Survey Description	on							
Project Name:		Waterbody Na	me:		W	aterbody ID:		Date:
Atlantic Coast Pipe	eline	UNT to Blac	kwater Rive	er	SS	sua004		12/8/2014
State:	County:		Company:		Crew I	Member Initials:	Photos	5:
Virginia	Suffolk		NRG		GB, F	RL	3 pho	otos
Tract Number(s):			Nearest Mile	epost:	1	Associated We	tland ID(s):	
26-003; 26-002; ad	ccess road 71b		37.75			wsua008		
Survey Type: (check one)	⊠Centerline	e □Re-I	Route	⊠Access Road		□Other:		
Physical Attribute	es							
Stream Classification (check one)		al ⊡Inte	rmittent	⊠Perennial				
Waterbody Type:								
	□River ⊠ Str	ream 🗌 Dito	ch 🗆 Ca	anal 🗌 Other:	:			
ОНШМ	OHWM Indica							
Width: ft.	(check all that appl	<i>y)</i>	☑ Clear lir on bank	ne ⊡Shelvin	g	□Wrested vegetation	Scour	ing □Water staining
Height:	'	natted, or missir	ng ⊠Wrack li		nd	□Abrupt plant		characteristic change
<u>1.5_</u> ft. N/A□	vegetatio	n		debris		community cha	nge	
Width of Waterbody - Bank to Top of Bank:		of Waterbody - of Slope:	Toe of Slope	Width of Waterbo Water Edge:	ody - W	ater Edge to D	epth of Wat	er:
•		•		Ū			,	_0.75_ ft.
<u>_7.0</u> ft.	-	<u>3.0</u> ft.			<u>3.25_</u> ft.		/A□	<u>_0.75_</u> n.
Sinuosity:		velocity:		Bank height		В	ank slope	
(check one)	(Approx.)	1		Right:	"		Rig	
		<u>_0.75</u> fp	S	Left:	<u>3.0_</u> ft.		L	<u>60</u> degrees eft:
Meander	ing N/A□				<u>3.0_</u> ft.			<u>80</u> degrees
Qualitative Attrib	utes							
Water Appearance: (check one)	\Box No water \boxtimes	Clear DTurk		een ⊡Sui surface sci		□Algal □ mats	Other:	
Substrate:	Bedrock Bo	oulder 🗆 Cobb	ole 🗆 Grave	el 🛛 Sand 🛛	⊠ Silt/ c	lay 🛛 Organic	□ Other:	
(check all that apply) % of Substrate:	0/	0/	0/			, 0		
	%	%	_%	% <u>70</u> % _	<u>25_</u> %	<u> 5 </u> %	%	
Width of Riparian Zon	e: Vegetative (check all that		⊠ Trees		⊠ Saplir	ngs/Shrubs:	⊠ Herbs	5
<u>_100.0_ft</u> . N/A□	Avg. DBH (approx.)	of Dominants:	<u>8.0</u> in.		<u>1.5_</u> in	•		
Dominant Bank Veget	ation (list):							
Sweetgum, sycam honevsuckle, cross	<u>s vine, cane, wo</u>	odland seda	е			-	-	-
Aquatic Habitats (ex: s Pools, coarse woo				banks/roots, leaf pac	ks, large	submerged wood, i	iffles, deep po	ools):
Aquatic Organisms O	bserved (list):							
Minnows, frog								
T&E Species Observe	d (list):							
none								
Disturbances (ex: lives	tock access, manure i	in waterbody, wast	e discharge pipe	es):				
Run-off and sedim	ent load from a	gricultural fiel	ds, culvert	crossing for dir	t road	(access road	71b)	
Tributary is: (check one)	⊠ Natural	□ Ar	tificial, man-m	ade 🗆 Manip	ulated			
Stream Quality ^a :	□ L!!L		adarata	□ I				
(check one)	🗆 High	⊠ Mo	oderate	🗆 Low				

ssua004

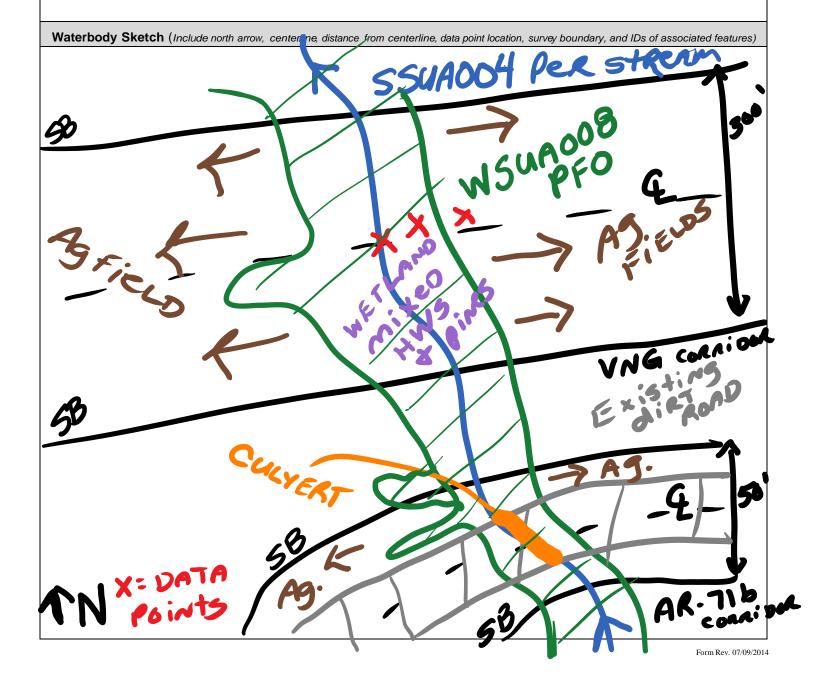
High Quality: Natural channel, natural vegetation extends at least one or two active channel widths on each side; banks stable and protected by roots; water color is clear to tea-colored; no barriers to fish movement; many fish cover types available; diverse and stable aquatic habitat; no disturbance by livestock or man.

Moderate Quality: Altered channel evidenced by rip-rap; natural vegetation extends 1/3-1/2 of the active channel width on each side; filtering function or riparian vegetation only moderately compromised; banks moderately unstable; water color is cloudy, submerged objects covered with greenish film; moderate odor; minor barriers to fish movement; fair aquatic habitat; minimum disturbance by livestock or man.

Low Quality: Channel is actively down cutting or widening; rip rap and channelization excessive; natural vegetation less than 1/3 of the active channel width on each side; lack of regeneration; filtering function severely compromised; banks unstable (eroding); water color is muddy and turbid; obvious pollutants (algal mats, surface scum, surface sheen); heavy odor; severe barriers to fish movement; little to no aquatic habitat; severe disturbance from livestock or man.

Notes:

Stream continues out of VNG lateral corridor and access road 71b corridors in both directions; flows through PFO wetland wsua008; culvert crossing for existing dirt road.





Waterbody SSUA004 facing north downstream



Waterbody SSUA004 facing south upstream



Waterbody SSUA004 facing west across

Linear Waterbod	y Data She	et								
Survey Description Project Name:	n	Watarbad	Nama				Waterbody ID:			Date:
Atlantic Coast Pipel	ino	Waterbody	lackwater	Divor			Waterbody ID: ssua005			12/10/2014
· · · · ·						-				
State:	County:		Compai	ny:			w Member Initials	5:	Photos:	
Virginia	Suffolk		NRG			GB	, RL		3 phot	OS
Tract Number(s):			Nearest	Milepo	st:		Associated W	etland	ID(s):	
26-007; 26-009			38.05				NONE			
Survey Type: (check one)	⊠Centerl	line 🗆	Re-Route	[□Access Ro	bad	□Other:			
Physical Attributes	s									
Stream Classification:										
(check one)	Ephem	eral 🛛	Intermittent	[Perennial					
Waterbody Type: (check one)	River 🛛 S	Stream 🗆	Ditch	🗆 Cana	I Dt	her:				
OHWM Width: 3.0 ft.	OHWM Indi (check all that a		⊠ Cle on bai	ear line nk	□She	lving	□Wrested vegetation		Scourin	g ⊟Water staining
Height:ft.	□Ben vegeta	t, matted, or m ation	issing ⊠Wra	ack line	□Litte debris	r and	☐Abrupt plar community ch		⊡Soil c	haracteristic change
N/A□ Width of Waterbody - T Bank to Top of Bank:		th of Waterboo oe of Slope:	dy - Toe of S		dth of Wate	erbody -	Water Edge to	Depth (Approx.	of Wate	r:
<u></u>		<u>_2.0</u> ft.				2.5_		N/A□	,	<u>0.25</u> ft.
Sinuosity:	Wate	er velocity:		-	nk height			Bank	slope	
(check one)	(Appro				Right				Right	t:
		0.33	<u>}_</u> fps		Left	<u>3.0</u>	_ft.		Lef	<u>60</u> degrees t:
	ng N/A					2.5	_ft.			60 degrees
Qualitative Attribu	tes									
Water Appearance: (check one)	No water	⊠Clear □	Turbid	□Sheer on su		Surface scum	□Algal mats	□Othe	er:	
	Bedrock	Boulder 🗆 (Cobble 🗆 (Gravel	⊠ Sand	⊠ Sil	t/ clay 🛛 Organio	; []	Other:	
(check all that apply) % of Substrate:	%	%	%	%	<u>35</u> %	55 9	% <u>10</u> %		%	
Width of Riparian Zone	(check all t			rees:		⊠ Sa	plings/Shrubs:	Σ	∃ Herbs	
<u>ft</u> ∙ N/A⊠	avg. De (approx.)	3H of Domina	nts: _ <u>13</u>	<u>3.0_</u> in.		<u> 1.5 </u>	_in.			
Dominant Bank Vegeta	tion (list):									
Sweetgum, red map	ole, loblolly p	ine, beech,	water oak,	sweet	bay, Jap	anese	honeysuckle,	green	brier, ca	ane, panic grass
Aquatic Habitats (ex: su	bmerged or emer	ged aquatic vege	etation, overhar	nging ban	ks/roots, leaf	packs, la	rge submerged wood	l, riffles,	deep poo	ls):
Leaf packs, small w	rack piles									
Aquatic Organisms Ob	served (list):									
none										
T&E Species Observed	(list):									
none										
Disturbances (ex: livesto	ock access, manu	re in waterbody,	waste discharg	e pipes):						
Agricultural run-off,	clear cut ups	stream								
Tributary is: (check one)	⊠ Natura	al 🗆	☐ Artificial, ma	an-made	e 🗆 Ma	nipulate	d			
Stream Quality ^a : (check one)	□ High	Σ	Moderate		□ Lov	v				

ssua005

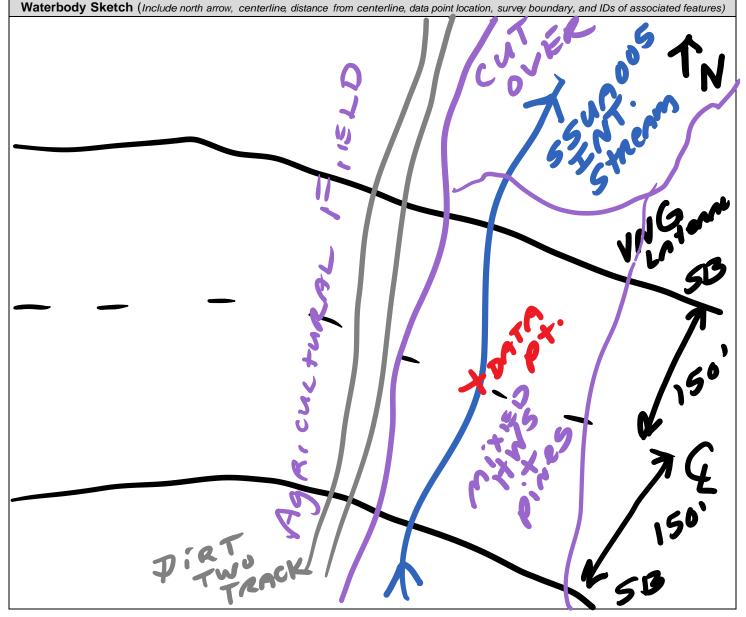
High Quality: Natural channel, natural vegetation extends at least one or two active channel widths on each side; banks stable and protected by roots; water color is clear to tea-colored; no barriers to fish movement; many fish cover types available; diverse and stable aquatic habitat; no disturbance by livestock or man.

Moderate Quality: Altered channel evidenced by rip-rap; natural vegetation extends 1/3-1/2 of the active channel width on each side; filtering function or riparian vegetation only moderately compromised; banks moderately unstable; water color is cloudy, submerged objects covered with greenish film; moderate odor; minor barriers to fish movement; fair aquatic habitat; minimum disturbance by livestock or man.

Low Quality: Channel is actively down cutting or widening; rip rap and channelization excessive; natural vegetation less than 1/3 of the active channel width on each side; lack of regeneration; filtering function severely compromised; banks unstable (eroding); water color is muddy and turbid; obvious pollutants (algal mats, surface scum, surface sheen); heavy odor; severe barriers to fish movement; little to no aquatic habitat; severe disturbance from livestock or man.

Notes:

Continues out of corridor in both directions. Parallels agricultural field in a strip of mixed hardwoods and pines.





Waterbody SSUA005 facing north downstream



Waterbody SSUA005 facing south upstream



Waterbody SSUA005 facing west across

Survey Descriptio	n								
Project Name:		Waterbody Na			W	aterbody ID:		ſ	Date:
Atlantic Coast Pipel	ine	UNT to Black	water Rive	er	SS	sua006		1	12/10/2014
State:	County:		Company:		Crew M	Member Initials	5: I	Photos:	
Virginia	Suffolk		NRG		GB, F	RL		3 photo	OS
Tract Number(s):			Nearest Mile	epost:		Associated W	etland	ID(s):	
26-012			38.35			wsua009			
Survey Type: (check one)	⊠Centerline	□Re-F	Route	□ Access Road		□Other:			
Physical Attribute	s								
Stream Classification: (check one)	Ephemera	I ⊠Inter	mittent	Perennial					
Waterbody Type: (check one)	River Stre	eam 🗆 Dito	:h □Ca	anal 🗌 Other:					
OHWM Width: <u>3.0 f</u> t.	OHWM Indicat (check all that apply		⊠ Clear lir on bank	ne 🗆 Shelving	g	□Wrested vegetation		Scouring	□Water staining
Height: ft. N/A□	□Bent, n vegetatio	natted, or missin n	g	ne ⊠Litter ar debris	nd	□ Abrupt plar community ch		□Soil ch	aracteristic change
Width of Waterbody - 1 Bank to Top of Bank:		of Waterbody - ` of Slope:	Toe of Slope	Width of Waterbo Water Edge:	ody - W	ater Edge to	Depth (Approx.)	of Water	
<u>3.0</u> ft.	-	<u>1.5_</u> ft.		N/A□	<u>2.0_</u> ft.		N/A□	_	<u>0.25</u> ft.
Sinuosity: (check one)	(Approx.)	/elocity: 0.33_fp	S	Bank height Right: Left:	<u>1.0_</u> ft.		Bank s	lope Right: Left:	80 degrees
Meanderi	ng N/A□			-	<u>1.0_</u> ft.				40 degrees
Qualitative Attribu	tes								
Water Appearance: (check one)	[]] No water ⊠C	Clear □Turb		leen ⊡Sui surface scu		□Algal mats	□Other	:	
	Bedrock 🗆 Bo	ulder 🗆 Cobb	le 🗆 Grave	el 🛛 Sand 🛛	⊠ Silt/ c	lay 🛛 Organio	; □C	Other:	
(check all that apply) % of Substrate:	%	_%	_%	% <u>25</u> %	<u>65_</u> %	<u> 10 </u> %		%	
Width of Riparian Zone ft. N/A⊠	(check all that Avg. DBH (approx.)		⊠ Trees _14.0_i		⊠ Saplir _ <u>1.5_</u> in	ngs/Shrubs:		Herbs	
Dominant Bank Vegeta									
Red maple, yellow	poplar, loblolly	pone, Americ	an holly, b	eech, sweetgui	m, swe	eet bay, swe	etleaf,	cane	
Aquatic Habitats (ex: su	ubmerged or emerged	l aquatic vegetatio	n, overhanging	banks/roots, leaf pac	ks, large	submerged wood	l, riffles, o	deep pools	s):
Leaf packs									
Aquatic Organisms Ob	served (list):								
none									
T&E Species Observed none	l (list):								
Disturbances (ex: livesto	ock access. manure ir	n waterbody. waste	e discharae pipe	es):					
None apparent				/					
Tributary is: (check one)	⊠ Natural	□ Ari	ificial, man-m	ade 🗆 Manipi	ulated				

Stream Quality ^a :			
(check one)	🗆 High	⊠ Moderate	

ssua006

High Quality: Natural channel, natural vegetation extends at least one or two active channel widths on each side; banks stable and protected by roots; water color is clear to tea-colored; no barriers to fish movement; many fish cover types available; diverse and stable aquatic habitat; no disturbance by livestock or man.

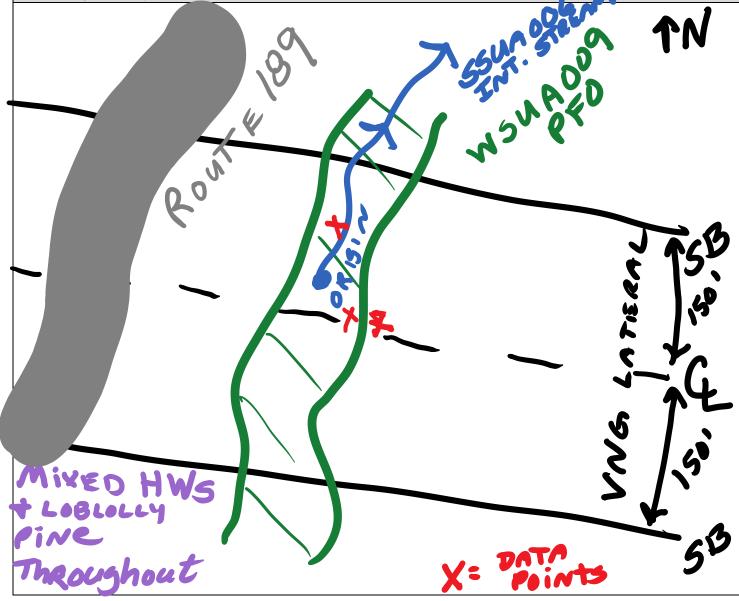
Moderate Quality: Altered channel evidenced by rip-rap; natural vegetation extends 1/3-1/2 of the active channel width on each side; filtering function or riparian vegetation only moderately compromised; banks moderately unstable; water color is cloudy, submerged objects covered with greenish film; moderate odor; minor barriers to fish movement; fair aquatic habitat; minimum disturbance by livestock or man.

Low Quality: Channel is actively down cutting or widening; rip rap and channelization excessive; natural vegetation less than 1/3 of the active channel width on each side; lack of regeneration; filtering function severely compromised; banks unstable (eroding); water color is muddy and turbid; obvious pollutants (algal mats, surface scum, surface sheen); heavy odor; severe barriers to fish movement; little to no aquatic habitat; severe disturbance from livestock or man.

Notes:

Begins as outflow from PFO wetland wsua009 near centerline, downstream continues out of corridor.

Waterbody Sketch (Include north arrow, centerline, distance from centerline, data point location, survey boundary, and the sociated features)





Waterbody SSUA006 facing north downstream



Waterbody SSUA006 facing south upstream



Waterbody SSUA006 facing west across

Survey Descripti	on								
Project Name:		Waterbody N			w	aterbody ID:			Date:
Atlantic Coast Pipe	eline	UNT to Bla	ckwater Rive	er	S	sua007			12/10/2014
State:	County:		Company:		Crew I	Member Initials	:	Photos:	
Virginia	Suffolk		NRG		GB, F	RL	3 photos		
Tract Number(s):			Nearest Mile	epost:	1	Associated W	etland	ID(s):	
26-012			38.5			wsua010			
Survey Type: (check one)	⊠Centerli	ne 🗆 Re	-Route	□Access Road	1	□Other:			
Physical Attribut	es								
Stream Classification (check one)	Ephem	eral 🛛 Int	ermittent	⊠Perennial					
Waterbody Type: (check one)	□River ⊠ S	Stream 🗆 D	itch 🗆 C	anal 🗆 Other	:				
OHWM Width: 5.0 ft.	OHWM Indi (check all that ap		⊠ Clear lir on bank	ne 🗆 Shelvin	g	□Wrested vegetation		Scouring	g ⊟Water staining
Height: 	□Bent vegeta	, matted, or miss tion	ing ⊠Wrack li	ine ⊠Litter ar debris	nd	□Abrupt plan community ch		□Soil cl	haracteristic change
Width of Waterbody -			- Toe of Slope	Width of Waterb	ody - W	ater Edge to		of Water	:
Bank to Top of Bank:	to To	e of Slope:		Water Edge:			(Approx.)		
<u>_6.0</u> ft.		<u>4.0</u> ft.			<u>4.5_</u> ft.		N/A□	-	<u>0.75</u> ft.
Sinuosity:	Wate	er velocity:		N/A D Bank height			Bank s	lope	
(check one)	(Appro			Right:				Right	:
		0.33	fps	Left:	<u>2.0_</u> ft.			Left	<u>90</u> degrees
⊠Meande	ring N/A	ב			<u>2.0_</u> ft.				70 degrees
Qualitative Attrib	utes								
Water Appearance: (check one)	□No water	⊠Clear ⊡Tu			rface um	□Algal [mats	Other	r:	
Substrate:	Bedrock	Boulder 🗆 Co	bble 🛛 Grav	el 🛛 Sand 🛛	⊠ Silt/ c	clay 🛛 Organic	: D C	Other:	
(check all that apply) % of Substrate:	%	%	_%		<u>40_</u> %	<u> 5 %</u>		%	
Width of Riparian Zor		ive Layers:							
<u>_90.0_ft</u> - N/A□	(check all t Avg. DE (approx.)	hat apply) H of Dominants	⊠ Trees <u>15.0_</u> i		⊠ Saplir _ <u>1.5_</u> in	ngs/Shrubs: ı.	X	Herbs	
Dominant Bank Vege	,								
Black gum, yellow	poplar, lobloll	y pine, sweet	gum, sweet l	bay, American	holly,	cane, netted	chain	fern	
Aquatic Habitats (ex:	submerged or emerged	ged aquatic vegeta	tion, overhanging	banks/roots, leaf pac	ks, large	e submerged wood	, riffles,	deep pool	s):
Pools, leaf packs,	wrack piles								
Aquatic Organisms C	Observed (list):								
minnows, crayfish									
T&E Species Observe	ed (list):								
none									
Disturbances (ex: live	stock access, manur	e in waterbody, wa	ste discharge pip	es):					
None apparent									
Tributary is: (check one)	⊠ Natura		Artificial, man-m	nade 🗆 Manip	ulated				
Stream Quality ^a : (check one)	🗆 High		Moderate	□ Low					

ssua007

High Quality: Natural channel, natural vegetation extends at least one or two active channel widths on each side; banks stable and protected by roots; water color is clear to tea-colored; no barriers to fish movement; many fish cover types available; diverse and stable aquatic habitat; no disturbance by livestock or man.

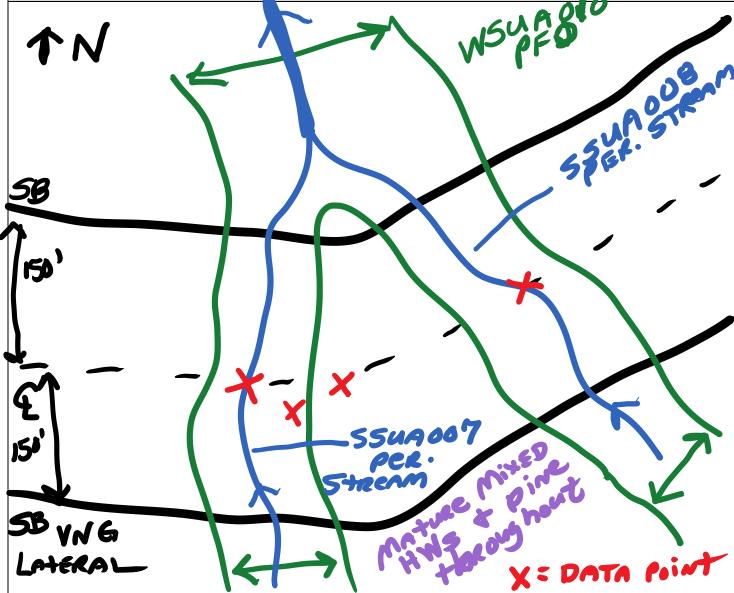
Moderate Quality: Altered channel evidenced by rip-rap; natural vegetation extends 1/3-1/2 of the active channel width on each side; filtering function or riparian vegetation only moderately compromised; banks moderately unstable; water color is cloudy, submerged objects covered with greenish film; moderate odor; minor barriers to fish movement; fair aquatic habitat; minimum disturbance by livestock or man.

Low Quality: Channel is actively down cutting or widening; rip rap and channelization excessive; natural vegetation less than 1/3 of the active channel width on each side; lack of regeneration; filtering function severely compromised; banks unstable (eroding); water color is muddy and turbid; obvious pollutants (algal mats, surface scum, surface sheen); heavy odor; severe barriers to fish movement; little to no aquatic habitat; severe disturbance from livestock or man.

Notes:

Continues out of corridor in both directions, flows into ssua008 north of corridor, flows through PFO wetland wsua010.

Waterbody Sketch (Include north arrow, centerine, distance from centerline, data point location, survey boundary, and Ds of associated features)





Waterbody SSUA007 facing north downstream



Waterbody SSUA007 facing south upstream



Waterbody SSUA007 facing west across

Survey Description	on								
Project Name:		Waterbody Na	me:		v	aterbody ID:			Date:
Atlantic Coast Pipe		UNT to Blac		ər		sua008	<u> </u>		12/10/2014
State:	County:		Company:		Crew I	Member Initials:	F	hotos:	
Virginia	Suffolk		NRG		GB, F			3 phot	OS
Tract Number(s):			Nearest Mile	epost:		Associated We	etland I	ID(s):	
26-012			38.55			wsua010			
Survey Type: (check one)	⊠Centerline	e □Re-I	Route	□ Access Road		□Other:			
Physical Attribute									
Stream Classification (check one)	Ephemera	al 🗌 Inter	rmittent	⊠Perennial					
Waterbody Type:									
(check one)	□River	eam 🗆 Dite	ch 🗆 Ca	anal 🛛 Other	:				
OHWM Width:	OHWM Indica (check all that appl		□ Clear lir	ne 🗆 Shelvin	~	□Wrested		Scouring	n ∏Water
<u>6.0</u> ft.	(oncontain and app)	,	on bank		y	vegetation		Scouring	staining
Height:	□Bent, r	natted, or missin	ng ⊠Wrack li	ne ⊠Litter ar	nd	□Abrupt plant		□Soil c	haracteristic change
<u>1.5</u> ft. N/A□	vegetatio	n		debris		community cha	ange		
Width of Waterbody - Bank to Top of Bank:		of Waterbody - of Slope:	Toe of Slope	Width of Waterb Water Edge:	ody - W	/ater Edge to	Depth c Approx.)	of Wate	r:
Bank to Top of Bank.	to roe	of Slope.		Ū		,	(рр/ол.)		
<u>_7.0</u> ft.	-	<u>4.5</u> ft.		N/A□	<u>5.5</u> ft.		J/A□		<u>1.0</u> ft.
Sinuosity:		velocity:		Bank height		E	Bank s	lope	
(check one)	(Approx.)			Right:				Right	
		<u>_0.25</u> fp	S	Left:	<u>2.0_</u> ft.			Left	<u>60</u> degrees
Meander	ring N/A□			-	<u>2.0_</u> ft.				<u>70</u> degrees
Qualitative Attrib	utes								
Water Appearance: (check one)	\Box No water \boxtimes	Clear DTurb			rface um	□Algal □ mats	Other:	:	
Substrate:	Bedrock Bo	oulder 🗆 Cobb	ole 🗆 Grave	el 🛛 Sand 🛛	⊠ Silt/ o	clay 🛛 Organic	□ 0	ther:	
(check all that apply) % of Substrate:	%	%	%	% 40 %	50 %	10 %		%	
-			_/0	///////////////////////////////////////	<u> </u>	78		70	
Width of Riparian Zor	ne: Vegetative (check all that		⊠ Trees	:	⊠ Sapliı	ngs/Shrubs:	\boxtimes	Herbs	
_ <u>120.0_ft</u> - N/A□	Avg. DBH (approx.)	of Dominants:	<u>_15.0_</u> i		_ <u>1.5_</u> in	-			
Dominant Bank Veget	tation (list):								
Black gum, yellow	poplar, loblolly	pine, sweetgu	um, sweetb	ay, American h	nolly, c	cane, netted c	hain f	fern, g	reenbrier
Aquatic Habitats (ex: s	submerged or emerge	d aquatic vegetatio	n, overhanging	banks/roots, leaf pac	ks, large	submerged wood,	riffles, d	leep pool	s):
Pools, leaf packs,	wrack piles, coa	arse woody d	ebris acros	s channel					
Aquatic Organisms O	bserved (list):								
minnows									
T&E Species Observe	ed (list):								
none									
Disturbances (ex: lives None apparent	stock access, manure i	in waterbody, wast	e discharge pipe	es):					
Tributary is:									
(check one)	⊠ Natural	□ Ar	tificial, man-m	ade 🗆 Manip	ulated				
Stream Quality ^a : (check one)	🗆 High	⊠ Mo	oderate	□ Low					

ssua008

High Quality: Natural channel, natural vegetation extends at least one or two active channel widths on each side; banks stable and protected by roots; water color is clear to tea-colored; no barriers to fish movement; many fish cover types available; diverse and stable aquatic habitat; no disturbance by livestock or man.

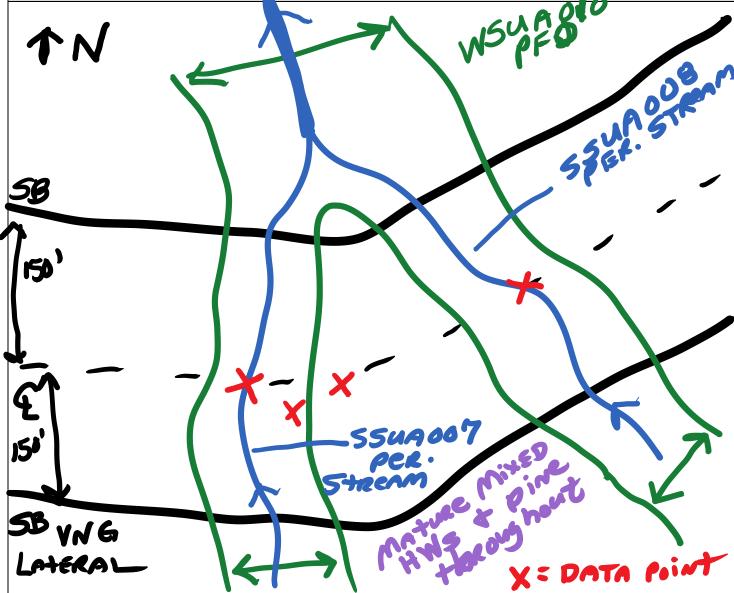
Moderate Quality: Altered channel evidenced by rip-rap; natural vegetation extends 1/3-1/2 of the active channel width on each side; filtering function or riparian vegetation only moderately compromised; banks moderately unstable; water color is cloudy, submerged objects covered with greenish film; moderate odor; minor barriers to fish movement; fair aquatic habitat; minimum disturbance by livestock or man.

Low Quality: Channel is actively down cutting or widening; rip rap and channelization excessive; natural vegetation less than 1/3 of the active channel width on each side; lack of regeneration; filtering function severely compromised; banks unstable (eroding); water color is muddy and turbid; obvious pollutants (algal mats, surface scum, surface sheen); heavy odor; severe barriers to fish movement; little to no aquatic habitat; severe disturbance from livestock or man.

Notes:

Continues out of corridor in both directions, ssua007 is a tributary north of corridor, flows through PFO wetland wsua010.

Waterbody Sketch (Include north arrow, centerine, distance from centerline, data point location, survey boundary, and Ds of associated features)





Waterbody SSUA008 facing northwest downstream



Waterbody SSUA008 facing southeast upstream



Waterbody SSUA008 facing northeast across

Linear Waterbody	Data Sheet
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Survey Description									
Project Name:		Waterbody Name	e:		w	aterbody ID:		D	ate:
Atlantic Coast Pipelir	ne	UNT to Blackv	vater Rive	er	s	sua070		9	/16/2015
State:	County:	c	ompany:		Crew I	Member Initials	::	Photos:	
Virginia S	Suffolk	N	IRG		GB, S	SA		3 photo	S
Tract Number(s):		N	earest Mile	epost:		Associated W	etland	ID(s):	
26-013-A001		4	1.1			wsua070			
Survey Type: (check one)	⊠Centerline	⊠Re-Ro	ute	□Access Roa	ad	□Other:			
Physical Attributes									
Stream Classification: (check one)	⊠Ephemera	l □Interm	ittent	Perennial					
Waterhady Tyme	Ephomora		htterit						
Waterbody Type: (check one)	River 🛛 Stre	eam 🗆 Ditch	□ Ca	anal 🗌 Othe	ər:				
онwм	OHWM Indicat								
Width: <u>3.0 f</u> t.	(check all that apply	9	☑ Clear lin on bank	ne ⊡Shelv	ing	☐Wrested vegetation	\boxtimes	Scouring	□Water staining
Height:	⊟Bent. m	natted, or missing	⊡Wrack lii	ne 🗆 Litter	and	□Abrupt plar	nt	□Soil cha	aracteristic change
_ <u>_1.0_</u> ft. N/A□	vegetatio			debris		community ch			
Width of Waterbody - To Bank to Top of Bank:		of Waterbody - To of Slope:	e of Slope	Width of Water Water Edge:	body - W	ater Edge to	Depth (Approx.)	of Water:	
_4.0 ft.		_2.0_ ft.			f	t.			ft.
<u></u>		<u>_2.0</u> n.		N/A⊠	!		N/A⊠		
Sinuosity:		velocity:		Bank height			Bank s	slope	
(check one)	(Approx.)			Right:	<u>2.5_</u> ft.			Right:	90 degrees
		fps		Left:	<u>_2.5_</u> n.			Left:	<u>90</u> degrees
Meandering	Ø N/A⊠				<u>2.5</u> ft.				75 degrees
Qualitative Attribute	es								
Water Appearance: (check one)	No water □C	Clear □Turbid			ourface cum	□Algal mats	□Othe	r:	
	Bedrock 🗆 Bo	ulder 🗆 Cobble	Grave	el 🛛 Sand	⊠ Silt/ c	lay 🛛 Organio	; □(Other:	
(check all that apply) % of Substrate:	%	_%%		% <u> 85 </u> %	<u> 10 </u> %	<u> 5 </u> %		%	
Width of Riparian Zone:	Vegetative								
ft	(check all that	apply) of Dominants:	⊠ Trees:			ngs/Shrubs:	\boxtimes	I Herbs	
N/A⊠	(approx.)	or Dominants.	<u>_11.0_</u> ir	n.	<u>1.5_</u> in	•			
Dominant Bank Vegetati	on (list):								
Yellow poplar, loblolly netted chain fern			•				•	0	· · ·
Aquatic Habitats (ex: sub	merged or emerged	aquatic vegetation,	overhanging	banks/roots, leaf pa	acks, large	submerged wood	l, riffles,	deep pools)	:
Aquatic Organisms Obs	erved (list):								
none									
T&E Species Observed ((list):								
none									
Disturbances (ex: livestoc	k access, manure ir	n waterbody, waste d	lischarge pipe	es):					
None apparent									
Tributary is: (check one)	⊠ Natural	□ Artifi	cial, man-m	ade 🗆 Mani	pulated				
Stream Quality ^a : (check one)	□ High	⊠ Mode	erate	□ Low					

ssua070

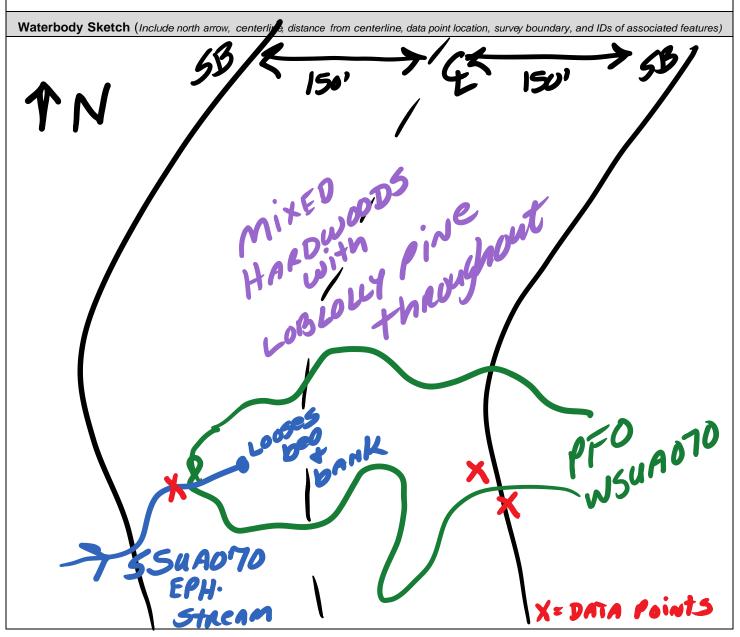
High Quality: Natural channel, natural vegetation extends at least one or two active channel widths on each side; banks stable and protected by roots; water color is clear to tea-colored; no barriers to fish movement; many fish cover types available; diverse and stable aquatic habitat; no disturbance by livestock or man.

Moderate Quality: Altered channel evidenced by rip-rap; natural vegetation extends 1/3-1/2 of the active channel width on each side; filtering function or riparian vegetation only moderately compromised; banks moderately unstable; water color is cloudy, submerged objects covered with greenish film; moderate odor; minor barriers to fish movement; fair aquatic habitat; minimum disturbance by livestock or man.

Low Quality: Channel is actively down cutting or widening; rip rap and channelization excessive; natural vegetation less than 1/3 of the active channel width on each side; lack of regeneration; filtering function severely compromised; banks unstable (eroding); water color is muddy and turbid; obvious pollutants (algal mats, surface scum, surface sheen); heavy odor; severe barriers to fish movement; little to no aquatic habitat; severe disturbance from livestock or man.

Notes:

Upstream continues out of corridor, downstream ends within PFO wetland wsua070; loses bed and bank after entering wetland





Waterbody SSUA070 facing south upstream



Waterbody SSUA070 facing north downstream



Waterbody SSUA070 facing east across

Linear Waterbody Data She	et					
Survey Description						
Project Name:	Waterbody Na			Waterbody ID:	1.2	Date:
ACP	LINTTO	Blackwater	River	55401	Contract of the state of the state	3129116
State: County/Parish:	en se estado	Company:	Cr	rew Member Initials	: Photos:	facing
VA Suff	Polk	ESI		LR.SB	N,	S, WU
Tract Number(s):		Nearest Milepost:		Associated W	etland ID(s):	
26-013-A00	22	41.3		WSU	a071	to ye showed
Survey Type: (check one) Centerli	ne yke-	Route 🗆 A	ccess Road	□Other:	Carlin and And	
Physical Attributes						
Stream Classification: (check one)	eral Kinte	rmittent DP	erennial			
Waterbody Type: (check one)	Stream 🗆 Dit	ch 🗆 Canal	C Other:			
OHWM OHWM India Width:ft.		Clear line on bank	□ Shelving	□Wrested vegetation	□Scourir	ig ⊡Water staining
Height: 0,5 ft. Bent V/A	, matted, or missir tion	ng ⊡Wrack line	□Litter and debris	Community ch		characteristic change
Width of Waterbody - Top of Widt	h of Waterbody -	Toe of Slope Width	of Waterbody	y - Water Edge to	Depth of Wate (Approx.)	э г:
2	e of Slope:	water	Edge:			0,5 ft.
ft.	ft.	N/A		ft.	N/A□ -	<u>υις</u> π.
Sinuosity: Wate	er velocity:		height		Bank slope	
(check one) (Appro	ix.)		Right:		Righ	t: RD
		fps	Left:	ft.	Le	BO degrees
Meandering N/AE		1		ft.		80 degrees
Qualitative Attributes						
Water Appearance: (check one)			□Surfa		Other:	
(check one)		bid □Sheen on surfac			L'Other.	
Substrate: Bedrock (check all that apply)	Boulder 🗆 Cob	ble 🗆 Gravel 🗆	Sand 🔍	Silt/ clay D Organia	c Other:	
% of Substrate:%	%	_%% _	% 1(<u>)0 %</u>	%%	
Width of Riparian Zone: Vegetat	ive Layers:					
ZO ft. Avg DE		A Trees:	X	Saplings/Shrubs:	A Herbs	
N/ACI ft. Avg. DE	BH of Dominants:	in.	-	in.	NA	in.
Dominant Bank Vegetation (list):	Property of the second		ST. ST. P.	SPALINT WORLD		
Carpinus carolini	ana, I	lex opaca				
Aquatic Habitats (ex: submerged or emer				, large submerged woo	d, riffles, deep po	ols):
none						
Aquatic Organisms Observed (list):						
none					The A	
T&E Species Observed (list):						
none						•
Disturbances (ex livestock access, manu edge of ag. f	ire in waterbody, was	ste discharge pipes):			1	
Tributary is: (check one)	al 🗆 A	Artificial, man-made	Manipuli	ated		
Stream Quality*:		attraction of the second se				
(check one) - High	An	Noderate	Low			

Waterbody ID: 2 554011 High Quality: Natural channel, natural vegetation extends at least one or two active channel widths on each side; banks stable and protected by rools, water color is clear to tea-colored; no barriers to fish movement; many fish cover types available; diverse and stable aquatic habitat; no disturbance by liveslock or man. Moderate Quality: Altered channel evidenced by rip-rap; natural vegetation extends 1/3-1/2 of the active channel width on each side; filtering function or riparian vegetation only moderately compromised; banks moderately unstable; water color is cloudy, submerged objects covered with greenish film; moderate odor; minor barriers to fish movement; fair aquatic habitat; minimum disturbance by livestock or man. Low Quality: Channel is actively down cutting or widening; rip rap and channelization excessive; natural vegetation less than 1/3 of the active channel width on each side; lack of regeneration; filtering function severely compromised; banks unstable (eroding); water color is muddy and turbid; obvious pollutants (algal mats, surface scum, surface sheen); heavy odor; severe barriers to fish movement; little to no aquatic habitat; severe disturbance from livestock or man. Notes: origin within corridor, flows into wswa071 Waterbody Sketch (Include north arrow, centerline, distance from centerline, data point location, survey boundary, and IDs of associated features) N54071 databy 5540112 Ø origin Form Rev. 05/16/2014



Waterbody data point ssuo112 facing north upstream.



Waterbody data point ssuo112 facing south downstream.



Waterbody data point ssuo112 facing west across.

Survey Description									
Project Name: Waterbody Name: Waterbody ID: Date:	1								
ACP UNT to Blackwater River SSUOIII 3/29/1	6								
State: County/Parish: Company: Crew Member Initials: Photos: Facing									
VA SUFFOIK ESI LRISB E.W.NJ									
Tract Number(s): Nearest Milepost: Associated Wetland ID(s):									
26-013-A002, 26-013-A003 41.5 W540 037									
Survey Type: (check one) Centerline Re-Route Access Road Other:									
Physical Attributes	June 1								
Stream Classification: (check one)									
Waterbody Type: (check one)									
OHWM Width: OHWM Indicator: (check all that apply)									
Height: Image: Constraint of the state of the stat	je								
Width of Waterbody - Top of Width of Waterbody - Toe of Slope Width of Waterbody - Water Edge to Depth of Water: Bank to Top of Bank: to Toe of Slope: Water Edge: (Approx.)									
Sinuosity: Water velocity: Bank height Bank slope									
Straight C fps Right: 3 ft. Right: 96 degree	s								
Left: 2 Left: 7D	s								
Qualitative Attributes Water Appearance:									
(check one)									
Substrate: Bedrock Boulder Cobble Gravel Sand Silt/ clay Organic Other:	313								
% of Substrate:%%%%% 10D %%									
Width of Riparian Zone: Vegetative Layers:									
4D (check all that apply) Trees: A Saplings/Shrubs: Herbs									
N/A (approx.) Avg. DBH of Dominants: <u>9 in.</u> <u>2 in.</u> <u>NH in.</u>									
Dominant Bank Vegetation (list):									
Ilex opaca, Carpinus caroliniana									
Aquatic Habitats (ex: submerged or emerged aquatic vegetation, overhanging banks/roots, leaf packs, large submerged wood, riffles, deep pools):									
deep pools, riffles, submerged roots/wood									
Aquatic Organisms Observed (list):									
none observed									
T&E Species Observed (list):									
none observed									
Disturbances (ex: livestock access, manure in waterbody, waste discharge pipes):									
none									
Tributary is: (check one) Artificial, man-made Danipulated									
Stream Quality*: (check one) High Moderate - Low									

Waterbody ID: 554011 High Quality: Natural channel, natural vegetation extends at least one or two active channel widths on each side; banks stable and protected by roots, water color is clear to tea-colored; no barriers to fish movement; many fish cover types available; diverse and stable aquatic habitat; no . disturbance by liveslock or man. Moderate Quality: Altered channel evidenced by rip-rap; natural vegetation extends 1/3-1/2 of the active channel width on each side; filtering function or riparian vegetation only moderately compromised; banks moderately unstable; water color is cloudy, submerged objects covered with greenish film; moderate odor; minor barriers to fish movement; fair aquatic habitat; minimum disturbance by livestock or man. Low Quality: Channel is actively down cutting or widening; rip rap and channelization excessive; natural vegetation less than 1/3 of the active channel width on each side; lack of regeneration; filtering function severely compromised; banks unstable (eroding); water color is muddy and turbid; obvious pollutants (algal mats, surface scum, surface sheen); heavy odor; severe barriers to fish movement; little to no aquatic habitat; severe disturbance from livestock or man. Notes: Waterbody Sketch (Include north arrow, centerline, distance from centerline, data point location, survey boundary, and IDs of associated features) N 1 1 90 20 5 00 SSUDII Form Rev. 05/16/2014



Waterbody data point ssuo111 facing east upstream.



Waterbody data point ssuo111 facing west downstream.



Survey Description									
Project Name:		Waterbody Nar				aterbody ID:			Date:
Atlantic Coast Pipel	ine	UNT to Black	water Rive	er	SS	sua071		ç	9/16/2015
State:	County:		Company:		Crew N	Member Initials:	Pł	notos:	
Virginia	Suffolk		NRG		GB, S			photo	DS
Tract Number(s):			Nearest Mile	epost:		Associated We	etland ID	D(s):	
26-013-A003			41.6			none			
Survey Type: (check one)	Centerline	⊠Re-R	Route	□ Access Road		□Other:			
Physical Attribute	S								
Stream Classification: (check one)	⊠Ephemera	I 🗆 Inter	mittent	Perennial					
Waterbody Type:									
(check one)	River Stre	eam 🗌 Ditc	h 🗆 Ca	anal 🗌 Other:					
ОНѠМ	OHWM Indicat								
Width: _ <u>3.0_</u> ft.	(спеск ал шагарру)	⊠ Clear lin on bank	ne ⊡Shelving	g	□Wrested vegetation	×S	couring	□Water staining
Height:	'	natted, or missing	g ⊡Wrack li		nd	□Abrupt plant		∃Soil ch	aracteristic change
<u> </u>	vegetatio	n		debris		community cha	ange		
Width of Waterbody - T Bank to Top of Bank:			Foe of Slope	Width of Waterbo	ody - W		Depth of	Water	:
Ballk to Top of Ballk.	to Toe	of Slope:		Water Edge:		(-	Αρριολ.)		
<u>_4.0</u> ft.		<u>_2.5_</u> ft.			f	t.	N/A⊠		ft.
Sinuosity:	Water	/elocity:		Bank height			Bank slo	ppe	
(check one) Straight	(Approx.)			Right:				Right:	
		fr	S	Left:	<u>5.0_</u> ft.			Left:	<u>90</u> degrees
	ng N/A⊠				<u>5.0_</u> ft.			Lon	<u>90</u> degrees
Qualitative Attribu	tes								
Water Appearance: (check one)	No water □C	Clear □Turb		een ⊡Sur surface scu		□Algal □ mats	Other:		
Substrate:	Bedrock 🗆 Bo	ulder 🗆 Cobb			⊠ Silt/ c			her:	
(check all that apply) % of Substrate:						, ,	_ •		
	%	%	%	% <u>75 </u> % _	<u>10 </u> %	<u> 15 </u> %		%	
Width of Riparian Zone	e: Vegetative		-	_		(2)			
ft.	`	of Dominants:	⊠ Trees: _10.0_i		⊴ Saplır _1.0_in	ngs/Shrubs:	×F	Herbs	
N/A⊠	(approx.)		_ <u>10.0_</u> ii		<u>1.0</u> III	•			
Dominant Bank Vegeta	. ,								
Black walnut, sycan aoldenrod, poison iv Aquatic Habitats (ex: su	<u>/v. horseweed.</u>	radweed. Ja	<u>panese ho</u> i	nevsuckle		-		-	-
none	ionerged of emerged		i, overnanging	banks/1001s, lear pac	ks, laige	submerged wood,	nines, ue	ep pools	·)•
Aquatic Organisms Ob	served (list):								
none									
T&E Species Observed	l (list):								
none									
Disturbances (ex: livesto	ock access, manure ir	n waterbody, waste	discharge pipe	es):					
Excessive run off fr	om agricultural	field has cau	sed severe	e down cutting					
Tributary is: (check one)	⊠ Natural	□ Art	ificial, man-m	ade 🛛 Manipu	ulated				
Stream Quality ^a : (check one)	🗆 High		derate	⊠ Low					

ssua071

High Quality: Natural channel, natural vegetation extends at least one or two active channel widths on each side; banks stable and protected by roots; water color is clear to tea-colored; no barriers to fish movement; many fish cover types available; diverse and stable aquatic habitat; no disturbance by livestock or man.

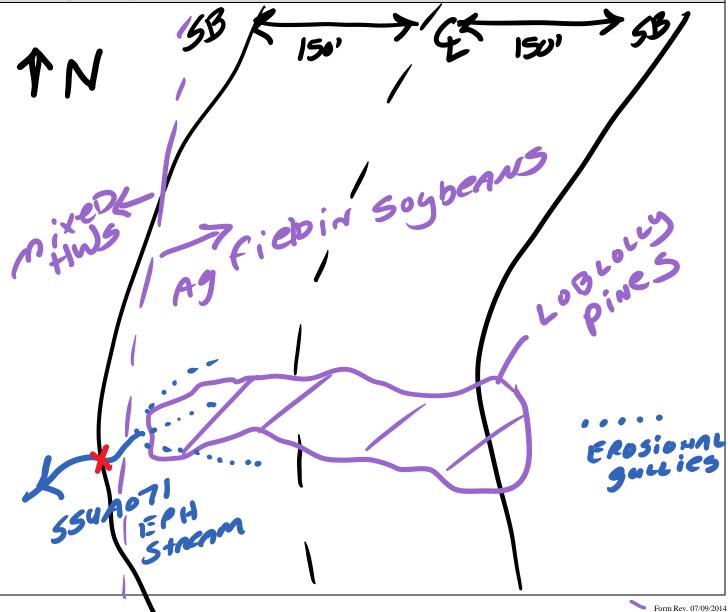
Moderate Quality: Altered channel evidenced by rip-rap; natural vegetation extends 1/3-1/2 of the active channel width on each side; filtering function or riparian vegetation only moderately compromised; banks moderately unstable; water color is cloudy, submerged objects covered with greenish film; moderate odor; minor barriers to fish movement; fair aquatic habitat; minimum disturbance by livestock or man.

Low Quality: Channel is actively down cutting or widening; rip rap and channelization excessive; natural vegetation less than 1/3 of the active channel width on each side; lack of regeneration; filtering function severely compromised; banks unstable (eroding); water color is muddy and turbid; obvious pollutants (algal mats, surface scum, surface sheen); heavy odor; severe barriers to fish movement; little to no aquatic habitat; severe disturbance from livestock or man.

Notes:

Begins near edge of agricultural field at head cut where several erosional gullies in a small stand of pines come together, downstream continues out of corridor. Channel is actively down cutting and has exposed many roots.

Waterbody Sketch (Include north arrow, centerline, distance from centerline, data point location, survey boundary, and IDs of associated features)





Waterbody SSUA071 facing southeast upstream



Waterbody SSUA071 facing northwest downstream



Waterbody SSUA071 facing southwest across

Linear Waterbody Data Sheet

Survey Description					
Project Name:	Watert	oody Name:		Waterbody ID:	Date:
ACP	4	NT to Black	INTER RUBR	554013	5 4/16
State: Co	ounty/Parish:	Company:		Crew Member Initials	: Photos:
VH	Suffolk	Es	I	LR, JB	E, W, N
Tract Number(s):		Nearest Mile	epost:	Associated W	
26-013-F	FDD3		41.8	N	A
Survey Type: (check one)	Centerline	Re-Route	□Access Road	□Other:	
Physical Attributes					
Stream Classification: (check one)	□Ephemeral		□Perennial		
Waterbody Type: (check one)	ver Stream	Ditch C	anal 🗌 Other:	8	1
OHWM Width: <u>2</u> ft.	OHWM Indicator: (check all that apply)	☑ Clear lir on bank	ne 🗆 Shelving	g ⊟Wrested vegetation	□Scouring □Water staining
Height:ft.	Bent, matted, over	or missing □Wrack li	ne 🗆 Litter an debris	d ⊡Abrupt plant community ch	
N/A Width of Waterbody - Top	of Width of Wate	body - Toe of Slope	Width of Waterbo	ody - Water Edge to	Depth of Water:
Bank to Top of Bank:	to Toe of Slope	ə:	Water Edge:		(Approx.)
<u> </u>	1	_ft.		ft.	0,5 _{ft} .
Oliver altern	Data a sur la site				
Sinuosity: (check one)	(Approx.)		Bank height Right:	1	Right: 1/5
□Straight	Z	fps		<u>3ft.</u>	degrees
Meandering	N/A		Left:	3 ft.	Left: 45 degrees
	ENDER SACTORIS AND AND AND AND	entre autoration		and a second second	
Qualitative Attributes Water Appearance:	5				
	water Aclear	□Turbid □Sh on	een ⊡Sur surface scu		3Other:
Substrate: (check all that apply) % of Substrate:	edrock 🗆 Boulder	Cobble Grave		Silt/ clay □ Organic <u> </u>	
Width of Riparian Zone:	Vegetative Layers (check all that apply)	:	. 4	Saplings/Shrubs:	بِظُ Herbs
50 ft.	Avg. DBH of Dom	D D	in.	apings/sindus.	NH in.
N/A⊡ Dominant Bank Vegetatio	(approx.)				
Microstegium		Lingla	1	Aux ruhe	um
				,	
Aquatic Habitats (ex: subm leaf pack		vegetation, overnanging	banks/roots, lear pack	s, large submerged wood,	nmes, deep pools):
Aquatic Organisms Obser	ved (list):				
hone					
T&E Species Observed (lis んのんと	st):				
Disturbances (ex: livestock	access, manure in waterbo	dy, waste discharge pipe	es):		
ag. field	edge	-,,	-,-		
Tributary is: (check one)	Matural	🗆 Artificial, man-m	ade 🗆 Manipu	lated	
Stream Quality ^a : (check one)	🗆 High	Moderate	🗆 Low		

Waterbody ID: 5540113 High Quality: Natural, natural bank vegetation around entire waterbody; banks stable and protected by roots; water color is clear to tea-colored; no 8 barriers to fish movement; many fish cover types available; diverse and stable aquatic habitat; no disturbance by livestock or man. Moderate Quality: Altered by rip-rap; natural vegetation extends 1/3-1/2 of the active channel width on each side; filtering function or bank vegetation only moderately compromised; banks moderately unstable; water color is cloudy, submerged objects covered with greenish film; moderate odor; minor barriers to fish movement; fair aquatic habitat; minimum disturbance by livestock or man. Low Quality: Rip rap and channelization excessive; natural vegetation less than 1/3 of the active channel width on each side; lack of regeneration; filtering function severely compromised; banks unstable (eroding); water color is muddy and turbid; obvious pollutants (algal mats, surface scum, surface sheen); heavy odor, severe barriers to fish movement; little to no aquatic habitat; severe disturbance from livestock or man. Notes: origin within corridor Waterbody Sketch (Include north arrow, centerline, distance from centerline, data point locations, survey boundary, and IDs of associated features) SSLOID duta form origin



Waterbody data point ssuo113 facing east upstream.



Waterbody data point ssuo113 facing west downstream.



Waterbody data point ssuo113 facing north across bank.

Linear Waterbody Data Sheet

VI - phone -

Survey Description	1	de la balla		10.1313.0			
Project Name:		Waterbody Na			Waterbody ID:		Date:
ACP		VT to	Blackwate	er River	5540 008		10/7/15
State:	County/Parish:		Company:		Crew Member Initials	: Photos	5:
VA	Suffolk		ESI		JBenton		V, SE, W
Tract Number(s):			Nearest Milep	ost:	Associated W		
26-013 - A	005		42		WSV00	6	
Survey Type: (check one)		e 🗆 Re-	Route	□Access Road	Other:		
Physical Attributes							
Stream Classification:		. /			e e a de vientes en entres à l'établisée d'hier		
(check one)	Ephemera	al ØNnte	ermittent	□Perennial			
Waterbody Type:	/						
(check one)	River 🖄 Str	ream 🗆 Dif	tch 🗆 Car	al 🗆 Other			
OHWM	OHWM Indica		201				ing DWater
Width: <u>3,5</u> ft.	(check all that appl	<i>y)</i>	Clear line on bank	□Shelvin	lg DWrested vegetation	Scour	staining
Height: 0,3 ft.	Bent, r	matted, or missi	ng 🖾 Wrack line	e 🗆 Litter a		-	characteristic change
N/A	vegetatio		- / `	debris	community ch	ange	
Width of Waterbody - T	on of Width	of Waterbody -	Toe of Slope V	Vidth of Waterb	ody - Water Edge to	Depth of Wat	ter:
Bank to Top of Bank:		of Slope:		Vater Edge:		(Approx.)	
4 ft.		3 ft.		2	.5 ft.		0.2 ft.
<u> </u>	-	<u> </u>		•/A□ —		N/A□	
Sinuosity:	Water	velocity:		Bank height		Bank slope	
(check one)	(Approx.)			Right:	5	Rig	ht: 70
□Straight			fps		ft.		degrees
Meanderin				Right: (0,5 #	L	eft: 70 degrees
			and the second second		<u></u> n.		degrees
Qualitative Attribut	tes	1997 - 1997 -				en sen de la	
Water Appearance: (check one)	No water	Clear 🗆 Tur	bid □She		rface	Other:	
	NO Water Out				um mats		
	Bedrock 🗆 Bo	oulder 🗆 Cob	ble 🗆 Gravel	DX Sand	🗆 Silt/ clay 🖾 Organic	: Other:	
(check all that apply) % of Substrate:	%	%	% %	6 90 %	% 10 %	<u>%</u> %	
	70	70		070	/0/	/0	
Width of Riparian Zone	: Vegetative	e Layers:					
5° ft.	(check all that		Trees:	[X Saplings/Shrubs:	A Herbs	
	Avg. DBH (approx.)	of Dominants:	: <u> </u>	n	in.	N/A	in.
Dominant Bank Vegeta							
Acer rubrum,	Lievilandas	ch in cifl	The	.0 .	112 - Slealing Vin	IDP.	
Aquatic Habitats (ex: su	bmerged or emerge	d aquatic vegetati	on, overhanging ba	anks/roots, leaf pag	cks, large submerged wood	, riffles, deep po	pols):
Submerged							
Aquatic Organisms Ob		1					
No EPT							
T&E Species Observed	(list):						
None							
Disturbances (ex: livesto	ck access, manure	in waterbody, was	te discharge pipes):			
adjacen	t agricult	ural fic	12				
Tributary is:	1						1
(check one)	A Natural	□ A	rtificial, man-ma	de 🗆 Manip	ulated		
Stream Quality * :				4.			
(check one)	🗆 High		loderate	Low			

Waterbody ID: 5540 008 High Quality: Natural channel, natural vegetation extends at least one or two active channel widths on each side; banks stable and protected by roots; water color is clear to tea-colored; no barriers to fish movement; many fish cover types available; diverse and stable aquatic habitat; no disturbance by livestock or man. Moderate Quality: Altered channel evidenced by rip-rap; natural vegetation extends 1/3-1/2 of the active channel width on each side; filtering function or riparian vegetation only moderately compromised; banks moderately unstable; water color is cloudy, submerged objects covered with greenish film; moderate odor; minor barriers to fish movement; fair aquatic habitat; minimum disturbance by livestock or man. Low Quality: Channel is actively down cutting or widening; rip rap and channelization excessive; natural vegetation less than 1/3 of the active channel width on each side; lack of regeneration; filtering function severely compromised; banks unstable (eroding); water color is muddy and turbid; obvious pollutants (algal mats, surface scum, surface sheen); heavy odor; severe barriers to fish movement; little to no aquatic habitat; severe disturbance from livestock or man. Notes: Waterbody Sketch (Include north arrow, centerline, distance from centerline, data point location, survey boundary, and IDs of associated features) Survey bounder W500016 Start 55v0 008 daty point a star centertine



Waterbody ssuo008 facing northwest upstream.



Waterbody ssuo008 facing southeast downstream.



Waterbody ssuo008 facing west across bank.

Linear Waterbody Data Sheet

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Survey Description		See Milling			- Alternative Maria		la de
Project Name:	17	Waterbody Na			Waterbody ID:	-	Date:
ACP		VT to	Blackwater	- River	SSUDDO	1	10/7/15
State:	County/Parish:		Company:		Crew Member Initials		
VA	Suffolk		ESI		5 Benton	E	, W, S
Tract Number(s):			Nearest Milepos	st:	Associated W		
26-013-A	005		42		WSUD	016	
Survey Type: (check one)	Centerline	e □Re-	Route	Access Road	□Other:		
Physical Attributes Stream Classification:	和可能的影响	NO WING					
(check one)	Ephemera	al 🖾 Inte	ermittent 🗆	Perennial			
Waterbody Type:	· · · · · · · · · · · · · · · · · · ·	/ (
	River 🛱 Str	eam 🗆 Dit	tch 🗆 Canal	□ Other:			
OHWM Width: 2.5 ft.	OHWM Indica (check all that apply		Clear line on bank	□Shelving	U □Wrested vegetation	Scour	ing ⊟Water staining
Height: 0,3 ft.	Bent, r		ng KWrack line	□Litter an debris	d		characteristic change
N/A□ Width of Waterbody - To	n of hattalet	of Matorbard	Too of Stone Mile	th of Watarba	ody - Water Edge to	Depth of Wat	ler:
Bank to Top of Bank:	to Toe	of Slope:	Wa N/A	ter Edge:	5ft.	(Approx.)	<u> </u>
Sinuosity:		velocity:	Bar	1k height		Bank slope	
(check one)	(Approx.)	1		Right:		Rig	ht: 60 degrees
, .			fps	Left:	n.	L	eft: / _
Meandering	N/A□				⊃ft.		60 degrees
Qualitative Attribut	es						
Water Appearance: (check one)	No water 🛱	Clear 🗆 Tur	bid ⊡Sheen on surf		acc	Other:	
Substrate:	Bedrock 🗆 Bo	ulder 🗆 Cob	ble 🗆 Gravel	Sand D	Silt/ clay Organic	Other:	
(check all that apply) % of Substrate:		_%			<u>% (b %</u>		c .
Width of Riparian Zone:	Vegetative	Lavers:					
	(check all that	-	Trees:	Ř	Saplings/Shrubs:	Herbs	
Lo ft.		of Dominants:			Z in.	NIA	
N/A□ Dominant Bank Vegetat	(approx.) ion (list):					-1	
Acerrubrum,	Suglans nig	ia, Phytol	lacy american	A. Microst	com vinineum		
Aquatic Habitats (ex: sub	merged or emerged	aquatic vegetation	on, overhanging bank	s/roots, leaf pack	s, large submerged wood	, riffles, deep po	ools):
submerged r		all riffle	cs				
Aquatic Organisms Obs							
NO EPT OI	-	95 					
Nane	(list):						
Disturbances (ex: livestor	k access, manure i	n waterbody, was	te discharge pipes):				
Adjacent	agrially	ral field	ļ				
Tributary is: (check one)	Natural		rtificial, man-made	🗆 Manipu	lated		
Stream Quality * :				·			

	Waterbody ID:
	5540009
High Quality: Natural channel, natural vegetation extends at least one or two ac roots; water color is clear to tea-colored; no barriers to fish movement; many fi disturbance by livestock or man.	ctive channel widths on each side; banks stable and protected by ish cover types available; diverse and stable aquatic habitat; no
Moderate Quality: Altered channel evidenced by rip-rap; natural vegetation extend or riparian vegetation only moderately compromised; banks moderately unstable; film; moderate odor; minor barriers to fish movement; fair aquatic habitat; minimum	: water color is cloudy, submerged objects covered with greenish
Low Quality: Channel is actively down cutting or widening; rip rap and channelization width on each side; lack of regeneration; filtering function severely compromised; b pollutants (algal mats, surface scum, surface sheen); heavy odor; severe barriers from livestock or man.	on excessive; natural vegetation less than 1/3 of the active channel
Notes:	
*	
Waterbody Sketch (Include north arrow, centerline, distance from centerline, da	ata point location, survey boundary, and IDs of associated features)
	/
Jart	< compared with the second sec
6901	
5vrver boundors	
5	
W540016	
	Start
55U 0008	data
- 308 J	point
	155
	start
\bigwedge	
1 N	whentine



Waterbody ssuo009 facing east upstream.



Waterbody ssuo009 facing west downstream.



Waterbody ssuo009 facing south across bank.

Linear Waterbody Data Sheet

Survey Description		an Shan in		Sandal.	A statistics of an		Deter
Project Name:		Waterbody Nan	10:		Waterbody ID:		Date:
Acp				r River	554000-		10/7/15
State: C	ounty/Parish:		Company:		Crew Member Initials		
VA	Suffolk		ESI		JBenton	E	W, N
Tract Number(s):			Nearest Milep	iost:	Associated W		
	06,26-	013-A005	42		WSUO	013	
Survey Type: (check one)	Centerline	Re-R	oute	□Access Road	Other:		
Physical Attributes Stream Classification:							an an a metal Ar
(check one)	Ephemera	il □Interr	nittent	Perennial			
Waterbody Type: (check one)	iver Xstr	eam 🗆 Ditcl	n 🗆 Car	nal 🗆 Other			
OHWM Width: $7_{ft.}$	OHWM Indica (check all that apply		Clear line	Shelvin	g 🗌 Wrested vegetation	□Scourir	ng ⊟Water staining
Height: <u>0, 7</u> ft.	Rent, n vegetatio	natted, or missing n	Wrack line	e □Litter a debris	nd		characteristic change
Width of Waterbody - Top Bank to Top of Bank: ft.		of Waterbody - T of Slope: 0,5ft.	ľ	Vidth of Waterb Vater Edge: √A⊡	ody - Water Edge to	Depth of Wate (Approx.)	er: 0.5_ft.
Sinuosity: (check one) □Straight	Water (Approx.)	velocity:		Bank height Right: Left:	ft. ft.	Bank slope Righ Le	degrees
Qualitative Attribute	WAR WAR TO STREAM WAR	1.000 March	500 2000	an a			
Water Appearance:					and the state of the state of the state		
(check one)	o water 🖾	Clear 🗆 Turbi		-	rface □Algal um mats	□Other:	
Substrate: (check all that apply) % of Substrate:	Bedrock □ Bo			1	⊠Silt/clay ⊠ Organi 30_%_/⊙_∘	c 🗆 Other: %%	
Width of Riparian Zone:	Vegetative	Layers:	/				
500 ft.	-	apply) of Dominants:	™ Trees: i i		XSaplings/Shrubs:	MA i	n.
Dominant Bank Vegetatio	(approx.)						
Acer rubrum, Car	pinus carol	Mana Ilex	vora Li	withour silve	ne. Microsteniu	m inner.	22
Aquatic Habitats (ex: subn	nerged or emerged	aquatic vegetation	, overhanging b	anks/roots, leaf pac	cks, large submerged wood	d, riffles, deep poo	bls):
overhanging bant		pucks, subr	nerged w	ood t oth	er debris.		
Aquatic Organisms Obse aquatic worms,	1. 1994 - Later	T Absence	1				
T&E Species Observed (/	- 1	1 000 400					
None							
Disturbances (ex: livestock	access, manure i	n waterbody, waste	discharge pipes):			
Tributary is: (check one)	Natural	□ Arti	ficial, man-ma	de 🗆 Manip	ulated		
Stream Quality *: (check one)	□ High	⊠(Mo		Low			

Waterbody ID: SSU0 007 High Quality: Natural channel, natural vegetation extends at least one or two active channel widths on each side; banks stable and protected by roots; water color is clear to tea-colored; no barriers to fish movement; many fish cover types available; diverse and stable aquatic habitat; no disturbance by livestock or man. Moderate Quality: Altered channel evidenced by rip-rap; natural vegetation extends 1/3-1/2 of the active channel width on each side; filtering function or riparian vegetation only moderately compromised; banks moderately unstable; water color is cloudy, submerged objects covered with greenish film; moderate odor; minor barriers to fish movement; fair aquatic habitat; minimum disturbance by livestock or man. Low Quality: Channel is actively down cutting or widening; rip rap and channelization excessive; natural vegetation less than 1/3 of the active channel width on each side; lack of regeneration; filtering function severely compromised; banks unstable (eroding); water color is muddy and turbid; obvious pollutants (algal mats, surface scum, surface sheen); heavy odor; severe barriers to fish movement; little to no aquatic habitat; severe disturbance from livestock or man. Notes: Waterbody Sketch (Include north arrow, centerline, distance from centerline, data point location, survey boundary, and IDs of associated features) W500013 5500006 vpland inclusion data poi SSUD DO WSU0013

Form Rev. 05/16/2014

27.1 - - 道道道



Waterbody ssuo007 facing east upstream.



Waterbody ssuo007 facing west downstream.

Photo Sheet 1 of 2



Waterbody ssuo007 facing north across bank.

Linear Waterbody Data Sheet

Trades - de

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Survey Descriptio	n	have get in the	lanere i san		a apple and an		2 hour air air air
Project Name:		Waterbody Nan	ne:		Waterbody ID:		Date:
ACP		VT to (Black water	RIVER	5540006		10/7/15
State:	County/Parish:		Company:		Crew Member Initials	s: Photos	:
VA	Suffolk		ESI		JBenton	NE	,SW,NW
Tract Number(s):	1		Nearest Milepos	t:	Associated W	etland ID(s):	,
26-013-	A006,21	-013-A007	42		WSVO	013	
Survey Type: (check one)	Centerline	⊡Re-R	oute 🗆	Access Road	d Dother:		
Physical Attributes Stream Classification:	S						
(check one)	Ephemera	I □Inter	nittent 🗵	Perennial			
Waterbody Type: (check one)	River 🕅 Str	eam 🗆 Ditc	h 🗆 Canal	Other	•		
OHWM Width: 5 ft.	OHWM Indicat (check all that apply		Clear line	Shelvin	g ⊡Wrested vegetation	Scouri	ng ⊟Water staining
Height: _0,5_ft.	Bent, n vegetatio	natted, or missing n	Wrack line	□Litter a debris	nd		characteristic change
Width of Waterbody - T Bank to Top of Bank: ft.	Top of Width of to Toe	of Waterbody - T of Slope: ft.	oe of Slope Wid Wat	ter Edge:	ody - Water Edge to	Depth of Wat (Approx.) N/A	ег: 0.4_ft.
Sinuosity: (check one) □Straight ☑Meanderin	(Approx.)	relocity:		k height Right: Left:	ft. ft.	Bank slope Rigi Le	nt: <u>50</u> degrees
Qualitative Attribu	tes						
Water Appearance: (check one)	No water	Clear 🗆 Turbi	d Sheen on surf		rface □Algal um mats	□Other:	
Substrate:	Bedrock 🗆 Bo	ulder 🗆 Cobbl		⊠ Sand %	X Silt/ clay X Organia 60 % 30 %	c □ Other: %%	
Width of Riparian Zone	: Vegetative	Layers:	,		1		
500 ft.	(check all that Avg. DBH	apply) of Dominants:	Trees:	P	Saplings/Shrubs:	⊠ Herbs N/A_i	n.
N/A⊡ Dominant Bank Vegeta	(approx.)						
Acer rubrum,		Microste	airm Vinihe	un Im	patiens capensi	s, Arundin	ana sigantea
Aquatic Habitats (ex: su	bmerged or emerged	aquatic vegetation	, overhanging banks	s/roots, leaf pac	cks, large submerged wood	t, riffles, deep po	ols):
Submerged v							
Aquatic Organisms Ob							
NO EPT							
T&E Species Observed	(<i>list</i>):						
Disturbances (ex: livesto Impoundmen	nt in pa		discharge pipes):				
Tributary is: (check one)	A Natural		finial man made		ulated		
Stream Quality *:			ficial, man-made	🗆 Manip	ulated		
(check one)	🗆 High	🕅 Mo	derate	Low			

Waterbody ID: 5540 00F High Quality: Natural channel, natural vegetation extends at least one or two active channel widths on each side; banks stable and protected by roots; water color is clear to tea-colored; no barriers to fish movement; many fish cover types available; diverse and stable aquatic habitat; no disturbance by livestock or man. Moderate Quality: Altered channel evidenced by rip-rap; natural vegetation extends 1/3-1/2 of the active channel width on each side; filtering function or riparian vegetation only moderately compromised; banks moderately unstable; water color is cloudy, submerged objects covered with greenish film; moderate odor; minor barriers to fish movement; fair aquatic habitat; minimum disturbance by livestock or man. Low Quality: Channel is actively down cutting or widening; rip rap and channelization excessive; natural vegetation less than 1/3 of the active channel width on each side; lack of regeneration; filtering function severely compromised; banks unstable (eroding); water color is muddy and turbid; obvious pollutants (algal mats, surface scum, surface sheen); heavy odor; severe barriers to fish movement; little to no aquatic habitat; severe disturbance from livestock or man. Notes: Waterbody Sketch (Include north arrow, centerline, distance from centerline, data point location, survey boundary, and IDs of associated features) WSVOD13 SSU0006data point W5V0013 upland inclusion 5500007 W500013



Waterbody ssuo006 facing northeast upstream.



Waterbody ssuo006 facing southwest downstream.



Waterbody ssuo006 facing northwest across bank.

near Waterbody Data She	et			
vey Description	hard to be the		Waterbody ID:	Date:
Ject Name:	Waterbody Name:		SUD016	
CP	LINITO Blockw		9	Photos:
A SUFFOL	: 2 mpton ESI K	L	Wember Initials: $4R_1CSM$	$S_1 N, W$
111	Nearest Milen		Associated Wetlan	
6-013-4009, 26-013	5 4000	NA	WSDDI	5\$3
vey Type: ck one)	rline DRe-Route	□Access Rozd	□Other:	
ysical Attributes				and the second second
ck one) DEpher	neral Qintermittent	□Perennial	and the second second	
terbody Type: ck one) □River □	Stream	nal 🗌 Other.		
WM Width: _5_ft.		e DShelving	□Wrested vegetation	□Scouring □Water staining
ADft. /vege	ent, matted, or missing □Wrack lir itation	debris	□Abrupt plant community chang	lasti and second participation of
dth of Waterbody - Top of Wi	dth of Waterbody - Toe of Slope Toe of Slope:	Width of Waterbody Water Edge:	- Water Edge to Dep (App	oth of Water: אסג.)
<u>_5</u> _n	ft.		ftN/A	"£f.
	ater velocity:	Bank height	the second s	nk slope
eck one) (A	pprox.)	Right:	t t	Right: 90 degrees
	fps	Left:	<u> </u>	Left: 90 degrees
Meandering	IAR		u.	<u></u> degrees
lualitative Attributes		And		
Vater Appearance: theck one)		heen ⊡Surfa n surface scun		Dther:
Substrate: Bedrock Check all that apply) of Substrate: %	Boulder Cobble Gra	601	Silt/ clay	Other:%
100 ft. Avg	etative Layers: Sk ell lhat spply) J. DEH of Dominants:	es:	Saplings/Shrubs:	Herbs
	rox)		n hlbaci	11100
Lividendron tulip	fera Tlex opaci	2 Ligostrov	m, Athiar	asplenioides
Aquatic Habitats (ex: submerged or				
Woody debris	overhang	ing banl	LS	
Aquatic Organisms Observed (li	st):			
None observe	No. 2 A CARDON AND A CARD			
100100	erved			
Disturbances ex thestock access None observ	manure in waterbody waste disonarge	B Diffes):		
which it has been a set of a s	Natural 🖂 Artificial, ma	an-made XMan	pulated	
Stream Quality *:	High X Moderate	□ Low		
(Lineck cite)	- riigit A Moderate			an manager and the second s

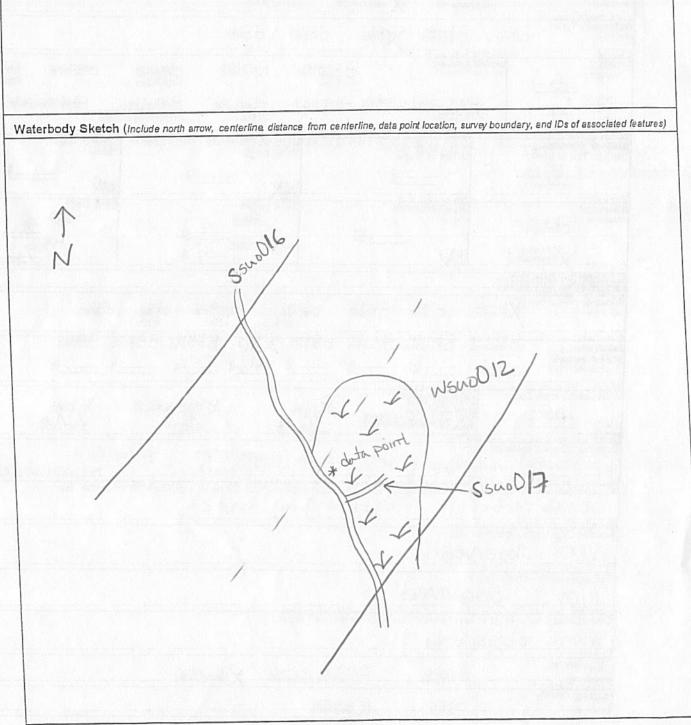
High Quality: Natural channel, natural vegetation extends at least one or two active channel widths on each side; banks stable and protected by roots; water color is clear to tea-colored; no barriers to fish movement; many fish cover types available; diverse and stable aquatic habitat; no disturbance by livestock or man.

Waterbody ID:

Moderate Quality: Altered channel evidenced by rip-rap; natural vegetation extends 1/3-1/2 of the active channel width on each side; filtering function or riparian vegetation only moderately compromised; banks moderately unstable; water color is cloudy, submerged objects covered with greenish film; moderate odor, minor barriers to fish movement; fair aquatic habitat; minimum disturbance by livestock or man.

Low Quality: Channel is actively down cutting or widening; rip rap and channelization excessive; natural vegetation less than 1/3 of the active channel width on each side; lack of regeneration; filtering function severely compromised; banks unstable (eroding); water color is muddy and turbid; obvious pollutants (algal mats, surface scum, surface sheen); heavy odor; severe barriers to fish movement; little to no aquatic habitat; severe disturbance from livestock or man.

Notes:





Waterbody ssuo016 facing south upstream.



Waterbody ssuo016 facing north downstream.



Waterbody ssuo016 facing west across bank.

inear Waterbody Da	ta Sheet				
urvey Description	har (1 - 2 - N			Waterbody ID:	Date:
oject Name:	Waterbody Na			ssuo017	22 Sept 2015
74	ty/Parish:	Company:	2 RIVER	Member Initials:	Photos:
	SUFFOLK	ESI	21	KR, CSM	EWS
act Number(s):	0	Nearest Milepost:	AL	Associated Wetlan	
26-013-A00	9	1	VII	11000 0	
rvey Type: .ck one)		-Route 🗆 A	ccess Road	Other:	
eam Classification:					
		ermittent DP	Perennial		
aterbody Type: (eck one)	Stream	itch 🗆 Canal	Other:		
	HWM Indicator; heck all that apply)	□ Clear line on bank	□Shelving	□Wrested vegetation	□Scouring □Water staining
Height: 0,5 ft.	Bent, matted, or miss vegetation		□Litter and debris	□Abrupt plant community chang	South a starting and a starting of the
idth of Waterbody - Top o ank to Top of Bank:	f Width of Waterbody to Toe of Slope:	- Toe of Slope Widt	th of Waterbody er Edge:		pth of Water: prox.)
H ft.	2 ft.		/	ft.	D,] ft.
I		IA\/A		N//	
nuosity: heck one)	Water velocity: (Approx)	Ban	k height Right: L	L Ba	Right: 96
Straight	0	_fps		ft.	degrees
□Meandering			Left: 4	ft.	Left: <u>90</u> degrees
Qualitative Attributes			be -		
Vater Appearance:	V	28.9			01
check one)	water Clear D	Turbid 🗆 Sheen on sur	ALL THE REPORT OF THE PROPERTY		Other:
Substrate: Be (check all that apply) % of Substrate:	edrock 🗆 Boulder 🗆 C	Cobble 🗆 Gravel%	A Sand A	Silt/ clay	□ Other: %
Width of Riparian Zone:	Vegetative Layers:	V	V	-	V .
40 _{ft} .	(check all that apply) Avg. DBH of Domina	nts: Direes:	Ø	Saplings/Shrubs:	NA in.
	(approx)				<u> </u>
Dominant Bank Vegetation	tulipfera,	Ligustrum	sinense		
Aquatic Habitats (ey: subr	nerged or emerged aquatic veg	petation overhanging ba	nks/roots leaf pack	is large submerged wood	nifies deep pools):
Leaf packs					
Aquatic Organisms Obse	erved (list):	1			
None o	ibserved				
T&E Species Observed (NDNL (observed				
Disturbances 'ex' ty estor	bserved	iy waste discharge bipes	h:		
Tributary is: (check one)	C Natural	🖸 Artificial, man-mi	ade XManip	oulated	
Stream Quality * : (check one)	🗆 High	Moderate	⊒ Low		
The second second second second second second second second	wanty is represented in production of the constant of	-			

High Quality: Natural channel, natural vegetation extends at least one or two active channel widths on each side; banks stable and protected by roots; water color is clear to tea-colored; no barriers to fish movement; many fish cover types available; diverse and stable aquatic habitat; no disturbance by livestock or man.

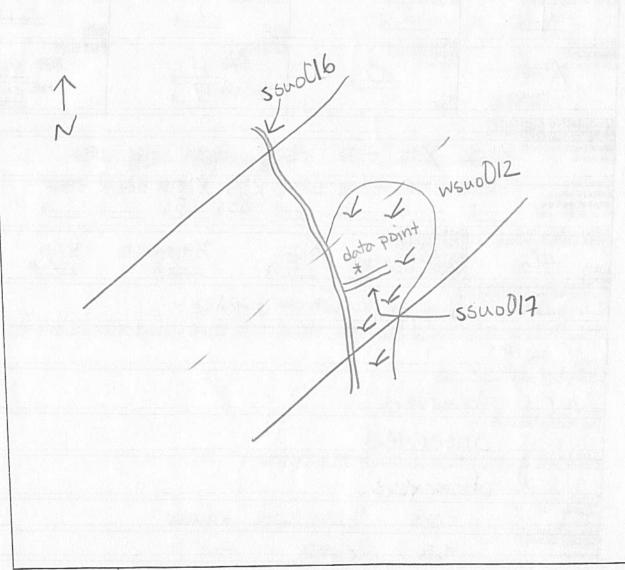
Waterbody ID: SSUD内1コ

Moderate Quality: Altered channel evidenced by rip-rap; natural vegetation extends 1/3-1/2 of the active channel width on each side; filtering function or riparian vegetation only moderately compromised; banks moderately unstable; water color is cloudy, submerged objects covered with greenish film; moderate odor; minor barriers to fish movement; fair aquatic habitat; minimum disturbance by livestock or man.

Low Quality: Channel is actively down cutting or widening; rip rap and channelization excessive; natural vegetation less than 1/3 of the active channel width on each side; lack of regeneration; filtering function severely compromised; banks unstable (eroding); water color is muddy and turbid; obvious pollutants (algal mats, surface scum, surface sheen); heavy odor; severe barriers to fish movement; little to no aquatic habitat; severe disturbance from livestock or man.

Notes:







Waterbody ssuo017 facing east upstream.



Waterbody ssuo017facing west downstream.

Photo Sheet 1 of 2



Waterbody ssuo017 facing north across bank.

Open Waterbody Data Sheet

Survey Descripti	on						
Project Name:		Waterbody Nar		(Waterbody ID:	Date	>/1->/1<
ACP			nes Por		osupoc		2/1/13
State:	County:		ompany:	CONTRACTOR OF STREET	w Member Initials:	Photos: Fl	acing
VA	SUFFOI	Service and all and the service of the Pro-	ESI	J	H, KSM	W,S	建设的影响
Tract Number(s):	100	N	earest Milepost:	1	Associated Wetla		
26-013-	A009		43.0)	WSUP	020	Cale See
Survey Type: (check one)	□Centerlin	e DRe-	Route	Access Road	□Other:		
Physical Attribut	es						
Waterbody Type: /		lPond □lake		mpoundment	Oxbow DOthe	r:	
Hydrologic Regime:	Permanently	Flooded 🗆 S	emipermanently Flo	ooded 🗆 Se	asonally Flooded	Temporarily F	ooded
OHWM Height:	OHWM Indi (check all that a		□ Clear line on bank	Shelving	g ⊡Wrested vegetation	□Scouring	g ⊟Water staining
ft	Consider a start well as a press of the start of the start of the	t, matted, or mis ition	sing □Wrack line	□Litter an debris	nd DAbrupt p	lant □Soil chara change	cteristic change
Death of Mistory	, sgen				Bank slope (a		
Depth of Water:		Bank height	(average):		Dank sibpe (a	20 degree	s
N/AD	<u> </u>		1.			degree	
Substrate: (check all that apply) % of Substrate:	□ Bedrock □ B	ioulder 🗆 Cot	_%%	<u>90</u> % <u> </u>	-Sîlt/ clay □ Organ 	ic 🛛 Other:	
Width of Riparian Zo	엄마는 안 집에 다 다 다 다 가 있었다. 그 이야 한 것 같아요.		Trees:		Saaliaas (Shaiha)	Herbs	
4 ft.	(check all tha	арруу)	L Trees:		Saplings/Shrubs:		
	SALES CONTRACTOR STATES AND A	of Dominants:	in.		jn.	NA_in.	
Dominant Bank Veg	(approx.) etation (list):			Per	sicaria :	Sagittat	0
Juncus e		Solidan	o giantes				
Aquatic Habitats (ex.	submerged or emerged a	quatic vegetation, ove	erhanging banks/roots, lea	f packs, large subme	erged wood, riffles, deep po	pols, etc.):	Cale Press and
Submerged							
Aquatic Organisms	The State A Designation of the State State of the State	-)-					
none ob	the second s						
T&E Species Observ							
nune							
Disturbances (ex: liv							
draintile	pipe con	ning Eru	n Ag Ei	eld			
Waterbody is: (check one)	🗆 Natura	/		Manipulated			
Waterbody Quality	': □ High	D Moderate	Low				

Waterbody ID: 054p003 High Quality: Natural, natural bank vegetation around entire waterbody; banks stable and protected by roots; water color is clear to tea-colored; no barriers to fish movement; many fish cover types available; diverse and stable aquatic habitat; no disturbance by livestock or man. Moderate Quality: Altered by rip-rap; natural vegetation extends 1/3-1/2 of the active channel width on each side; filtering function or bank vegetation only moderately compromised; banks moderately unstable; water color is cloudy, submerged objects covered with greenish film; moderate odor; minor barriers to fish movement; fair aquatic habitat; minimum disturbance by livestock or man. Low Quality: Rip rap and channelization excessive; natural vegetation less than 1/3 of the active channel width on each side; lack of regeneration; filtering function severely compromised; banks unstable (eroding); water color is muddy and turbid; obvious pollutants (algal mats, surface scum, surface sheen); heavy odor; severe barriers to fish movement; little to no aquatic habitat; severe disturbance from livestock or man. Notes: Waterbody Sketch (Include north arrow, centerline, distance from centerline, data point locations, survey boundary, and IDs of associated features) wsup 030 orde dp HOUNDER CL Osup003



Waterbody osup003 facing west.



Waterbody osup003 facing south.

Photo Sheet 1 of 1

Linear Waterbody	ata Sheet								
Survey Description							Section 1		
Project Name:		Waterbody Nam			Cite I I I I I I I I I I I I I I I I I I I	aterbody ID:	-	Date:	
ALP		UNTT	O KIN	gale Sy	amp	SSuro		and a second	2010
	inty/Parish:	ACE STORE AN	Company:	0	Crew	Member Initials:	Photos		and and the
011	SUHOI		ESI		CAi	~~	Carls Complete	NNE	SE
Fract Number(s):		1. 3 M 24	Nearest Mil	epost:		Associated Wet		17	
26-013-A0	22		44	1		WSU	09	13	
Survey Type:	Centerline	□Re-R	oute	□ Access Ro	ad	□Other:	·2. 我的教师		
Physical Attributes	/		•						Aligna
Stream Classification: check one)	Ephemeral	□Intern	nittent						
Waterbody Type:									
check one)	er DCStre	am 🗆 Ditch	n 🗆 C	anal 🗆 Oth	er:				
	HWM Indicate	or:	🗆 Clear li	ne 🗆 Shelv	vina	□Wrested	□Scouri	ing XWa	ter
ft.			on bank			vegetation	20000	stalni	ng
Height: 0,5 ft	Bent, m	atted, or missing	g 🗆 Wrack I	ine DLitter debris	and	Abrupt plant		characteristic	change
I/A□						community cha			
Vidth of Waterbody - Top o Bank to Top of Bank:	to Toe c		oe of Slope	Width of Wate Water Edge:	rbody - W		epth of Wat	er:	
(0 +		E			3.			0.5 #	
n.	-	<u> </u>		N/A		n. N	/A□		
Sinuosity:	Water v	elocity:		Bank height		в	ank slope		- 350 -
check one)	(Approx.)	1		Right:			Rig	ht: 100	
j		fp	S	Left:		ft.		oft di	egrees
Meandering	N/A			Leit		ft.		45d	egrees
Qualitative Attributes									
Water Appearance:	X-				C		Others		
(check one)	water AC	lear DTurbi		Connecting 2 Address of the Connector	Surface scum	□Algal □ mats	Other:		
Substrate: 🗆 Be	drock 🗆 Bou	ilder Cobb	le 🗆 Grav	A	1.	clay 🗆 Organic	Other:	1944 - S. M.	
(check all that apply) % of Substrate:	_%	_% _2	%	_% <u>96 %</u>	2	%%	%	6	
Width of Riparian Zone:	Vegetative	Layers:						n an an Alban an Rhainn an Alban an Alban	
20	(check all that i	A CONTRACTOR OF THE OWNER OF THE	Tree	s:	Sapli	ings/Shrubs:	- Herbs	1	
N/AD ft.	Avg. DBH	of Dominants:	20	_in.	-	_in.	and the set	_in.	
Dominant Bank Venetation	(list).			100 200 200 200 200 200 200 200 200 200	6				
ILEX DPA	ca. Ca	rpinn	s co	roline	a, t	201ystic	num	acroshi	cheide
Aquatic Habitats (ex: subme	CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR		and the second second second second second						
depositiona	l Ba	rs. t	Nerk	vangini	1 1	roots			
Aquatic Organisms Observ		5)		0 5	<u>)</u>	,			
None									
T&E Species Observed (lis	t):								
None									
Disturbances (ex: livestock a				pes):					
Powerline	eas	ement							
Tributary is:	4								2
(check one)	X Natural		tificial, man-	made 🗆 Ma	anipulated				

Moderate

□ Low

- High

Stream Quality *:

(check one)

High Quality: Natural channel, natural vegetation extends at least one or two active channel widths on each side; banks stable and protected by roots; water color is clear to tea-colored; no barriers to fish movement; many fish cover types available; diverse and stable aquatic habitat; no disturbance by livestock or man.

Waterbody ID:

SSULTOO2

Moderate Quality: Altered channel evidenced by rip-rap; natural vegetation extends 1/3-1/2 of the active channel width on each side; filtering function or riparian vegetation only moderately compromised; banks moderately unstable; water color is cloudy, submerged objects covered with greenish film; moderate odor; minor barriers to fish movement; fair aquatic habitat; minimum disturbance by livestock or man.

Low Quality: Channel is actively down cutting or widening; rip rap and channelization excessive; natural vegetation less than 1/3 of the active channel width on each side; lack of regeneration; filtering function severely compromised; banks unstable (eroding); water color is muddy and turbid; obvious pollutants (algal mats, surface scum, surface sheen); heavy odor; severe barriers to fish movement; little to no aquatic habitat; severe disturbance from livestock or man.

Notes: Waterbody Sketch (Include north arrow, centerline, distance from centerline, data point location, survey boundary, and IDs of associated features) 5502003 0 WS4PO13



Waterbody ssur003 facing southwest upstream.



Waterbody ssur003 facing northeast downstream.

Photo Sheet 1 of 2



Waterbody ssur003 facing southeast across bank.

Linear Waterbody Data Sheet

Survey Description	on
Project Name:	Waterbody Name: Waterbody ID: Date:
ACP	4NT to Kingsale Swamp SSUP Ø17 12/10/1
State:	County/Parish: Company: Crew Member Initials: Photos: Socing
AV	SUSSOIK ESI-1 MISSIKSM SWINE, SE
Tract Number(s):	Nearest Milepost: Associated Wetland ID(s):
26-013-1	
Survey Type:	11.25 10.000
(check one)	Centerline DRe-Route CAccess Road Other:
Physical Attribut	es
Stream Classification (check one)	
	Ephemeral Intermittent Perennial
Waterbody Type: (check one)	□River
OHWM	OHWM Indicator: (check all that apply) Clear line Shelving Wrested Scouring
Width: 5_{ft} .	on bank vegetation staining
Height:	Bent, matted, or missing Wrack line Litter and Abrupt plant Soil characteristic cha
	vegetation debris community change
Width of Waterbody -	Top of Width of Waterbody - Toe of Slope Width of Waterbody - Water Edge to Depth of Water:
Bank to Top of Bank:	to Toe of Slope: Water Edge: (Approx.)
ft	
Sinuosity:	N/A□ N/A□ Water velocity: Bank height Bank slope
(check one)	(Approx.) Right: C C Right: 2 C
□Straight	$ \underbrace{\bigcirc \cdot \bigcirc fps} \underbrace{\bigcirc fps} \underbrace{\bigcirc ft}_{\text{Left:}} \underbrace{\bigcirc f}_{\text{Left:}} \underbrace{\frown f}_{\text{Left:}} \frown $
団Meande	
Qualitative Attrib	utes
Water Appearance: (check one)	□No water □Clear □Turbid □Sheen □Surface □Algal □Other:
leven evel	on surface scum mats
Substrate:	Bedrock Boulder Cobble Gravel Sand Organic Organic Other:
(check all that apply) % of Substrate:	% % % <u>% 20% 80%</u> %%
Width of Riparian Zon	te: Vegetative Layers: (check all that apply) ITrees: IZ Saplings/Shrubs: IZ Herbs
750 ft.	Avg. DBH of Dominants: 4 in. 3 in. NA in.
N/A□ Dominant Bank Vege	(approx.)
	Loniceva
1 Itx OPAC	Submerged or emerged aquatic vegetation, overhanging banks/roots, leaf packs, large submerged wood, riffles, deep pools):
leas pac	K 5
Aquatic Organisms C	bserved (#SI):
none	
T&E Species Observ	ad (list):
none	
	stock access, manure in waterbody, waste discharge pipes):
BEAVEY !	mported
Tributary is:	
(check one)	🖾 Natural 🛛 Artificial, man-made 🗆 Manipulated
Stream Quality *:	
(check one)	□ High

Waterbody ID: SSUP 0 a High Quality: Natural channel, natural vegetation extends at least one or two active channel widths on each side; banks stable and protected by roots; water color is clear to tea-colored; no barriers to fish movement; many fish cover types available; diverse and stable aquatic habitat; no disturbance by livestock or man. Moderate Quality: Altered channel evidenced by rip-rap; natural vegetation extends 1/3-1/2 of the active channel width on each side; filtering function or riparian vegetation only moderately compromised; banks moderately unstable; water color is cloudy, submerged objects covered with greenish film; moderate odor; minor barriers to fish movement; fair aquatic habitat; minimum disturbance by livestock or man. Low Quality: Channel is actively down cutting or widening; rip rap and channelization excessive; natural vegetation less than 1/3 of the active channel width on each side; lack of regeneration; filtering function severely compromised; banks unstable (eroding); water color is muddy and turbid; obvious pollutants (algal mats, surface scum, surface sheen); heavy odor; severe barriers to fish movement; little to no aquatic habitat; severe disturbance from livestock or man. Notes: Waterbody Sketch (Include north arrow, centerline, distance from centerline, data point location, survey boundary, and IDs of associated features) WSUP \$26 1 CL up 20 N 554P Ø17



Waterbody data point ssup017 facing southwest upstream.



Waterbody data point ssup017 facing northeast downstream.

Photo Sheet 1 of 2



Waterbody data point ssup017 facing southeast across bank.

Linear Waterbody Data Sheet

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Lincui Muterbeuj		COM STRATEGY CONTRACTOR	Aurel and a second states			CARLON A CAR	
Survey Description							
Project Name:	Wa	terbody Name:		ľ	Waterbody ID:	~11	ate:
ACP		INT to Ki	ngsale:	Sumo	SSUP	Q16	12/9/15
State: C	ounty/Parish:	Comp	the same of the		Member Initials:	Photos:	Facing
VA	200 C 002 200		SI-1	0.01	145,1450	NUE	<
41.	SUFFOIR			JV(1	Associated We	I WIC	12
Tract Number(s):	- 0 F	Neare	st Milepost:	-		itiand iD(s):	
26-013-A	025		44.5		NA		
Survey Type: (check one)	Centerline	DRe-Route		ess Road	□Other:		
Physical Attributes					14.2000年間14.1		· · · · · · · · · · · · · · · · · · ·
Stream Classification:							
(check one)	Ephemeral	Diffitermittent	LiPer	ennial			
Waterbody Type: (check one)	ver D'Stream	Ditch	🗆 Canal	Other:			
OHWM Width:ft.	OHWM Indicator: (check all that apply)	E C on b		□Shelving	CWVrested vegetation	□Scouring	□Water staining
Height: <u>∂. </u> _ft. N/A□	□Bent, matter vegetation	ed, or missing DW		□Litter and debris	□Abrupt plant community cha		aracteristic change
Width of Waterbody - Top	of Width of W	aterbody - Toe of	Slope Width o	of Waterbody - N	Water Edge to	Depth of Water:	
Bank to Top of Bank:	to Toe of S		Water E	Edge:	6	Approx.)	
10 ft.	L	f ft.		2	ft.	C	<u>, 2</u> ft.
		<u> </u>	N/A□				
Sinuosity:	Water velo	city:	Bank h	eight	E	Bank slope	
(check one)	(Approx.)	\Box 1		Right: 6	A	Right:	70 degrees
		U. I_fps		Left: (Left:	70
Meandering	N/A□			0	_ft.		degrees
Qualitative Attribute	S						
Water Appearance: (check one)	o water □Clea	Turbid	□Sheen	□Surface		Other:	
			on surface	scum	mats		
Substrate: 🗆 🛙	edrock 🗆 Boulde	r 🗆 Cobble 🗆	Gravel	Sand De Silt/	clay	Other:	
(check all that apply)			0	5 6 6			
% of Substrate:	%%	%	%	<u> </u>	_%%	%	
Width of Riparian Zone:	Vegetative La	yers:		/		/	
$i \cap$	(check all that apply	, [] Trees:	🗹 Sap	lings/Shrubs:	D Herbs	
<u> </u>	Avg. DBH of D	ominants:	in.	2	in.	NA_in.	
∿/A⊡ Dominant Bank Vegetatio	(approx.)						
Lonicera J	A PODICE		MAM SI	nease	POILStic	hum o	crostichoid
Aquatic Habitats (ex: subn		atic vegetation, overh	anging banks/roo	ots, leaf packs, larg	ge submerged wood,	nmes, deep pools):
leaf pac	K)						10.000 (Mar)
Aquatic Organisms Obse	rved (list):						ne oraș entern a zile en ale de la complete de
NUNE							
T&E Species Observed (1 NUN-R	ist):						
Disturbances (ex: livestock	access, manure in wa	terbody, waste discha	rge pipes):		-		
Channeliz							
Tributary is:			man mad-	In Maninulator			
(check one) Stream Quality * :	□ Natural	□ Artificial,	man-made	C Manipulated			
(check one)	🗆 High	Moderate		Low			

Waterbody ID: 016 SSUP High Quality: Natural channel, natural vegetation extends at least one or two active channel widths on each side; banks stable and protected by roots; water color is clear to tea-colored; no barriers to fish movement; many fish cover types available; diverse and stable aquatic habitat; no disturbance by livestock or man. Moderate Quality: Altered channel evidenced by rip-rap; natural vegetation extends 1/3-1/2 of the active channel width on each side; filtering function or riparian vegetation only moderately compromised; banks moderately unstable; water color is cloudy, submerged objects covered with greenish film; moderate odor; minor barriers to fish movement; fair aquatic habitat; minimum disturbance by livestock or man. Low Quality: Channel is actively down cutting or widening; rip rap and channelization excessive; natural vegetation less than 1/3 of the active channel width on each side; lack of regeneration; filtering function severely compromised; banks unstable (eroding); water color is muddy and turbid; obvious pollutants (algal mats, surface scum, surface sheen); heavy odor; severe barriers to fish movement; little to no aquatic habitat; severe disturbance from livestock or man. Notes: ssur pro Waterbody Sketch (Include north arrow, centerline, distance from centerline, data point location, survey boundary, and IDs of associated features) 55UR PIG wsupoz5 5



Waterbody data point ssup016 facing west upstream.



Waterbody data point ssup016 facing east downstream.

Photo Sheet 1 of 2



Waterbody data point ssup016 facing south across bank.

Survey Descriptio	n	Trans - an article and				Detai
Project Name:		Waterbody Nan	ne:		Waterbody ID:	Date:
ACP	and a set of the	UNTT	O Kingsple	Summer S.	SSUPP	515 12/9/1
State:	County/Parish:		Company:		w Member Initials:	Photos: Facino
VA	SUFFO	PROPERTY OF ALL CONTRACT	ESI-1	11.	KSIKSM	NE, SW, SE
Tract Number(s):	A co	AND THE CONTRACTOR OF A DESCRIPTION OF A DESCRIPANCO OF A DESCRIPTION OF A DESCRIPTION OF A DESCRIPTION OF A	Nearest Milepost		Associated Wetla	nd ID(s):
76-013	-A02	5	4	1.5	WS4p	925
Survey Type: (check one)	Centerline	Re-R	loute 🗆	Access Road	□Other:	
Physical Attribute	S					
Stream Classification: (check one)	Ephemera	al ⊡Interr	mittent 🖂	erennial		
Waterbody Type: (check one)	River 🗹 Str	eam 🗆 Ditc	h 🗆 Canal	Other:		
OHWM Width: <u> </u>	OHWM Indica (check all that appl		Clear line on bank	□Shelving	也Wrested vegetation	□Scouring tweeter Staining
Height: <u>4</u> ft.	□Bent, r vegetatio	natted, or missing n	g 🗆 Wrack line	□Litter and debris	□Abrupt plant community chang	□Soil characteristic cha le
Width of Waterbody - 1 Bank to Top of Bank: ft.	Fop of Width to Toe -	of Waterbody - T of Slope: <u>5</u> ft.	Foe of Slope Widt Wate N/AE	er Edge: 	- Water Edge to Dep (App ft. N/A	noth of Water: nox.) □tt.
Sinuosity: (^{check one)} □Straight ⊡Meanderi	(Approx.)	$0.5_{\rm fp}$		cheight Right: ک Left: 4	ft. ft.	nk slope Right: <u>20</u> degre Left: <u>60</u> degre
Qualitative Attribu	ites	1		Service and		
Water Appearance:		Clear 🗆 Turbi	id 🗆 Sheen on surfa	□Surface	e ⊟Algal ⊡O mats	ther:
Substrate: [(check all that apply) % of Substrate:] Bedrock □ Bo	oulder 🗆 Cobb	le 🗆 Gravel 1 %%	Sand Si	lt/ clay □ Organic)%%	□ Other:%
Width of Riparian Zon <u>50 ft</u> . N/A 🗆	(check all tha Avg. DBH (approx.)		□ Trees: in.	⊠ sa	aplings/Shrubs: in.	NA_in.
Polustic bien		hoides	Liquistum	n sinen	se, Lonicer	ra Japonico
Aquatic Habitats (ex: s						la Japonicon les, deep pools):
		1 1001	5/ 50110	and and a	1000 000	
Aquatic Organisms O	served (list):					
Aquatic Organisms Of		<u> </u>	644 			
Aquatic Organisms O		<u></u>	an Myseew			
Aquatic Organisms Ol NONC T&E Species Observe NONC Disturbances (ex: lives	d (list):	in waterbody, waste	e discharge pipes):	<u></u>		
Aquatic Organisms Ol へいへそ T&E Species Observe へいへん	d (list):	<u>Alessa</u>	e discharge pipes): ificial, man-made	□ Manipulate	ed	

C

Waterbody ID: SSUP 015 High Quality: Natural channel, natural vegetation extends at least one or two active channel widths on each side; banks stable and protected by roots; water color is clear to tea-colored; no barriers to fish movement; many fish cover types available; diverse and stable aquatic habitat; no disturbance by livestock or man. Moderate Quality: Altered channel evidenced by rip-rap; natural vegetation extends 1/3-1/2 of the active channel width on each side; filtering function or riparian vegetation only moderately compromised; banks moderately unstable; water color is cloudy, submerged objects covered with greenish film; moderate odor; minor barriers to fish movement; fair aquatic habitat; minimum disturbance by livestock or man. Low Quality: Channel is actively down cutting or widening; rip rap and channelization excessive; natural vegetation less than 1/3 of the active channel width on each side; lack of regeneration; filtering function severely compromised; banks unstable (eroding); water color is muddy and turbid; obvious pollutants (algal mats, surface scum, surface sheen); heavy odor; severe barriers to fish movement; little to no aquatic habitat; severe disturbance from livestock or man. Notes: Waterbody Sketch (Include north arrow, centerline, distance from centerline, data point location, survey boundary, and IDs of associated features) Clauded Rt SSypoll 5842015 HPORS 5540010



Waterbody data point ssup015 facing northeast upsteam.



Waterbody data point ssup015 facing southwest downstream.

Photo Sheet 1 of 2



Waterbody data point ssup015 facing southeast across bank.

Survey Descript Project Name:	ion	State State			
Project Name:		rbody Name:		Waterbody ID:	Date:
ACP		UNT For King	pole Swamp	Oldonza	11/03
State:	County/Parish:	Company:	Cre	w Member Initials:	Photos:
VA	SUFFOIK	ESI		R. S.I	CWE
Tract Number(s):		Nearest Mi	epost:	Associated Wetlan	d ID(s):
26-013	- A030		44.5	NSNOOF	
Survey Type: (check one)			Access Road	Other:	
Physical Attribu	tes		and a strategy of the		
Stream Classificatio	n: DEphemeral		Perennial		
Waterbody Type: (check one)		Ditch D	anal 🗆 Other:		,
OHWM Width:	OHWM Indicator: (check all that apply)	Clear li	ne 🗆 Shelving	□Wrested vegetation	Scouring Wate staining
Height: 2	t. VBent, matted,	or missing	ine Litter and debris	Abrupt plant community change	
Width of Waterbody	- Top of Width of Wat	erbody - Toe of Slope	Width of Waterbody	- Water Edge to Dept (Appro	h of Water:
Bank to Top of Bank	to Toe of Slo	pe:	Water Edge:		2
0	n	ft.	N/ACI	ftN/AD	n.
Sinuosity:	Water veloci	tv:	Bank height	the second se	slope
(check one)	(Approx.)	1	Right:		Right: O(1)
Straigh		fps	4	<u>ft.</u>	Left: AL
Meand	ering N/A		Left: 2	<u>- ft.</u>	deg
A	and the second s	and the second	Alter and a stranger		a She Barris
Qualitative Attri	butes		alentes es anaga		The local distance in the second
Water Appearance: (check one)	□No water □Clear		heen 🗆 Surface	e ⊡Algal ⊡Oth mats	ier:
Substrate:	Bedrock Boulder	Cobble 🗀 Grav	rel 10 Sand 10 S	ilt/ clay 🗆 Organic 🗆	Other:
(check all that apply)			% 90 % 11) % %	%
% of Substrate:	%%	70	%%		
Width of Riparian Zo			1		4
00 ((check all that apply) Avg. DBH of Do	ÅTree minants: 父	1 2	aplings/Shrubs:	ÓHerbs N/A_in.
	(approx.)		_in	in.	<u> </u>
Dominant Bank Veg					
Acer Yubru	and smill	ix rotund	10110	0.0. 0. 1	
Aquatic Habitats (ex	submerged or emerged aquat	ic vegetation, overhanging	banks/roots, leaf packs, 1	arge submerged wood, riffie	s, deep pools):
DADIA WALL		DNG			
	1 1100 1 -1 -1	1112			
veer yours					
Aquatic Organisms	Observed (#St):				
Aquatic Organisms					100 C
NDWL T&E Species Obser	ved (list):	1		-	
NOME TEE Species Observ None obse	red (list): rved	body, waste discharge ni	pes):		1.18
NONE T&E Species Observ None obse Disturbances (ex. liv	red (list): SVEJ estock access, manure in water	body, waste discharge pi	bes):		1.5
NOME TEE Species Observ None observ Disturbances (ex. liv (WW)	red (list): rved	body, waste discharge pi	bes):	1	
NONE T&E Species Observ None obse Disturbances (ex. liv (WW)/- Tributary Is:	red (list): rved estock access, manure in water b P (V) d () M			ert	
NOME TEE Species Observ None observ Disturbances (ex. liv	red (list): SVEd estock access, manure in water	body, waste discharge pi		ed	

and and	and the second	Waterbody ID: SSNDOOO
roots; water co	Natural channel, natural vegetation extends at least one or two active channel plor is clear to tea-colored; no barriers to fish movement; many fish cover ty livestock or man.	el widths on each side; banks stable and protected by pes available; diverse and stable aquatic habitat; no
or riparian vege	lity: Altered channel evidenced by rip-rap; natural vegetation extends 1/3-1/2 of etation only moderately compromised; banks moderately unstable; water color odor; minor barriers to fish movement; fair aquatic habitat; minimum disturbance	r is cloudy, submerged objects covered with greenish
width on each s	Channel is actively down cutting or widening; rip rap and channelization excessive side; lack of regeneration; filtering function severely compromised; banks unstat al mats, surface scum, surface sheen); heavy odor; severe barriers to fish mov or man.	ble (eroding); water color is muddy and turbid; obvious
Notes:		
	6	
	in the second	and the second sec
Vaterbody SI	ketch (Include north arrow, centerline, distance from centerline, data point loca	ation, survey boundary, and IDs of associated features)
-11	BRUN W DWA	
6	Beaver DAM	
N	$\langle V \rangle \langle V \rangle / / / / / / / / / / / / / / / / / /$	X
		Centerline
WSUDDIT	4100nss	
101	000	
VSU		
2	Sec 1	
	data point	
	CUIVOX+	Form Rev. 05/16/2014

16.25



Waterbody ssuo010 facing east upstream.



Waterbody ssuo010 facing west downstream.