and the streambank der bridge, other	Right Bank

Flow appearance: clear turbid oily foamy colored other	
Width of ditch The stable T	v
Drainage Ditch: (Photograph # and mark on site diagram) GPS Coordinates Width of ditch ft Begins at: Ditch lining: stone, vegetation, concrete, mud, other Ditch is: Stable, Eroding Ditch Flow is: none, intermittent, steady Stream channel downstream is: stable, eroded, silted Ditch comes from:	_N _W _
Comments & Suggestions: Do you have suggestions for remediation along this reach?	
Given dry weather, is there any running water in nearby stormwater structures?	
Access to this sitehow far off of road is it? Accessible for large equipment, if necessary?	
Debris, trash, litter? W	
Additional comments: This reach appears to get all the drainge as far as can be seen will road. If per only exist indu pavement. The rest is swales	(deta



Stream Visual Assessment Protocol
(Modified by the Rutgers Cooperative Extension Water Resources Program, www.water.rutgers.edu)

PROJECT:
Evaluators Name Kellogg + Himplefate 9-18-07 Time 9:00 AM
Property Owners Name (if applicable) Dick Yard
Stream Name THIRD WESHANIC Grid ID B2-88
Reach Location V 10 10 10 10 10 10 10 10 10 10 10 10 10
Applicable Reference Site 4ARO RO, C4LOORT D-435
GPS Coordinates (in degrees, minutes, and seconds):
Weather conditions today CLBAR - 748, Past 2-5 days SA7-RAIN; SUN-748 CLB M
Active channel width 28 ft Dominant substrate (circle one): boulder cobble gravel (sand) silt mud
Site Diagram: Note direction of flow, pipes, photo locations, stream characteristics, stormwater infrastructure, & ditches.
Site Diagram: Note direction of flow, pipes, photo locations, stream characteristics, stormwater infrastructure, & ditches. Not to Scale Field The diagram of the discharge flow of the discharge f
1) photo I looking upstram from only
Photo Notes: 1

	Assessment Scores (1-Poor to	· .	*** (facing upstream) **	**
4	Channel Condition 5	based on the 15th had been stored to the 15th had been some	Pools	
	Hydrologic Alteration (Score only if Applicable)	don't then flood fugur deeply in cised Steep backs	Invertebrate habitat	5
Contain	Riparian Zone Left: 1	Right: 5	Score only if applie	cable
med of the service of		Right: 4-8 not seen during Storm event	Canopy Cover (use Manual for guidance) Manure presence Salinity Riffle embeddedness (look in riffles) Macroinvertebrates Observed (optional)	NA NA
	. (То	verall Score tal divided by number scored) ft: 4,4 Right: 4,8	Average: 4,6	6.0 Poor 1-7.4 Fair 5-8.9 Good 9.0 Excellent
_	Streamside Land Use:	Land Use	While Observ	ved in the field
	(within 100 ft. of top of bank)	Category	Left Bank	Right Bank
	Check all that apply:	Forest	Deit Bank	Right bank
		Pasture		
		Cultivated Field		
		Nursery		
		Residential	X	
		Commercial		
		Industrial		
		Other		Fallow (Scago) wetter
	Outfall Pipe 1: (Photo # and mark on s Diameter:in		ordinates	N W
	Diameter:in Headwall? YES NO Double	ite diagram) GPS Coo		N
	Diameter:in Headwall? YES NO Double Pipe Material: concrete steel PVC	culvert? YES NO	Streambank at ou	N w
	Diameter:in Headwall? YES NO Double Pipe Material: concrete steel PVC	culvert? YES NO	Streambank at ou	N w
·	Diameter:in Headwall? YES NO Double	culvert? YES NO Clay Other Din bank, out of/ under	Streambank at ou	N w
	Diameter:in Headwall? YES NO Double Pipe Material: concrete steel PVC Location of Pipe: in stream at top of bank Channel downstream eroded? YES NO	culvert? YES NO Clay Other Oin bank, out of/ under	Streambank at ou	N w
	Diameter:in Headwall? YES NO Double Pipe Material: concrete steel PVC Location of Pipe: in stream at top of bank Channel downstream eroded? YES NO Pipe gathers water from (road,) yard, farm,	culvert? YES NO Clay Other In bank, out of/ under etc.):	Streambank at ou	N w
	Diameter:	culvert? YES NO Clay Other Din bank, out of/ under etc.):	Streambank at ou	N w
- - - 1	Diameter:in Headwall? YES NO Double Pipe Material: concrete steel PVC Location of Pipe: in stream at top of bank Channel downstream eroded? YES NO Pipe gathers water from road, vard, farm, Flow appearance: clear turbid oily fo Outfall Pipe 2: (Photo #and mark on si Diameter:in	culvert? YES NO Clay Other Din bank, out of/ under etc.): // amy colored other te diagram) GPS Coor	Streambank at out bridge, other/ rdinates/	N W utfall eroded? YES NO
- 1 - (I	Diameter:in Headwall? YES NO Double Pipe Material: concrete steel PVC Location of Pipe: in stream at top of bank Channel downstream eroded? YES NO Pipe gathers water from (road, yard, farm, Flow appearance: clear turbid oily fo Outfall Pipe 2: (Photo #and mark on si Diameter:in Headwall? YES NO Double	culvert? YES NO Clay Other Din bank, out of/ under etc.): amy colored other te diagram) GPS Cool culvert? YES NO	Streambank at out bridge, other/ rdinates/	N W utfall eroded? YES NO
	Diameter:in Headwall? YES NO Double Pipe Material: concrete steel PVC Location of Pipe: in stream at top of bank Channel downstream eroded? YES NO Pipe gathers water from road, yard, farm, Flow appearance: clear turbid oily fo Outfall Pipe 2: (Photo # and mark on si Diameter: in Headwall? YES NO Double Pipe Material: concrete steel PVC	culvert? YES NO Clay Other Din bank, out of/ under etc.): // amy colored other te diagram) GPS Coo culvert? YES NO Clay Other	Streambank at out bridge, other/ rdinatesStreambank at out	N W utfall eroded? YES NO
! - ! ! ! !	Diameter:in Headwall? YES NO Double Pipe Material: concrete steel PVC Location of Pipe: in stream at top of bank Channel downstream eroded? YES NC Pipe gathers water from (road,) yard, farm, Flow appearance: clear turbid oily fo Outfall Pipe 2: (Photo #and mark on si Diameter:in Headwall? YES NO Double Pipe Material: concrete steel PVC Location of Pipe: in stream, at top of bank,	culvert? YES NO Clay Other Din bank, out of/ under etc.): amy colored other te diagram) GPS Coo culvert? YES NO Clay Other in bank, out of/ under	Streambank at out bridge, other/ rdinatesStreambank at out	N W utfall eroded? YES NO
	Diameter:in Headwall? YES NO Double Pipe Material: concrete steel PVC Location of Pipe: in stream at top of bank Channel downstream eroded? YES NO Pipe gathers water from road, yard, farm, Flow appearance: clear turbid oily fo Outfall Pipe 2: (Photo # and mark on si Diameter: in Headwall? YES NO Double Pipe Material: concrete steel PVC	culvert? YES NO Clay Other Din bank, out of/ under etc.): amy colored other te diagram) GPS Coor culvert? YES NO Clay Other in bank, out of/ under	Streambank at out bridge, other/ rdinatesStreambank at out	N W utfall eroded? YES NO

Flow appearance: clear turbid oily foamy colored other	
0 · 0 · = 0 / = =	N W —
Drainage Ditch: (Photograph # and mark on site diagram) GPS Coordinates Width of ditch ft Begins at: Ditch lining: stone, vegetation, concrete, mud, other Ditch is: Stable, Eroding Ditch Flow is: none, intermittent, steady Stream channel downstream is: stable, eroded, silted Ditch comes from:	_N _W _
Comments & Suggestions: Do you have suggestions for remediation along this reach? STOR ROADSIDE MOWING	
Given dry weather, is there any running water in nearby stormwater structures? Access to this sitehow far off of road is it? Accessible for large equipment, if necessary?	
AT ROAD ; BASY ACCOSS,	
Debris, trash, litter? NONE	

Additional comments:

Stream Visual Assessment Protocol (Modified by the Rutgers Cooperative Extension Water Resources Program, www.water.rutgers.edu)

PROJECT:	al 1	
Evaluators Name Hinesley / Kelloge Date	9/18/07	_Time_10:30
Property Owners Name (if applicable)	02	
Stream Name THIED NEXHANIC	Grid ID_B2	-89
Reach Location Alex Po		
Applicable Reference Site		
GPS Coordinates (in degrees, minutes, and seconds):		
Treather continues to any	ast 2-5 days	000
Active channel width 33 ft Dominant substrate (circle one):	boulder cobble gravel	(sand) (silt) (mud)
Site Diagram: Note direction of flow, pipes, photo locations, strea	m characteristics, stormwater in	nfrastructure, & ditches.
Not to scale named named named name n	mouse of the plant polo of the sheet of the	m reach Verstated. Walnut wat
Photo Notes: 1.	2	
3	_ 4	
5	_ 6 8	
7	_ 8 10	

Assessment Scores (1-Poor to	10-Excellent)	***(facing upstream)***	•
Channel Condition	achord who red	Pools	
Hydrologic Alteration (Score only if Applicable)	mety in the year	Invertebrate habitat	
Riparian Zone Left: 15 R	light: 1	Score only if applica	į .
	light:	Canopy Cover (use Manual for guidance)	Joshuam hase Jann Host vo Jann Host vo
Water Appearance 7		Manure presence	- Janniskananu
Nutrient Enrichment 5		Salinity	NA
Barriers to fish movement		Riffle embeddedness (look in riffles)	NA
Instream fish cover 2		Macroinvertebrates Observed (optional)	NA
(To	verall Score tal divided by number scored) eft: 3.7 Right: 2.7 39 32	6. Average: 3.0 7.	6.0 Poor 1-7.4 Fair 5-8.9 Good 9.0 Excellent
Streamside Land Use:	Land Use	While Observ	ed in the field
(within 100 ft of ton of bank)	Cotogogg	Loft Bonk	Dight Rank
(within 100 ft. of top of bank) Check all that apply:	Category Forest	Left Bank	Right Bank
	Forest Pasture	Left Bank	Right Bank
	Forest Pasture Cultivated Field	Left Bank	Right Bank
	Forest Pasture	Left Bank	Right Bank
	Forest Pasture Cultivated Field Nursery Residential Commercial		Right Bank
	Forest Pasture Cultivated Field Nursery Residential Commercial Industrial		Right Bank
Check all that apply:	Forest Pasture Cultivated Field Nursery Residential Commercial Industrial Other	lawn	large laun
	Forest Pasture Cultivated Field Nursery Residential Commercial Industrial Other	lawn pordinates	N W
Outfall Pipe 1: (Photo # and mark on Diameter: in Headwall? YES NO Doub	Forest Pasture Cultivated Field Nursery Residential Commercial Industrial Other site diagram) GPS Colle culvert? YES NO	lawn pordinates	Jarge Jaum
Outfall Pipe 1: (Photo # and mark on Diameter: in Headwall? YES NO Doub Pipe Material: concrete steel PVC	Forest Pasture Cultivated Field Nursery Residential Commercial Industrial Other site diagram) GPS Co	oordinatesStreambank at o	N W utfall eroded? YES NO
Outfall Pipe 1: (Photo # and mark on Diameter: in Headwall? YES NO Doub Pipe Material: concrete steel PVC Location of Pipe: in stream, at top of ban	Forest Pasture Cultivated Field Nursery Residential Commercial Industrial Other site diagram) GPS Co	oordinatesStreambank at o	N W utfall eroded? YES NO
Outfall Pipe 1: (Photo # and mark on Diameter: in Headwall? YES NO Doub Pipe Material: concrete steel PVC Location of Pipe: in stream, at top of ban Channel downstream eroded? YES N	Forest Pasture Cultivated Field Nursery Residential Commercial Industrial Other site diagram) GPS Co Clay Other k, in bank, out of/ under	Streambank at or	N W utfall eroded? YES NO
Outfall Pipe 1: (Photo # and mark on Diameter: in Headwall? YES NO Doub Pipe Material: concrete steel PVC Location of Pipe: in stream, at top of ban Channel downstream eroded? YES N Pipe gathers water from (road, yard, farm	Forest Pasture Cultivated Field Nursery Residential Commercial Industrial Other site diagram) GPS Co Clay Other k, in bank, out of/ under (O n, etc.):	oordinatesStreambank at oner bridge, other	N Wutfall eroded? YES NO
Outfall Pipe 1: (Photo # and mark on Diameter: in Headwall? YES NO Doub Pipe Material: concrete steel PVC Location of Pipe: in stream, at top of ban Channel downstream eroded? YES N Pipe gathers water from (road, yard, farm Flow appearance: clear turbid oily	Forest Pasture Cultivated Field Nursery Residential Commercial Industrial Other site diagram) GPS Co Clay Other k, in bank, out of/ under IO n, etc.): foamy colored oth	Streambank at order bridge, other	N W utfall eroded? YES NO
Outfall Pipe 1: (Photo # and mark on Diameter: in Headwall? YES NO Doub Pipe Material: concrete steel PVC Location of Pipe: in stream, at top of ban Channel downstream eroded? YES N Pipe gathers water from (road, yard, farm	Forest Pasture Cultivated Field Nursery Residential Commercial Industrial Other site diagram) GPS Co Clay Other k, in bank, out of/ under IO n, etc.): foamy colored oth	Streambank at order bridge, other	N W utfall eroded? YES NO
Outfall Pipe 1: (Photo # and mark on Diameter: in Headwall? YES NO Doub Pipe Material: concrete steel PVC Location of Pipe: in stream, at top of ban Channel downstream eroded? YES N Pipe gathers water from (road, yard, farm Flow appearance: clear turbid oily Outfall Pipe 2: (Photo # and mark on Diameter: in	Forest Pasture Cultivated Field Nursery Residential Commercial Industrial Other site diagram) GPS Co Clay Other k, in bank, out of/ under IO n, etc.): foamy colored oth	Streambank at order bridge, other	N W utfall eroded? YES NO
Outfall Pipe 1: (Photo # and mark on Diameter: in Headwall? YES NO Doub Pipe Material: concrete steel PVC Location of Pipe: in stream, at top of ban Channel downstream eroded? YES N Pipe gathers water from (road, yard, farm Flow appearance: clear turbid oily Outfall Pipe 2: (Photo # and mark on Diameter: in Headwall? YES NO Doub Pipe Material: concrete steel PVC	Forest Pasture Cultivated Field Nursery Residential Commercial Industrial Other Site diagram) GPS Co Clay Other k, in bank, out of/ under Comy colored othesite diagram) GPS Co le culvert? YES NO Clay Other Clay Other Clay Other Othesite diagram) GPS Co Clay Other	Streambank at of the streamban	N W utfall eroded? YES NO wutfall eroded? YES NO wutfall eroded? YES NO
Outfall Pipe 1: (Photo # and mark on Diameter: in Headwall? YES NO Doub Pipe Material: concrete steel PVC Location of Pipe: in stream, at top of ban Channel downstream eroded? YES N Pipe gathers water from (road, yard, farm Flow appearance: clear turbid oily to Outfall Pipe 2: (Photo # and mark on Diameter: in Headwall? YES NO Doub Pipe Material: concrete steel PVC Location of Pipe: in stream, at top of ban	Forest Pasture Cultivated Field Nursery Residential Commercial Industrial Other Site diagram) GPS Co Clay Other k, in bank, out of/ under foamy colored oth site diagram) GPS Co Clay Other k, in bank, out of/ under colored oth site diagram) GPS Co Clay Other k, in bank, out of/ under colored oth site diagram) GPS Co	Streambank at of the streamban	N W utfall eroded? YES NO wutfall eroded? YES NO wutfall eroded? YES NO
Outfall Pipe 1: (Photo # and mark on Diameter: in Headwall? YES NO Doub Pipe Material: concrete steel PVC Location of Pipe: in stream, at top of ban Channel downstream eroded? YES N Pipe gathers water from (road, yard, farm Flow appearance: clear turbid oily Outfall Pipe 2: (Photo # and mark on Diameter: in Headwall? YES NO Doub Pipe Material: concrete steel PVC	Forest Pasture Cultivated Field Nursery Residential Commercial Industrial Other Site diagram) GPS Co Clay Other k, in bank, out of/ under foamy colored oth site diagram) GPS Co le culvert? YES NO Clay Other k, in bank, out of/ under colored oth site diagram) GPS Co Clay Other k, in bank, out of/ under colored oth site diagram) GPS Co	Streambank at order bridge, other	N W utfall eroded? YES NO wutfall eroded? YES NO wutfall eroded? YES NO

Flow appearance: clear turbid oily foamy colored other	
Drainage Ditch: (Photograph # and mark on site diagram) GPS CoordinatesN Width of ditchft	-
Drainage Ditch: (Photograph # and mark on site diagram) GPS CoordinatesN Width of ditchft Begins at: Ditch lining: stone, vegetation, concrete, mud, other Ditch is: Stable, Eroding Ditch Flow is: none, intermittent, steady Stream channel downstream is: stable, eroded, silted Ditch comes from:	
Comments & Suggestions: Do you have suggestions for remediation along this reach?	
Given dry weather, is there any running water in nearby stormwater structures?	
Access to this sitehow far off of road is it? Accessible for large equipment, if necessary?	
Debris, trash, litter?	
Additional comments:	

Stream Visual Assessment Protocol

(Modified by the Rutgers Cooperative Extension Water Resources Program, <u>www.water.rutgers.edu</u>)

PROJECT:
Evaluators Name Perman Tuayee Date 9/19
Property Owners Name (if applicable)
Stream Name Tures Strawn Grid ID B3-70
Reach Location_
Applicable Reference Site
GPS Coordinates (in degrees, minutes, and seconds):
Weather conditions today Fall Past 2-5 days Fall mud
Active channel width 50 n Dominant substrate (circle one).
Site Diagram: Note direction of flow, pipes, photo locations, stream characteristics, stormwater infrastructure, & ditches.
RIE 579 0 3
LETT
Seminary of the service of the servi
Photo Notes: 1. U/S from bridge 2. D/S from bridge 3. & D/S grassy low bank 4. 5. 6. 8

Assessment Scores (1-Poor	to 10-Excellent)	*** (facing upstream)**	*
Channel Condition	10	Pools	7
Hydrologic Alteration (Score only if Applicable)	10	Invertebrate habitat	8
Riparian Zone Left: 10	Right: 9	Score only if applic	cable
Bank Stability Left: 5	Right: 5	Canopy Cover (use Manual for guidance) Manure presence	7 NA
Nutrient Enrichment	8	Salinity	
Barriers to fish movement [Instream fish cover [8	Riffle embeddedness (look in riffles) Macroinvertebrates Observed (optional)	8 Chirty 9:36
	Overall Score (Total divided by number score) Left: 8.5 Right: 8.4	Average: 84	< 6.0 Poor 6.1-7.4 Fair 7.5-8.9 Good > 9.0 Excellent
Streamside Land Use:	Land Use	While Obse	rved in the field
(within 100 ft. of top of bank)	Category	Left Bank	Right Bank
Check all that apply:	Forest		
	Pasture Cultivated Field		
	Nursery		
	Residential		
	Commercial		
	Industrial		
	Other		
Outfall Pipe 1: (Photo # and ma		Coordinates	N
Diameter:in			W

Outfall Pipe 1: (Photo # and mark on site diagram) GPS Coordinate Diameter: in	W
Headwall? YES NO Double culvert? YES NO	Streambank at outfall eroded? YES NO
Pipe Material: concrete steel PVC Clay Other	
Location of Pipe: in stream, at top of bank, in bank, out of/ under bridge	, other
Channel downstream eroded? YES NO	
Pipe gathers water from (road, yard, farm, etc.):	
Flow appearance: clear turbid oily foamy colored other	
Outfall Pipe 2: (Photo #and mark on site diagram) GPS Coordinate	sN
Diameter: in	W
Headwall? YES NO Double culvert? YES NO	Streambank at outfall eroded? YES No
Pipe Material: concrete steel PVC Clay Other	
Location of Pipe: in stream, at top of bank, in bank, out of/ under bridge	, other
THE STEEL NO.	
Channel downstream eroded? YES NO	

Flow appearance: clear turbid oily foamy colored other	
Drainage Ditch: (Photograph # and mark on site diagram) GPS Coordinates Width of ditch ft Begins at: Ditch lining: stone, vegetation, concrete, mu Ditch is: Stable, Eroding Ditch Flow is: none, intermit Stream channel downstream is: stable, eroded, silted Flow is: clear, cloudy, oily, to Ditch comes from:	tent, steady
Drainage Ditch: (Photograph # and mark on site diagram) GPS Coordinates Width of ditch ft Begins at: Ditch lining: stone, vegetation, concrete, mud, othe Ditch is: Stable, Eroding Ditch Flow is: none, intermit Stream channel downstream is: stable, eroded, silted Flow is: clear, cloudy, oily, ft Ditch comes from:	tent, steady
Comments & Suggestions: Do you have suggestions for remediation along this reach?	
Given dry weather, is there any running water in nearby stormwater structures? Access to this sitehow far off of road is it? Accessible for large equipment, if necessible for large equipment e	•
Debris, trash, litter?	9
Additional comments: 579 Bridge scheduled for replace Current bridge dates for 1838	ollowy—

Stream Visual Assessment Protocol (Modified by the Rutgers Cooperative Extension Water Resources Program, <u>www.water.rutgers.edu</u>)

PROJECT:	
Evaluators Name Pat Strey Marianus Romallopate 10 6007 Time 12145 pm	
Property Owners Name (if applicable)	
Stream Name Crid ID B3 -112	
Reach Location EVERITTS IZU	
Applicable Reference Site	
GPS Coordinates (in degrees, minutes, and seconds):	ا المسال
Weather conditions today Sunry 800 Past 2-5 days Sunry 850 - Extended drow	Jud
Active channel width 35 ft Dominant substrate (circle one): boulder (cobble) gravel sand silt mud	
Site Diagram: Note direction of flow, pipes, photo locations, stream characteristics, stormwater infrastructure, & ditches.	
han light Some in monte	
hayfield & Som the mount	
, uflow	
outflow)	
grassy	
त्य विकास	
Post.	
Thow Street, and the street of	
Coutflow 2	
Storm	
· · · · · · · · · · · · · · · · · · ·	
residential	
Photo Notes: 1	
34	
56 78	
910	

	Assessment Scores (1-Po	oor to 10-Excellent)	*** (facing upstream) **	**
<u>. </u>	Channel Condition	IC]	Pools	9
	Hydrologic Alteration (Score only if Applicable)	8	Invertebrate habitat	was to the
	Riparian Zone Left: 8	Right: 8	Score only if appli	cable
	Bank Stability Left: 7	Right: 7	Canopy Cover (use Manual for guidance) Manure presence	
	Water Appearance		Wiantire presence	MA
	Nutrient Enrichment	5	Salinity	
	Barriers to fish movement Instream fish cover	10	Riffle embeddedness (look in riffles) Macroinvertebrates Observed (optional)	onails,
		Overall Score (Total divided by number score Left: 8.2 Right: 8. 74 70	2 Average: <2	< 6.0 Poor 6.1-7.4 Fair 7.5-8.9 Good > 9.0 Excellent
	- ·-·-·			
	Streamside Land Use:	Land Use		erved in the field
· <u> </u>	(within 100 ft. of top of bank)	Category	While Obse Left Bank	erved in the field Right Bank
	· -			Right Bank
Whitetham	(within 100 ft. of top of bank) Check all that apply:	Forest Pasture Cultivated Field Nursery Residential Commercial Industrial Other	Left Bank	Right Bank hay ch
right bom	(within 100 ft. of top of bank) Check all that apply: Outfall Pipe 1: (Photo # and Diameter: \S'' \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	Forest Pasture Cultivated Field Nursery Residential Commercial Industrial Other Double culvert? YES Pel PVC Clay Other Cop of bank, in bank, out of/ universe of bank, out of/ universe of bank, out of/ universe of bank, out of	Coordinates Streambank a nder bridge, other	Right Bank Aug Ch N W t outfall eroded? YES NO
right bon cellorid	(within 100 ft. of top of bank) Check all that apply: Outfall Pipe 1: (Photo # and Diameter: \S'' \ Outfall \) in Headwall? (YES) NO Pipe Material: concrete stee Location of Pipe: in stream, at the Channel downstream eroded?	Forest Pasture Cultivated Field Nursery Residential Commercial Industrial Other Double culvert? YES PS	Coordinates O Streambank a nder bridge, other Other NIA Coordinates NO Streambank a	Right Bank Aug Ch N W t outfall eroded? YES NO

Flow appearance: clear turbid oily foamy colored other	
Drainage Ditch: (Photograph # and mark on site diagram) GPS CoordinatesN Width of ditchft	
Diamage Diene (I note graph " take make on bite wing-sim)	N W
Comments & Suggestions: Do you have suggestions for remediation along this reach? Given dry weather, is there any running water in nearby stormwater structures?	
Access to this sitehow far off of road is it? Accessible for large equipment, if necessary?	
Debris, trash, litter? - tive The stream scattered bottles a caus Additional comments:	
Plant project printelle has a green under the	دين



Stream Visual Assessment Protocol (Modified by the Rutgers Cooperative Extension Water Resources Program, www.water.rutgers.edu)

PROJECT:
Evaluators Name Hinesley Kellogs Date 9/18/07 Time 1110
Property Owners Name (if applicable)
Stream Name THIED WESHANIC Grid ID B3-115
Reach Location Culvert 0433 , YNED Pd.
Applicable Reference Site
GPS Coordinates (in degrees, minutes, and seconds):
Weather conditions todayPast 2-5 days
Active channel width 36 ft Dominant substrate (circle one): boulder cobble gravel sand silt mud
Site Diagram: Note direction of flow, pipes, photo locations, stream characteristics, stormwater infrastructure, & ditches.
boddens + coldder in sheam kutnet in bed makerles forest forest less administration make of the shear administration make of the shear familiar beautiful familiar fa
Photo Notes: 1. 1 ownsheam Ram rand mossing 2. Upsheam
34
56 78
9. 10.

	Assessment Scores (1-Poor	to 10-Excellent)	***(facing upstream)*	k*
*****	Channel Condition	5 is promoting incision	Pools	2
	Hydrologic Alteration (Score only if Applicable)	5 accus every 1-2 years	Invertebrate habitat	NA
	Riparian Zone Left: 8	Right: 8	Score only if appli	cable
المرابع على المرابع مرابع عمامه مرابع المرابع	Bank Stability Left: 5	Right: 6	Canopy Cover (use Manual for guidance)	10
من العظمة المنافعة المنافعة المنافعة	Water Appearance	poor uselar quality is partly related to culvent disripting fla	Manure presence	
	Nutrient Enrichment	NA	Salinity	NA
	Barriers to fish movement	O calvert is the	Riffle embeddedness	NA
	Instream fish cover	0 porthuear ro	(look in riffles) Macroinvertebrates Observed (optional)	NA
		Overall Score (Total divided by number scored) Left: 5.7 Right: 5.9	6	6.0 Poor 0.1-7.4 Fair 0.5-8.9 Good
_		57 58		9.0 Excellent
er Ne	Streamside Land Use:	Land Use	While Obser	ved in the field
* said	(within 100 ft. of top of bank) Check all that apply:	Category	Left Bank	Right Bank
	Check all that apply:	Forest	Left Bank	Right Bank
			Left Bank	Right Bank
		Forest Pasture Cultivated Field Nursery	Left Bank	Right Bank
		Forest Pasture Cultivated Field Nursery Residential	Left Bank X	Right Bank
		Forest Pasture Cultivated Field Nursery Residential Commercial	Left Bank X	Right Bank
		Forest Pasture Cultivated Field Nursery Residential	Left Bank X	Right Bank
	Check all that apply: Outfall Pipe 1: (Photo # and mark	Forest Pasture Cultivated Field Nursery Residential Commercial Industrial Other	X	X X
	Outfall Pipe 1: (Photo # and mark Diameter: in	Forest Pasture Cultivated Field Nursery Residential Commercial Industrial Other on site diagram) GPS Control	ordinates	N W
	Outfall Pipe 1: (Photo # and mark Diameter: in Headwall? YES NO D	Forest Pasture Cultivated Field Nursery Residential Commercial Industrial Other con site diagram) GPS Control Ouble culvert? YES NO	ordinates	X X
	Outfall Pipe 1: (Photo # and mark Diameter: in Headwall? YES NO D Pipe Material: concrete steel F	Forest Pasture Cultivated Field Nursery Residential Commercial Industrial Other con site diagram) GPS Control Ouble culvert? YES NO	ordinates Streambank at c	N W outfall eroded? YES NO
	Outfall Pipe 1: (Photo # and mark Diameter: in Headwall? YES NO Description Description of Pipe: in stream, at top of	Forest Pasture Cultivated Field Nursery Residential Commercial Industrial Other on site diagram) GPS Community Ouble culvert? YES NO PVC Clay Other bank, in bank, out of/ under	ordinates Streambank at c	N W outfall eroded? YES NO
	Outfall Pipe 1: (Photo # and mark Diameter: in Headwall? YES NO Description Description of Pipe Material: concrete steel For Location of Pipe: in stream, at top of Channel downstream eroded? YES	Forest Pasture Cultivated Field Nursery Residential Commercial Industrial Other Con site diagram) GPS Control OVC Clay Other bank, in bank, out of/ under	ordinates Streambank at corr bridge, other	N W Outfall eroded? YES NO
	Outfall Pipe 1: (Photo # and mark Diameter: in Headwall? YES NO Description Description of Pipe Material: concrete steel For Location of Pipe: in stream, at top of Channel downstream eroded? YES	Forest Pasture Cultivated Field Nursery Residential Commercial Industrial Other Con site diagram) GPS Control OVC Clay Other bank, in bank, out of/ under	ordinates Streambank at corr bridge, other	N W Outfall eroded? YES NO
	Outfall Pipe 1: (Photo # and mark Diameter: in Headwall? YES NO Description Description of Pipe Material: concrete steel For Location of Pipe: in stream, at top of Channel downstream eroded? YES	Forest Pasture Cultivated Field Nursery Residential Commercial Industrial Other Con site diagram) GPS Control OVC Clay Other bank, in bank, out of/ under	ordinates Streambank at corr bridge, other	N W outfall eroded? YES NO
	Outfall Pipe 1: (Photo # and mark Diameter: in Headwall? YES NO Diameterial: concrete steel F Location of Pipe: in stream, at top of Channel downstream eroded? YES	Forest Pasture Cultivated Field Nursery Residential Commercial Industrial Other Con site diagram) GPS Control OVC Clay Other bank, in bank, out of/ under	ordinates Streambank at corr bridge, other	W outfall eroded? YES NO
=	Outfall Pipe 1: (Photo # and mark Diameter: in Headwall? YES NO Description Description of Pipe: in stream, at top of Channel downstream eroded? YES Pipe gathers water from (road, yard, the Flow appearance: clear turbid oils Outfall Pipe 2: (Photo # and mark Diameter: in	Forest Pasture Cultivated Field Nursery Residential Commercial Industrial Other Con site diagram) GPS Concept	Streambank at comparison of the streambank at comparison of th	N W outfall eroded? YES NO
	Outfall Pipe 1: (Photo # and mark Diameter: in Headwall? YES NO Description Description of Pipe: in stream, at top of Channel downstream eroded? YES Pipe gathers water from (road, yard, the Flow appearance: clear turbid oils Outfall Pipe 2: (Photo # and mark Diameter: in	Forest Pasture Cultivated Field Nursery Residential Commercial Industrial Other Ton site diagram) GPS Control OVC Clay Other bank, in bank, out of/ under NO Farm, etc.): y foamy colored other on site diagram) GPS Control Over Control Over Clay Other bank, in bank, out of/ under NO Farm, etc.): y foamy colored other on site diagram) GPS Control Over Color Ove	Streambank at comparison of the streambank at comparison of th	W outfall eroded? YES NO
-	Outfall Pipe 1: (Photo # and mark Diameter: in Headwall? YES NO Description Description of Pipe: in stream, at top of Channel downstream eroded? YES Pipe gathers water from (road, yard, reflow appearance: clear turbid oils Outfall Pipe 2: (Photo # and mark Diameter: in Headwall? YES NO Description Descri	Forest Pasture Cultivated Field Nursery Residential Commercial Industrial Other To on site diagram) GPS Composite C	Streambank at of the streamban	N W outfall eroded? YES NO W utfall eroded? YES NO
	Outfall Pipe 1: (Photo # and mark Diameter: in Headwall? YES NO Description Description of Pipe Material: concrete steel For Location of Pipe: in stream, at top of Channel downstream eroded? YES Pipe gathers water from (road, yard, Flow appearance: clear turbid oils Outfall Pipe 2: (Photo # and mark Diameter: in Headwall? YES NO Description of Descript	Forest Pasture Cultivated Field Nursery Residential Commercial Industrial Other Ton site diagram) GPS Control OVC Clay Other bank, in bank, out of/ under NO Farm, etc.): y foamy colored other on site diagram) GPS Control OVC Clay Other bank, in bank, out of/ under OVC Clay Other on site diagram) GPS Control OVC Clay Other bank, in bank, out of/ under	Streambank at of the streamban	Woutfall eroded? YES NO N Wutfall eroded? YES NO
÷	Outfall Pipe 1: (Photo # and mark Diameter: in Headwall? YES NO Description Description of Pipe in stream, at top of Channel downstream eroded? YES Pipe gathers water from (road, yard, Flow appearance: clear turbid oils Outfall Pipe 2: (Photo # and mark Diameter: in Headwall? YES NO Description Description of Pipe in stream, at top of Location of Pipe: in stream, at top of	Forest Pasture Cultivated Field Nursery Residential Commercial Industrial Other To on site diagram) GPS Composite C	Streambank at of the streamban	N W outfall eroded? YES NO W utfall eroded? YES NO

Flow appearance: clear turbid oily foamy colored other	
Width of diag.	 N W
Drainage Ditch: (Photograph # and mark on site diagram) GPS Coordinates Width of ditch ft Begins at: Ditch lining: stone, vegetation, concrete, mud, other Ditch is: Stable, Eroding Ditch Flow is: none, intermittent, steady Stream channel downstream is: stable, eroded, silted Ditch comes from:	N W
Comments & Suggestions: Do you have suggestions for remediation along this reach? Given dry weather, is there any running water in nearby stormwater structures?	
Access to this sitehow far off of road is it? Accessible for large equipment, if necessary? Debris, trash, litter?	
Additional comments: This reach is representative of a headwater tributary. Upsheam of the road, the lemantation from music to wet species is evident. There is no water into the Channel at the current time. However, willow, Birch + see fluiding. The fluiding. The appears to be premoting incision downstream of the road crossing. Culvert is 48 inches in diameter and 32 feet lay. Suggest eplacement whom bottom culvert when near is	- Les

