FINAL MONITORING REPORT YEAR 2 of 5

Hockett Dairy Site Riparian Buffer Restoration EEP Project ID Number 003993 – EEP Site 95013

> Randolph County, North Carolina Cape Fear River Basin HUC 03030003010070



Submitted to:



NC Department of Environment and Natural Resources Ecosystem Enhancement Program 1652 Mail Service Center Raleigh, NC 27699-1652

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1.0 EXECUTIVE SUMMARY / PROJECT ABSTRACT

1.1 Project Goals and Objectives

The Hockett Dairy Buffer Mitigation Project is located in the 03030003 Catalog Unit (CU), in the Cape Fear River Basin. Assets of this CU include the Deep River, the Randleman Reservoir, and major communities including High Point, Asheboro, Siler City, and Sanford. Restoration goals for CU 03030003 as identified in the 2009 Cape Fear River Basin RBRP include protection of several species of mussel and the Cape Fear Shiner (*Notropis mekistocholas*). Additional goals include the improvement in water quality to waters draining to Randleman Reservoir.

The Hockett Dairy Buffer Mitigation Project was identified as an opportunity to improve water quality and habitat within the CU. The project goals address stressors identified in the CU. The following table lists the project goals and the project objectives through which the goals will be addressed:

Goals	Objectives
1. Nutrient removal	• Restore minimum 50-foot riparian buffer by planting
2. Sediment removal	appropriate bottomland hardwood species to filter runoff.
3. Runoff filtration	• Convert active farm fields to forested buffers.
4. Increase dissolved oxygen	• Plant buffer vegetation to shade channel.
concentration	• Restore riparian buffer habitat to appropriate bottomland
5. Restore riparian habitats	hardwood ecosystem.
6. Reduce water temperature	• Restore canopy tree species in the stream buffer areas to shade channel.
	• Eliminate and control exotic invasive species.
	• Replace two undersized and failing channel crossings with
	appropriately sized culverts or ford.
	• Stabilize two small dams on small farm ponds.

1.2 Project Background

The Hockett Dairy Riparian Buffer Mitigation Site is located on Hockett Dairy Road (SR 1938) in Randolph County approximately 12 miles north of Asheboro, NC (**Figure 1**). The site is located in the Cape Fear River Basin within Cataloging Unit 03030003010070 (NCDWQ sub-basin 03-06-08). The site has five unnamed tributaries (UT) that drain into Randleman Lake. The project consists of 11.82 acres of buffer restoration.

The Hockett Dairy Buffer site is located in the Piedmont Physiographic Province and in the Carolina Slate Belt. The region is underlain by felsic metavolcanic rocks, which can be seen in the streambed of UT 2 and UT 3. The topography of the project area is generally rolling with elevations ranging from 670 to 760 feet. The five unnamed tributaries to Randleman Lake comprise the principle drainage features. These tributaries have limited hardwood trees present within the buffer and lack significant ground cover. The mature trees are less than 100 stems per acres. The project's watershed is primarily used for agricultural production. Much of the surrounding land use is currently dairy cows and calves or row crop production for dairy silage. Cattle have direct access to streams channels and ponds and are a source of ongoing erosion along the banks and within the adjacent buffer. Cattle are excluded from some channels with fencing on or near the top of bank, resulting in a degraded riparian buffer. The project area has been in agricultural use for several decades.

The Hockett Dairy mitigation project provides high quality riparian buffer restoration. Stream buffer mitigation for the Hockett Dairy Site involved buffering five streams that flow directly and indirectly into

Randleman Lake. The mitigation design divides the site into five distinct reaches (**Figure 2**). Buffer restoration was performed along five channels. Two undersized and failing channel crossings were replaced with appropriately sized culverts to prevent erosion. Two small dams on small farm ponds have been stabilized.

1.3 Vegetation Condition

The measure of vegetative success for the site is the survival of at least 320 five-year old planted trees per acre at the end of year five of the monitoring period. CVS Level was performed in Year 2 to document any volunteer generation. A total of 4 volunteers were observed across all 12 vegetation plots. Year 2 monitoring recorded an average of 523 planted stems per acre and 536 total stems per acre (planted and volunteers) across all vegetation plots. Plots 2, 6, and 7 each had less than 300 stems per acre. All other plots achieved success criteria in Year 2. Vegetation issues included invasive species (Johnsongrass, *Sorghum halepense*) along portions of UT 4 and vegetation trampled by cattle near Plot 2. The cattle had gained access to the easement prior to Year 1 monitoring when a tree fell onto the fence near Plot 2. This fence was repaired prior to year 1 monitoring and the cattle have been excluded. The plot may need to be replanted to meet success criteria. Overall, vegetation across the site is in good condition. The Current Condition Plan View is provided in **Appendix B**, **Figure 2**.

1.4 Summary Information / Data

Summary information/data related to the occurrence of items such as beaver or encroachment and statistics related to performance of various project and monitoring elements can be found in the tables and figures in the report appendices. Narrative background and supporting information formerly found in these reports can be found in the Baseline Monitoring Report (formerly Mitigation Plan) and in the Mitigation Plan (formerly the Restoration Plan) documents available on EEP's website. All raw data supporting the tables and figures in the appendices is available from EEP upon request.

2.0 METHODOLOGY

In order to determine if the success criteria are achieved and the planted areas are developing toward the target community, NCEEP-CVS Protocol for Recording Vegetation Version 4.2 will be utilized. The vegetation monitoring will include Level I and Level II plots distributed across the planted area. An interim vegetation monitoring will occur in spring after leaf-out has occurred. The CVS monitoring will be conducted toward the end of the growing season. Individual plot data will be provided to NCEEP and CVS following NCEEP-CVS guidance. The annual monitoring requirements are summarized in the following table:

Required	Parameter	Quantity	Frequency	Notes
x	Vegetation	12 Plots Located randomly across the project area	Annual	Vegetation will be monitored using the Carolina Vegetation Survey (CVS) protocols
X	Exotic and nuisance vegetation	N/A	Semi-Annual	Exotic vegetation will be evaluated and spot treatment applied as needed
x	Project boundary	N/A	Semi-annual	Locations of fence damage, vegetation damage, boundary encroachments, etc. will be mapped

Photographs will be used to visually document restoration success. Reference photos will be taken once a year and will be used to visually document restoration success. Reference photo stations are marked with

wooden stakes. Reference stations will be photographed immediately following planting and continued annually for at least five years following construction. Photographers will make every effort to maintain the same area in each photo over time. Photographs will be used to subjectively evaluate vegetation establishment. A series of photos over time should indicate successional maturation of riparian vegetation.

3.0 REFERENCES

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Appendix A

Project Vicinity Map and Background Tables



	Table 1. Project Components and Mitigation CreditsHockett Dairy, Randolph CountyEEP Project ID Number 003993 EEP Site 95013																		
	Mitigation Credits																		
	StreamRiparian WetlandNon-riparian WetlandBufferNitrogen Nutrient OffsetPhosphorous Nutrient Offset																		
Туре	N/A	N/A	N/	/A	N/A	N/A	N/A		Restoration		N/A		N/A						
Totals*	N/A	N/A	N/	/A	N/A	N/A	N/A		11.82 Ac.		N/A		N/A						
	-		-		·]	Project Cor	npo	nents	-									
Reach II)	Station Locat	0	I	Existing Footage (1	· .	Approach (PI, PII, etc.)								Restoration		Restoration Area (acres		Mitigation Ratio
Reach UT2		N/A			733		N/A		N/A		Buffer Restorati		1.72		1:1				
Reach UT3		N/A	1		817		N/A		Buffer Restorat	tion	1.85		1:1						
Reach UT4		N/A			1884		N/A		Buffer Restorat	tion	4.62		1:1						
Reach UT5	UT5		N/A		466		N/A		Buffer Restorat	tion	0.89		1:1						
Reach UT6		N/A		797			N/A		N/A		N/A		Buffer Restorat	tion	1.84		1:1		
Pond 2		N/A			378*	N/A			Buffer Restorat				1:1						
Pond 3	ond 3		N/A		338*		N/A	Buffer Restoration 0.38					1:1						
										Total	11.82								
						Co	mponent S	-											
Restoratio	on	Stream	ı 🗋		Riparia	n Wet	etland Non-Riparian Wetland Buffer			Upland									
Level		(linear fe	et)	Ri	iverine	verine Non-Riverine (acr		n-Riverine (acres) (acres) (a			(acres)								
Restoratio	on	N/A			N/A		N/A N/A 11.82 N/A					N/A							
*pond perime	ter																		

Table 2. Project Activity and Reporting HistoryHockett Dairy, Randolph CountyEEP Project ID Number 003993 EEP Site 95013									
Elapsed time since planting complete: 1 year, 7 months									
Number of reporting years	: 2								
	Data Collection	Completion or							
Activity or Report	Complete	Delivery							
Mitigation Plan	January 2012	May 2012							
Final Design - Construction Plans	N/A	May 2012							
Construction	N/A	October 2012							
Temporary S&E mix applied to project area	N/A	June 2012							
Permanent seed mix applied to project area	N/A	June 2012							
Containerized and B&B plantings planted in project area	N/A	February 2013							
Baseline Monitoring Document (Year 0 Monitoring - baseline)	February 2013	March 2013							
Year 1 Monitoring	October 2013	October 2013							
Year 2 Monitoring	September 2014	September 2014							
Year 3 Monitoring	Fall 2015*	Fall 2015*							
Year 4 Monitoring	Fall 2016*	Fall 2016*							
Year 5 Monitoring	Fall 2017*	Fall 2017*							

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Table 3. Project Contact Table Hockett Dairy, Randolph County EEP Project ID Number 003993 EEP Site 95013							
Designer WK Dickson & Co., Inc.							
Primary project design POC	Daniel Ingram - (919) 782-0495						
Construction Contractor	KBS Earthworks						
Construction contractor POC Kory Strader - (336) 362-0289							
Planting Contractor Strader Fencing							
Planting contractor POC	Kenneth Strader - (336) 697-7005						
Seeding Contractor	Strader Fencing						
Planting contractor POC	Kenneth Strader - (336) 697-7005						
Seed Mix Sources	Evergreen Seed, Inc						
Nursery Stock Suppliers ArborGen							
Monitoring Performers WK Dickson & Co., Inc.							
Vegetation Monitoring POC	Daniel Ingram - (919) 782-0495						

Table 4. Project Baseline Information and Attributes									
	Dairy, Randolph Count umber 003993 EEP Si	•							
Project Information									
Project Name Hockett Diary Buffer Mitigation Site									
County	Randolph								
Project Area (acres)	12.99								
Project Coordinates (latitude and longitude)	35° 53' 55.219" N,	79° 49' 37.381"W							
Project Water	shed Summary Inforn	nation							
Physiographic Province	Piedmont Physio	graphic Province							
River Basin	Cape Fear River E	Basin							
USGS Hydrologic Unit 8-digit	03030003								
USGS Hydrologic Unit 14-digit	03030003010070								
DWQ Sub-basin	03-06-08								
	Reach UT2 19.4 acres								
	Reach UT3 31.2 acres								
Project Drainage Area (acres)	Reach UT4 76.3 acres								
	Reach UT5 9.1 acres								
	Reach UT6 34.4 acres								
Project Drainage Area Percentage of Impervious Area	0.6%								
	2.5	Residential							
	144.3	Cropland and Pasture							
CGIA Land Use Classification	12.6	Other Agricultural Land							
	19.1	Passively Managed Forest Stands							

Table 4 (cont.). Project Baseline Information and Attributes Hockett Dairy, Randolph County EEP Project ID Number 003993 EEP Site 95013									
Parameters	Reach UT2	Rea	ch UT3	Reach U	Л4	Reach UI5		Reach UI6	
Length of reach (linear feet)	733	:	817	1884		466		797	
Valley Classification	X		X	X		X		Х	
Drainage area (acres)	19.4		31.2	76.3		9.1		34.4	
NCDWQ stream identification score	29	1	27.5	19-25.	.5	21		13	
NCDWQ Water Quality Classification	WS-IV;CA	WS	-IV;CA	WS-IV;	CA	WS-IV;CA		WS-IV;CA	
Morphological Description (stream type)	Е		Е	G		G		G	
Evolutionary trend	Stable	S	table	Stabl		Stable		Stable	
Underlying mapped soils	Wynott-Enon complex WvC2	Mecklenburg CL MeC2,		Mecklenbu MeC2, Wy Enon cor WvC	ynott- nplex	Mecklenburg CL MeC2		Wynott-Enon complex WvC2	
Drainage class	well	well		well		well		well	
Soil Hydric status	Non-hydric	Non	-hydric	Non-hydric		Non-hydric		Non-hydric	
Slope (ft/ft)	0.0004	0.	03%	0.02%		0.04%		0.02%	
FEMA classification	Zone AE	Zo	ne AE	Zone A	ΑE	Zone AE		Zone AE	
Native vegetation community	Pasture	Pa	sture	Pastur	re	Pasture		Pasture	
Percent composition of exotic invasive vegetation	0.1	1	10%	15%		5%		20%	
	R	egulato	ry Consid	erations					
Regula	ation		Applicable]	Resolved		Supporting Documentation	
Waters of the United Stat	tes - Section 404		Y	<i>l</i> es		Yes	se	e Mitigation Plan	
Waters of the United States - Section 401			Y	<i>l</i> es		Yes	se	e Mitigation Plan	
Endangered Species Act			Yes		Yes		see Mitigation Plan		
Historic Preservation Act	Yes			Yes		see Mitigation Plan			
Coastal Zone Managemen Area Management Act (C	No		N/A		N/A				
FEMA Floodplain Compl	iance		N	lo	N/A			N/A	
Essential Fisheries Habita	ıt		Ν	lo		N/A	Ī	N/A	

Appendix B

Visual Assessment Data







Table 5. Vegetation Condition Assessment											
	Hockett Dairy, Randolph County EEP Project ID Number 003993 EEP Site 95013										
Planted Acreage: 12.99											
						% of					
		Mapping	CCPV	Number of	Combined	Planted					
Vegetation Category	Definitions	Threshold	Depiction	Polygons	Acreage	Acreage					
	Very limited cover of both woody										
1. Bare Areas	and herbacious material.	0.1 acres	N/A	0	0.00	0%					
	Woody stem densities clearly		vertical								
	below target levels based on MY3,		yellow line								
2. Low Stem Density Areas	4, or 5 stem count criteria.*	0.1 acres	fill	2	3.95	30%					
			Total:	2	3.95	30%					
	Areas with woody stems of a size										
3. Areas of Poor Growth	that are obviously small given the										
Rates or Vigor	monitoring year.	0.25 acres	N/A	0	0.00	0%					
		*Cumu	lative Total:	2	3.95	30%					
Easement Acreage:	12.99										
						% of					
		Mapping	CCPV	Number of	Combined	Planted					
Vegetation Category	Definitions	Threshold	Depiction	Polygons	Acreage	Acreage					
			horizontal								
4. Invasive Areas of	Areas or points (if too small to		yellow line								
Concern	render as polygons at map scale)	1000 SF	fill	2	7.72	59%					
		1	1								
5. Easement Encroachment	Areas or points (if too small to										
Areas	render as polygons at map scale)	none	N/A	0	0	0%					

*3 vegetation plots are below success criteria, but project is currently in year 2 monitoring

Vegetation Plot Photos



Vegetation Plot 1



Vegetation Plot 3



Vegetation Plot 5



Vegetation Plot 2



Vegetation Plot 4



Vegetation Plot 6

Hockett Dairy Site – Riparian Buffer Restoration EEP Project ID #003993-EEP Site 95013



Vegetation Plot 7



Vegetation Plot 9



Vegetation Plot 11



Vegetation Plot 8



Vegetation Plot 10



Vegetation Plot 12

Hockett Dairy Site – Riparian Buffer Restoration EEP Project ID #003993-EEP Site 95013

Appendix C

Vegetation Plot Data

Dairy, Rand	Table 6. Riparian Buffer Vegetation Totals Hockett Dairy, Randolph County EEP Project ID Number 003993 EEP Site 95013									
Plot #	Riparian Buffer Stems ¹ (per acre)	Success Criteria Met?								
1	850	Yes								
2	162	No								
3	647	Yes								
4	688	Yes								
5	567	Yes								
6	283	No								
7	283	No								
8	486	Yes								
9	486	Yes								
10	647	Yes								
11	405	Yes								
12	769	Yes								
Project Avg	523	Yes								

Stem Class

¹Buffer Stems

characteristics

Native planted hardwood trees. Does NOT include shrubs. No pines. No vines.

Table 7. CVS Stem Count Total and Planted with/without Livestakes by Plot and Species Hockett Dairy, Randolph County EEP Project ID Number 003993 EEP Site 95013

												(urrent	Plot Data ((MY2 201	4)										
				003993-01-000			00	3993-0	1-0002	0002 00399			003	003993-01-0004			003993-01-0005			003993-01-0006			00	003993-01-0007		
Scientific Name	Common Name	e Species	Туре Р	noLS	P-all	Т	PnoLS	P-a	all T	I	PnoLS	P-all	Т	PnoLS	P-all	Т	PnoLS	P-all	Т	PnoLS	P-al	Т	PnoLS	P-all	Т	
Betula nigra	river birch	Tree		(6 6	5 6					1	1	1					3 3	3 3	3						
Cercis canadensis	eastern redbud	Tree						1	1	1					2 2	2		1 1	1 1	1				1	1	
Diospyros virginiana	common persimmor	n Tree																						_		
Fraxinus pennsylvanica	green ash	Tree	3 3 4		3 4					2	2	2		3 3	3		3 3	3 3	3	1	1	1	1	1		
Nyssa sylvatica	blackgum	Tree				2																				
Platanus occidentalis	American sycamore	e Tree				1												6 6	5 6	5	1	1	1	1	1	
Quercus	oak	Tree		1	2 2	2 2									3 3	3					1	1	1	1	1	
Quercus falcata	southern red oak	Tree			5 5	5 5		1	1	1	1	1	1		2 2	2										
Ouercus michauxii	swamp chestnut oa	ak Tree			2 2	2 2		2	2	2	8	8	8		5 5	5		1 1	1		4	4	4			
Quercus nigra	water oak	Tree				1					2	2	2			1			1	1			1		1	
Quercus phellos	willow oak	Tree			3 3	3 3					2	2	2		2 2	2				1			1	3	3	
Quercus rubra	northern red oak	Tree				-																		-	-	
L			count	2	1 21	25		4	4	4	16	16	16	-	17 17	17		14 14	1 14	1	7	7	7	7	7	
		(ares)	1 0.02				1				1	, 10		1			1			1	1		1	,		
	size (A	(0.02					0.02		0.02			0.02				0.02	0.02		0.02			
		Species count		6 6 8		3		3	3	6	6.02	6	6 6 6		5 5 5		4 4 4			4	5 5 4					
	Stems per		849 8398	5 849 84	1011.71	161.87	426 16	1.87 16	51.87	647.497	647.5	647.5	687 965	59 687 97	687 97	566.5598	99 566 56	5 566 56	283.27	9949 283.	28 283	28 283 2	799 283.2	28 283 2		
					0.0.0									rrent Plot I		<u> </u>										
			003	993-01-0	008	0039	93-01-0	00	003	3003-0	1-0010	0	003993-01-0				012	MY2 (2014)		1	MY1 (2013)			MY0 (2013)		
Scientific Name	Common Name	Species Type	PnoLS	P-all	Т	PnoLS	P-all	-	PnoLS	P-a	п т	PnoL			PnoLS	P-all	Т Р	noLS	P-all	T P		all T	PnoL		/	
Betula nigra	river birch	Tree								2	2	2	2	2 2		1	1 1	15	5 15	15	27	27	27	58	58 5	
Cercis canadensis	eastern redbud	Tree		1 1	1					2	2	2						8	8 8	8	2	2	2			
Diospyros virginiana	common persimmon	Tree														1	1 1	1	1	1						
Fraxinus pennsylvanica	green ash	Tree				2	2 2	2		5	5	5	4	4 4		2	2 2	26	5 26	27	30	30	30	28	28 2	
Nyssa sylvatica	blackgum	Tree																		2					_	
Platanus occidentalis	American sycamore	Tree		6 6	6	5				6	6	6	-			_		20		21	20	20	20		45 4	
Quercus	oak	Tree				4	4 4	4		_		-	3	3 3		1	1 1	15		15	61	61	61	133 1	133 13	
Quercus falcata	southern red oak	Tree		+	-		5 3	3		_	_	-	1	1 1	I	5		12		12	1	1	15	-+-	+-	
Quercus michauxii Quercus nigra	swamp chestnut oak water oak	Tree Tree		+			3	3		_	_	-	1	1 1		3	5 5 1 1	31	1 51	31	15	15	15	\rightarrow	+-	
Quercus nigra Quercus phellos	willow oak	Tree		5 5	5		+			1	1	1			l	5	5 5	21	21	21	4	15	4	-+	+-	
Quercus rubra	northern red oak	Tree		5 5			-					1			1	3	3 3		3 3	3	2	2	2		+	
Quereus rubru	northern red out	Stem count	1	2 12	12	13	2 12	12		16	16 1	6	10	10 10		19 1	9 19	155	5 155	159	177	177	177	264 2	264 26	
		size (ares)	- 1	12 12 12 1		12	1 12 12 10			1	10 1	Ť	10	10	1 10 17			12		157		12		12		
		size (ACRES)		0.02		0.02			0.02	2	1	0.02			0.02			0.30			0.30			0.30		
				3 3 3 4		4 4			-				1	1			8 11 11			12 10 10 1			10 4 4 4			
		Species count		5 5	5	4	4	4		5	5	5	4	4 4	-	8	8 8	11	11	12	10	10	10	4	4	

Color Key for Density

Exceeds requirements by 10%

Exceeds requirements, but by less than 10%

Fails to meet requirements, by less than 10%

Fails to meet requirements by more than 10%