

LAND & WATER RESOURCES DIVISION Environmental Quality Department

PHONE: (919) 545-8394

#### Website: www.chathamnc.org Riparian Buffer Review Application SURFACE WATER IDENTIFICATION REQUEST Use only for projects GREATER THAN 25 acres and GREATER THAN 5 lots\*\* Tract Information: 7487 Parcel Identification Number(s) (AKPAR) 202 Total Acreage (area to be reviewed must be greater than 25 acres): Total number of new lots: UMAMED trib. to Jordan Lake Jordon Lak Watershed District (and name of creek if known): Property Owner: S MOD RV 500 50000 Location / Physical Address of Tract: HWY Driving Directions from Pittsboro: 101 site Kaad ar writerse OF Subdivision Name (if applicable): **Owner's / Agent's Contact Information:** JAIN ARDEN Name: 919 771 8716 (w) (c)Contact Phone Numbers: (h) Swainco.com VSWAIN @ E-mail: COM Mailing Address: BOX 5689 27512 NC 0 Please check one: I would like to pick up the completed Riparian Buffer Review at the County Office I would like the completed Riparian Buffer Review mailed to me I would like the completed Riparian Buffer Review e-mailed to me

Please include with this request:

Copy of Plat Surface Water Classification Scoring Sheets, Wetland Determination Data Forms & Photos Signed Right to Enter Property Form

Signed Owner's Agent Designation Form (if applicable)

Fee (TBD)

I have read and understand the regulations of the Watershed Protection Ordinance, Section 304, and I agree to adhere to these associated policies and guidelines herein. Owner/Agent Signature:

Applications can be mailed to: Planning Dept., PO Box 54, Pittsboro, NC 27312 For Questions, please contact: Lynn Richardson at 919-542-8207



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PHONE: (919) 545-8204

Website: www.chathamnc.org

### AUTHORIZED AGENT FOR LEGAL REPRESENTATION FORM

PROPERTY LEGAL DESCRIPTION:
LOT NO PARCEL ID (PIN) PARCEL SIZE_COL GC
STREET ADDRESS: Seaforth Road P.H. Bors NC 27312
Please print: Property Owner: TCTT Timber Company
Property Owner:
The undersigned, owner(s) of the above described property, do hereby authorize <u>David Gainey</u> , of <u>Soil + Environmental Consultants</u> (Name of consulting firm if applicable)
to act on my/our behalf and take all actions, I/we could have taken if present, necessary for the processing, issuance and acceptance of reviews, inspections, or permits and any and all standard and special conditions attached to these approvals. The activities authorized include the following ( <b>initial all that apply</b> ):Building PermitZoning Compliance PermitsFloodplain DeterminationSoil Erosion and Sedimentation Control PermitPermits to install, repair, evaluate, or expand onsite wastewater system(s)Evaluation/inspection/permitting of a private drinking water well(s)Riparian Buffer Review pursuant to §304 of the Chatham County Watershed Protection OrdinanceOther: Property Owner's Address (if different than property above):
Owner Telephone: Email:
We hereby certify the above information submitted in this application is true and accurate to the best of our knowledge.
Owner Authorized Signature Agent Authorized Signature
Date: Date:
Applications can be mailed to: Planning Dept., PO Box 54, Pittsboro, NC 27312 For Questions, please contact: Lynn Richardson at 919-542-8207

Revised 3/2014



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Authorization to Enter Property Form
Date: 4815
PARCEL No. (AKPAR) 17487
I, (print name) TC + I Timber Company, as owner of the property
described above, or as a representative of the owner(s) do hereby convey permission to Chatham County
staff to enter the property at their convenience to conduct a surface water identification (SWID)
necessary to determine whether or not water features on my property are subject to the riparian buffer
regulations described in Section 304 of the Chatham County Watershed Protection Ordinance. The SWID
will be public record and on file at the Planning and Environmental Quality Departments, and may be
requested in the future for review by interested parties.

I understand that stream delineations for the property listed above will be made by County staff only once and that if future subdivisions are proposed within this property boundary, it will require a surface water identification by a private consultant at the property owner's expense.

(Print Owner's Name)

(Print Authorized Agent Name)

(Signature of Owner)

(Signature of Authorized Agent)

(Date)



"G" Start Intermittent Ch / Potential ephemeral to Chatham County

## Legend

## Streams

- ----- Intermittent Streams
  - Jurisdictional Linear Wetland
- Perennial Streams
  - **Evaluation Limits**
  - --- 2' Contour

Project Numb	<sup>ber:</sup> 10719.W1	Wetland Sketch Map (Post USACE)
Project Mana	<sup>ger:</sup> SB	Seaforth Site
Scale:	1" = 250'	Source:
Date:	4/9/15	Chatham County GIS & nconemap.com

)	112.5 225	450	675	900
		Feet		



Soil & Environmental Consultants, PA 8412 Falls of Neuse Road, Suite 104, Raleigh, NC 27615 • Phone: (919) 846-5900 • Fax: (919) 846-9467 sandec.com





ate: 1/1-1X-1/1	Project/Site: 5	enforth 10719	Latitude:	1.1
	County: Class	the man	Longitude:	
otal Points: tream is at least intermittent	Stream Determin Ephemeral Inter	nation (circle one) mittent Perennial	Other e.g. Quad Name:	
≥ 19 or perennina in 2 30			Mederato	Strong
Geomorphology (Subtotal = 415)	Absent	Weak	Moderate	3
<sup>a</sup> Continuity of channel bed and bank	0	<u> </u>	2	3
Sinuosity of channel along thalweg	0	(1)	2	3
In-channel structure: ex. riffle-pool, step-pool,	0		2	3
ripple-pool sequence	-	0	2	3
Particle size of stream substrate	0	1	2	3
Active/relict floodplain		4	2	3
. Depositional bars or benches	- Fd -		2	3
. Recent alluvial deposits	0		6	3
Headcuts	-	1	1	15
. Grade control	0		1	1.5
0. Natural valley	0 0	0.5	Voc	= 3
<ol> <li>Second or greater order channel artificial ditches are not rated; see discussions in manual</li> </ol>				
. Hydrology (Subtotal = 1.5 )		1	2	3
2. Presence of Baseflow			2	3
virizi y' ideria	0	1	(SE)	0
1. Leaf litter	15			1.5
5. Sediment on plants or debris	0 +	0.5	(h)	1.5
6. Organie debris lines or piles	T T	- )0.5	Yes	= 3
<ol><li>Soil-based evidence of high water table?</li></ol>	INQ	=0	100	
C. Biology (Subtotal =)	1 1 1 1 1		4	(8)
8. Fibrous roots in streambed	3	2	(2)	0
9. Rooted upland plants in streambed	3	2	0	2
0 Macrobenthos (note diversity and abundance)	00	1	2	3
O. Indersteine	B	1	2	1.5
1. Aquatic Mollusks		0.5	1	1.5
1. Aquatic Mollusks 2. Fish	1 Alexandre		1	1.0
1. Aquatic Mollusks 2. Fish 3. Cravfish	Q	0.5		4 5
Aquatic Mollusks     Araphibians		0.5	1	1.5
1. Aquatic Mollusks 2. Fish 3. Crayfish 4. Amphibians 5. Aloge	8	0.5 0.5 0.5	1	1.5
1. Aquatic Mollusks 2. Fish 3. Crayfish 4. Amphibians 5. Algae 6. Wetland plants in streambed		0.5 0.5 FACW = 0.75; OB	1 1 L = 1.5 Other = (	1.5 1.5 0
Aquatic Mollusks     Arrow Sector Secto	ds. See p. 35 of manua	0.5 0.5 FACW = 0.75; OB	1 1 L = 1.5 Other = (	1.5 1.5 0

Evaluator:         Cit/L-0_LTANCENT         County:         CHARLANCENT         County:         CHARLANCENT         Complete           Total Points:         Total Points:         Explorement of Explorement	Evaluator:         Study Commentant         Commentant         Commentant         Compitude:           2: 100         Stream is a reference         14,5         Stream is a reference         Other         Stream is a reference         Other           2: 100         Stream is a reference         14,5         Stream is a reference         Other         Stream is a reference         Other         Stream is a reference         Stream is a reference         Stream is a reference         Other         Stream is a reference         Stream is reference         Stream is reference <t< th=""><th>Evaluator:       Sitc - 3. ZARZEX(I       County:       CHATRIAN         Total Points:       Stream Determination (circle one)       Stream Determination (circle one)         Stream is at least intermittent       L       L         Stream is at least intermittent       L       L         A. Geomorphology (Subtotal =       D       Absent       Weak         1<sup>a</sup> : 19 or perennial if 2 30*       14       Absent       Weak         1<sup>a</sup> : 10 or perennial if 2 30*       0       1       0         1<sup>a</sup> : 10 or perennial if 2 30*       0       1       0         1<sup>a</sup> : 10 or perennial if 2 30*       0       1       0         1<sup>a</sup> : 10 or perennial if 2 30*       0       1       0       1         1<sup>a</sup> : Continuity of channel bed and bank       0       0       1       0       1         1<sup>a</sup> : In-channel structure: ex. riffle-pool, step-pool, ripple-pool sequence       0       1       0       1       0       1         3. In-channel structure: ex. riffle-pool, step-pool, ripple-pool sequence       0       1       0       1       0       1       0       1       0       1       0       1       0       1       0       1       0       1       0       1       0</th><th>Longitude: Other e.g. Quad Name: 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2</th><th>Strong 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3</th></t<>	Evaluator:       Sitc - 3. ZARZEX(I       County:       CHATRIAN         Total Points:       Stream Determination (circle one)       Stream Determination (circle one)         Stream is at least intermittent       L       L         Stream is at least intermittent       L       L         A. Geomorphology (Subtotal =       D       Absent       Weak         1 <sup>a</sup> : 19 or perennial if 2 30*       14       Absent       Weak         1 <sup>a</sup> : 10 or perennial if 2 30*       0       1       0         1 <sup>a</sup> : 10 or perennial if 2 30*       0       1       0         1 <sup>a</sup> : 10 or perennial if 2 30*       0       1       0         1 <sup>a</sup> : 10 or perennial if 2 30*       0       1       0       1         1 <sup>a</sup> : Continuity of channel bed and bank       0       0       1       0       1         1 <sup>a</sup> : In-channel structure: ex. riffle-pool, step-pool, ripple-pool sequence       0       1       0       1       0       1         3. In-channel structure: ex. riffle-pool, step-pool, ripple-pool sequence       0       1       0       1       0       1       0       1       0       1       0       1       0       1       0       1       0       1       0       1       0	Longitude: Other e.g. Quad Name: 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	Strong 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3
Total Points: Stream Determination (Ercle one) Stream at Resemblar 2.000 Stream at Resemblar 2.0000 Stream at Resemblar 2.0000 Stream at Resemblar 2.0000 Stream at Resemblar 2.0000 Stream at Resemblar 2.00000 Stream at Resemblar Resemblar 2.00000 Stream at Resemblar 2.00	Total Points:         Total Points:         Current Stremment (Circle one)         Current Stremment (Circle one)         Current Stremment (Circle one)         Current Stremment (Circle one)         Current (Circle one)         Current(Circle one)         Current (Circle one) </th <th>Total Points:       Yeam Determination (circle one)         Stream is at least intermittent       Ephemeral Intermittent         Stream is at least intermittent       I.         Stream is at least intermittent       Ephemeral Intermittent         A. Geomorphology (Subtotal =       IO         1<sup>a</sup>. Continuity of channel bed and bank       0         1<sup>a</sup>. Continuity of channel along thalweg       0         3. in-channel structure: ex. riffle-pool, step-pool, ripple-pool sequence       0         4. Particle size of stream substrate       0         6. Depositional bars or benches       0</th> <th>Other e.g. Quad Name: 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2</th> <th>Strong 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3</th>	Total Points:       Yeam Determination (circle one)         Stream is at least intermittent       Ephemeral Intermittent         Stream is at least intermittent       I.         Stream is at least intermittent       Ephemeral Intermittent         A. Geomorphology (Subtotal =       IO         1 <sup>a</sup> . Continuity of channel bed and bank       0         1 <sup>a</sup> . Continuity of channel along thalweg       0         3. in-channel structure: ex. riffle-pool, step-pool, ripple-pool sequence       0         4. Particle size of stream substrate       0         6. Depositional bars or benches       0	Other e.g. Quad Name: 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	Strong 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3
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1* Continuity of channel bed and bank     0     0     0     2     3       2. Sinuceity of channel bed and bank     0     0     0     2     3       7. Focularity of channel bed and bank     0     0     0     2     3       7. In-channel structure:     1. In-channel structure:     2     3     3       6. Activelie/foodbing structure:     0     0     0     2     3       7. Recent alluvial deposits     0     0     0     2     3       8. Headcuts     0     0     0     0     1     1       9. Grade ordiner     0     0     0     0     1     1       10. Nature valie/     0     0     0     0     0     0       11. Second of greater order channel     0     0     0     1     1       11. Second of greater order channel     0     0     1     1     1       13. Ino oxidizing baseflow     1     1     0     1     1     1       13. Ino oxidizing baseflow     1     1     0     1     1     1       14. Leaf filter     1     1     0     1     1     1       13. Ino oxidizing baseflow     1     1     0     1	$\widehat{1}$ Continuity of channel bed and bank       0 $\widehat{1}$ 2       3         2       Sincestly of channel along thalweg       0 $\widehat{1}$ 2       3         3       inpleperoid structure:       infleperoid structure:       2       3         1       inpleperoid structure:       0 $\widehat{1}$ 2       3         2       Sincestly of channel along thalweg       0 $\widehat{1}$ 2       3         3       The denotes       0 $\widehat{1}$ 2       3       3         4       Fandicie size of stream substrates       0 $\widehat{1}$ 2       3       3         7       Recent alluvial deposits       0 $\widehat{1}$ 0 $\widehat{1}$ 1       1         6       Deposition base of benches       0 $\widehat{0}$ 0 $\widehat{1}$ 1       1	1 <sup>a</sup> . Continuity of channel bed and bank       0       1         2. Sinuosity of channel along thalweg       0       1         3. In-channel structure: ex. riffle-pool, step-pool, ripple-pool sequence       0       1         4. Particle size of stream substrate       0       1         5. Active/relict floodplain       0       1         6. Depositional bars or benches       0       1		3.5 3.5 3.5 3.5 3.5 3.3 3.3 3.3 3.3 3.3
2. Shuosify of charmel along thelweg       0       0       0       2       3         3. In-channel structure: ex. iffle-pool, step-pool, ripble step substrate       0       0       0       2       3         3. In-channel structure: ex. iffle-pool, step-pool, ripble step of sequences       0       0       0       2       3         6. Active/relict floodplain       0       0       0       1       2       3         6. Depositional bars or benches       0       0       0       1       1       5       3         6. Depositional bars or benches       0       0       0       1       1       5       3       3         8. Headouts       0       0       0       0       0       1       1       5       3       3         9. Grade control       0       0       0       0       0       1       1       5       3       3         11. Natural valley.       No = 10       0       0       0       0       1       1       5       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3 <t< td=""><td>2. Sinuasity of charmel along theilweg       0       0       0       2       3         3. In-channel structure:       a. Finchenel along theilweg       0       0       2       3         3. In-channel structure:       a. Finchenel along theilweg       0       0       2       3         5. Activerentic flooodplain       0       0       0       2       3       3         6. Depositional bars or benches       0       0       0       1       1       5       3         6. Depositional bars or benches       0       0       0       0       1       1       5       3       3         9. Grade control       0       0       0       0       0       1       1       5       3       3         9. Grade control       0       0       0       0       0       1       5       3       3       3       4       <t< td=""><td>2. Sinuosity of channel along thalweg       0       1         3. In-channel structure: ex. riffle-pool, step-pool, ripple-pool sequence       0       1         4. Particle size of stream substrate       0       1         5. Active/relict floodplain       0       1         6. Depositional bars or benches       0       1</td><td></td><td>3.5 1.5 1.5</td></t<></td></t<>	2. Sinuasity of charmel along theilweg       0       0       0       2       3         3. In-channel structure:       a. Finchenel along theilweg       0       0       2       3         3. In-channel structure:       a. Finchenel along theilweg       0       0       2       3         5. Activerentic flooodplain       0       0       0       2       3       3         6. Depositional bars or benches       0       0       0       1       1       5       3         6. Depositional bars or benches       0       0       0       0       1       1       5       3       3         9. Grade control       0       0       0       0       0       1       1       5       3       3         9. Grade control       0       0       0       0       0       1       5       3       3       3       4 <t< td=""><td>2. Sinuosity of channel along thalweg       0       1         3. In-channel structure: ex. riffle-pool, step-pool, ripple-pool sequence       0       1         4. Particle size of stream substrate       0       1         5. Active/relict floodplain       0       1         6. Depositional bars or benches       0       1</td><td></td><td>3.5 1.5 1.5</td></t<>	2. Sinuosity of channel along thalweg       0       1         3. In-channel structure: ex. riffle-pool, step-pool, ripple-pool sequence       0       1         4. Particle size of stream substrate       0       1         5. Active/relict floodplain       0       1         6. Depositional bars or benches       0       1		3.5 1.5 1.5
3. In-charmel structure: ex. rifle-pool, step-pool, ripple-pool step restrict the orbital structure: ex. rifle-pool, step-pool, ripple-pool step-pool ripple-pool step-pool, ripple-pool step-pool, ripple-pool step-pool, ripple-pool step-pool, ripple-pool ripple-pool step-pool, ripple-pool step-pool, ripple-ripple-pool ripple-ri	3. In-charmel structure: ex. riffle-pool, step-pool,       0 $(1, 0, 0)$ 2       3         4. Parkies stee of stream substrate       0 $(1, 0, 0)$ 2       3         7. Explose poils stee of stream substrate       0 $(1, 0, 0)$ 2       3         7. Explose stee of stream substrate       0 $(1, 0, 0)$ 2       3         7. Explose stee of stream substrate       0 $(1, 0, 0)$ 2       3         7. Explose stee of stream substrate       0 $(1, 0, 0)$ 2       3         7. Recent alluvial deposits       0 $(1, 0, 0)$ 2       3       3         7. Recent alluvial deposits       0 $(1, 0, 0)$ $(1, 0, 0)$ 2       3       3         9. Grade control       0 $(1, 0, 0)$ $(1, 0, 0)$ $(1, 0, 0)$ 2       3       3         10. Natural valley $(1, 0, 0)$ <td>3. In-channel structure: ex. riffle-pool, step-pool, ripple-pool sequence     0     1       4. Particle size of stream substrate     0     1       5. Active/relict floodplain     0     1       6. Depositional bars or benches     0     1</td> <td></td> <td>3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3</td>	3. In-channel structure: ex. riffle-pool, step-pool, ripple-pool sequence     0     1       4. Particle size of stream substrate     0     1       5. Active/relict floodplain     0     1       6. Depositional bars or benches     0     1		3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3
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a.       0       0       0       0       0       2       3         7. Recent alluvial deposits       0       0       1       2       3         7. Recent alluvial deposits       0       0       1       2       3         8. Headduts       0       0       0       1       2       3         8. Headduts       0       0       0       1       2       3         9. Cade control       0       0       0       0       1       1         10. Natural valley       0       0       0       0       1       1       1         8. Hydrology (Subtal =       1       1       0       1       2       3       3         12. Presence of Baseflow       0       0       1       1       2       3       3         13. Exerct of Idents in manual       15. Presence of Baseflow       0       0       1	T. Recent alluvial deposits       0       1       2       3         6. Depositional bars or benches       0       1       2       3         7. Recent alluvial deposits       0       1       2       3         8. Headduts       0       0       1       2       3         9. Headduts       0       0       0       1       2       3         1. Recent alluvial deposits       0       0       0       1       1       5         10. Relate control       0       0       0       0       0       1       1       5       1 <td>5. Active/relict floodplain     0     1       6. Depositional bars or benches     0     1</td> <td>2 2 2</td> <td>3 3 3 1.5 1.5</td>	5. Active/relict floodplain     0     1       6. Depositional bars or benches     0     1	2 2 2	3 3 3 1.5 1.5
6. Depositional bars or benches       0       1       2       3         7. Recent alluvial deposits       0       0       2       3         8. Headcuts       0       0       0       1       1.5         9. Grade control       0       0       0.5       1       1.5         9. Grade control       0       0.5       1       1.5       3         10. Natural valley       0       0.5       1       1.5       3         * artificial didtors are not rated; see discussions in manual       No =0       0       1       2       3         11. Second addres are not rated; see discussions in manual       11. Second pacteria       1       2       3       3         12. Presence of Baseflow       0       0       1.5       1       2       3         13. Icon oxidizing bacteria       1.5       1.5       1       2       3       3         13. Icon oxidizing bacteria       1.5       0       0       0       0       1.5       4       1.5         13. Icon oxidizing bacteria       1.5       0       0       0       0.5       1       1.5         14. Leef littler       1.6       0       0       0	6. Depositional bars or benches     0     1     2     3       7. Recent alluvial deposits     0     0     1     2     3       8. Headouts     0     0     0     1     1       9. Grade control     0     0     0     1     1       9. Grade control     0     0     0     1     1       9. Grade control     0     0     0     1     1       9. Arriticial dictors are not rated; see discussions in manual     No = 0     0     1     1       8. Hydrology (Subtotal =     1     1     1     1     1       1. Presence of Baseflow     1     1     2     3     3       1. Presence of Baseflow     1     1     2     3     3       1. Freemene of Baseflow     1     1     1     2     3       1. Freemene of Baseflow     1     1     1     2     3       1. For outdizing bacteria     1     1     1     5       1. For outdizing bacteria     1     1     5     1     1       1. For outdizing bacteria     3     2     1     1     5       1. Solubasid     1     0     0     1     5     3       1. Solu	6. Depositional bars or benches 0 <u>(1)</u>	000++	3 3 3 3 1.5
T. Recent all virtual deposits     0     1     2     3       0. Flead extra     0     0.5     1     1.5       1. Natural valiey     0     0.5     1     1.5       1. Second or greater order channel     No = 0     0.5     1     1.5       1. Second or greater order channel     0     1     2     3       *articial dipleta sere not rated: see discussions in manual     1     1     2     3       1. Presence of Baseflow     1.5     1     2     3       1. Leaf Ittler     1.5     1     1.5     1     1.5       1. Leaf Ittler     1.5     0     0     1.5     1       1. Sectiment on plants or debris     0     0.5     1     1.5       1. Sectiment on plants or debris     0     0.5     1     1.5       1. Sectiment on plants or plies     1     0.5     1     1.5       1. Sectiment on plants or plies     0     0.5     1     1.5       1. Sectiment on plants or plies     0     0.5     1     1.5	T. Reserved values       0       0       0       2       3         8. Headcuts       0       0.5       1       1.5         9. Grade control       0       0.5       1       1.5         10. Natural valley       0       0.5       1       1.5         11. Second on greater order channel       No = 0       0.5       1       1.5         11. Second on greater order channel       No = 0       0.5       1       1.5         11. Second of greater order channel       No = 0       0.5       1       1.5         12. Presence of Baseflow       1.5       1       2       3       3         13. Iron oxidizing bacteria       1.5       1       1.5       1       1.5       1       1.5         14. Leef litter       1.5       1.5       0       0       1.5       1       1.5         13. Iron oxidizing bacteria       1.5       0       0       1.5       1       1.5         14. Leef litter       1.6       0       0.5       1       1.5       0       0         14. Leef litter       0       0       0       0       1.5       1.5       1.5       1.5       1.5 <td< td=""><td></td><td>1 0 0</td><td>3 1.5</td></td<>		1 0 0	3 1.5
8. Headcuts       0       0       0       0       2       3         9. Grade control       0       0.5       1       1.5       1       1.5         10. Natural valley       0       0.5       1       1.5       1       1.5         11. Second or greater order channel       0       0.5       1       1.5       1       1.5         articial ditures are not rated; see discussions in manual       articial ditures are not rated; see discussions in manual       0       1       2       3         12. Presence of Baseflow       0       1.5       1       0       1       1.5       1       1.5       1       1.5         13. Icon oxidizing bacteria       13. Icon oxidizing bacteria       0       1       2       3       3       2       3       1.5       1       1.5       1       1.5       1       1.5       1       1.5       1       1.5       1       1.5       1       1.5       1       1.5       1       1.5       1       1.5       1       1.5       1       1.5       1       1.5       1       1.5       1       1.5       1       1.5       1       1.5       1       1.5       1       1.5	8. Headcuts       0       0       0       0       2       3         9. Grade control       0       0       0       0       1 <t< td=""><td>7 Recent alluvial deposits</td><td>0</td><td>3 1.5</td></t<>	7 Recent alluvial deposits	0	3 1.5
9. Grade control00.511.510. Natural valley00.511.511. Second or greater order channel* artificial didnes are not rated: see discussions in manualB. Hydrology (Subtotal = $\sqrt{5}$ )12312. Presence of Baseflow01.512313. Inonoxidizing bacteria1.512314. Leaf litter000.511.515. Sediment on plants or debris000.511.515. Sediment on plants or debris000.511.516. Organic debris lines or piles000.511.517. Soil-based evidence of high water table?No = 000.511.517. Soil-based evidence of high water table?00.511.51.517. Soil-based evidence of high water table?00.511.51.518. Fibrous roots in streambed32211.52320. Based evidence of high water table?00.511.51.521. Aquatic Mollusks000.511.51.522. Tish000.511.51.51.523. Crayritsh00.512322323. Crayritsh00.5123223223. Crayritsh00.51 </td <td>9. Grade control00.511.510. Natural valley00.511.511. Second or greater order channelNo = 00.511.5* artificial ditches are not rated; see discussions in manual1.512312. Presence of Baseflow1.512313. Ion oxidizing bacteria1.512313. Ion oxidizing bacteria1.512314. Leaf litter000.511.515. Sediment on plants or debris000.511.516. Organic debris lines or plies0012317. Soli-based evidence of high water table?No = 0011.51.516. Organic debris lines or plies0012317. Soli-based evidence of high water table?00.511.518. Fibrous roots in streambed3221219. Rooted uplants in streambed3212320. Macrobenthos (note diversity and abundance)0012321. August Mollusks00.511.51.522. Fish23. Crayfish0.511.51.523. Crayfish00.511.52324. Amphibians23. Crayfish00.511.524. Amphibians00.511.523</td> <td>A Headcuts 0 3</td> <td></td> <td>1.5</td>	9. Grade control00.511.510. Natural valley00.511.511. Second or greater order channelNo = 00.511.5* artificial ditches are not rated; see discussions in manual1.512312. Presence of Baseflow1.512313. Ion oxidizing bacteria1.512313. Ion oxidizing bacteria1.512314. Leaf litter000.511.515. Sediment on plants or debris000.511.516. Organic debris lines or plies0012317. Soli-based evidence of high water table?No = 0011.51.516. Organic debris lines or plies0012317. Soli-based evidence of high water table?00.511.518. Fibrous roots in streambed3221219. Rooted uplants in streambed3212320. Macrobenthos (note diversity and abundance)0012321. August Mollusks00.511.51.522. Fish23. Crayfish0.511.51.523. Crayfish00.511.52324. Amphibians23. Crayfish00.511.524. Amphibians00.511.523	A Headcuts 0 3		1.5
10. Natural valley       0       0.5       1       1       (1.5)         * artificial ditches are not rated; see discussions in manual       * artificial ditches are not rated; see discussions in manual       No = 0       Yes = 3       1         B. Hydrology (Subtotal = $\sqrt{5}$ )       1 $\sqrt{5}$ 1       2       3         12. Presence of Baseflow       1.5       1       2       3         13. Iron oxidizing bacteria       1.5       1       2       3         13. Iron oxidizing bacteria       1.5       1       2       3         14. Leef litter       0       0       0.5       1       1.5         15. Sediment on plants or debris       0       0       0.5       1       1.5         15. Sediment on plants in streambed       3       2       1       1.5       1       1.5         16. Elology (Subtotal = $\frac{2}{2}$ )       No = $\frac{2}{0}$ 1       1       2       3       2       1       1.5         20. Macrobenthos (note diversity and abundance)       0       1       2       3       3       2       1       1.5       3       3       2       3       3       3       3       3       3       3       3       3	10. Natural valley       0       0.5       1       1       (1.5)         11. Second or greater order channel       No = 0       0       5       1       (1.5)         B. Hydrology (Subtotal = $\sqrt{5}$ )       1       2       3       3         12. Presence of Baseflow       1.5       1       2       3       3         13. Iron oxidizing bacteria       1.5       1       2       3       3         13. Iron oxidizing bacteria       0       0       0       15       15       15         13. Iron oxidizing bacteria       0       0       0       15       15       15         13. Iron oxidizing bacteria       0       0       0       0       15       15       15         14. Leftitier       0       0       0       0       0       15       15         15. Sectiment on plants or debris       0       0       0       0       15       15       15         16. Organic debris lines or piles       1       1.5       0       1       15       15         16. Organic debris lines or piles       1       0       0       1       2       3       2       3       2       3	9 Grade control 0 (0.5)		(1.5)
11. Second or greater order channel       No = 0       Yes = 3         * artificial ditores are not rated; see discussions in manual       * hydrology (Subtotal = $\sqrt{5}$ )       Yes = 3         B. Hydrology (Subtotal = $\sqrt{5}$ )       1       2       3         12. Presence of Baseflow       1.5       1       2       3         13. Iron oxidizing bacteria       1.5       1       2       3         14. Leaf lifter       0       0       1       2       3         15. Sediment on plants or debris       0       1       1.5       1       1.5         16. Organic debris lines or plies       0       0       0.5       1       1.5         17. Soil-based evidence of high water table?       No = $0$ 0       1       2       3         17. Soil-based evidence of high water table?       No = $0$ 0       1       1.5         16. Organic debris lines or plies       0       0       1       2       3         17. Soil-based evidence of high water table?       No = $0$ 1       2       3         17. Soil-based evidence       0       0       1       2       3         18. Florus roots in streambed       3       2       1       1.5	11. Second or greater order channel       No = 0       Yes = 3         * articlai ditches are not rated; see discussions in manual       * Hydrology (Subtotal = $\sqrt{5}$ )       Yes = 3         B. Hydrology (Subtotal = $\sqrt{5}$ )       1       2       3         12. Presence of Baseflow       1.5       1       2       3         13. Iron oxidizing bacteria       1.5       1       2       3         14. Leaf litter       1.5       1       2       3         15. Sectiment on plants or debris       0       0.5       1       1.5         16. Organic debris lines or plies       0       0.5       1       1.5         17. Soil-based evidence of high water table?       No = 0       0       1       1.5         17. Soil-based evidence of high water table?       0       0.5       1       1.5         18. Eliology (Subtotal = 2)       2       2       1       2       3         19. Brous const in streambed       3       2       1       1.5       1       1.5         19. Good uplants in streambed       3       2       1       2       3       3         20. Macrobenthos (note diversity and abundance)       0       0       0.5       1       1.5 <t< td=""><td>10 Natural vallev 0.5</td><td>-</td><td></td></t<>	10 Natural vallev 0.5	-	
<sup>a</sup> artificial diches are not rated; see discussions in manual         B. Hydrology (Subtotal = $\sqrt{5}$ )         12. Presence of Baseflow $\sqrt{5}$ 13. Iron oxidizing bacteria $1.5$ 14. Leaf litter $0$ 15. Sediment on plants or debris $0$ 16. Organic debris lines or piles $0$ 17. Soil-based evidence of high water table? $0$ 16. Organic debris lines or piles $0$ 17. Soil-based evidence of high water table? $0$ 16. Organic debris lines or piles $0$ 17. Soil-based evidence of high water table? $0$ 18. Fibrous roots in streambed $3$ 20. Bellogy (Subtotal = $\frac{1}{2}$ ) $1$ 21. Aquatic Mollusks $0$ 22. Adatter diversity and abundance) $0$ 21. Aquatic Mollusks $0$ 22. Angetiland $0$ 23. Crayfish $0$ 24. Amphilans $0$ 25. Algen $0$ 26. Metland plants in streambed $1.5$ 27. Amphilans $0$ 28. Metland plants in streambed $1.5$ 26. Metland plants in streambed $0$	*artificial ditches are not rated; see discussions in manual B. Hydrology (Subtotal = $\sqrt{5}$ ) 12. Presence of Baseflow 13. Iron oxidizing bacteria 13. Iron oxidizing bacteria 13. Iron oxidizing bacteria 14. Leaf litter 15. Sediment on plants or debris 16. Organic debris lines or piles 17. Soil-based evidence of high water table? 17. Soil-based evidence of high water table? 16. Organic debris lines or piles 17. Soil-based evidence of high water table? 17. Soil-based evidence of high water table? 18. Fibrous roots in streambed 19. Rooted upland plants in streambed 20. Macrobenthos (note diversity and abundance) 21. Aquatic Mollusks 22. Aquatic Mollusks 23. Crayfish 23. Crayfish 23. Crayfish 23. Crayfish 23. Crayfish 23. Crayfish 23. Crayfish 24. Amphibians 25. Algae 26. Amphibians 26. Mater abundance) 27. Amphibians 28. Algae 28. Anglae 29. So Chalter and bundance) 20. So Chalter and abundance) 20. So Chalter and abundance) 23. Amphibians 24. Amphibians 25. Amphibians 26. Amphibians 26. Amphibians 27. Amphibians 28. Anglae 29. Other and abundance and	11. Second or greater order channel No = 0	Yes =	3
B. Hydrology (Subtotal = $\sqrt{5}$ ) $\sqrt{5}$ 1       2       3         12. Presence of Baseflow       1.5       1       2       3         13. Iron oxidizing bacteria       1.5       1       2       3         13. Iron oxidizing bacteria       1.5       1       2       3         14. Leaf litter       0       0       0       1       1.5         15. Sediment on plants or debris       0       0       0       1       1.5         15. Sediment on plants in the activation       0       0       0       1       1.5         16. Organic debris lines or piles       0       0       0       1       1.5         17. Soil-based evidence of high water table?       No $\neq 0$ 0       1       1.5         17. Soil-based evidence of high water table?       No $\neq 0$ 0       1       1.5         16. Organic debris in streambed       3       2       1       2       3         20. Macrobenthos (note diversity and abundance)       0       0.5       1       1.5         21. Aquatic Mollusks       0       0.5       1       2.5       3         22. Elsh       23. Craylish       2       2       3       2	B. Hydrology (Subtotal = $\sqrt{5}$ )         12. Presence of Baseflow       0       1       2       3         13. Iron oxidizing bacteria       1.5       1       2       3         13. Iron oxidizing bacteria       1.5       1       2       3         14. Leaf litter       0       1       2       3       1.5         15. Sediment on plants or debris       0       1       2       3       1.5         15. Sediment on plants or debris       0       0       0       0       1       1.5         16. Organic debris lines or piles       0       0       0       0       1       1.5         17. Soil-based evidence of high water table?       No = $0$ No = $0$ Yes = 3       3         17. Soil-based evidence of high water table?       No = $0$ 0       1       1.5         17. Soil-based evidence of high water table?       No = $0$ 0       1       2       3         17. Soil-based evidence of high water table?       No = $0$ 1       2       3       3         16. Orgony (Subtotal = $\frac{1}{2}$ )       3       3       2       1       1.5       3         18. Ribrous roots in streambed       3       2       0 <td><sup>a</sup> artificial dilches are not rated; see discussions in manual</td> <td></td> <td></td>	<sup>a</sup> artificial dilches are not rated; see discussions in manual		
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15. Sediment on plants or debris00015.16. Organic debris lines or piles10011.517. Soil-based evidence of high water table?No011.517. Soil-based evidence of high water table?321118. Fibrous roots in streambed3212319. Rooted upland plants in streambed3212320. Macrobenthos (note diversity and abundance)0123321. Aquatic Mollusks00123322. Fish00.511.51.523. Crayfish00.511.51.524. Amphibians00.511.51.525. Algae25. Algae25. Algae2.6. Wetland plants in streambed0.511.526. Wetland plants in streambed00.511.51.527. Amphibians00.511.51.526. Wetland plants in streambed56. Wetland streambed1.51.51.526. Wetland plants in streambed70.511.527. Algae70.50.511.528. Wetland plants in streambed70.511.529. Motes:700.511.520. Motes:700.511.528. Motes:700.511.5 <t< td=""><td>15. Sediment on plants or debris000.511.516. Organic debris lines or piles000.511.517. Soli-based evidence of high water table?No0<math>0.5</math><math>1</math>1.517. Soli-based evidence of high water table?3<math>2.7</math><math>1</math>018. Fibrous roots in streambed3<math>2.7</math>12319. Rooted upland plants in streambed3<math>2.7</math>12320. Macrobenthos (note diversity and abundance)0123321. Aquatic Mollusks000.511.522. Fish00.511.51.523. Crayfish00.511.51.524. Amphibians00.511.51.525. Algae26. Wetland plants in streambed25. Algae1.51.51.526. Wetland plants in streambed70.511.51.526. Wetland plants in streambed77.51.51.51.526. Wetland plants in streambed7.50.511.51.527. Algae700.511.51.526. Wetland plants in streambed7.50.511.51.527. Algae700.511.51.528. Wetland plants in streambed7711.529. Soft manual.70.511.51.520.</td><td>14. Leaf litter 1.5 1</td><td>0.5</td><td></td></t<>	15. Sediment on plants or debris000.511.516. Organic debris lines or piles000.511.517. Soli-based evidence of high water table?No0 $0.5$ $1$ 1.517. Soli-based evidence of high water table?3 $2.7$ $1$ 018. Fibrous roots in streambed3 $2.7$ 12319. Rooted upland plants in streambed3 $2.7$ 12320. Macrobenthos (note diversity and abundance)0123321. Aquatic Mollusks000.511.522. Fish00.511.51.523. Crayfish00.511.51.524. Amphibians00.511.51.525. Algae26. Wetland plants in streambed25. Algae1.51.51.526. Wetland plants in streambed70.511.51.526. Wetland plants in streambed77.51.51.51.526. Wetland plants in streambed7.50.511.51.527. Algae700.511.51.526. Wetland plants in streambed7.50.511.51.527. Algae700.511.51.528. Wetland plants in streambed7711.529. Soft manual.70.511.51.520.	14. Leaf litter 1.5 1	0.5	
16. Organic debris lines or piles000.5.011.5.17. Soil-based evidence of high water table?No $\neq$ 0.5.Yes = 37. Soil-based evidence of high water table?32.0.1Yes = 3C. Biology (Subtotal = 3)32.0.11018. Fibrous roots in streambed32.0.112320. Macrobenthos (note diversity and abundance)0112321. Aquatic Mollusks00123322. Fish00.511.51.523. Crayfish00.511.51.524. Amphibians00.511.51.525. Algae5.6. Wetland plants in streambed5.6. Menual.1.5. Other $\neq$ 0.511.526. Wetland plants in streambed7.5. OBL = 1.5. Other $\neq$ 0.51.5. Other $\neq$ 0.51.5. Other $\neq$ 0.51.5. Other $\neq$ 0.526. Wetland plants in streambed******27. Si Carayfish00.511.5.1.5.28. Algae******26. Wetland plants in streambed*****26. Wetland plants in streambed*****27. Notes:******28. Sof manual.******28. Sof manual.****** <t< td=""><td>16. Organic debris lines or piles000.501.51.517. Soil-based evidence of high water table?No = 0Yes = 317. Soil-based evidence of high water table?3210C. Biology (Subtotal = <math>3</math>)321018. Fibrous roots in streambed3212319. Rooted upland plants in streambed3212320. Macrobenthos (note diversity and abundance)0123321. Aquatic Mollusks00123322. Fish00.511.51.523. Crayfish00.511.51.524. Amphibians00.511.51.525. Algae25. Algae25. Algae26. Wetland plants in streambed25. OBL = 1.5&lt; Other #0</td>26. Wetland plants in streambed*0.60.511.526. Wetland plants in streambed**0.511.526. Wetland plants in streambed*****27. Algae**0.60.511.526. Wetland plants in streambed*****27. Prerennial streams may also be identified using other methods. See p. 36 of manual.****28. Notes:*******27. Solution********</t<>	16. Organic debris lines or piles000.501.51.517. Soil-based evidence of high water table?No = 0Yes = 317. Soil-based evidence of high water table?3210C. Biology (Subtotal = $3$ )321018. Fibrous roots in streambed3212319. Rooted upland plants in streambed3212320. Macrobenthos (note diversity and abundance)0123321. Aquatic Mollusks00123322. Fish00.511.51.523. Crayfish00.511.51.524. Amphibians00.511.51.525. Algae25. Algae25. Algae26. Wetland plants in streambed25. OBL = 1.5< Other #0	15. Sediment on plants or debris	-	1.5
17. Soli-based evidence of high water table?No = 0Yes = 3C. Biology (Subtotal = $3$ )3 $2^2$ 1018. Fibrous roots in streambed3 $2^2$ 1019. Rooted upland plants in streambed3 $2^2$ 1120. Macrobenthos (note diversity and abundance)01 $2^2$ 321. Aquatic Mollusks001 $2^2$ 322. Fish00.511.523. Crayfish00.511.524. Amphibians00.511.525. Algae5.6. Wetland plants in streambed $0.5$ 11.526. Wetland plants in streambed $-60^{\circ}$ 0.511.526. Wetland plants in streambed $-60^{\circ}$ $0.5$ 1 $1.5$ 26. Wetland streambed $-60^{\circ}$ $0.5$ $1^{\circ}$ $1.5$ 26. Wetland streams may also be identified using other methods. See p. 35 of manual. $-60^{\circ}$ $0.5$ $1^{\circ}$ $1.5$ Notes: $-60^{\circ}$ $0.5$ $1^{\circ}$ $1.5$ $1.5$ $1.5$	17. Soli-based evidence of high water table?No = 0Yes = 3C. Biology (Subtotal = $3$ )3 $20$ 1018. Fibrous roots in streambed3 $20$ 12319. Rooted upland plants in streambed3 $20$ 12320. Macrobenthos (note diversity and abundance)0123321. Aquatic Mollusks00123322. Fish00.511.51.51.523. Crayfish00.511.51.51.524. Amphibians00.511.51.51.524. Amphibians00.511.51.51.525. Algae5.6. Wetland plants in streambedFACW = 0.75; OBL = 1.50.511.526. Wetland plants in streambed******26. Wetland plants in streambed******27. Algae*******28. Algae*******27. Sidae********28. Methans in streambed**********29. Sidae***********************<	16. Organic debris lines or piles 0 0.5	-	1.5
C. Biology (Subtotal = $3$ )3201018. Fibrous roots in streambed3210019. Rooted upland plants in streambed3212320. Macrobenthos (note diversity and abundance)01211.521. Aquatic Mollusks0012322. Fish00.511.522. Fish00.511.523. Crayfish00.511.524. Amphibians00.511.525. Algae00.511.526. Wetland plants in streambed00.511.526. Wetland plants in streambed5.6 Manual.0.511.526. Wetland streams may also be identified using other methods. See p. 35 of manual.0.550.550.561Notes:00.51.5. Other # 0.75; OBL = 1.5. Other # 0.751.5. Other # 0.75	C. Biology (Subtotal = $\checkmark$ )321018. Fibrous roots in streambed321019. Rooted upland plants in streambed3212320. Macrobenthos (note diversity and abundance)01211121. Aquatic Mollusks012111122. Fish00.511111123. Crayfish00.5111<	17. Soli-based evidence of high water table? No = 0	Yes =	3
18. Fibrous roots in streambed321019. Rooted upland plants in streambed3211019. Rooted upland plants in streambed3212320. Macrobenthos (note diversity and abundance)012321. Aquatic Mollusks012322. Fish00.511.523. Crayfish00.511.524. Amphibians00.511.525. Algae00.511.526. Wetland plants in streambed56. Manual.0.511.526. Wetland stream bed600.50.511.526. Wetland stream stay also be identified using other methods. See p. 35 of manual.0.511.5Notes:	18. Fibrous roots in streambed321019. Rooted upland plants in streambed3212320. Macrobenthos (note diversity and abundance)012321. Aquatic Mollusks012322. Fish00.511.523. Crayfish00.511.524. Amphibians00.511.525. Algae00.511.526. Wetland plants in streambed56. Manual.0.511.526. Wetland plants in streambed56. Manual.0.511.526. Wetland streambed600.511.51.527. Algae7.50.50.511.51.526. Wetland plants in streambed7.50.50.511.527. Streams may also be identified using other methods. See p. 35 of manual.0.511.50.5Notes:11.50.511.50.5	C. Biology (Subtotal = 3 )		
19. Rooted upland plants in streambed32011020. Macrobenthos (note diversity and abundance)012321. Aquatic Mollusks012322. Fish000.511.523. Crayfish00.511.524. Amphibians00.511.525. Algae00.511.526. Wetland plants in streambed00.511.526. Wetland streams may also be identified using other methods. See p. 35 of manual.Notes:Notes:	19. Rooted upland plants in streambed32011020. Macrobenthos (note diversity and abundance)012321. Aquatic Mollusks0012322. Fish00.511.523. Crayfish00.511.524. Amphibians00.511.525. Algae00.511.526. Wetland plants in streambed00.511.526. Wetland streams may also be identified using other methods. See p. 35 of manual.0.511.5Notes:10.50.511.5	18. Fibrous roots in streambed	2	0
20. Macrobenthos (note diversity and abundance)       0       1       2       3         21. Aquatic Mollusks       21. Aquatic Mollusks       1       2       3         22. Fish       0       0       0.5       1       1.5         23. Crayfish       0.5       0       0.5       1       1.5         24. Amphibians       0       0.5       1       1.5         25. Algae       0       0.5       1       1.5         26. Wetland plants in streambed       26. Wetland plants in streambed       56. Manual.         *perennial streams may also be identified using other methods. See p. 35 of manual.       0.55. OBL = 1.5. Other #0.	20. Macrobenthos (note diversity and abundance)012321. Aquatic Mollusks21. Aquatic Mollusks012322. Fish00.511.523. Crayfish00.511.524. Amphibians00.511.525. Algae00.511.526. Wetland plants in streambed00.501*perennial streams may also be identified using other methods. See p. 35 of manual.Notes:	19. Rooted upland plants in streambed	-	0
21. Aquatic Mollusks12322. Fish22. Fish0.511.523. Crayfish0.511.524. Amphibians00.511.525. Algae00.511.526. Wetland plants in streambed00.511.526. Wetland plants in streambed7.500.511.5Annual.*perennial streams may also be identified using other methods. See p. 35 of manual.0.51.5Other $\neq 0$	21. Aquatic Mollusks21. Aquatic Mollusks2322. Fish0.511.523. Crayfish0.511.524. Amphibians00.511.525. Algae00.511.526. Wetland plants in streambed00.50.511.526. Wetland plants in streambed1.50.50.511.5Anotes:**56 manual.*1.500	20. Macrobenthos (note diversity and abundance) 0 1	2	5
22. Fish $0.5$ $1$ $1.5$ 23. Crayfish $0.5$ $1$ $1.5$ 23. Crayfish $0.5$ $1$ $1.5$ 24. Amphibians $0.5$ $1$ $1.5$ 25. Algae $0.5$ $1$ $1.5$ 25. Algae $0.5$ $1$ $1.5$ 26. Wetland plants in streambed $0.5$ $1$ $1.5$ 26. Wetland plants in streambed $1.5$ $0.5$ $1$ $1.5$ 26. Wetland plants in streambed $1.5$ $0.5$ $1$ $1.5$ 26. Wetland plants in streambed $1.5$ $0.5$ $1$ $1.5$ 27. Vetennial streams may also be identified using other methods. See p. 35 of manual. $0.5$ $0.5$ $1.5$ $0.5$ Notes: $0.5$ $0.5$ $0.5$ $0.5$ $1.5$ $0.5$ $1.5$	22. Fish $0.5$ $1$ $1.5$ 23. Crayfish $0.5$ $1$ $1.5$ 23. Crayfish $0.5$ $1$ $1.5$ 24. Amphibians $0.5$ $1$ $1.5$ 25. Algae $0.5$ $1$ $1.5$ 26. Wetland plants in streambed $0.5$ $1$ $1.5$ 7. Perennial streams may also be identified using other methods. See p. 35 of manual.Notes: $0.5$ $1.5$ Other # $0.5$	21. Aquatic Mollusks	2	5
23. Crayfish $0.5$ $1$ $1.5$ 24. Amphibians $0.5$ $1$ $1.5$ 24. Amphibians $0.5$ $1$ $1.5$ 25. Algae $0.5$ $1$ $1.5$ 25. Algae $0.5$ $1$ $1.5$ 26. Wetland plants in streambed $0.5$ $1$ $1.5$ 26. Wetland plants in streambed $1.5$ $1.5$ $1.5$ 26. Wetland streams may also be identified using other methods. See $p. 35$ of manual. $0.55$ $0.55$ $0.15$ $0.15$ $1.5$ Notes:       Notes: $0.55$ $0.55$ $0.55$ $0.55$ $0.56$ $1.5$ $0.56$	23. Crayfish       0.5       1       1.5         24. Amphibians       0.5       1       1.5         24. Amphibians       0.5       1       1.5         25. Algae       0.5       1       1.5         25. Algae       0.5       1       1.5         26. Wetland plants in streambed       0.5       1       1.5         26. Wetland plants in streambed       FACW = 0.75; OBL = 1.5       0ther $\neq 0$ ;         *perennial streams may also be identified using other methods. See p. 35 of manual.       Notes:	22. Fish 0.5	-	1.5
24. Amphibians     0.5     1     1.5       25. Algae     0.5     1     1.5       26. Wetland plants in streambed     FACW = 0.75; OBL = 1.5     0.15       26. Wetland plants in streambed     FACW = 0.75; OBL = 1.5     0.15       27. Verennial streams may also be identified using other methods. See p. 35 of manual.     Notes:	24. Amphibians       0.5       1       1.5         25. Algae       0.5       1       1.5         25. Algae       0.5       1       1.5         26. Wetland plants in streambed       FACW = 0.75; OBL = 1.5       0 ther $\neq 0$ , perennial streams may also be identified using other methods. See p. 35 of manual.       Notes:	23. Crayfish 0.5	-	1.5
25. Algae     0.5     1     1.5       26. Wetland plants in streambed     EACW = 0.75; OBL = 1.5 Other = 0,       *perennial streams may also be identified using other methods. See p. 35 of manual.       Notes:	25. Algae     0.5     1     1.5       26. Wetland plants in streambed     FACW = 0.75; OBL = 1.5 Other = 0.       26. Wetland plants in streams may also be identified using other methods. See p. 35 of manual.     Notes:	24. Amphibians 0.5	-	1.5
26. Wetland plants in streambed FACW = 0.75; OBL = 1.5 Other ≠ 0. *perennial streams may also be identified using other methods. See p. 35 of manual. Notes:	26. Wetland plants in streambed FACW = 0.75; OBL = 1.5 Other ≠ 0. *perennial streams may also be identified using other methods. See p. 35 of manual. Notes:	25. Algae 0.5	-	1.5
*perennial streams may also be identified using other methods. See p. 35 of manual. Notes:	*perennial streams may also be identified using other methods. See p. 35 of manual. Notes:	26. Wetland plants in streambed FACW = 0.75, OBI	$3L = 1.5$ Other $\neq 0$	
Notes:	Notes:	*perennial streams may also be identified using other methods. See p. 35 of manual.		
		Notes:		

Evaluator: $\tilde{S}$ : $\tilde{E}$ (C = $\tilde{S}$ : $\tilde{C}_{urce}$ k;         County:         Chu, U, U         Longitude:           Total Points:         Stream Determination (circle one)         Stream Determination (circle one)         Condutives:         Condutives:	8 - 2014 Projection	Destanta 10419	Latitude:	
Total Points:         Stream Determination (circle one)         Other Stream at east intermittent         Other Stream at east inple-pool sequence         Absent         Weak         Moderate           3. In-channel structure: ex. mith-pool, step-pool, inple-pool sequence         0         1         2         2           4. Particle size of straam substrate         0         1         2         2         1           7. Recent allovial deposits         0         1         2         1         2           7. Recent allovial deposits         0         0         1         2         1           8. Headcuts         0         0         1         2         1           8. Headcuts         0         0         1         2         1           9. State         0         0         1         2         1           11. Second or greater order chann	SEC- B. Zurroki County: (	hellow	Longitude:	
A. Geomorphology (Subtotal = $9.5$ )       Absent       Weak       Moderate         1. * Continuity of channel bed and bank       0       1       2       2         2. Sinustity of channel bed and bank       0       1       2       2         2. Sinustity of channel structure: ex. rifle-pool, step-pool, ipple-pool sequence       0       1       2       2         inple-pool sequence       0       1       2       1       2       2	intermittent ${}^{\prime \prime}$ ( $\mathcal{G}^{\prime \prime}$ , $\mathcal{A}^{\prime}$ $pA_{5}$ . Stream Dete	nination (circle one) termittent Perennial	Other e.g. Qued Name:	
1       Continuity of channel bed and bank       0       1       2         7       Continuity of channel bed and bank       0       1       2         3       In-channel along thalweg       0       1       2         3       In-channel structure: ex. riffle-pool, step-pool,       0       1       2         3       In-channel structure: ex. riffle-pool, step-pool,       0       1       2         3       Depositional bars or benches       0       1       2       2         5       Activefiel(cf floodplain       0       1       2       2         7. Recent alluvial deposits       0       1       2       2       1         8. Hadduts       0       0       1       2       2       1         10. Natural valley       0       0       0       1       2       1         8. Hydrology (subtotal =       15       0       0       1       2       1       1       2       1         11. Second or greater order channel       0       0       1       2       1       2       1       1       2       1       1       2       1       1       2       1       1       2 <t< th=""><th>nology (Subtotal = 9.5 ) Absent</th><th>Weak</th><th>Moderate</th><th>Strong</th></t<>	nology (Subtotal = 9.5 ) Absent	Weak	Moderate	Strong
2. Sinuosity of channel along thalweg       0       1       2         3. In-channel structure: ex. riffle-pool, step-pool, ripple-pool sequence       0       1       2         4. Particle structure: ex. riffle-pool, step-pool, ripple-pool sequence       0       1       2         4. Particle structure: ex. riffle-pool, step-pool, ripple-pool sequence       0       1       2         6. Active/rield: floodplain       0       1       2       2         6. Depositional bars or benches       0       1       2       2         7. Recent alluvial deposits       0       1       2       2         9. Grade control       0       0       1       2       2         10. Natural valley       0       0       1       2       2         11. Scond or greater order channel       No = 0       0       1       2       1         11. Scond or greater order channel       No = 0       0       1       2       1       2         11. Scond or greater order channel       No = 0       0       0       1       2       1         12. Presence of Baseflow       12. Presence of Baseflow       0       0       1       2       1         13. Iron oxidizing bacteria       13. Iron oxi	channel bed and bank 0	-	2)	3
3. In-channel structure: ex. rifle-pool, step-pool, ripple-pool sequence012 $f$ attractione size of stream gubstrate012 $A$ calive/relist floodplain012 $B$ calive/relist floodplain012 $C$ Depositional bars or benches012 $B$ Headcuts012 $B$ Headcuts012 $B$ Headcuts012 $B$ Headcuts0012 $B$ Headcuts0012 $B$ Headcuts0012 $B$ Hydrology (Subtotal = $15$ )0012 $11$ Second or greater order channel0121 $B$ Hydrology (Subtotal = $15$ )00121 $12$ Presence of Baseflow0115112 $13$ Iron oxidizing bacteria1501012 $13$ Iron oxidizing bacteria1500.511 $14$ Leaf litter1500511 $13$ Iron oxidizing bacteria1500.511 $14$ Leaf litter1300121 $13$ Iron oxidizing bacteria1500.511 $14$ Leaf litter1300121 $13$ Iron oxidizing bacteria1500.511 $14$ Leaf litter	hannel along thalweg 0	-	(2)	3
Inpue-point evolution       0       1       2         6. Depositional bars or benches       0       1       2         6. Lepositional bars or benches       0       1       2         7. Recent alluvial deposits       0       1       2         8. Headcuts       0       0       1       2         9. Grade control       0       0       0       1       2         9. Grade control       0       0       0       1       2       1         9. Grade control       0       0       0       0       1       2       1         9. Grade control       0       0       0       0       1       2       1       2       1       1       2       1       1       2       1       1       2       1       1       2       1       1       2       1       1       2       1       1       2       1       1       2       1       1       2       1       1       2       1       1       2       1       1       2       1       1       1       1       1       1       1       1       1       1       1       1       1 </td <td>ucture: ex. riffle-pool, step-pool, 0</td> <td>E</td> <td>2</td> <td>ы</td>	ucture: ex. riffle-pool, step-pool, 0	E	2	ы
6. Activerient for order statistical control       0       1       2         6. Depositional bars or benches       0       1       2         7. Recent alluvial deposits       0       1       2         8. Headcuts       0       0       1       2         9. Grade control       0       0       0       5       1         10. Natural valley       0       0.5       1       2         * attricial diches are not rated; see discussions in manual       0       0       1       2         * attricial diches are not rated; see discussions in manual       1.5       1       2       1         11. Second or greater order channel       0       0       1       2       1         2       11. Second or greater order channel       0       0       1       2       1         8. Hydology (Subtotal =       1.5       0       0.5       1       2       1         13. Iron oxizing bacteria       1.5       0       0.5       1       2       1         13. Iron oxizing bacteria       15       1       0       0       5       1       2       1         14. Leaf fitter       0       0.5       0.5       1 <t< td=""><td>of stream substrate</td><td>( )</td><td>2</td><td>3</td></t<>	of stream substrate	( )	2	3
6. Depositional bars or benches       0       1       2         6. Depositional bars or benches       0       1       2         7. Recent alluvial deposits       0       1       2         8. Headcuts       0       0.5       1       2         9. Grade control       0       0.5       1       2         10. Natural valley       0       0.5       1       2         11. Second or greater order channel       No = 0       0.5       1       2         11. Second or greater order channel       No = 0       0.5       1       2         11. Second or greater order channel       No = 0       0.5       1       2         8. Hydrology (Subtotal = 1.5       1       0       1       2       1         12. Presence of Baseflow       0       0.5       1       2       1         13. Iron oxidizing bacteria       1.5       1       0       5       1       2       1         13. Iron oxidizing bacteria       1.5       0       0.5       1       2       1         14. Leaf litter       1       1.5       0       0.5       1       2       1         15. Iro oxidizing bacteria       1.5	oodplain (0)	-	2	3
7. Recent alluvial deposits       0       1       2         8. Headcuts       0       0       1       2         9. Grade control       0       0.5       1       2         10. Natural valley       0       0.5       1       2         11. Second or greater order channel       0       0.5       1       2         11. Second or greater order channel       0       0.5       1       2         8. Hydrology (Subtotal = 1.5.1)       0       1       2       1         12. Presence of Baseflow       1.5       1       2       1       2         13. Iron oxidizing bacteria       1.5       1       0.5       1       2       1         13. Iron oxidizing bacteria       1.5       0       0.5       1       2       1         14. Leaf litter       0.5       1.5       0.5       1       2       1         13. Iron oxidizing bacteria       1.5       0.5       1       2       1       2       1         14. Leaf litter       0.5       0.5       0.5       1       2       1       2       1       2       1       2       1       2       1       1       2	bars or benches	-	2	3
8. Headcuts0129. Grade control00.519. Grade control00.5110. Natural valley00.5111. Second or greater order channelNo = 051* artificial ditches are not rated; see discussions in manual* artificial ditches are not rated; see discussions in manual* Hydrology (Subtotal = $1.5$ )B. Hydrology (Subtotal = $1.5$ )12. Presence of Baseflow13. Iron oxidizing bacteria14. Leaf litter15. Sediment on plants or debris16. Organic debris lines or piles17. Soil-based evidence of high water table?18. Fibrous roots in streambed19. Rooted upland plants in streambed20. Macrobenthos (note diversity and abundance)21. Aquatic Mollusks22. Fish23. Crayfish23. Crayfish24. Ammihians	al deposits	+	2	3
9. Grade control0 $0.5$ 110. Natural valley0 $0.5$ $1$ 11. Second or greater order channelNo = 0 $0.5$ $1$ * artificial ditches are not rated; see discussions in manualNo = 0 $0.5$ $1$ * Hydrology (Subtotal = $1.5$ )1 $0$ $1$ $2$ 12. Presence of Baseflow01 $2$ $1$ 13. Iron oxidizing bacteria1.51 $1$ $2$ 14. Leaf nitter01 $5$ $1$ $0.5$ 15. Sediment on plants or debris0.5 $0.5$ $1$ $1$ 16. Organic debris lines or piles0 $0.5$ $1$ $1$ 17. Soil-based evidence of high water table?No = 0 $5$ $1$ $2$ 17. Soil-based evidence of high water table?0 $1$ $2$ $1$ 17. Soil-based evidence of high water table?0 $0.5$ $1$ $2$ 17. Soil-based evidence of high water table? $0.5$ $1$ $2$ $1$ 18. Fibrous roots in streambed $3$ $2$ $1$ $2$ 20. Macrobenthos (note diversity and abundance) $0$ $1$ $2$ $1$ 21. Aquatic Mollusks $0$ $0.5$ $1$ $2$ $1$ 22. Fish $2$ $1$ $0.5$ $1$ $2$ $1$ 23. Crayfish $0.5$ $0.5$ $1$ $2$ $1$ 24. Arnchribiance $0.5$ $0.5$ $1$ $1$ $2$ 23. Crayfish $0.5$ $0.5$ $1$ $1$	0	-	(2)	3
10. Natural valley00.5111. Second or greater order channelNo = 0 $No = 0$ $Yes = 1$ * artificial ditches are not rated; see discussions in manualNo = 0 $Yes = 0$ * artificial ditches are not rated; see discussions in manual* artificial ditches are not rated; see discussions in manual* artificial ditches are not rated; see discussions in manual* artificial ditches are not rated; see discussions in manual11. For oxidizing bacteria112. Presence of Baseflow0113. Iron oxidizing bacteria1.514. Leaf litter1.514. Leaf litter1.515. Sediment on plants or debris016. Organic debris lines or pilesNo = 017. Soil-based evidence of high water table?No = 016. Fibrous roots in streambed317. Soil-based evidence of high water table?318. Fibrous roots in streambed319. Rooted upland plants in streambed320. Macrobenthos (note diversity and abundance)021. Aquatic Mollusks022. Fish023. Craylish024. Amnhihans023. Craylish024. Amnhihans0	0	0.5)	-	1.5
11. Second or greater order channel       No = 0       Yes =         *artificial ditches are not rated; see discussions in manual       *artificial ditches are not rated; see discussions in manual       No = 0       Yes =         B. Hydrology (Subtotal = $1.5$ )       0       1       2       1         12. Presence of Baseflow       0       1       2       1         13. Iron oxidizing bacteria       1.5       1       2       1         13. Iron oxidizing bacteria       1.5       1       0       1       2         13. Iron oxidizing bacteria       1.5       0       1       2       1         14. Leaf litter       15. Sediment on plants or debris       0.5       1       0.5       1         14. Leaf litter       0.5       0.5       1       2       1       1         15. Sediment on plants or debris       0.5       0.5       1       0.5       1       1         16. Organic debris lines or piles       No = 0.5       No = 0.5       1       2       1       2       1       2       1       2       1       2       1       2       1       2       1       2       1       2       1       2       1       2       1       1	0	0.5	0	1.5
artificial ditches are not rated; see discussions in manual         B. Hydrology (Subtotal = $15$ )         B. Hydrology (Subtotal = $15$ )         12. Presence of Baseflow         13. Iron oxidizing bacteria         14. Leaf litter         15. Sediment on plants or debris         16. Organic debris lines or piles         17. Soll-based evidence of high water table?         17. Soll-based evidence of high water table?         16. Organic debris lines or piles         17. Soll-based evidence of high water table?         18. Fibrous roots in streambed         19. Rooted uptand plants in streambed         20. Macrobenthos (note diversity and abundance)         21. Aquatic Mollusks         22. Fish         23. Crayfish         23. Crayfish         24. Amnthitans	reater order channel	Vo = 0	Yes =	:3
B. Hydrology (Subtotal = 15)       0       1       2         12. Presence of Baseflow       0       1       2         13. Iron oxidizing bacteria       0       1       2         13. Iron oxidizing bacteria       1.5       1       2         13. Iron oxidizing bacteria       0.5       1       2         14. Leaf litter       1.5       1       2       1         15. Sediment on plants or debris       0.5       0.5       1       0.5         16. Organic debris lines or piles       0       0.5       1       0.5       1         17. Soil-based evidence of high water table?       No = 0.5       No = 0.5       1       2       1         17. Soil-based evidence of high water table?       No = 0.5       1       2       1       2         17. Soil-based evidence of high water table?       No = 0.5       1       2       1       2         17. Soil-based evidence of high water table?       No = 0.5       1       2       1       2       1       2       1       2       1       2       1       2       1       2       1       2       1       2       1       2       1       2       1       2       1       2	are not rated; see discussions in manual			
12. Presence of Baseflow12. Presence of Baseflow12. Presence of Baseflow13. Iron oxidizing bacteria13. Iron oxidizing bacteria1214. Leaf litter1.51.51215. Sediment on plants or debris0.50.5116. Organic debris lines or piles0.50.5117. Soil-based evidence of high water table?No = $0.5$ 1Yes =17. Soil-based evidence of high water table?No = $0.5$ 1217. Soil-based evidence of high water table?No = $0.5$ 1217. Soil-based evidence of high water table?No = $0.5$ 1217. Soil-based evidence of high water table?No = $0.5$ 1217. Soil-based evidence of high water table?No = $0.5$ 1218. Fibrous roots in streambed321219. Rooted upland plants in streambed321220. Macrobenthos (note diversity and abundance)012121. Aquatic Mollusks00.512123. Crayfish0.510.512124. Amnhihians00.510.51124. Annhihians00.5112124. Annhihians00.5112125. Fish0.510.511126. Annhihians0.510.51127. Annhihians0.5<	(Subtotal = 15)			
3. Iron oxidizing bacteria0123. Iron oxidizing bacteria1.510.514. Leaf litter1.55 Ediment on plants or debris0.516. Organic debris lines or piles0.50.517. Soil-based evidence of high water table?0.5117. Soil-based evidence of high water table?0.5117. Soil-based evidence of high water table?0.5117. Soil-based evidence of high water table?3218. Fibrous roots in streambed32129. Rooted upland plants in streambed32121. Aquatic Mollusks001212. Fish00.512123. Crayfish0.50.51124 Amnhihane00.5112	Baseflow	1	2	9
14. Leaf litter1.510.515. Sediment on plants or debris1.60.5116. Organic debris lines or piles0.51117. Soil-based evidence of high water table?0.51117. Soil-based evidence of high water table?0.51117. Soil-based evidence of high water table?0.51117. Soil-based evidence of high water table?32118. Fibrous roots in streambed321219. Rooted upland plants in streambed321210. Macrobenthos (note diversity and abundance)012120. Macrobenthos (note diversity and abundance)001217. Aquatic Mollusks00.51222. Fish00.512123. Crayfish0.50.511224. Amnhihane00.5112	g bacteria (0)	+	27	3
15. Sediment on plants or debris16. Sediment on plants or debris10.5116. Organic debris lines or piles0.50.51117. Soli-based evidence of high water table?0.50.51 $Yes = 1$ 17. Soli-based evidence of high water table?0.50.51 $Yes = 1$ 17. Soli-based evidence of high water table?0.50.51 $Yes = 1$ C. Biology (Subtotal = 1.5)0321 $Yes = 1$ C. Biology (Subtotal = 1.5)0321 $Yes = 1$ B. Fibrous roots in streambed321219. Rooted upland plants in streambed3212110. Macrobenthos (note diversity and abundance)001212. Fish00.512122. Fish00.510.5122. Crayfish0.50.510.512. Amnhihans0.50.5112	1.5	+	0.5	0
16. Organic debris lines or piles       0.5       1         17. Soil-based evidence of high water table?       No = 0.5       1         C. Biology (Subtotal = 1.5)       3       2       1         B. Fibrous roots in streambed       3       2       1         10. Rooted upland plants in streambed       3       2       1         20. Macrobenthos (note diversity and abundance)       0       1       2         21. Aquatic Mollusks       0       0       1       2         22. Fish       0       0.5       1       2         23. Crayfish       0.5       1       2       1	t plants or debris	0.5	+-	1.5
T. Soli-based evidence of high water table?     No = 0     Yes =       C. Biology (Subtotal =     )     3     2     1       B. Fibrous roots in streambed     3     2     1       B. Fibrous roots in streambed     3     2     1       C. Biology (Subtotal =     0     3     2     1       B. Fibrous roots in streambed     3     2     1     2       O. Macrobenthos (note diversity and abundance)     0     1     2     1       21. Aquatic Mollusks     0     0     1     2       22. Fish     0     0.5     1     2       23. Crayfish     0.5     0     0.5     1	ris lines or piles	0.5	G	1.5
C. Biology (Subtotal = 1.5)       3       2       1         18. Fibrous roots in streambed       3       2       1         19. Rooted upland plants in streambed       3       2       1         19. Rooted upland plants in streambed       3       2       1         20. Macrobenthos (note diversity and abundance)       0       1       2         21. Aquatic Mollusks       0       0       1       2         22. Fish       0       0       0       1       2         23. Crayfish       0       0.5       1       1         24. Amnhihiane       0       0.5       1       1	widence of high water table?	No = 0	Yes =	= 3
18. Fibrous roots in streambed       3       2       1         19. Rooted upland plants in streambed       3       2       1         20. Macrobenthos (note diversity and abundance)       0       1       2         21. Aquatic Mollusks       0       1       2         22. Fish       0       0       1       2         23. Crayfish       0       0.5       1       2         24. Ammhihians       0       0.5       1       2	subtotal = 1.5 )			1 st
19. Rooted upland plants in streambed     3     2     (1)       20. Macrobenthos (note diversity and abundance)     0     1     2       21. Aquatic Mollusks     0     1     2       22. Fish     0     0     1     2       23. Crayfish     0     0     0     1       24. Amnhihlans     0     0     0     1	s in streambed 3	2	(	(0)
20. Macrobenthos (note diversity and abundance)     0     1     2       21. Aquatic Mollusks     0     1     2       22. Fish     0     0.5     1       23. Crayfish     0     0.5     1       24. Amnhihlans     0     0.5     1	nd plants in streambed 3	2	0	0
21. Aquatic Mollusks     0     1     2       22. Fish     0.5     1       23. Crayfish     0.5     1       24. Amnhihlans     0.5     1	os (note diversity and abundance)		2	9
22. Fish 0.5 1 23. Crayfish 0.5 1 24. Amnhihane 0.5 1	usks (0)	+	2	3
23. Crayfish 0.5 1	0	0.5	+	1.5
24 Amnhihlans 0.5 1	0	0.5	-	1.5
	0	0.5	-	1.5
25. Algae 0.5 1 1	0	0.5	+	1.5
26. Wetland plants in streambed FACW = 0.75; OBL = 1.5 Other = 0	nts in streambed	FACW = 0.75; OB	3L = 1.5 Other = 0	
*perennial streams may also be identified using other methods. See p. 35 of manual.	is may also be identified using other methods. See p. 35 of mai	.let		
Votes: +1- ("Fr. dran culture autical culture	. ( Fr. don't contracted a viller			

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CLATCH.

Date: 10-8-14	Project/Site: 50	ERFORTI- 10719	Latitude:		
Evaluator: SIEC - B. ZARZEOCI	ZARZEOCI COUNTY: CHATHAM				
Total Points: Stream is at least intermittent "E" 26.75	Stream Determin Ephemeral Inter	nation (circle one) rmittent Perennial	Other e.g. Quad Name:		
if ≥ 19 or perennial if ≥ 30"					
(Subtotal = 3.0)	Absent	Weak	Moderate	Strong	
A. Geomorphology (Subicial –	0	1	2	(3)	
2. Continuity of channel along thatwee	0	1	2	3	
2. Sinuosity of charmer along that tog	0	1	(2)	3	
ripple-pool sequence			(2)	3	
4. Particle size of stream substrate	0	1	2	3	
5. Active/relict floodplain	0		2	3	
6. Depositional bars or benches	0	0	(2)	3	
7. Recent alluvial deposits	0		2	3	
8. Headcuts	0		1	15	
9. Grade control	0	0.5	1	(15)	
10. Natural valley	0	0.5	Voo	- Alank	
11. Second or greater order channel	No		Les	10111	
<sup>a</sup> artificial ditches are not rated; see discussions in manual					
B Hydrology (Subtotal = 8.0)				2	
12 Presence of Baseflow	0	(1)	2	3	
12. Presence of Education	0		2	3	
13. Iron Oxidizing bacteria	1.5		0.5	0	
14. Leat litter	0	0.5		1.5	
15. Sediment on plants of debris	0	0.5	1	1.5	
17. Soil-based evidence of high water table?	No	0 = 0	Yes	=3	
$C \operatorname{Biology} (\operatorname{Subtotal} = -5.75)$		-			
C. Biology (Subiolai - Streambed	3	2	1	0	
18. Fibrous roots in streambed	3	2	1	0	
19. Rooted upland plants in streambed	0	1	2	3	
20. Macrobenthos (note diversity and addition)	0)	1	2	3	
21. Aquatic Moliusks	(0)	0.5	1	1.5	
22. Fish	0	0.5	1	1.5	
23. Crayfish	0	0.5	1	1.5	
24. Amphibians	0	0.5	1	1.5	
25. Algae		FACW = (0.75) OE	3L = 1.5 Other = 0	0	
26. Wetland plants in streambed	thods. See p. 35 of manua	al.			
*perennial streams may also be identified using outer me					
Notes:					
Sketch:	ribre si	7 5			
)) "E'statt allow Constit	Sol of				

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#### WETLAND DETERMINATION DATA FORM – Eastern Mountains and Piedmont Region

Project/Site:	City/Cou	inty:	Sampling	Date:
Applicant/Owner:		St	ate: Sampli	ing Point:
Investigator(s):	Section	Township, Range:		
Landform (hillslope, terrace, etc.):	Local relief	(concave, convex, none):		Slope (%):
Subregion (LRR or MLRA):	Lat:	Long:		Datum:
Soil Map Unit Name:			NWI classification:	
Are climatic / hydrologic conditions on the sit	te typical for this time of year? Yes	No (If no	o, explain in Remarks.)	
Are Vegetation, Soil, or Hydr	rology significantly disturbe	d? Are "Normal Circ	umstances" present?	Yes No
Are Vegetation, Soil, or Hydr	rology naturally problemation	c? (If needed, expla	in any answers in Rema	arks.)

#### SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present?	Yes Yes Yes	No No No	Is the Sampled Area within a Wetland?	Yes	No
Remarks:					

#### HYDROLOGY

Wetland Hydrology Indicato	rs:				Secondary Indicators (minimum of two required)
Primary Indicators (minimum	of one is req	uired; che	ck all that apply)		Surface Soil Cracks (B6)
Surface Water (A1)			True Aquatic Plants (B14)		Sparsely Vegetated Concave Surface (B8)
High Water Table (A2)			Hydrogen Sulfide Odor (C1)		Drainage Patterns (B10)
Saturation (A3) Oxidized Rhizospheres on Living Roots (C3)				Moss Trim Lines (B16)	
Water Marks (B1)	Water Marks (B1) Presence of Reduced Iron (C4)			Dry-Season Water Table (C2)	
Sediment Deposits (B2)			Recent Iron Reduction in Tilled So	oils (C6)	Crayfish Burrows (C8)
Drift Deposits (B3)			Thin Muck Surface (C7)		Saturation Visible on Aerial Imagery (C9)
Algal Mat or Crust (B4)			Other (Explain in Remarks)		Stunted or Stressed Plants (D1)
Iron Deposits (B5)					Geomorphic Position (D2)
Inundation Visible on Aeri	ial Imagery	(B7)			Shallow Aquitard (D3)
Water-Stained Leaves (B	9)				Microtopographic Relief (D4)
Aquatic Fauna (B13)					FAC-Neutral Test (D5)
Field Observations:					
Surface Water Present?	Yes	No	_ Depth (inches):		
Water Table Present?	Yes	_ No	_ Depth (inches):		
Water Table Present? Saturation Present?	Yes Yes	_ No _ No	_ Depth (inches): _ Depth (inches):	Wetland H	lydrology Present? Yes No
Water Table Present? Saturation Present? (includes capillary fringe)	Yes Yes	_ No _ No	_ Depth (inches):	Wetland H	lydrology Present? Yes No
Water Table Present? Saturation Present? (includes capillary fringe) Describe Recorded Data (stre	Yes Yes am gauge, i	_ No _ No monitoring	_ Depth (inches): _ Depth (inches): well, aerial photos, previous inspec	Wetland H tions), if ava	lydrology Present? Yes No
Water Table Present? Saturation Present? (includes capillary fringe) Describe Recorded Data (stre	Yes Yes am gauge, i	_ No _ No monitoring	_ Depth (inches): _ Depth (inches): well, aerial photos, previous inspec	Wetland H	Iydrology Present? Yes No
Water Table Present? Saturation Present? (includes capillary fringe) Describe Recorded Data (stre Remarks:	Yes Yes eam gauge, i	_ No _ No monitoring	_ Depth (inches): _ Depth (inches): well, aerial photos, previous inspec	Wetland H	lydrology Present? Yes No
Water Table Present? Saturation Present? (includes capillary fringe) Describe Recorded Data (stre Remarks:	Yes Yes am gauge, i	_ No _ No monitoring	_ Depth (inches): _ Depth (inches): well, aerial photos, previous inspec	Wetland H	lydrology Present? Yes No
Water Table Present? Saturation Present? (includes capillary fringe) Describe Recorded Data (stre Remarks:	Yes Yes am gauge, i	_ No _ No monitoring	_ Depth (inches): _ Depth (inches): well, aerial photos, previous inspec	Wetland H	Iydrology Present? Yes No
Water Table Present? Saturation Present? (includes capillary fringe) Describe Recorded Data (stre Remarks:	Yes Yes am gauge, i	_ No No monitoring	_ Depth (inches): _ Depth (inches): well, aerial photos, previous inspec	Wetland H	Iydrology Present? Yes No
Water Table Present? Saturation Present? (includes capillary fringe) Describe Recorded Data (stre Remarks:	Yes Yes am gauge, i	_ No _ No monitoring	_ Depth (inches): _ Depth (inches): well, aerial photos, previous inspec	Wetland H	lydrology Present? Yes No
Water Table Present? Saturation Present? (includes capillary fringe) Describe Recorded Data (stre Remarks:	Yes Yes Pam gauge, I	_ No _ No monitoring	_ Depth (inches): _ Depth (inches): well, aerial photos, previous inspec	Wetland H	lydrology Present? Yes No
Water Table Present? Saturation Present? (includes capillary fringe) Describe Recorded Data (stre Remarks:	Yes Yes am gauge, i	_ No _ No monitoring	_ Depth (inches): _ Depth (inches): well, aerial photos, previous inspec	Wetland H	lydrology Present? Yes No
Water Table Present? Saturation Present? (includes capillary fringe) Describe Recorded Data (stre Remarks:	Yes Yes am gauge, i	_ No _ No monitoring	_ Depth (inches): _ Depth (inches): well, aerial photos, previous inspec	Wetland H	lydrology Present? Yes No
Water Table Present? Saturation Present? (includes capillary fringe) Describe Recorded Data (stre Remarks:	Yes Yes am gauge, i	_ No _ No monitoring	_ Depth (inches): _ Depth (inches): well, aerial photos, previous inspec	Wetland H	Iydrology Present? Yes No
Water Table Present? Saturation Present? (includes capillary fringe) Describe Recorded Data (stre Remarks:	Yes Yes ram gauge, r	_ No _ No monitoring	_ Depth (inches): _ Depth (inches): well, aerial photos, previous inspec	Wetland H	Iydrology Present? Yes No
Water Table Present? Saturation Present? (includes capillary fringe) Describe Recorded Data (stre Remarks:	Yes Yes nam gauge, r	_ No _ No monitoring	_ Depth (inches): _ Depth (inches): well, aerial photos, previous inspec	Wetland H	Iydrology Present? Yes No

#### **VEGETATION (Five Strata) – Use scientific names of plants.**

Sampling Point:

	Absolute Dominant Indicator	Dominance Test worksheet:
Tree Stratum (Plot size:)	<u>% Cover Species? Status</u>	Number of Dominant Species
1		That Are OBL, FACW, or FAC: (A)
2		Total Number of Dominant
3		Species Across All Strata: (B)
4		Percent of Dominant Species
5		That Are OBL, FACW, or FAC: (A/B)
б	Tatal Causa	Prevalence Index worksheet:
		Total % Cover of: Multiply by:
50% of total cover:	20% of total cover:	OBL species x 1 =
Sapling Stratum (Plot size:)		FACW species x 2 =
1		FAC species x 3 =
2		FACU species x 4 =
3		UPL species x 5 =
4		Column Totals: (A) (B)
5		Dravelance lader. D/A
0	– Total Covor	Prevalence index = b/A =
		1 - Papid Test for Hydrophytic Vegetation
50% of total cover:	20% of total cover:	2 - Dominance Test is >50%
Shrub Stratum (Plot size:)		$\frac{2}{2} = \frac{2}{2} = \frac{1}{2} = \frac{1}$
1		$-$ 3 - Flevalence index is $\leq 3.0$
2		data in Remarks or on a separate sheet)
3		Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
4		
5		<sup>1</sup> Indicators of hydric soil and wetland hydrology must
0	Total Cover	be present, unless disturbed or problematic.
		Definitions of Five Vegetation Strata:
50% of total cover:	20% of total cover:	Tree – Woody plants, excluding woody vines,
Herb Stratum (Plot size:)		approximately 20 ft (6 m) or more in height and 3 in.
1		
2		<b>Sapling</b> – Woody plants, excluding woody vines,
3		than 3 in. (7.6 cm) DBH.
4		
5		approximately 3 to 20 ft (1 to 6 m) in height.
б 7		
/		Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody
o		plants, except woody vines, less than approximately 3
9		ft (1 m) in height.
10		Woody vine - All woody vines, regardless of height.
· · · · _	– Total Cover	
50% of total cover:	20% of total cover:	
Woody Vine Stratum (Plot size:)		
1		
<u></u>		
3		
4		
ə	Total Osuar	Hydrophytic
		Vegetation Present? Yes No
50% of total cover:	20% of total cover:	
Remarks: (Include photo numbers here or on a separate	sheet.)	

Profile Desc	ription: (Describe to	the depth ne	eded to docum	nent the ind	icator o	or confirm	the absen	ce of indicate	ors.)	
Depth	Matrix		Redo	x Features						
(inches)	Color (moist)	<u>%</u> C	olor (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture		Remarks	
<sup>1</sup> Type: C=Co	oncentration, D=Deple	tion, RM=Red	uced Matrix, MS	S=Masked Sa	and Gra	ins.	<sup>2</sup> Location:	PL=Pore Lini	ng, M=Matrix	
Hydric Soil I	ndicators:						Ind	licators for P	oblematic H	ydric Soils <sup>3</sup> :
Histosol	(A1)		Dark Surface	(S7)				2 cm Muck (A	A10) <b>(MLRA</b>	147)
Histic Ep	ipedon (A2)		Polyvalue Be	low Surface	(S8) <b>(M</b>	LRA 147,	148)	Coast Prairie	Redox (A16)	)
Black Hi	stic (A3)		Thin Dark Su	rface (S9) <b>(N</b>	ILRA 14	47, 148)		(MLRA 14	7, 148)	
Hydroge	n Sulfide (A4)		_ Loamy Gleye	d Matrix (F2	)			Piedmont Flo	odplain Soils	s (F19)
Stratified	Layers (A5)		_ Depleted Ma	trix (F3)				(MLRA 13	6, 147)	
2 cm Mu	ck (A10) <b>(LRR N)</b>		_ Redox Dark	Surface (F6)				Very Shallow	Dark Surfac	e (TF12)
Depleted	Below Dark Surface	(A11)	_ Depleted Dar	k Surface (F	7)			Other (Expla	in in Remarks	6)
Thick Da	rk Surface (A12)		_ Redox Depre	essions (F8)						
Sandy M	lucky Mineral (S1) <b>(LR</b>	R N,	Iron-Mangan	ese Masses	(F12) <b>(L</b>	.RR N,				
MLRA	147, 148)		MLRA 13	6)						
Sandy G	leyed Matrix (S4)		Umbric Surfa	ce (F13) <b>(MI</b>	LRA 136	6, 122)	3	Indicators of h	ydrophytic ve	getation and
Sandy R	edox (S5)		Piedmont Flo	odplain Soils	s (F19) <b>(</b>	MLRA 148	B)	wetland hydro	logy must be	present,
Stripped	Matrix (S6)		Red Parent N	Aaterial (F21	) (MLRA	A 127, 147	)	unless disturb	ed or problem	natic.
Restrictive L	ayer (if observed):									
Туре:										
Depth (inc	ches):						Hydric S	oil Present?	Yes	No
Remarks:							1			

#### WETLAND DETERMINATION DATA FORM – Eastern Mountains and Piedmont Region

Project/Site: Seaforth Site	_ City/County: Chatham	Sampling Date: <u>10- 8, 2014</u>
Applicant/Owner: TC & I Timber	State: NC	Sampling Point: E of 7.4
Investigator(s): DG	_ Section, Township, Range:	
Landform (hillslope, terrace, etc.): terrace	Local relief (concave, convex, none): <u>none</u>	Slope (%):
Subregion (LRR or MLRA): MLRA Lat: 79.07132	Long: <u>35.71000</u>	Datum: NAD 83
Soil Map Unit Name: <u>GkD</u>	NWI classific	cation:
Are climatic / hydrologic conditions on the site typical for this time of	year? Yes 🚺 No 🦲 (If no, explain in F	Remarks.)
Are Vegetation Soil , or Hydrology significant	tly disturbed? Are "Normal Circumstances"	present? Yes 🖌 No 🦲
Are Vegetation, Soil, or Hydrology naturally p	problematic? (If needed, explain any answe	ers in Remarks.)

#### SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present?	Yes         No           Yes         No         ✓           Yes         No         ✓	Is the Sampled Area within a Wetland?	Yes No
Remarks:			

#### HYDROLOGY

Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)	Surface Soil Cracks (B6)
Surface Water (A1) True Aquatic Plants (B14)	Sparsely Vegetated Concave Surface (B8)
High Water Table (A2) Hydrogen Sulfide Odor (C1)	Drainage Patterns (B10)
Saturation (A3) Oxidized Rhizospheres on Living F	Roots (C3) Moss Trim Lines (B16)
Water Marks (B1) Presence of Reduced Iron (C4)	Dry-Season Water Table (C2)
Sediment Deposits (B2)	ils (C6) Crayfish Burrows (C8)
Drift Deposits (B3)	Saturation Visible on Aerial Imagery (C9)
Algal Mat or Crust (B4) Other (Explain in Remarks)	Stunted or Stressed Plants (D1)
Iron Deposits (B5)	Geomorphic Position (D2)
Inundation Visible on Aerial Imagery (B7)	Shallow Aquitard (D3)
Water-Stained Leaves (B9)	Microtopographic Relief (D4)
Aquatic Fauna (B13)	FAC-Neutral Test (D5)
Field Observations:	
Surface Water Present? Yes No 🗹 Depth (inches):	
Water Table Present? Yes No 🗸 Depth (inches):	
Saturation Present? Yes No Depth (inches):	Wetland Hydrology Present? Yes No
Saturation Present? Yes No 🗸 Depth (inches):	Wetland Hydrology Present? Yes No
Saturation Present?       Yes       No       ✓       Depth (inches):         (includes capillary fringe)       Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspect	Wetland Hydrology Present?       Yes        No       L♥         ions), if available:
Saturation Present? Yes No Yes Depth (inches):	Wetland Hydrology Present? Yes No
Saturation Present? Yes No Depth (inches):	Wetland Hydrology Present? Yes No▼
Saturation Present? Yes No V Depth (inches): (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspect Remarks: Data Point 2	Wetland Hydrology Present? Yes No♥ ions), if available:
Saturation Present? Yes No V Depth (inches): (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspect Remarks: Data Point 2	Wetland Hydrology Present? Yes No▼
Saturation Present?       Yes No _ ✓ Depth (inches):         (includes capillary fringe)       Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspect         Remarks:       Data Point 2	Wetland Hydrology Present? Yes No
Saturation Present? Yes No Pepth (inches): (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspect Remarks: Data Point 2	Wetland Hydrology Present? Yes No
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Saturation Present? Yes No Yes Depth (inches): (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspect Remarks: Data Point 2	Wetland Hydrology Present? Yes No
Saturation Present? Yes No Pepth (inches):	Wetland Hydrology Present? Yes No

#### **VEGETATION (Five Strata) – Use scientific names of plants.**

Sampling Point: DP2

	Absolute	Dominant	Indicator	Dominance Test worksheet:	
Tree Stratum (Plot size:)	% Cover	Species?	Status	Number of Dominant Species	
1. Liriodendron tulipifera	60	у	fac	That Are OBL, FACW, or FAC: 4	(A)
2. Liquidambar styraciflua	20	у	fac	Total New Age of Device of	
3.				I otal Number of Dominant	(B)
4					(D)
4				Percent of Dominant Species	
5				That Are OBL, FACW, or FAC: 100	(A/B)
6				Prevalence Index worksheet:	
		= Total Cove	er	Tetal 0/ Cause of Multiply but	
50% of total cover:	20% of	total cover:		<u>I otal % Cover of:</u> Multiply by:	
Sapling Stratum (Plot size:		-		OBL species x 1 =	
1 Liquidamber styraciflua	10	V	fac	FACW species x 2 =	
1. <u></u>		<u> </u>		FAC species x 3 =	
Z				FACU species x 4 =	
3				UPL species x 5 =	
4				Column Totals: (A)	(B)
5					_ (D)
6.				Prevalence Index = $B/A =$	
		= Total Cove	er	Hydrophytic Vegetation Indicators	
	· · · · · · · · · · · · · · · · · · ·			1 Papid Tast for Hydrophytic Vasstation	
50% of total cover:	20% of	total cover:			
Shrub Stratum (Plot size:)				2 - Dominance Test is >50%	
1				3 - Prevalence Index is ≤3.0 <sup>1</sup>	
2.				4 - Morphological Adaptations <sup>1</sup> (Provide su	oporting
3				data in Remarks or on a separate sheet	
4				Problematic Hydrophytic Vegetation <sup>1</sup> (Expla	uin)
4					
5				<sup>1</sup> Indicators of hydric soil and wetland hydrology	must
6				be present, unless disturbed or problematic.	
		= Total Cove	er	Definitions of Five Vegetation Strata:	
50% of total cover:	20% of	total cover:		Deminions of the vegetation strata.	
50% of total cover:	20% of	total cover:		Tree – Woody plants, excluding woody vines,	- ·
50% of total cover:)	20% of	total cover:	fac	<b>Tree</b> – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and (7.6 cm) or larger in diameter at breast beight (7	3 in.
50% of total cover:) Herb Stratum (Plot size:) 1. Polystichum acrostichoides	20% of	total cover:y	fac	<b>Tree</b> – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and (7.6 cm) or larger in diameter at breast height (E	3 in. )BH).
50% of total cover:) <u>Herb Stratum</u> (Plot size:) 1. Polystichum acrostichoides 2	20% of <u>40</u>	total cover:y	fac	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and (7.6 cm) or larger in diameter at breast height (E Sapling – Woody plants, excluding woody vines	3 in. 0BH). 3,
50% of total cover:) <u>Herb Stratum</u> (Plot size:) 1. Polystichum acrostichoides 2 3	20% of	total cover: <u></u>	fac	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and (7.6 cm) or larger in diameter at breast height (1 Sapling – Woody plants, excluding woody vines approximately 20 ft (6 m) or more in height and	3 in. )BH). S, less
50% of total cover:) <u>Herb Stratum</u> (Plot size:) 1. Polystichum acrostichoides 2 3 4	20% of <u>40</u>	total cover:	fac	<ul> <li>Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and (7.6 cm) or larger in diameter at breast height (1</li> <li>Sapling – Woody plants, excluding woody vines approximately 20 ft (6 m) or more in height and than 3 in. (7.6 cm) DBH.</li> </ul>	3 in. DBH). S, less
50% of total cover:) <u>Herb Stratum</u> (Plot size:) 1. Polystichum acrostichoides 2 3 4 5.	20% of <u>40</u>	total cover: <u>_</u>	fac	<ul> <li>Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and (7.6 cm) or larger in diameter at breast height (1</li> <li>Sapling – Woody plants, excluding woody vines approximately 20 ft (6 m) or more in height and than 3 in. (7.6 cm) DBH.</li> <li>Shrub – Woody plants, excluding woody vines.</li> </ul>	3 in. 0BH). s, less
50% of total cover:         Herb Stratum (Plot size:)         1. Polystichum acrostichoides         2	20% of 40 	total cover:	fac	<ul> <li>Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and (7.6 cm) or larger in diameter at breast height (E</li> <li>Sapling – Woody plants, excluding woody vines approximately 20 ft (6 m) or more in height and than 3 in. (7.6 cm) DBH.</li> <li>Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.</li> </ul>	3 in. )BH). s, less
50% of total cover:         Herb Stratum (Plot size:)         1. Polystichum acrostichoides         2	20% of <u>40</u>	total cover: <u>_</u>	fac	<ul> <li>Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and (7.6 cm) or larger in diameter at breast height (E</li> <li>Sapling – Woody plants, excluding woody vines approximately 20 ft (6 m) or more in height and than 3 in. (7.6 cm) DBH.</li> <li>Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.</li> </ul>	3 in. 0BH). S, less
50% of total cover:	20% of 40  	total cover:	fac	<ul> <li>Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and (7.6 cm) or larger in diameter at breast height (E</li> <li>Sapling – Woody plants, excluding woody vines approximately 20 ft (6 m) or more in height and than 3 in. (7.6 cm) DBH.</li> <li>Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.</li> <li>Herb – All herbaceous (non-woody) plants, incluberbaceous vines aparalless of size, and wood</li> </ul>	3 in. 9BH). s, less
50% of total cover:	20% of 40  	total cover:	fac	<ul> <li>Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and (7.6 cm) or larger in diameter at breast height (E</li> <li>Sapling – Woody plants, excluding woody vines approximately 20 ft (6 m) or more in height and than 3 in. (7.6 cm) DBH.</li> <li>Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.</li> <li>Herb – All herbaceous (non-woody) plants, incluse herbaceous vines, regardless of size, and wood plants, except woody vines, less than approximate.</li> </ul>	3 in. )BH). s, less uding y ately 3
50% of total cover:	20% of 40  	total cover:	fac	<ul> <li>Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and (7.6 cm) or larger in diameter at breast height (E</li> <li>Sapling – Woody plants, excluding woody vines approximately 20 ft (6 m) or more in height and than 3 in. (7.6 cm) DBH.</li> <li>Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.</li> <li>Herb – All herbaceous (non-woody) plants, incluse herbaceous vines, regardless of size, and wood plants, except woody vines, less than approximately (1 m) in height.</li> </ul>	3 in. 9BH). s, less uding y ately 3
50% of total cover:	20% of 40  	total cover:	fac	<ul> <li>Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and (7.6 cm) or larger in diameter at breast height (1.5 Sapling – Woody plants, excluding woody vines approximately 20 ft (6 m) or more in height and than 3 in. (7.6 cm) DBH.</li> <li>Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.</li> <li>Herb – All herbaceous (non-woody) plants, incluse herbaceous vines, regardless of size, and wood plants, except woody vines, less than approximately (1 m) in height.</li> </ul>	3 in. 9BH). s, less uding y ately 3
50% of total cover:	20% of 40 	total cover:	fac	<ul> <li>Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and (7.6 cm) or larger in diameter at breast height (1.5 Sapling – Woody plants, excluding woody vines approximately 20 ft (6 m) or more in height and than 3 in. (7.6 cm) DBH.</li> <li>Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.</li> <li>Herb – All herbaceous (non-woody) plants, incluse herbaceous vines, regardless of size, and wood plants, except woody vines, less than approximately.</li> <li>Woody vine – All woody vines, regardless of herbaceous of herbaceous vines.</li> </ul>	3 in. DBH). s, less uding y ately 3 sight.
50% of total cover:	20% of 40 	total cover:	fac	<ul> <li>Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and (7.6 cm) or larger in diameter at breast height (1.5 Sapling – Woody plants, excluding woody vines approximately 20 ft (6 m) or more in height and than 3 in. (7.6 cm) DBH.</li> <li>Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.</li> <li>Herb – All herbaceous (non-woody) plants, incluse herbaceous vines, regardless of size, and wood plants, except woody vines, less than approximately.</li> <li>Woody vine – All woody vines, regardless of herbaceous of herbaceous vines.</li> </ul>	3 in. 0BH). s, less uding y ately 3 eight.
50% of total cover:	20% of 40  	total cover:	fac	<ul> <li>Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and (7.6 cm) or larger in diameter at breast height (1.5 Sapling – Woody plants, excluding woody vines approximately 20 ft (6 m) or more in height and than 3 in. (7.6 cm) DBH.</li> <li>Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.</li> <li>Herb – All herbaceous (non-woody) plants, incluse herbaceous vines, regardless of size, and wood plants, except woody vines, less than approximately.</li> <li>Woody vine – All woody vines, regardless of hermatical structures.</li> </ul>	3 in. 0BH). s, less uding y ately 3 eight.
50% of total cover:	20% of 40      	total cover:	fac	<ul> <li>Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and (7.6 cm) or larger in diameter at breast height (I Sapling – Woody plants, excluding woody vines approximately 20 ft (6 m) or more in height and than 3 in. (7.6 cm) DBH.</li> <li>Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.</li> <li>Herb – All herbaceous (non-woody) plants, incluse herbaceous vines, regardless of size, and wood plants, except woody vines, less than approximate (1 m) in height.</li> <li>Woody vine – All woody vines, regardless of hermal statements.</li> </ul>	3 in. )BH). s, less uding y ately 3 eight.
50% of total cover:	20% of 40      	total cover:	fac	<ul> <li>Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and (7.6 cm) or larger in diameter at breast height (I Sapling – Woody plants, excluding woody vines approximately 20 ft (6 m) or more in height and than 3 in. (7.6 cm) DBH.</li> <li>Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.</li> <li>Herb – All herbaceous (non-woody) plants, incluse herbaceous vines, regardless of size, and wood plants, except woody vines, less than approximate (1 m) in height.</li> <li>Woody vine – All woody vines, regardless of hermal size and so the second seco</li></ul>	3 in. )BH). s, less uding y ately 3 eight.
50% of total cover:	20% of 40      	total cover:	fac	<ul> <li>Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and (7.6 cm) or larger in diameter at breast height (1.5 Sapling – Woody plants, excluding woody vines approximately 20 ft (6 m) or more in height and than 3 in. (7.6 cm) DBH.</li> <li>Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.</li> <li>Herb – All herbaceous (non-woody) plants, incluse herbaceous vines, regardless of size, and wood plants, except woody vines, less than approximately (1 m) in height.</li> <li>Woody vine – All woody vines, regardless of herbaceous vines.</li> </ul>	3 in. )BH). s, less uding y ately 3 eight.
50% of total cover:	20% of 40      	total cover:	fac	<ul> <li>Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and (7.6 cm) or larger in diameter at breast height (1.5 Sapling – Woody plants, excluding woody vines approximately 20 ft (6 m) or more in height and than 3 in. (7.6 cm) DBH.</li> <li>Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.</li> <li>Herb – All herbaceous (non-woody) plants, incluse herbaceous vines, regardless of size, and wood plants, except woody vines, less than approximatel (1 m) in height.</li> <li>Woody vine – All woody vines, regardless of herbaceous of herbaceous vines, regardless of herbaceous vines, regar</li></ul>	3 in. )BH). s, less uding y ately 3 eight.
50% of total cover:	20% of 40      	total cover:	fac	<ul> <li>Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and (7.6 cm) or larger in diameter at breast height (1.5 Sapling – Woody plants, excluding woody vines approximately 20 ft (6 m) or more in height and than 3 in. (7.6 cm) DBH.</li> <li>Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.</li> <li>Herb – All herbaceous (non-woody) plants, incluse herbaceous vines, regardless of size, and wood plants, except woody vines, less than approximately (1 m) in height.</li> <li>Woody vine – All woody vines, regardless of herbaceous of herbaceous vines, regardless of herbaceous vines, rega</li></ul>	3 in. 9BH). s, less uding y ately 3 eight.
50% of total cover:	20% of 40      	total cover:	fac	<ul> <li>Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and (7.6 cm) or larger in diameter at breast height (1.5 Sapling – Woody plants, excluding woody vines approximately 20 ft (6 m) or more in height and than 3 in. (7.6 cm) DBH.</li> <li>Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.</li> <li>Herb – All herbaceous (non-woody) plants, incluse herbaceous vines, regardless of size, and wood plants, except woody vines, less than approximately (1 m) in height.</li> <li>Woody vine – All woody vines, regardless of herbaceous of herbaceous vines, regardless vines, re</li></ul>	3 in. 9BH). 3, less uding y ately 3 eight.
50% of total cover:	20% of 	total cover:	fac	<ul> <li>Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and (7.6 cm) or larger in diameter at breast height (1.5 Sapling – Woody plants, excluding woody vines approximately 20 ft (6 m) or more in height and than 3 in. (7.6 cm) DBH.</li> <li>Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.</li> <li>Herb – All herbaceous (non-woody) plants, incluse herbaceous vines, regardless of size, and wood plants, except woody vines, less than approximatel (1 m) in height.</li> <li>Woody vine – All woody vines, regardless of herbaceous of herbaceous vines, regardless vines, regardless views view</li></ul>	3 in. DBH). s, less uding y ately 3 sight.
50% of total cover:	20% of 40      	total cover:	fac	<ul> <li>Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and (7.6 cm) or larger in diameter at breast height (1.5 Sapling – Woody plants, excluding woody vines approximately 20 ft (6 m) or more in height and than 3 in. (7.6 cm) DBH.</li> <li>Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.</li> <li>Herb – All herbaceous (non-woody) plants, incluse herbaceous vines, regardless of size, and wood plants, except woody vines, less than approximately (1 m) in height.</li> <li>Woody vine – All woody vines, regardless of herbaceous of herbaceous vines, regardless v</li></ul>	3 in. DBH). s, less uding y ately 3 eight.
50% of total cover:	20% of 40     	total cover:	fac	<ul> <li>Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and (7.6 cm) or larger in diameter at breast height (1.5 Sapling – Woody plants, excluding woody vines approximately 20 ft (6 m) or more in height and than 3 in. (7.6 cm) DBH.</li> <li>Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.</li> <li>Herb – All herbaceous (non-woody) plants, incluse herbaceous vines, regardless of size, and wood plants, except woody vines, less than approximately (1 m) in height.</li> <li>Woody vine – All woody vines, regardless of herbaceous of herbaceous vines, regardless v</li></ul>	3 in. DBH). s, less uding y ately 3 eight.
50% of total cover:           Herb Stratum (Plot size:           1. Polystichum acrostichoides           2.           3.           4.           5.           6.           7.           8.           9.           10.           11.           50% of total cover:           Woody Vine Stratum (Plot size:           1.           2.           3.           4.           50% of total cover:           Yoody Vine Stratum (Plot size:           1.           2.           3.           4.           5.           50% of total cover:	20% of 40      	total cover:	fac	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and (7.6 cm) or larger in diameter at breast height (I         Sapling – Woody plants, excluding woody vines approximately 20 ft (6 m) or more in height and than 3 in. (7.6 cm) DBH.         Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.         Herb – All herbaceous (non-woody) plants, incluse herbaceous vines, regardless of size, and wood plants, except woody vines, less than approximately (1 m) in height.         Woody vine – All woody vines, regardless of herbaceous of herbaceous vines, regardless of herbaceous of herbaceous vines, regardless vines, regardless of herbaceous vines, regardless	3 in. DBH). s, less uding y ately 3 eight.
50% of total cover:           Herb Stratum (Plot size:           1. Polystichum acrostichoides           2.           3.           4.           5.           6.           7.           8.           9.           10.           11.           50% of total cover:           Woody Vine Stratum (Plot size:           9.           1.           2.           3.           4.           50% of total cover:           50% of total cover:           50% of total cover:           50% of total cover:	20% of 40      	total cover:	fac	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and (7.6 cm) or larger in diameter at breast height (I         Sapling – Woody plants, excluding woody vines approximately 20 ft (6 m) or more in height and than 3 in. (7.6 cm) DBH.         Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.         Herb – All herbaceous (non-woody) plants, incluse herbaceous vines, regardless of size, and wood plants, except woody vines, less than approximately (1 m) in height.         Woody vine – All woody vines, regardless of herbaceous of herbaceous vines, regardless of herbaceous of herbaceous vines, regardless vines, regardless of herbaceous vines, regardless	3 in. DBH). s, less uding y ately 3 eight.

Depth	Matrix	Redox Features		,
(inches)	Color (moist) %	Color (moist) % Type <sup>1</sup> Loc <sup>2</sup>	Texture	Remarks
0-12	10yr 4/4		SCL	
			·	
<sup>1</sup> Type: $C=Cc$	procentration D=Depletion RM	Reduced Matrix MS=Masked Sand Grains	<sup>2</sup> Location: P	I=Pore Lining M=Matrix
Hydric Soil I	ndicators:		Indic	ators for Problematic Hydric Soils <sup>3</sup> :
	(A1)	Dark Surface (S7)		cm Muck (A10) (MI BA 147)
	$(\Delta I)$	$\square Polyvalue Below Surface (S8) (MLRA 147)$	148)	Coast Prairie Redox (A16)
	stic $(\Delta 3)$	Thin Dark Surface (S9) (MI RA 147, 148)		(MI RA 147 148)
	n Sulfide ( $\Delta 4$ )			Piedmont Floodplain Soils (F19)
	Lavers (A5)	$\square \text{ Depleted Matrix (F3)}$		(MI RA 136 147)
	ick (A10) <b>(I BB N)</b>	$\square$ Bedox Dark Surface (F6)		(erv Shallow Dark Surface (TE12)
	Below Dark Surface (A11)	Depleted Dark Surface (F7)		Other (Explain in Remarks)
	ark Surface (A12)	Redox Depressions (F8)	~	
Sandy M	lucky Mineral (S1) (LRR N.	Iron-Manganese Masses (F12) (LRR N.		
MLRA	147. 148)	MLRA 136)		
Sandy G	ileved Matrix (S4)	Umbric Surface (F13) (MLRA 136, 122)	<sup>3</sup> Ind	licators of hydrophytic vegetation and
Sandy R	edox (S5)	Piedmont Floodplain Soils (F19) (MLRA 14	8) we	etland hydrology must be present.
Stripped	Matrix (S6)	Red Parent Material (F21) (MLRA 127, 147	) un	less disturbed or problematic.
Restrictive L	_aver (if observed):		,	i
Type:	2 ( )			
Depth (inc	chec).		Hydric Soil	Present? Ves No V
			Tryunc 30h	
Remarks:				





# SEAFORTH LANDING SURFACE WATER EXHIBIT CHATHAM COUNTY, NC APRIL 14, 2015

AKPAR: 17487

SITE	EDATA:	
PIN:	9771-83-6	6515
SITE AREA:	± 107.85	Ac.
TOTAL LOTS:	± 45 LOT	S
AVERAGE LOT	SIZE: ± 2.2 Ac.	
LENGTH OF R	DADS: ± 4,989 Ll	F
	QUALITY POND	
WATER (	QUALITY POND	
WATER O	QUALITY POND	
WATER O	QUALITY POND	
		CE GROUP
water water $\sqrt{1000}$ water $\sqrt{1000}$		THERE THE STREET THE STREET ST

## 1. IMFORMATION PROVIDED BY S&EC

- 2. STREAM CALLS BASED UPON ACOE FIELD MEETING
- 3. EPHEMERIAL CALLS PENDING