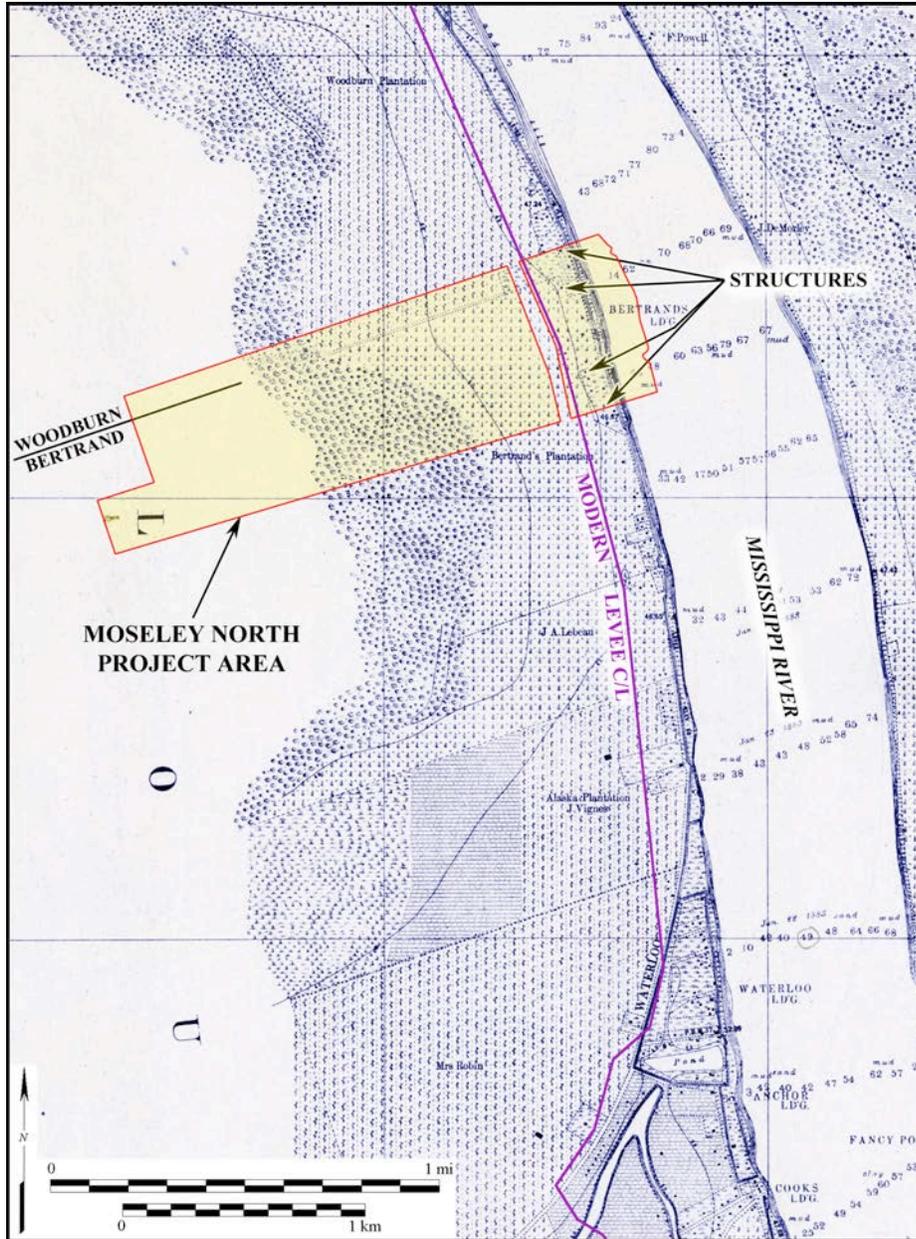


Exhibit FF. Moseley North Site Phase I Cultural Resources Assessment Report

PHASE I CULTURAL RESOURCES SURVEY OF THE 348.3 AC (141 HA) MOSELEY NORTH TRACT POINTE COUPÉE PARISH, LOUISIANA



FINAL REPORT

SUBMITTED TO

BATON ROUGE AREA CHAMBER
564 LAUREL STREET
BATON ROUGE, LOUISIANA

SUBMITTED BY

COASTAL ENVIRONMENTS, INC.
1260 MAIN STREET
BATON ROUGE, LOUISIANA

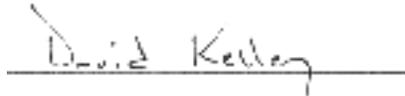
APRIL 2015

**PHASE I CULTURAL RESOURCES SURVEY OF THE
348.3 AC (141 HA) MOSELEY NORTH TRACT
POINTE COUPÉE PARISH, LOUISIANA**

FINAL REPORT

PREPARED BY

**THURSTON H.G. HAHN III
MICHAEL CARPENTER
AND
DONALD G. HUNTER**

A handwritten signature in cursive script, reading "David Kelley", is written over a horizontal line.

**DAVID B. KELLEY
PRINCIPAL INVESTIGATOR**

DOA REPORT No. 22-4914

SUBMITTED TO

**BATON ROUGE AREA CHAMBER
564 LAUREL STREET
BATON ROUGE, LOUISIANA**

SUBMITTED BY

**COASTAL ENVIRONMENTS, INC.
1260 MAIN STREET
BATON ROUGE, LOUISIANA**

APRIL 2015

ABSTRACT

In February and April 2015, Coastal Environments, Inc. (CEI) conducted a Phase I cultural resources survey of the Moseley North Project Area near Waterloo in Point Coupée Parish, Louisiana, for the Baton Rouge Area Chamber (BRAC). The survey was conducted as part of the Louisiana Economic Development Site Certification process. The BRAC project area encompasses batture, natural levee, and back-swamp regions on the west bank of the Mississippi River and encompasses approximately 348.3 ac (141 ha). These investigations located one new archaeological site: Moseley North 1 (16PC123), dating to the early twentieth century. Site 16PC123 is recommended as ineligible for inclusion on the NRHP, and no additional work is required at the site. In addition, no standing structures currently stand within the Moseley North area of potential effect (APE).

TABLE OF CONTENTS

ABSTRACT	ii
LIST OF FIGURES	v
LIST OF TABLES	viii
ACKNOWLEDGEMENTS.....	ix
CHAPTER 1: INTRODUCTION	1
CHAPTER 2: ENVIRONMENTAL SETTING	4
GEOLOGY AND Geomorphology	4
Vegetation.....	9
Fauna	9
CHAPTER 3: CULTURAL SETTING.....	12
Aboriginal Cultural Setting.....	12
Late Archaic Period, 3000–1500 B.C.....	12
Poverty Point Period, 1500–500 B.C.....	14
Tchula Period, 500 B.C.–A.D. 1	15
Marksville Period, A.D. 1–400	16
Baytown Period, A.D. 400–800.....	17
Coles Creek Period, A.D. 800–1200.....	18
Mississippi Period, A.D. 1200–1700	19
Historic Cultural Setting	21
European Exploration, 1543	22
French Colonial Period, 1682–1763	22
Spanish Colonial Period, 1763–1803.....	46
American Period, 1803–DATE.....	52
The Antebellum Years, 1803–1861	52
Civil War, 1861–1865.....	63
Reconstruction and the Late Nineteenth Century, 1865–1900.....	66
Twentieth Century and Beyond, 1900–DATE.....	68

CHAPTER 4: PREVIOUS RESEARCH.....	74
CHAPTER 5: ANALYTICAL TECHNIQUES	80
Historic Ceramic Analysis.....	80
Coarse Earthenwares.....	81
Semi-Refined Earthenwares.....	81
Refined Earthenwares	81
Creamware	82
Pearlware.....	82
Early Whiteware	83
Whiteware, Ironstone, and Ivory-Tinted Whiteware	84
Stoneware.....	85
Porcelain	86
Glass Analysis.....	87
Metal Analysis	90
Curation Statement.....	91
CHAPTER 6: FIELD SURVEY RESULTS	93
Methodology	93
Archaeology.....	94
Standing Structures	95
Archaeology	95
The 258.4-ac Survey Area	95
Moseley North 1 (16PC123).....	96
The 90-ac Survey Area	103
Spot Find 1	105
Standing Structure Survey	105
CHAPTER 7: CONCLUSIONS AND RECOMMENDATIONS.....	106
REFERENCES	108

LIST OF FIGURES

Figure 1-1. The Moseley North Project Area	2
Figure 2-1. Geomorphology of the Moseley North Project Area.....	5
Figure 2-2. Soil types in the Moseley North Project Area	8
Figure 2-3. Mississippi River bankline movement in the vicinity of the Moseley North Project Area from 1851 to present.....	10
Figure 3-1. Aboriginal culture sequence for south Louisiana	13
Figure 3-2. Detail of Nicolas de Fer’s (2010) 1701 <i>Les Costes aux Environs de la Riviere de Misisipi</i> depicting the locations of the “Bujougoula” (Bayagoula), “Majoutacha” (Mugulasha) and “Auma” (Houma) villages at the turn of the eighteenth century.....	24
Figure 3-3. Detail of Guillaume de L’Isle’s (2010) 1702 <i>Carte de la Rivière de Mississipi</i> depicting the locations of the “Village des Ouma” and “Village des Bayogoula”	25
Figure 3-4. Detail of Bernard Diron Dartaguiette’s (2009) 1732 manuscript map entitled <i>Fleuve St Louis cy devant Mississipy relevé à la boussole</i>	29
Figure 3-5. Detail of the anonymously drawn circa 1743 <i>Carte du Cours Fleuve St. Louis depuis les Natchez jusqu’a son Embouchure</i>	33
Figure 3-6. Detail of Ignace François Broutin’s (2007) 1731 manuscript map entitled <i>Carte Particuliere du Cours du Fleuve Missisipy ou St. Louis</i>	37

Figure 3-7. Location of the circa 1730 redoubt relative to the present project area	40
Figure 3-8. Location of the circa 1730 redoubt relative to the present project area	41
Figure 3-9. The Pointe Coupée area in 1765 as depicted by Lieutenant John Ross' (1772) <i>Course of the River Mississippi River, from the Balise to Fort Chartres</i>	44
Figure 3-10. Detail of Philip Pittman's (2010) 1770 <i>A Draught of the Mississippi [sic] River</i> , which was based upon his 1764–1767 observations	45
Figure 3-11. Detail of George Gauld's (2012) 1778 <i>A Plan of the Coast of Part of West Florida & Louisiana</i> , which was based upon his 1774 observations	49
Figure 3-12. Detail of Barthélémy Lafon's (2010) 1806 <i>Carte Générale du Territoire d'Orléans Comprenant aussi la Floride Occidentale et une Portion du Territoire du Mississippi</i> depicting the project area environs	50
Figure 3-13. Property owners in the Moseley North project area in circa 1803.....	54
Figure 3-14. Corrected plat map of the Moseley North project area and vicinity.....	56
Figure 3-15. Detail of Humphreys and Abbot's (1858) 1851 <i>Mississippi River from Red River Landing to Carrollton</i> depicting the project area vicinity.....	59
Figure 3-16. Detail of Andrew Powell's 1859 <i>Map of the Parishes of Pointe Coupée, West Baton Rouge and Iberville Including Parts of the Parishes of St. Martins and Ascension, Louisiana</i> depicting the project area vicinity	61
Figure 3-17. Detail of the Mississippi River Commission's (1883) 1883 <i>Survey of the Mississippi River</i> depicting the project area, most of which then formed part of Bertrand Plantation	62
Figure 3-18. Detail of Henry L. Abbot's (2010) 1863 map entitled <i>Atchafalaya Basin</i> . Civil War engagements were	

fought at nearby Bayou Sara, Port Hudson and St. Francisville.....	65
Figure 3-19. Detail of the Mississippi River Commission’s (1921) 1921 <i>Survey of the Mississippi River</i> depicting the project area.....	69
Figure 3-20. The Moseley North project area and vicinity in 1931	70
Figure 3-21. The Moseley North project area and vicinity in 1934	71
Figure 3-22. The Moseley North project area and vicinity in 1953–1954.....	72
Figure 4-1. Previously recorded archaeological sites within a one-mile radius of the Moseley North Project Area	76
Figure 6-1. The location of the Moseley North 1 site (16PC123) and Spot Find 1 within the Moseley North Project Area.....	97
Figure 6-2. The Moseley North 1 site (16PC123)	98
Figure 6-3. Sketch map of the Moseley North 1 site (16PC123)	99
Figure 6-4. Typical shovel test profile from the Moseley North 1 site (16PC123) and from Spot Find 1	100
Figure 6-5. Artifacts recovered from 16PC123	101
Figure 6-6. The batture portion of the Moseley North project area.....	104
Figure 6-7. The batture portion of the Moseley North project area.....	104

LIST OF TABLES

Table 4-1.	Previously Recorded Archaeological Sites Within a One-mile Radius of the Moseley North Project Area	77
Table 6-1.	Artifacts recovered from 16PC123	102

ACKNOWLEDGEMENTS

CEI would like to thank the people who assisted us in our research and fieldwork, particularly the landowners who provided access to their properties. The Phase I archaeological fieldwork was conducted by Michael Carpenter, Phillip Jungeblut, and Euan Wallace from the 23 to 25 of February 2015. Dr. David Kelley served as Principle Investigator for this project. Donald Hunter wrote Chapters 2 and 4, Douglas Wells and Thurston Hahn Chapter 3, and Thurston Hahn Chapter 5. Michael Carpenter wrote the remainder of the report text and conducted the artifact analysis. The artifacts were washed, numbered, and catalogued by Philip Jungeblut and Euan Wallace. Carpenter, Hahn and Wells drafted all the maps presented in this report, while Carpenter created the artifact illustrations. Donald Hunter laid out the final report.

CHAPTER 1

INTRODUCTION

In February and April 2015, Coastal Environments, Inc. (CEI) was contracted by the Baton Rouge Area Chamber (BRAC) to conduct cultural resources investigations of the Moseley North project area in Pointe Coupée Parish, Louisiana. The survey was conducted as part of the Louisiana Economic Development Site Certification process. The irregularly shaped project area is located in Sections 6 and 8 of Township 4 South, Range 11 East in the Southeastern District (west bank of the Mississippi River), Louisiana (Figure 1-1). The BRAC project area consists of approximately 348.3 ac (141 ha). Of that area, 65 ac (26.3 ha) was previously surveyed by the National Park Service (NPS) in 1982 (Stuart and Greene 1983), while 25 ac (10.3 ha) was previously surveyed by CEI (Hahn et al. 2003) in 1994 and 2002 (see hashed areas in Figure 1-1). The unsurveyed portion of the project area, constituting 258.4 ac (104.6 ha), was the initial focus of the present investigations (see Figure 1-1). After submittal of a draft report on this initial survey, the Division of Archaeology (DOA), Louisiana Department of Culture, Recreation and Tourism, requested that the previously surveyed portions of the BRAC study area, constituting 90 ac (36.6 ha), be resurveyed.

The project area is located off of LA 981 and belongs to Moseley Properties, LLC, and the Trustees of George P. and Brenda B. Roberts. It is located within the historic boundaries of the Woodburn and Betrands plantations. Background research for this project began in February 2015 and continued throughout the course of the project. The archaeological fieldwork for the 258.4-ac portion of the project area was carried out by a three-member crew, including Michael P. Carpenter, Euan Wallace, and Philip Jungeblut, from the 23 to 25 of February 2015. The archaeological fieldwork for the 90-ac portion of

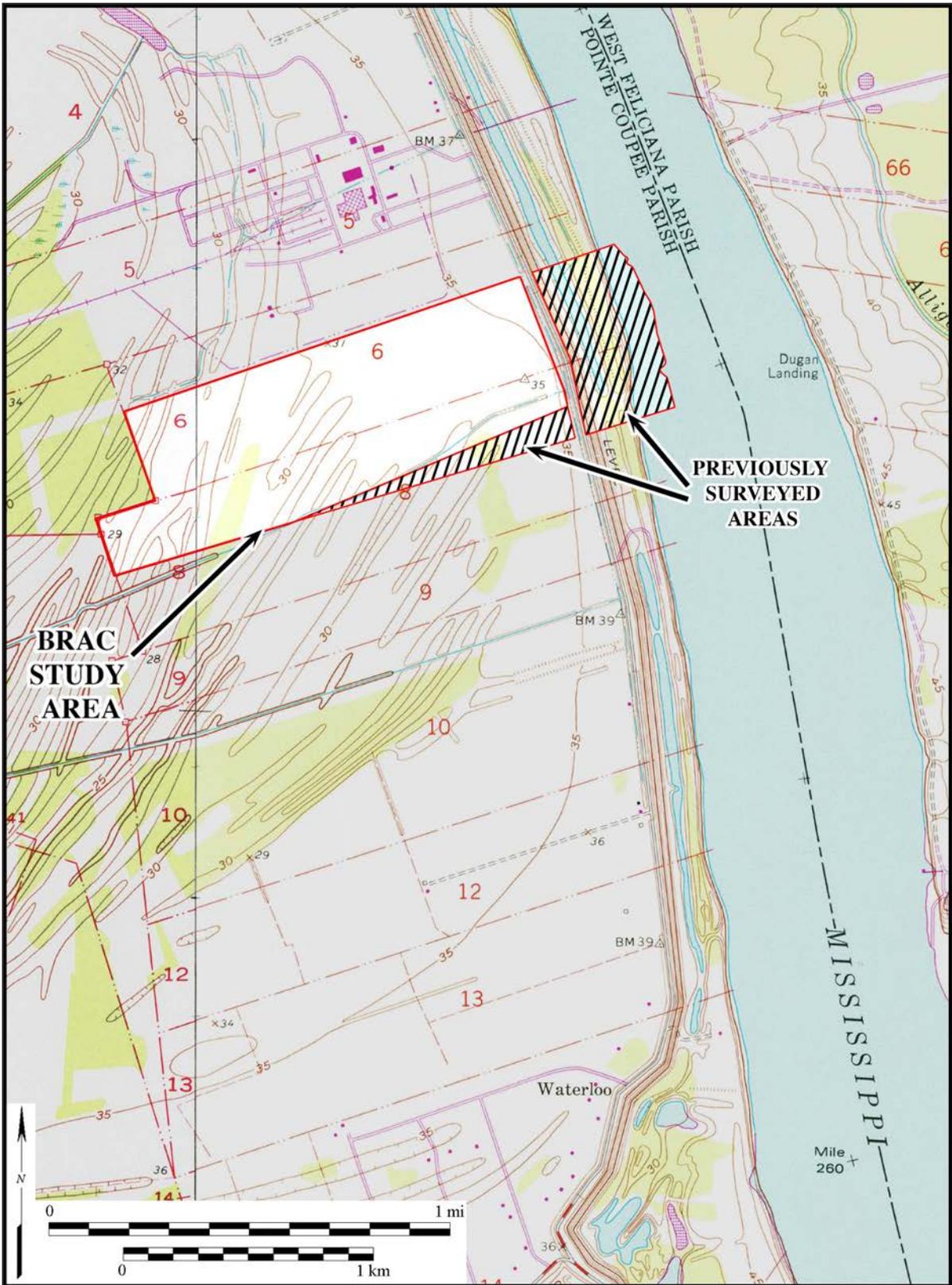


Figure 1-1. The Moseley North Project Area (USGS 1980a, 1980b). Note that portions of the BRAC study area were surveyed by the National Park Service in 1982 and CEI in 1994 and 2002 (hashed).

the project area was carried out by the same three-member crew on the 15 of April 2015. The goals of these cultural resources investigations were to locate all cultural resources within the project area and to assess their significance in terms of National Register eligibility through guidelines established by the National Park Service (1991).

The following chapters detail the results of the cultural resources investigations required for the Moseley North project. Chapter 2 provides a synopsis of the geological and environmental setting of the project area. Chapter 3 discusses the region's cultural history in relation to the investigation's findings, while Chapter 4 summarizes the previous research conducted in the area. Chapter 5 details the analytical techniques employed. Chapter 6 presents the cultural resources investigations, and Chapter 7 the conclusions and recommendations resulting from these investigations.

ENVIRONMENTAL SETTING

Geology and Geomorphology

The present study area is located in the alluvial valley of the Mississippi River near its boundary with the deltaic plain (Saucier 1974:12). The Quaternary geology of the Lower Mississippi River Valley has been the subject of considerable research over the past 60 years. Fisk (1944), Saucier (1974), and Autin et al (1991) have synthesized the results of the research both in terms of the nature of the deposits present and their age. Much of Fisk's work has withstood the test of time, but his chronology, developed prior to the advent of radiocarbon dating, has been revised substantially. Saucier's (1974) summary, updated by Autin et al. (1991), and more recently by Saucier (1994) himself, provides the basis of the present chronology.

The alluvial valley of the Mississippi River consists of the Holocene floodplain and a series of Pleistocene terraces that represent earlier floodplains, deltaic plains, or nearshore marine deposits. The present project area lies entirely within the Holocene floodplain of the Mississippi River, which is composed of its current meander belt, portions of relict meander belts, and backswamp areas (Figure 2-1). Each meander belt consists of the landforms created by the river while it occupied a single course. Saucier (1974) identified a sequence of five major meander belts of the Mississippi River extending over the past 9000 years. Autin et al. (1991) have recently renumbered these meander belts (used in this discussion) and refined their ages. Only the two most recent of these (Nos. 4 and 5 of Saucier [1974], No. 1 and 2 of Autin et al. [1991]) are present in the vicinity of the present project area. Meander belt No. 2 began forming approximately 4800 years ago as a result of two major channel diversions from meander belt No. 3 in the area of Memphis, Tennessee (Autin et al. 1991; Saucier 1974:21). These diversions produced two partial-flow courses, one that followed the eastern valley wall and a second that followed the present course of the river to

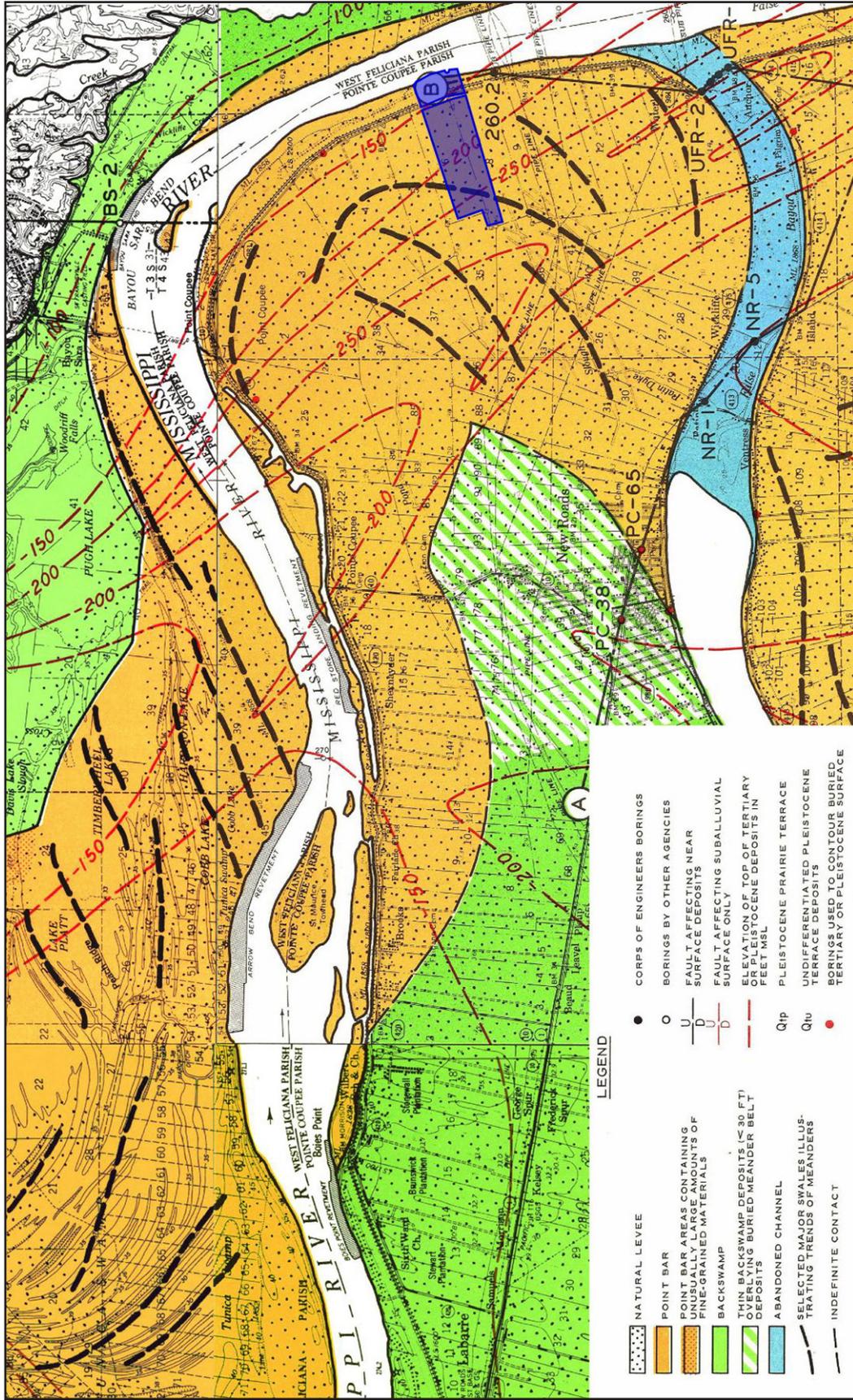


Figure 2-1. Geomorphology of the Moseley North Project Area (after Saucier 1969).

about the latitude of Vicksburg and then flowed west of the modern river. The two courses apparently rejoined just below the mouth of the Red River and then followed the modern course south of Baton Rouge. The modern Mississippi River course has formed the St. Bernard and later deltaic complexes in what previously had been estuarine and nearshore Gulf environments (Autin et al. 1991).

At present, remnants of meander belt No. 2 are exposed at the surface along the eastern side of the alluvial valley from Clarksdale, Mississippi, to Vicksburg, and west of the modern river from Vicksburg to the mouth of the Red River (Saucier 1974:Figure 1). Downstream from there, in the vicinity of the present project area, they have been mostly buried by deposits of the current meander belt, No. 1, which began forming approximately 2800 years ago (Saucier 1974:22, Autin et al. 1991). Saucier (1969), however, has identified what may be portions of meander belt No. 2 in the project vicinity. Along margins of the current meander belt they occur within 3 m (9.84 ft) of the surface, but near the present channel of the river, they are buried from 10 to 20 m (32.81 to 65.62 ft) beneath the surface. Therefore, the near-surface deposits in the present project area should be associated with the current meander belt and less than 2800 years old.

Each meander belt contains a variety of depositional environments, including natural levees, point bars, and abandoned channels. Natural levees are low ridges formed by overbank deposits made along an active channel. In the vicinity of the project area, they are composed predominantly of oxidized silts, silty clays, and clays, and may rise 5 to 6 m (16.41 to 19.69 ft) above the adjacent backswamps (see Figure 2-1). They provided, and continue to provide, the highest and best-drained land within the floodplain. The upper 5 to 6 m (16.41 to 19.69 ft) of deposits in the project area consist of natural levee deposits associated with the present channel of the river (Saucier 1969).

Point bars are arcuate deposits that form on the convex side of meanders and as a result of lateral migration of the channel. They consist of alternating sandy ridges and clay-lined swales deposited during high and low stages, respectively. Along much of the Lower Mississippi River Valley, point-bar deposits are extensive, comprising a large portion of the floodplain. Most of the current project area consists of ridge-and-swale topography that marks these point bar deposits (see Figure 2-1) (Saucier 1969).

Abandoned channels are meanders that have been cut off from the river by lateral migration. Initially, they may contain oxbow lakes, but gradually they fill with fine-grained

sediments until they are at or near the surrounding floodplain level. False River (see Figure 2-1) is an example of an abandoned channel that was cut off in the early eighteenth century. False River was formed by the Pointe Coupée cutoff, which, according to Le Page de Pratz, occurred in 1715 (see Chapter 3).

Outside of the meander belts are low-lying backswamp areas that slowly fill with fine-grained sediments deposited after flood events. In much of the Lower Mississippi Valley they are relatively limited in area because of the number of relict meander belts present; however, in the present region they are much more extensive (see Figure 2-1) (Saucier 1969).

Since the construction of artificial levees along the active channel of the Mississippi River, another type of deposit has begun to form on the batterside or river side of these features. These are overbank deposits that are typically composed of silts, sandy silts, or silty clays and may reach thicknesses of several meters.

The natural levees of the project area consist of Commerce silt loams and silty clay loams (Figure 2-2). These Commerce soils, which comprise the highest elevations, are somewhat poorly drained, with low permeability. These soils occupy the eastern approximate half of the project area and are associated with the modern Mississippi River natural levee. In the western approximate half of the project area, away from the natural levee, poorly-drained Sharkey-Tunica association soils predominate (see Figure 2-2) (Powell et al. 1982). The soils of this association are well-suited for agriculture, and much of the land has been cleared. However, frequent flooding around the turn of the twentieth century made the area more suitable for pasturage, and about half of the land in the project area is currently given over to raising cattle.

Lateral bankline movement of the meandering Mississippi River channel has resulted in dramatic land loss in some areas. Upstream from the current project area, an average rate of 3.68 m (12.07 ft) of land per year was lost to erosion over a 150-year period prior to 1980 (Hahn et al. 2003:8-9). The St. Francis of Assisi Church was founded just north of the current project area, along the west bank of the Mississippi River in the mid-eighteenth century. However, the church and the community surrounding it were destroyed by the movement of the river, and their original location is now 350 m (1,148.35 ft) to the north of the current bankline, placing it in the middle of the present Mississippi river course (Costello

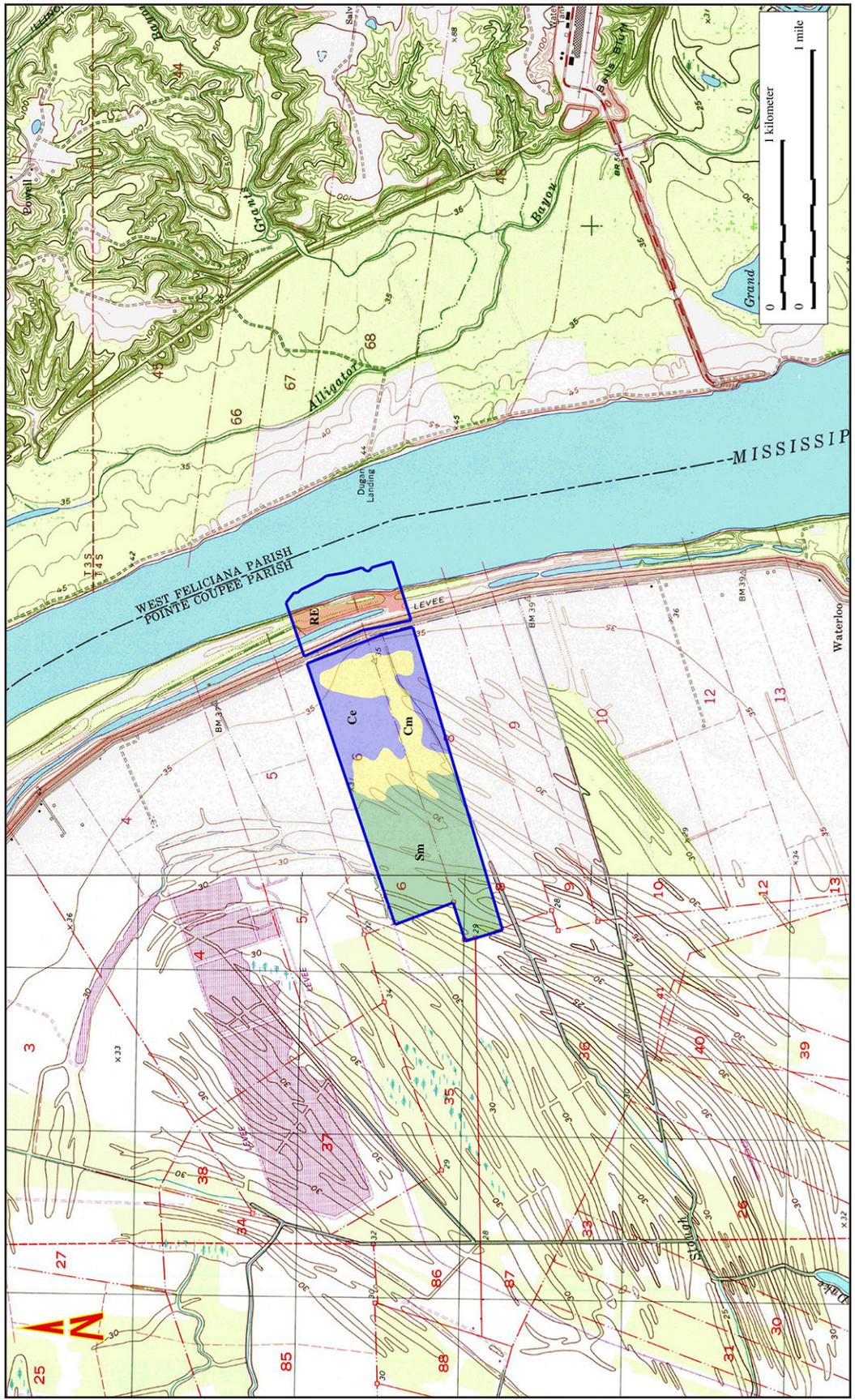


Figure 2-2. Soil types in the Moseley North Project Area (adapted from Powell et al. 1982). Soil Types include: Cm, Commerce silty clay loam; Ce, Commerce silty loam; Sm, Sharkey silty clay loam; and RE, Robinsonville and Commerce soils frequently flooded.

2007). However, bank line reconstructions from historic maps dating from 1851 indicate that there has been little land loss in the current project area over the past 164 years (Figure 2-3).

Vegetation

Prior to extensive agricultural clearing during the eighteenth and nineteenth centuries, the Mississippi River floodplain supported a vast bottomland hardwood forest. The forest was characterized by a relatively low species diversity, but it exhibited a complex mosaic of plant communities whose distribution was controlled by slight changes in frequency of inundation and sediment type (Putnam and Bull 1932). Riverbank communities were dominated by willow (*Salix* spp.) and cottonwood (*Populus deltoides*), while the lower slopes of natural levees and the better-drained portions of backswamps included stands of sweetgum (*Liquidambar styraciflua*) and water-tolerant species of oaks (*Quercus pagota*, *Quercus prinus*, and *Quercus nigra*). The higher and better-drained areas supported communities of less water-tolerant oaks (*Quercus alba*, *Quercus stellata*) and hickories (*Carya* spp.). Permanently flooded portions of the backswamp and the margins of oxbow lakes included communities of bald cypress (*Taxodium distichum*) and water tupelo (*Nyssa aquatica*).

Fauna

A variety of faunal species are found throughout the region. The mammalian population includes white-tailed deer (*Odocoileus virginianus*), squirrel (*Sciurus carolinensis*), raccoon (*Procyon lotor*), rabbit (*Sylvilagus floridanus*), fox (*Urocyon* spp.), opossum (*Didelphis virginiana*), and skunk (*Mephitis mephitis*). Originally, wolf (*Canis rufus*) and black bear (*Euractos americanus*) were probably also present, though they are no longer found in the area. In recent years armadillos (*Dasybus novemcinctus*) have intruded into the region from neighboring western states.

Numerous species of birds occur in the area, both resident and migratory. Some, such as crows (*Corvus brachyrhynchos*), owls (Strigidae), hawks (*Buteo* spp.), and vultures (*Cathartes aura*), are common throughout the area. Others are confined to a particular environmental situation. The upland and marginal grounds feature populations of turkey (*Meleagris gallopavo*) and quail (*Cilinus virginianus*). The backswamp lakes, tributary streams, and relict and active river channels host an abundance of species, including egrets (*Casmerodius albus*) and water turkeys (*Anhinga anhinga*). Migratory ducks (*Anas* spp.) and geese (*Branta* spp.) can be observed in the area from October to March.

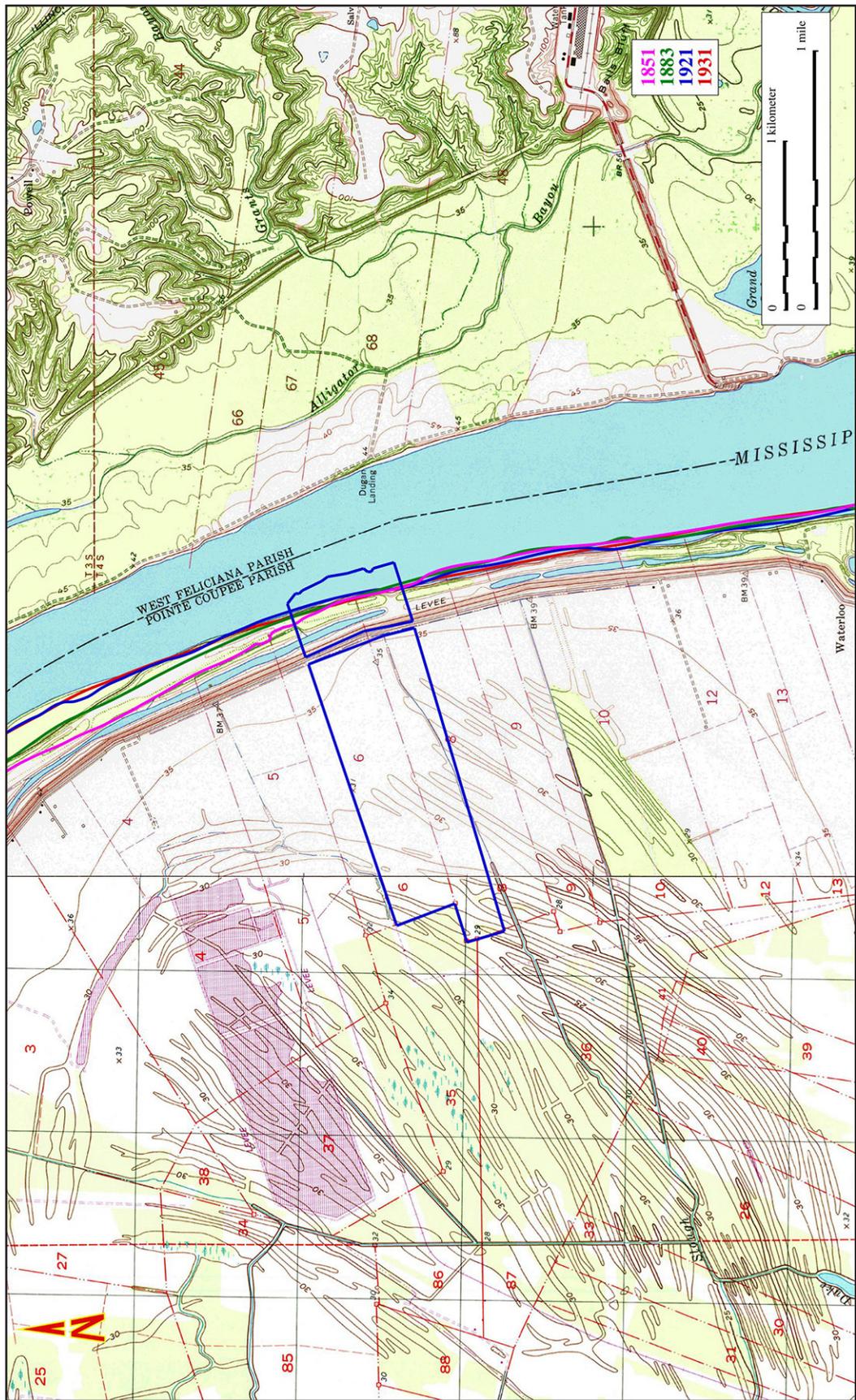


Figure 2-3. Mississippi River bankline movement in the vicinity of the Moseley North Project Area from 1851 to present.

The river, lakes, and tributary streams sustain numerous types of aquatic life. Types of fish include gar (*Lepisosteus* spp.), catfish (*Ictalurus* spp.), drum (*Aplodinotus grunniens*), and perches (Percidae). Amphibians are represented by salamanders (*Ambystone texanum*), newts (*Notophthalmus videscens louisianensis*), toads (*Bufo* spp.), tree frogs (*Hyla* spp.), and true frogs (*Rana* spp.). A number of reptilian species are present in the study area, including alligators (*Alligator mississippiensis*), snapping turtles (*Chelydra serpentina*), box turtles (*Terrapene carolina triunguis*), coral snakes (*Micrurus fulvius*), rattlesnakes (*Crotalus* spp.), and various lizards (Lacertilia).

CULTURAL SETTING

Aboriginal Cultural Setting

This section will provide information on our current understanding of the cultural chronology of southeast Louisiana in the prehistoric and contact periods (Figure 3-1). This cultural sequence illustrates developmental cultural growth from early small bands of migratory hunters to agriculturally-based societies that inhabited villages and built temples. Fairly detailed discussions of the southern Louisiana phases can be found in McIntire (1958), Gagliano et al. (1975), Neuman (1984), Davis (1984), and Weinstein and Gagliano (1985). As the earliest surficial landforms within the study area are related to Saucier's (1994) Meander Belt Stage 1 (3000 B.P. to present), the following discussion will begin with the earliest culture period in existence during that time: the Late Archaic.

Late Archaic Period, 3000–1500 B.C.

Research elsewhere in eastern North America suggests that the Late Archaic period was a time of marked population increases and the beginning of extensive trade networks. The evidence for the former is seen in the appearance of large habitation sites such as Indian Knoll, Kentucky (Webb 1946), while the latter is reflected in the exotic raw materials that occur at some sites. Plant cultivation involving a tropical domesticate, squash, and possibly native North American species also began during this period (Chomko and Crawford 1978).

STAGE	PERIOD	CULTURE	TIME INTERVAL	PHASES			
				EASTERN AREA	CENTRAL AREA	WESTERN AREA	
FORMATIVE	HISTORIC	VARIOUS CULTURES	A.D. 1800	← VARIOUS TRIBES →			
	MISSISSIPPI	↑↑ MISSISSIPPIAN PLAQUEMINE	A.D. 1700	LITTLE PECAN			
			A.D. 1600	DELTA NATCHEZAN	PETITE ANSE	BAYOU CHENE	
			A.D. 1500	MEDORA	BURK HILL		
			A.D. 1200	BARATARIA	ST. GABRIEL		THREE BAYOU
	A.D. 1000	COLES CREEK	BAYOU RAMOS	MORGAN	JEFF DAVIS		
	COLES CREEK	COLES CREEK	A.D. 900	BAYOU CUTLER	WHITE LAKE	WELSH	
			A.D. 850		WHITE LAKE		
	BAYTOWN	TROYVILLE-LIKE	A.D. 700	WHITEHALL	DES ALLEMANDS	?	ROANOKE
			A.D. 400	GUNBOAT LANDING	GRAND BAYOU	VEAZEY	LAKE ARTHUR
	MARKSVILLE	MARKSVILLE	A.D. 200	MAGNOLIA & MANDALAY	SMITHFIELD	JEFFERSON ISLAND	LACASSINE
			A.D. 1	LABRANCHE	BEAU MIRE	LAFAYETTE	GRAND LAKE
	TCHULA	TCHEFUNCTE	250 B.C.	PONTCHARTRAIN	BEAU RIVAGE	?	
	ARCHAIC	POVERTY POINT	POVERTY POINT	500 B.C.	GARCIA	BEAU RIVAGE	?
1000 B.C.				BAYOU JASMINE	RABBIT ISLAND		
1500		PEARL	COPELL	BAYOU BLUE			
MIDDLE ARCHAIC		ARCHAIC	3000 B.C.	MONTE SANO	BANANA BAYOU	?	
			5000 B.C.	AMITE RIVER	ST. HELENA	?	?
EARLY ARCHAIC	PALEO-INDIAN	6000 B.C.	JONES CREEK	VATICAN	STROHE		
LATE PALEO		8000 B.C.	?	AVERY ISLAND	?		
PRE-PROJECTILE POINT		10,000 B.C.	?	?	?		
LITHIC							

Figure 3-1. Aboriginal culture sequence for south Louisiana (after Weinstein and Kelley 1992).

The only Late Archaic phase identified for southeast Louisiana thus far is Gagliano's (1963:116) Pearl River phase, which is based on a series of oyster shell middens associated with early coastal features. Diagnostic artifacts include Kent, Pontchartrain, Macon, Hale, and Palmillas projectile points and various types of atlatl weights.

Poverty Point Period, 1500–500 B.C.

In much of eastern North America this time interval witnessed a transition from Archaic hunting and gathering cultures to Woodland cultures characterized by food production, pottery manufacture, and mound building (Stoltman 1978:715-717). Current interpretations suggest that these three features have different and possibly unrelated origins. As noted above, tropical domesticates had reached the East prior to 2000 B.C., and there is evidence of native seed-plant cultivation in Kentucky and Ohio by 1000 B.C. (Struever and Vickery 1973). Ceramics probably appeared somewhat earlier than this in the third millennium B.C. along the Atlantic Coast (Stoltman 1978:715), and mound building may have developed independently in several areas by 1000 B.C.

In the Lower Mississippi Valley this transition is marked by the development of the distinctive Poverty Point culture. Among the material characteristics of this culture are baked clay balls or Poverty Point objects, microlith and lapidary industries, and earthworks (Webb 1977). Pottery is not abundant, but fiber-tempered and sand-tempered wares have been found at several sites. Subsistence data are, in general, few, but they suggest a continuation of an Archaic pattern of intensive collecting of wild plants and animals. However, there is some evidence for the cultivation of squash at Poverty Point sites (Ford 1974; Jackson 1986; Shea 1978).

Two temporally distinct Poverty Point phases have been identified in southeast Louisiana. The earlier Bayou Jasmine phase is based largely on data from the Bayou Jasmine site (16SJB2) in St. John the Baptist Parish and the Linsley (16OR40) site in Orleans

Parish (Gagliano 1963:116). The succeeding Garcia phase was defined on the basis of collections from the Garcia site (16OR34), also in Orleans Parish.

Tchula Period, 500 B.C.–A.D. 1

This period in the Lower Mississippi Valley is characterized by the integration of food production, pottery manufacture, and mound building into a single cultural system. In the southern portion of the valley these developments are thought to have taken place in an archaeological culture called Tchefuncte. Originally defined in southern Louisiana (Ford and Quimby 1945), Tchefuncte culture is now recognized to extend as far north as the vicinity of Clarksdale, Mississippi, and as far west as northeast Texas. The diagnostic artifacts of this, and most of the succeeding prehistoric cultures of the Lower Mississippi Valley, are the distinctive ceramics. Tchefuncte pottery is characterized by a laminated paste that appears to lack tempering. Replication studies suggest that the laminated texture is simply the result of minimal preparation of the raw material (Gertjejansen 1982), an expected feature of an incipient ceramic technology. Other diagnostic attributes of Tchefuncte ceramics include the use of podal supports and decorative techniques such as jab-and-drag incising.

The evidence for food production in Tchefuncte culture presently comes from one site, Morton Shell Mound (16IB3)—where remains of two tropical cultigens, squash and bottle gourd, and one possible native cultigen, knotweed, were recovered (Byrd and Neuman 1978:11-13). However, Fritz and Kidder (1993:6-7) have reviewed the data from this site and suggested that none of these remains can be accepted as definite evidence of cultivation. Surprisingly, mound construction, well documented for preceding periods, has not been clearly associated with Tchefuncte culture until recently (Kidder 2007; Kidder et al. 2008). Alan Toth (1988:27) has reviewed the evidence for Tchefuncte burial mounds and suggested that they are the result of diffusion of certain aspects of Marksville burial practices among a few late Tchefuncte groups. Further research is required to verify this hypothesis.

Two Tchula period phases have been identified in southeast Louisiana. One, the Pontchartrain phase, is based on Ford and Quimby's (1945) early work at sites around Lake

Pontchartrain. It includes occupations that probably span the entire period and eventually should be subdivided. Most of the known components are located southeast of the present region in the Pontchartrain Basin. The other Tchula period phase, Beau Mire, is believed to date to the latter portion of the period. Components of this phase have been reported at the Kleinpeter (16EBR5), Kuttruff (16AN9), and Beau Mire (16AN17) sites in southeast Louisiana (Weinstein and Rivet 1978).

Marksville Period, A.D. 1–400

In many parts of eastern North America, this period is marked by evidence of extensive interregional contact through a phenomenon labeled the Hopewell Interaction Sphere (Caldwell and Hall 1964). The focal points of this interaction sphere were the Middle Woodland societies of the Ohio and Illinois River valleys that acquired large quantities of exotic raw materials, including obsidian, copper, mica, shark's teeth, and marine shells, in exchange for specialized finished goods such as copper panpipes and ear spools (Stoltman 1978:721). Various theories have been offered to explain the nature of this interaction, some emphasizing socioreligious systems and others pointing to economic networks, but the problem remains unresolved. Within the Lower Mississippi Valley, the culture that participated in this interaction sphere is termed Marksville. Toth (1988:211-213) has argued that Marksville culture developed out of Tchefuncte as a result of intermittent contacts with cultures in the Illinois River Valley area, but he only speculates on the nature of these contacts. He emphasizes that the evidence for Hopewellian interaction is largely limited to the Marksville mortuary system and aspects of ceramic decoration. Other cultural subsystems, such as subsistence and settlement pattern, may have changed very little. Economic data from Marksville sites are extremely limited, but information from contemporary occupations in the Midwest suggests a pattern of intensive collecting of wild plant foods and high density faunal resources, such as fish, supplemented by cultivation of native North American seed plants and a few tropical cultigens (Asch et al. 1979). Present evidence indicates that maize was either not present at this time or of only minor importance.

Most recently, McGimsey (2010) has questioned the chronology traditionally assigned to Marksville phases, based on dates from recent excavations at the type site (16AV1) and the Gold Mine site (16RI13). Pottery from these sites, as well as the Troyville site (16CT7), suggests that the motifs and varieties traditionally associated with early Marksville components may, in fact, have a much greater lifespan, perhaps extending into chronological territory traditionally reserved for Coles Creek culture at around A.D. 700 or 800 (Lee 2010; McGimsey 2010). It is important to note, however, that the presence of these designs and motifs does not necessarily signal the presence of Marksville culture, at least as it was known during the first four centuries A.D. These traits appear to be holdovers passed down to later societies, and it is worth questioning how much kinship the makers of Marksville period pottery would have seen in Coles Creek or even Baytown period potters.

Two Marksville period phases have been identified in the vicinity, Smithfield and Gunboat Landing. Smithfield is an early Marksville phase established by Toth (1988) on the basis of excavations at the site of that name (16WBR3) in West Baton Rouge Parish. The Gunboat Landing phase is a late Marksville phase proposed by Weinstein et al. (1977) on the basis of Weinstein's (1974) excavations at several sites on the lower Amite River. In the vicinity of the present project area, a component of this phase may be present at 16WF41, one of the sites tested by New World Research (Phillips et al. 1984:30).

Baytown Period, A.D. 400–800

The period following the Hopewellian florescence has been characterized as a time of cultural decline throughout much of eastern North America (Griffin 1967:187). This is certainly implied in Phillips' (1970:901) statement that ceramic decoration was "at a remarkably low ebb" during this period in the Lower Mississippi Valley. Recently, however, a number of researchers have suggested that the apparent decline may not have been as pervasive as previously believed. In the Midwest, Braun (1977) and Styles (1981) have argued that this period, in contrast to earlier interpretations, was a time of population growth and increased regional social integration. Along the Florida Gulf Coast an elaborate culture called Weeden Island developed during this time (Milanich 1994:205-242). Even in the

Lower Mississippi Valley, new data indicate that the Baytown period was marked by the appearance of two painted pottery complexes (Belmont and Williams 1981). The earlier complex, termed the Quafalorma horizon, developed during the Troyville subperiod and exhibited striking similarities to early Weeden Island ceramics. The later complex, called the Woodville horizon, characterized the Deasonville subperiod and was less elaborate. The remainder of the ceramic assemblage of Baytown culture consisted of a large quantity of Baytown Plain and smaller amounts of decorated types such as Mulberry Creek Cord Marked, Salomon Brushed, and Alligator Incised.

Changes were also occurring in the stone tool tradition during this period. Small arrow points began to replace dart points, reflecting a transition from the atlatl to the bow and arrow. Subsistence data from the Lower Mississippi Valley are limited for this period, but in the Midwest, Styles (1981) has identified a pattern of intensive, localized collecting of wild plant and animal resources supplemented by increased cultivation of both North American and tropical cultigens. Mound building continued in the Baytown period, and there are indications that a shift from a mortuary function to a building substructure began toward the end of this time (Rolingson 1982).

A single Baytown period phase, Whitehall, has been identified in southeast Louisiana (Phillips 1970:911-912). Components are present at the Smithfield (16WBR3) and Kleinpeter (16EBR5) sites near the present area.

Coles Creek Period, A.D. 800–1200

Elsewhere in eastern North America, this interval corresponds to the latter portion of the Late Woodland period and the beginning of the Mississippi period. Within the Lower Mississippi Valley, a cultural florescence that shows a marked resemblance to Weeden Island culture of northwest Florida occurs during this period. The precise nature of the relationship of Coles Creek culture to Weeden Island is uncertain, but the similarities in ceramic decoration and community pattern are unmistakable. Both were characterized by the use of incised, stamped, and punctated pottery types in which the decorative zone is largely

restricted to a band around the rim of the vessel, and by the construction of small platform mounds around plazas. The latter are generally interpreted as an indication of the development of stratified or ranked social systems during this period, often associated with economies that included the cultivation of maize. However, direct evidence for this is lacking from sites in the Lower Mississippi Valley, and the consensus has developed that maize did not play a prominent role in Coles Creek economies until after A.D. 1000 (Fritz and Kidder 1993; Kidder and Fritz 1993; Roberts 2006; Roe and Schilling 2010:169; Ryan 2004; Wells 1997, 1998). However, the remains of corn have been recovered from late Weeden Island sites (A.D. 750 to 950) on the Florida Panhandle (Milanich 1994:194) and from contemporary Late Woodland sites in the Midwest (Styles 1981).

Three Coles Creek period phases are presently recognized within southeast Louisiana. The earliest of these is the Bayou Cutler phase (Kniffen 1936; Phillips 1970:920-923). The majority of the identified Bayou Cutler components are located in the Mississippi River deltaic plain and the Pontchartrain Basin. A late Coles Creek Bayou Ramos phase has been established by Weinstein et al. (1978:22-23) on the basis of test excavations at the Bayou Ramos I site (16SMY133) in St. Mary Parish. The majority of the known components are located in that area. The third Coles Creek period phase, St. Gabriel, dates to the very end of the period and is based on Woodiel's (1980) excavations at the site of that name in Iberville Parish. Weinstein (1987:90) has identified additional St. Gabriel phase components in the pre-mound levels at Medora (16WBR1) and at the Bayou Goula site (16IV11) in Iberville Parish.

Mississippi Period, A.D. 1200–1700

The last prehistoric period in eastern North America witnessed the development of chiefdom-level societies based on intensive cultivation of maize, beans, and squash. Perhaps the most dynamic of these societies appeared in the Middle Mississippi Valley between A.D. 900 and A.D. 1050. Referred to as the Mississippian culture, it was characterized by a shell-tempered ceramic industry and a settlement pattern including large mound centers and nucleated habitation sites that were often fortified (Stoltman 1978:725). During the first

centuries of the second millennium A.D., this culture spread rapidly along the major river valleys of this portion of the continent. The nature of this expansion, either by movement of people or diffusion of ideas, is still debated. However, by A.D. 1200 Mississippian culture was found as far south as northern Mississippi and as far east as Georgia.

In the Lower Mississippi Valley, Mississippian culture encountered an indigenous non-Mississippian culture, and a hybridization of the two occurred. Phillips (1970) considered the resident culture to have been Plaquemine, an outgrowth of Coles Creek culture that began about A.D. 1000. He viewed the interaction between Mississippian and Plaquemine culture as resulting in gradual changes in the Plaquemine ceramic tradition and settlement pattern. Later in the period, after A.D. 1400, an actual intrusion of Mississippian groups displaced the resident Plaquemine groups. Brain (1978) offered a somewhat different interpretation of this sequence of events. He argued that the Lower Mississippi Valley culture that experienced the initial Mississippian contact about A.D. 1200 was Coles Creek, and that the resulting hybridization produced Plaquemine culture. The remainder of the period saw a gradual increase in Mississippian influence, at least in the Yazoo Basin, until about A.D. 1400, when a full Mississippian cultural pattern was achieved in the Lake George phase (Brain 1978:362). Brain's reinterpretation of the cultural sequence has resulted in a shift in the established chronologies. Phases such as Crippen Point, Gordon, and Preston, which were formerly considered Plaquemine culture manifestations of the early Mississippi period, are now placed late in the Coles Creek culture. The latter now persists until A.D. 1200 and includes a number of changes in ceramic technology that had previously been considered indicators of Plaquemine culture.

While disagreeing somewhat on the origin of Plaquemine culture, all authorities concur that it exhibited numerous continuities with the preceding Coles Creek culture. Several of the Plaquemine ceramic types appear to have been direct outgrowths of Coles Creek types. There were some changes, however, including the addition of small amounts of finely ground shell to some varieties of pottery, and the extension of the decorative field to include the body of the vessel. Mound construction continued on an even greater scale than in the previous period. The mounds were now larger, there were more at each site, and there

were more sites (Phillips 1970; Brain 1978; Wells 1997). Intensive agriculture is presumed to have been the economic base on which this florescence was built, but there is little direct evidence of it in the Lower Mississippi Valley.

Two Mississippi period phases, Medora and Delta Natchezan, have been identified in the present region. Medora is an early Plaquemine phase based on Quimby's (1951) excavations at the type site. Other components are present at the Kleinpeter (16EBR5), Livonia (16PC1), and Rosedale (16IV1) sites (Weinstein 1987:96). The principal ceramic types associated with this phase include Plaquemine Brushed, *var. Plaquemine*, Mazique Incised, *var. Manchac*, L'Eau Noire Incised and Addis Plain, *var. Addis*. Delta Natchezan is a late Plaquemine phase based on Quimby's (1957) excavations at the Bayou Goula site. Weinstein (1987:Figure 11) identifies another component at the Peter Hill site (16IV2). The ceramic markers of the phase include Fatherland Incised, *vars. Fatherland* and *Bayou Goula*, and Addis Plain, *vars. Greenville* and *St. Catherine*.

Brown (1985:Figure 2) also identifies a Bayou Petre phase of Plaquemine culture in the Baton Rouge region that he dates to the middle portion of the Mississippi period. Most authorities associate the Bayou Petre phase with the Pensacola variant of Mississippian culture and do not extend its range this far west (Weinstein 1987:Figure 11). However, ceramics associated with the Bayou Petre phase have been found in the Lafourche Delta (Miller et al. 2000; Wells and McCarthy 2011), and in Iberville Parish (Ryan and Wells 2007).

Historic Cultural Setting

The overview presented below is intended to provide the historical context necessary to understand and evaluate the archaeological remains encountered in the project area. Although the following discussions focus on the present project area, overriding general historical themes are presented as well.

European Exploration, 1543

European exploration of southeast Louisiana began in 1543 when the survivors of the Spanish expedition of Hernando de Soto traveled down the Mississippi River on their way to the Gulf of Mexico. No record, however, was made detailing the presence of Native Americans during their journey through the project area vicinity. After this initial, brief Spanish contact, 140 years passed before Europeans returned to the region (Wall et al. 2002).

French Colonial Period, 1682–1763

It was not until the late seventeenth century that the French took an interest in the lower Mississippi River Valley, and exploration of the region began in earnest. In 1682 an exploring party, led by René-Robert Cavalier, Sieur de La Salle, traveled from French Canada down the Mississippi River to its mouth and there laid claim to the entire river valley for France. The party then returned upriver to Canada. Two years later, La Salle attempted to relocate the mouth of the Mississippi from the Gulf of Mexico in order to establish a colony on it. However, he missed the river and landed in Texas instead. The small colony which he founded on Matagorda Bay, however, soon failed (Wall et al. 2002:21-22). La Salle, and later French accounts made by Henri de Tonti in 1686, indicate that there were a number of Native American groups residing along the lower Mississippi River and its western tributaries. These groups came to be collectively referred to by the French as “*les petites nations*,” or the “Small Tribes” (Caillot 2013:127; Swanton 1911:299). The principal aboriginal groups encountered by the early European expeditions through the region were the Bayagoula, Chitimacha, Houma, Ofogoula, Okelousa and Tunica.

Several years passed before the French crown was willing to finance another Louisiana expedition. Finally, Pierre Le Moyne, Sieur d’Iberville, and his younger brother, Jean-Baptiste Le Moyne, Sieur de Bienville, were selected to head another colonizing expedition to the Gulf of Mexico in 1698. The following year they arrived in North America and selected a site near present-day Biloxi, Mississippi, for their base (Wall et al. 2002). In February 1699, shortly after his arrival in the colony, d’Iberville, met with the Bayagoula,

Mugulasha and Ouacha at Biloxi, Mississippi. The following month, d'Iberville ascended the Mississippi River and encountered two canoes, one filled with Bayagoulas and the other with five Ouacha men and two women near the junction of the Mississippi River and Bayou Lafourche. Two days later, on 15 March 1699, d'Iberville landed at the present-day town of Bayou Goula. There, he found the combined village of the Bayagoula and Mugulasha (Swanton 1911:274, 279-280, 297) (Figure 3-2).

D'Iberville described the Bayagoula/Mugulasha village as one-fourth league (about half a mile) from the river, on a small stream providing fresh water. The village was surrounded by a ten-foot-high cane palisade. The community supported two temples, one for each group. D'Iberville was able to inspect one temple, which he described as a dome-shaped building, thirty feet in diameter, with mud-plastered walls. The entrance was protected by a lean-to, eight feet wide and twelve feet long. The houses, which numbered as many as 107, were built similarly and roofed with split cane. As many as 250 male residents lived at the village (McWilliams 1981:62-3).

At the time of his visit, d'Iberville noted the effects of smallpox on the Bayougoula population, remarking that the disease had killed one-fourth of the people (McWilliams 1981:63). The effects of disease, the merging of smaller groups, and pressure by Europeans and larger tribes caused numerous migrations and relocations of regional native groups after the arrival of the Europeans.

After meeting with the Bayagoula and Ouacha in March 1699, d'Iberville proceeded to the area of present-day Angola, West Feliciana Parish, Louisiana. There, he found the Houma residing in dispersed villages (see Figure 3-2). Though the main Houma village was located near Portage de la Croix (Figure 3-3), other Houma settlements stood somewhat further north, one at the juncture of Hunter Creek with the Mississippi River and one near Pond, Mississippi. Both of the latter settlements were located in what is now Wilkinson County. Although La Salle knew of the Houma in 1682, the group did not directly interact with Europeans until Tonti visited them in 1686 (Guevin 1983:57-60; Swanton 1911:189-190, 285-287). Though d'Iberville did not mention any Native Americans residing on the

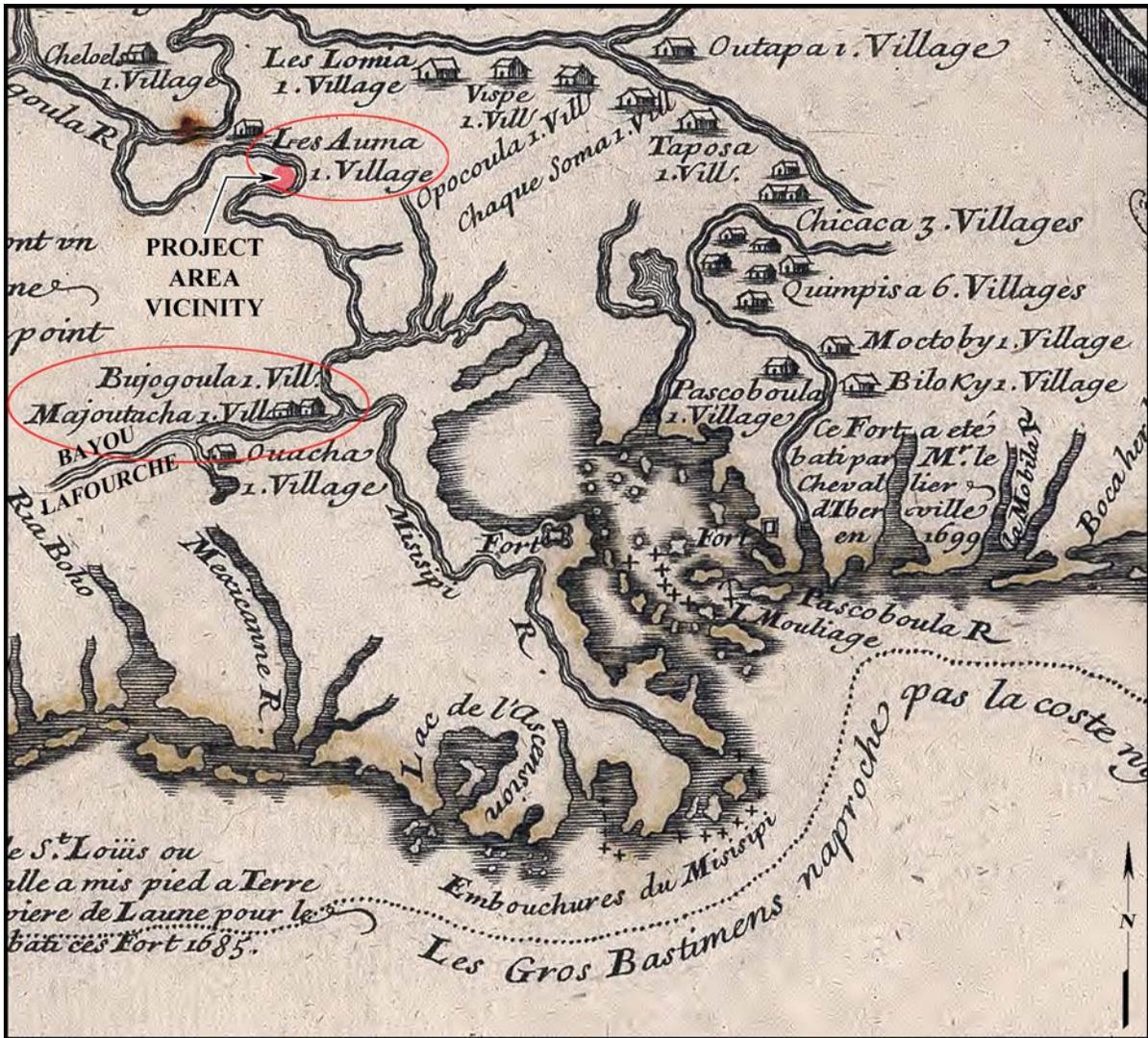


Figure 3-2. Detail of Nicolas de Fer's (2010) 1701 *Les Costes aux Environs de la Riviere de Misisipi* depicting the locations of the “Bujogoula” (Bayagoula), “Majoutacha” (Mugulasha) and “Auma” (Houma) villages at the turn of the eighteenth century. Note the absence of Native American occupation in the project area vicinity.

west bank of the river in Pointe Coupée Parish in 1699, it is quite likely that the Houma hunted throughout the region.

After visiting with the Houma in 1699, d'Iberville returned to the village in March 1700 only to find that half of the tribe had died from non-native diseases introduced by European explorers. On that trip, d'Iberville also stopped to visit the Bayagoula on his way up the Mississippi River. Leaving the Bayagoula, d'Iberville stopped at *Istrouma*—present-day Baton Rouge. There he found a red-painted post that marked the boundary between the hunting grounds of the Bayagoula and Houma. André Pénicaut, who accompanied d'Iberville on that trip, noted that five leagues above (upriver of) *Istrouma* were very high banks of white dirt—known as the Ecores Blanc (see Figure 3-3)—on the east side of the river that extended for three quarters of a league (Pénicaut in McWilliams 1953:23-26). The Ecores Blanc refers to that area along the east bank of the river in the vicinity of Port Hudson, virtually opposite the present project area.

Pénicaut (in McWilliams 1953:26) went on to write in 1723 that:

At the end the of them [the bluffs] one finds a neck of land that juts far out into the Missicipy [sic], making a bend seven leagues around [see Figure 3-3]. To avoid this tedious trip around this bend, M. d'Hyberville had the longboats carried across this neck, which is no more than a gunshot wide, and we were presently on the other side upon the Missicipy [sic], where we launched our longboats once more. For some time the river current has been undermining this neck of land, so that the full stream now passes across it. This is why that neck of land now bears the name Pointe Coupée.

The Pointe Coupée cutoff, which occurred in about 1715 (du Pratz 1763:II:97), is located a short distance south of the present project area and gave rise to the formation of False River. Since Pénicaut's time, the term "Pointe Coupée" has been expanded to include the entire parish.

The Chitimacha, who still retain their tribal identity, were first mentioned by Bernard La Harpe in August 1702 when he noted that Bienville had learned of a raid on the Chitimacha by a group of Canadians and Indians led by Louis Juchereau de St. Denis (La

Harpe 1971:41). This marked the beginning of a long period of hostilities between the Chitimacha and the French. In 1706 a group of Chitimacha, having failed in an attempt to attack the Bayagoula, killed the priest St. Cosme and three other Frenchmen on the Mississippi River (La Harpe 1971:54). Bienville immediately asked the other Indian groups of the region to join in a war on the Chitimacha, and in March of 1707 St. Denis led a party of French Canadians, Bayagoulas, Biloxis, Chaouachas, and Natchitoches against a Chitimacha village. According to Penicaut the village was located on a lake near Bayou Lafourche (McWilliams 1953:71). He further states that 15 Chitimacha were killed and 40 were taken as prisoners.

A few months after d'Iberville and Pénicault passed through the region in 1700, the Bayagoula massacred the Mugulusha amongst them. In 1706, the Taënsa moved in with the Bayagoula, with apparent peaceful intentions. The alliance did not last long, and by August 1706, the Taënsa had massacred their hosts, not unlike the Bayagoula massacre of the Mugulusha in 1700. Taking advantage of their situation, the Taënsa then invited the Chitimacha and Yaguénéchiton to the Bayagoula village so as to share the Bayagoula's grain with them. However, instead of sharing their bounty, the Taënsa attacked the Chitimacha and Yaguénéchiton, taking a number of slaves before ostensibly returning to their own village in the vicinity of present-day Edgard, Louisiana. The few Bayagoula that survived the 1706 Taënsa massacre, meanwhile, fled downriver to seek the protection of the French (Swanton 1911:270, 278). The Bayagoula apparently remained there for only a short period of time before returning upriver to the present-day Donaldsonville area.

When initially contacted by d'Iberville in 1699, the Houma occupied southern Wilkinson County, Mississippi, and the adjacent portion of West Feliciana Parish, Louisiana (Swanton 1911:285; Guevin 1983:49-64). In 1706, however, the Houma moved south from Angola to the Bayou St. John area of present-day New Orleans. The reason for the move is unclear, but may have been due to a Tunica uprising similar to that of the Bayagoula and Mugulusha in 1700 and the Taënsa and Bayagoula six years later. Indeed, Bernard La Harpe described such a fate befalling the Houma at the hands of the Tunica in 1706. There are, however, conflicting accounts, and it is possible that the Houma, decimated by disease, merely abandoned their villages, which were later reoccupied by the Tunica. Regardless, the

Houma remained on Bayou St. John for only a short while before moving to present-day Ascension Parish (Figure 3-4). When this move occurred is unknown, but must have taken place by 1712–1713 (Guevin 1983:64; Swanton 1911:289-291; Waggoner 2005:131). Indeed, François Le Maire wrote on 15 January 1714 that “sixty leagues inland [*from the mouth of the Mississippi River*], the Oumas consist of a good one hundred families; they had a Jesuit missionary at one time” (Waggoner 2005:131). Le Maire’s description places the Houma in present-day Ascension Parish. Staunch French allies, the Houma may have been purposely settled in that area by the French to thwart British incursions into Louisiana. In addition, the new Houma village was strategically placed to provide food to the fledgling French colony.

Prior to replacing the Houma at Angola, the Tunica had resided in the Lower Yazoo Basin. However, the group left there as they were under pressure from the Chickasaw, who were allied with the British. Seeking the protection of the French, with whom they were allied, the Tunica moved amongst the Houma so that they were more protected from Chickasaw attacks. After the Houma left for New Orleans in 1706, the Tunica settled near the Red River-Mississippi River confluence, an area known as Portage de la Croix (see Figure 3-4). The principal Tunica village was on the east bank of the Mississippi River in present-day West Feliciana Parish, but there was also a small village on the west bank in what is now upper Pointe Coupée Parish (Brain 1988:30-34).

In 1892, The Goodspeed Publishing Company (1892:194) asserted that the first European settlers in the Pointe Coupée area were French Canadian trappers who moved there in about 1708. Louisiana historian Alcée Fortier (1909:II:314-315) went on to write in 1909 that Bienville established a post there in 1717, and that area land grants were issued soon after. Neither, however, provides evidence for these statements (Costello 2010:18-19). It should be noted that the term “Pointe Coupée” was not then synonymous with the present-day parish; it, instead, referred to a region that included both banks of the Mississippi River.

In 1719, Bernard Diron Dartaguiette (2009) recorded his journey up the Mississippi River from New Orleans to Cahokia. Thirteen years later, in 1732, his notes were used to

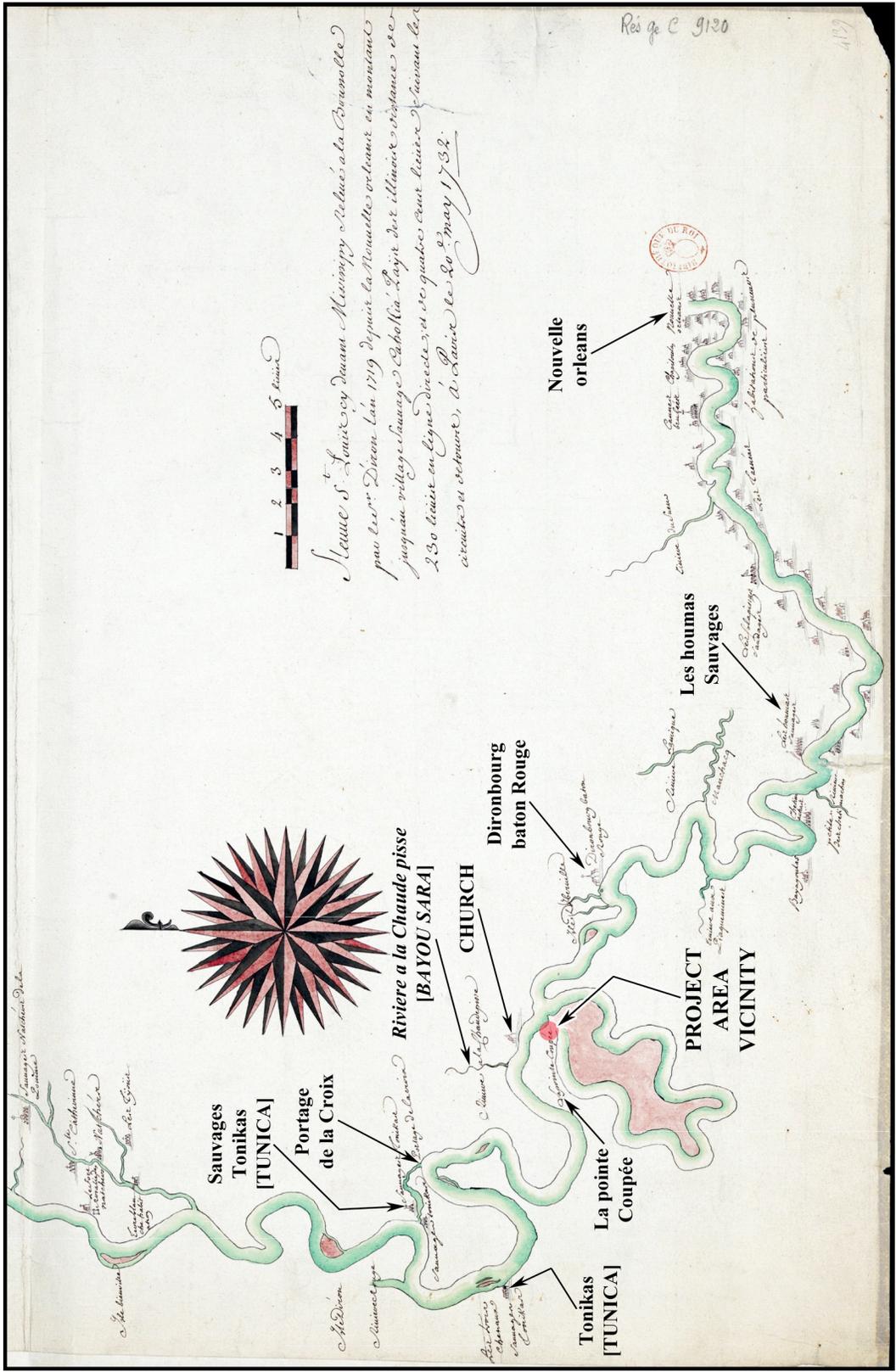


Figure 3-4. Detail of Bernard Diron Dartaguiette's (2009) 1732 manuscript map entitled *Fleuve St Louis cy devant Mississippi relevé à la boussole*. Although dated 1732, the included information is based on Dartaguiette's 1719 observations. Note the apparent church located across the river from the project area and the relative location of Riviere a la Chaud pisse—present-day Bayou Sara. Also note that False River was not yet completely cut off from the Mississippi River.

produce a manuscript map of his journey entitled *Fleuve St Louis cy devant Mississipy relevé à la boussole* (see Figure 3-4). Importantly, Dartaguiette indicated that “*La pointe Coupée*” was already cut off in 1719. By then, the upper arm of what is now False River was beginning to silt in. The lower arm, however, was still open to the Mississippi River. On the opposite (east) bank of the river, Dartaguiette depicted an apparent church or habitation about half way between “*La pointe Coupée*” on the west bank and a small stream labeled “*Riviere a la Chaude pisse*” on the east bank. A contemporary, literal translation of *Riviere á la Chaude pisse* would be “river of the hot water or urine,” conceivably a metaphor for the color and flow of Bayou Sara. “*Chaude pisse*,” however, was also a French colloquialism for gonorrhea (Boyer 1728), for which the stream was actually named. While the events leading to its name have since been lost to history, the stream is now known as Bayou Sara. Perhaps, the church depicted by Dartaguiette may be evidence of the post that Fortier (1909:II:314-315) mentioned as having been established at *Pointe Coupée* by Bienville in 1717. As noted above, “*Pointe Coupée*” then referred to both banks of the Mississippi River and was not limited to just the modern parish.

In 1718, the French colony of Louisiana stretched as far east as the Perdido River, where it was bound by Spanish Florida. By the time Dartaguiette passed through the area in 1719, however, the French captured the community of Pensacola, pushing the boundary further east. That same year, the capital of Louisiana was moved from Mobile, Alabama, to Ocean Springs, Mississippi, and in 1720 to Biloxi. Following a 1722 hurricane, the French abandoned both Biloxi and Pensacola and moved their capital to New Orleans, which had been established just four years earlier (Coker 1999:14-15; French 1851:111; Wall et al. 2002:40-41).

Much of the settlement of the colony during these early years was focused on large concessions that were granted along the Mississippi River above (i.e., upriver of) New Orleans. Biloxi remained largely abandoned until the late eighteenth century, and Mobile was supplanted by New Orleans in both size and commercial and political importance. While most settlers in Louisiana during this period were of French or French-Canadian descent, large numbers of Germans and Swiss were settled along the Mississippi River above New Orleans in 1721 (Maduell 1972:61; Wall et al. 2002:41-43). That area soon became

known as the Côte Des Allemands and included much of present-day St. Charles and St. John the Baptist parishes.

Antoine Simon Le Page du Pratz, who arrived in Louisiana in 1718, travelled upriver from New Orleans to Natchez, Mississippi, in about 1721 (Arthur 1947). Du Pratz (1758:II:220) observed during his travels that the Houma were the first Native Americans that he met after leaving New Orleans. Their main village, located 20 leagues above the recently established city, was known as the “Grand Houmas,” and the general area soon became commonly known as “Les Houmas.” Du Pratz did not mention any other native groups between the Houma and Red River’s confluence with the Mississippi River, where he found the Tunica (see Figure 3-4).

Between Les Houmas and Portage de la Croix, du Pratz passed through the recently formed Pointe Coupée cutoff. In later years, du Pratz (1763:II:97) wrote:

The first time I went up the river [about 1721], its entire body of water passed through this part; and though the channel was only made six years before, the old bed was almost filled with the ooze, which the river had there deposited; and I have seen trees growing there of an astonishing size, that one might wonder how they should come to be so large in so short a time.

Based upon du Pratz’s recollection, the Pointe Coupée cutoff must have occurred in about 1715.

Du Pratz (1975 [1774]:317) also noted that the Okelousa resided “west of and above Pointe Coupée”. Beyond this brief reference, however, little is known of the group other than that they were allied with the Ouacha and Chawasha (Swanton 1911:302). Apparently, several of the earliest French settlers in the Pointe Coupée area took Okelousa wives (Claitor’s Publishing Division 1975:194). Some question still remains as to their identification as a separate entity from the Opelousas, although Swanton (1911:30) emphatically states that they are a separate tribal entity.

One of the largest grants made in the project area vicinity was the Sainte Reyne concession, located opposite False River in West Feliciana Parish. In January 1720, Jean

Daniel Kolly and Francois Mathieu de Vernesobre de Laurieu organized two concessions under the appellation Sainte Reyne Colony (Giraud 1966:197)—one near Thompson Creek in West Feliciana Parish, sometimes referred to as “Ste. Reyne in the Tunicas,” and one in Jefferson Parish between the Cannes Brulees and the Tchoupitoulas. These concessions were part of a larger effort begun the previous month by a consortium of French nobility interested in developing the colony of Louisiana. Unlike many concessions that never were settled, Kolly and Vernesobre de Laurieu did develop their West Feliciana concession. Like virtually all of the other concessions, Sainte Reyne met with almost instant financial disaster, the monetary notes issued to fund the colony considerably depreciating within a year of its charter. Kolly, who was also involved with the Ste. Catherine concession at Natchez, appears to have been reluctant to give up on the venture and absorbed most of the losses himself (Giraud 1974:92, 109).

The first *engagées* (indentured servants) bound for the Sainte Reyne Colony embarked upon the *La Loire* in Lorient, France, on 11 August 1720 (11 August 1720 *Liste des passagers embarqués sur le vaisseau La Loire; engagés pour la concession Sainte-Reyne*, Archives Nationales d’Outre-Mer [ANOM], COL G1 464) and would have arrived in the colony that fall. At Ste. Reyne in the Tunicas, Kolly and Vernesobre de Laurieu selected an area opposite the upper arm of present-day False River (Figure 3-5) to establish one of their fledgling colonies. Although the precise location of Sainte Reyne is unknown, based on several contemporary maps, Marcel Giraud (1974:4:251) placed the concession in a location consistent with the area between Grant’s Bayou and Thompson Creek in West Feliciana Parish. It is unlikely that the concession was developed immediately adjacent to the river as that area was subject to seasonal flooding then as it is today. Indeed, based upon his late 1721 observations, Pierre F.X. de Charlevoix (1744:III:435) wrote “*Le terrain, sur lequel on a commencé celui-ci, est fort bon, mais il faut bâtir à un quart de lieuë du Fleuve, derrière une Cypriere, dont le fond est marécageux, & dont on pourroit tirer parti en y semant du Ris, & en y faisant des Jardinages.*” Benjamin Franklin French (1851:III:175) translated Charlevoix’s passage to mean “The soil on which they have begun this, is very good; but they must build a quarter of a league from the river, behind a cypress wood, which is a marshy ground, and of which they might make advantage in sowing rice and making

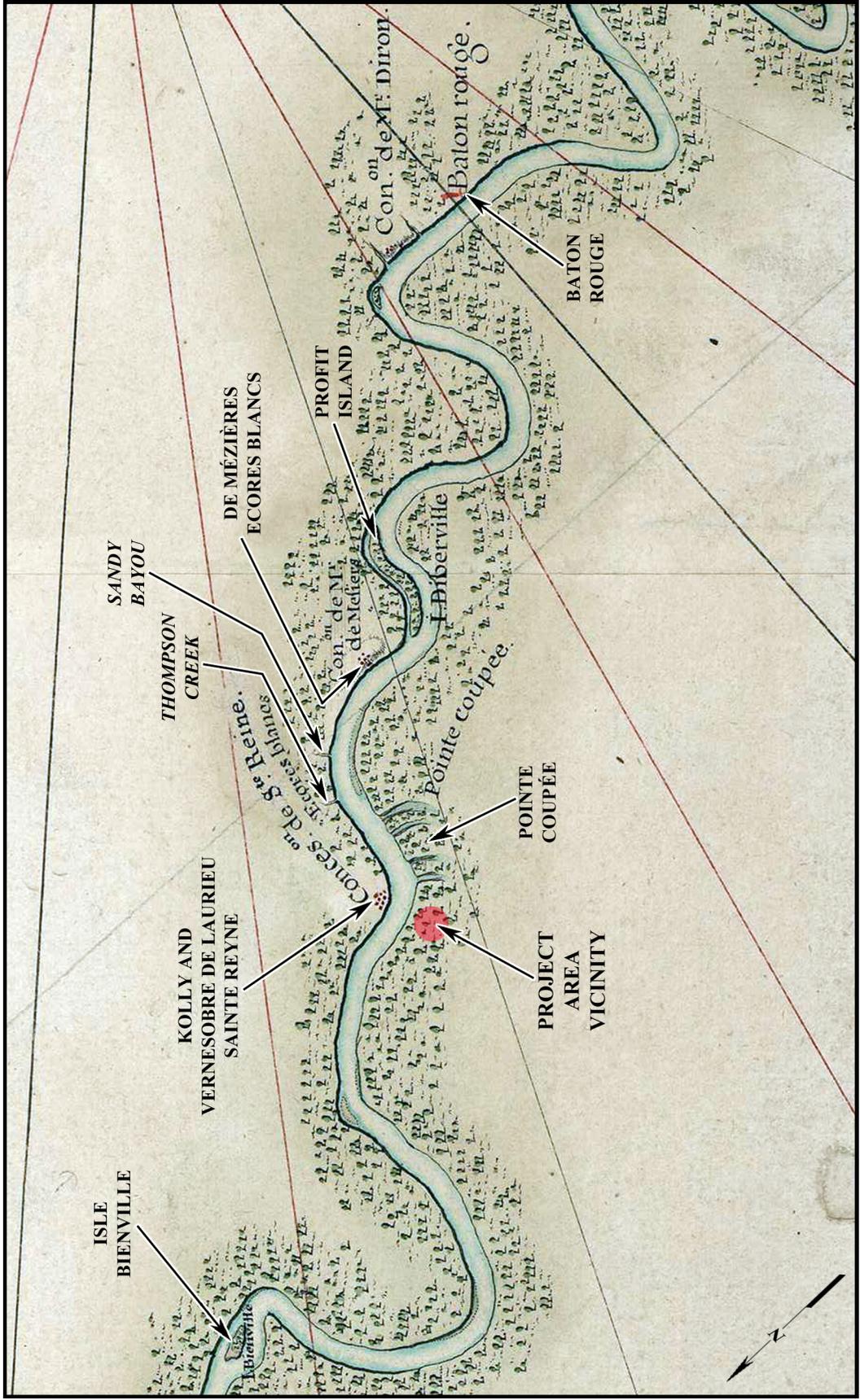


Figure 3-5. Detail of the anonymously drawn circa 1743 *Carte du Cours Fleuve St. Louis depuis les Natchez, jusqu'à son Embouchure* (Anonymous 2009). Although dated circa 1743, the map depicts the Pointe Coupée area between 1721 and 1724.

gardens.” The “marshy ground” refers to that area between the bluffs and the river. Hence, the colony was undoubtedly established on the bluffs immediately overlooking the Mississippi River—a location protected from the river’s floodwaters, yet within easy access of that vital link of transportation. The only other European development in the area at this early date was the concession of Marquis de Mézières and his wife at Ecores Blanc (see Figure 3-5), in the vicinity of present-day Port Hudson.

It is unclear how many people settled at Sainte Reyne in 1720–1721; however, those that moved there included several individuals of French extraction, indentured servants, and a number of slaves. Kolly and Vernesobre de Laurieu’s main concession at the Tchoupitoulas, the main Sainte Reyne concession, had a population of 62 men, 12 women, 5 children, 46 black slaves, and 2 Indian slaves in November 1721 (Conrad 1970:5), and it is likely that the population of the West Feliciana concession was considerably less. When Charlevoix (1744:III:435) visited the Pointe Coupée concession on 30 December 1721, he described the settlement less than glowingly:

. . . nous vîmes les foibles commencemens d’une Concession, qui porte le nom de Sainte Reyne , & à la tête de laquelle sont MM. de Coetlogon & Kolli. Elle est située sur un terrain très-fertile, & où l’on n’a point à craindre le débordement du Fleuve; mais avec rien on ne fait rien, surtout quand les Hommes manquent au travail, & l’amour du travail aux Hommes; & c’est l’état, où nous parut cette Concession.

Benjamin Franklin French (1851:III:175) translated Charlevoix’s passage to mean:

. . . we saw the weak beginnings of a grant, which bears the name of St. Reyne, and at the head of which are Messrs. de Coetlogon and Kolli. It is situated on a very fertile soil, and there is nothing to fear from the overflowing of the river; but with nothing, nothing can be done, especially when they want men for labor, and men want an inclination for labor; and this seemed to us to be the condition of this grant.

Charles E. O’Neill (1977:163), however, translated the passage as:

. . . we saw the feeble beginnings of a grant, called Sainte Reine, belonging to Messrs. Coetlogon and Kolli. It is situated on a very fertile spot, and has nothing to fear from the overflowing of the river; but from nothing, nothing

can proceed, especially when the people are not industrious, and in such a situation this settlement appears to be.

Though similar translations, it is unclear if the Sainte Reyne concession was not doing well because of the lack of laborers (based on French) or because the laborers were lazy (based on O'Neil).

At the same time, Charlevoix (1744:III:435) described de Mézières' Ecores Blanc as "*Quelques Huttes couvertes de feuilles de Lattaniers, & une grande Tente de coutil forment présentement cette Concession.*" French (1851:III:175) took this to mean "Some huts covered with the leaves of the lattanier and a great tent of cloth at present form all this grant." "*Feuilles de Lattaniers*" presumably refers to palmetto fronds.

Due to an inability to meet financial expectations and obligations, an increased reliance on slave labor, and a reluctance by Europeans to remain in the harsh physical conditions present in the area, both Sainte Reyne concessions experienced rapid depopulation in 1721 as many of the French colonists returned home or moved to other concessions (Giraud 1991:160). By May 1722, Kolly and Vernesobre de Laurieu's Tchoupitoulas concession had declined in population to 12 men, 1 woman, 1 child, and 2 black slaves (Conrad 1970:8). In that same year, the Pointe Coupée Sainte Reyne concession had a population of 15 men, 5 women, 2 children, and 19 black slaves. Ecores Blanc, meanwhile, had a population of only 14 men, 6 women, and 3 black slaves (Conrad 1970:8). Kolly, himself, apparently resided on his Tchoupitoulas concession during this period.

The financial status of Sainte Reyne continued its downward slide in 1722 when Louis Victoire Dufaure and his brother-in-law, Jean Baptiste Dureville, both of whom were intimately involved with the concession, were unable to meet their tax obligations for 1722, with the latter giving up the use of his home for a period of five months so that it could be used for a military garrison (Giraud 1974:94). To further add to the difficulties, the British East India Company forbade trade between the concessionaires and English-held St. Dominique, leaving the colonists short of supplies (Giraud 1991:144).

By 1724, the Pointe Coupée concessions were virtually non-extant. Many of the inhabitants of both Sainte Reyne and Ecores Blanc who were unable to return to France (particularly the *engagées* whose repatriation efforts were often blocked) left the concessions and moved into the surrounding area (Giraud 1991:160, 178). This exodus left only ten indentured servants at Sainte Reyne and nine at Ecores Blanc by January 1726. There were, however, four households outside of the Pointe Coupée concessions. These four households were comprised of 6 white males, 3 white females, 8 children, and 4 *engagées*, who between them had cleared a total of 29 arpents (24.54 ac or 9.93 ha) of land (Conrad 1970:27, 32).

Though it is not known precisely where these families resided, they most likely were living in present-day Pointe Coupée Parish. Indeed, by 1727, 29 Europeans, comprising 17 households, are known to have been residing in the parish (Maduell 1972:100-103). Two of those households were supported by African slaves, of whom there were then three individuals in the area. At least some of the Pointe Coupée residents had formerly lived at Sainte Reyne and/or Ecores Blanc across the river (Costello 2010:19-20). Though some individuals remained there, the Sainte Reyne Concession was abandoned soon after its founding, while the de Mézières Concession was abandoned in 1727 (Broutin 2007 [1731]) (Figure 3-6).

Unfortunately for Kolly, he and his son arrived at the Ste. Catherine concession at Natchez just prior to the Natchez uprising of 1729–1730. The French had established Fort Rosalie among the Natchez in 1716 (de Richebourg in Swanton 1911:203-204). Following the deaths of several pro-French Natchez chiefs between 1725 and 1728, pro-English Native American leaders took control of the tribe. Under their leadership, the Natchez destroyed Fort Rosalie and killed between 200 and 300 settlers and soldiers on 29 November 1729, including many at the nearby Ste. Catherine concession. Most of the 80 women and 150 slaves at Natchez were taken captive to sell to the English or other Natchez allies. In the following weeks, the Natchez were joined by the Yazoo and Koroa (Giraud 1991:398; O’Neil 1977:86; Swanton 1911:225, 229-230). Both Kolly and his son were killed, as was his servant (Conrad 1970:131). Not surprisingly, fear and paranoia swept the colony and many settlers fled for the safety of New Orleans. One result of the war was the establishment



Figure 3-6. Detail of Ignace François Broutin's (2007) 1731 manuscript map entitled *Carte Particuliere du Cours du Fleuve Missisipy ou St. Louis*. Note the scattered French settlements in the area and the location of the circa 1730 redoubt built in response to the 1729 Natchez Massacre.

of eight protective forts or posts (Casey 1983:161), one of which was located at Pointe Coupée.

In 1731, Ignace François Broutin (2007 [1731]) produced a detailed manuscript map entitled *Carte Particuliere du Cours du Fleuve Missisipy ou St. Louis* that was based upon surveys conducted in 1721, 1726 and 1731 (see Figure 3-6). Broutin's map depicts the locations of both the Sainte Reyne and de Mézières concessions as well as the recently established farmsteads ("*Habitations de la Pointe Coupée*") scattered along the west bank of the Mississippi River in present-day Pointe Coupée Parish. Near the southern extent of those habitations, Broutin also portrayed a larger structure which he labeled "*Redoute faite guerre de 1729*," or "Redoubt made war of 1729," in reference to a defensive work constructed as a result of the 1729 Natchez uprising. Precisely when the fort was built is unknown, but it was obviously between December 1729 and August 1731 (when Broutin drafted his map).

As noted above, Louisiana historian Alcée Fortier (1909:II:314-315) wrote that Bienville established a post at Pointe Coupée in 1717. His source for that information may have been the 1892 *Biographical and Historical Memoirs of Louisiana* published by The Goodspeed Publishing Company (1892). According to that work, "Governor Bienville heard of the little settlement at Pointe Coupee and on an expedition against the Tunica Indians he stopped there and established a military post about one mile above the present town of Waterloo. In 1840 the ramparts could be seen" (The Goodspeed Publishing Company 1892:194). As there was apparently no European occupation on the west bank of the river at Pointe Coupée until circa 1723, however, Fortier's date of 1717 is somewhat questionable. Perhaps these accounts confused the later circa 1730 redoubt with Bienville's April 1716 construction of a palisade on Isle Bienville (later Natchez Island, which has since merged with Pointe Coupée Parish) (Barnett 2007:67) (see Figure 3-5). As noted above, it is also possible that the earlier settlement may refer to one on the opposite bank of the river (see Figure 3-4).

While the ultimate source of information for the earlier fort remains unknown, the 1892 description places Bienville's fort in the same area as the fort depicted on the Broutin

map (see Figure 3-6). Although it is not possible to accurately overlay Broutin's work with later cartographic resources, it is clear that the circa 1730 fort was located in close proximity to the current project area. The Goodspeed Publishing Company (1892:194) does indicate that the fort's ramparts were still visible in 1840 about one mile north of the town of Waterloo. Waterloo was a small community located at the intersection of the upper arm of the old (pre-1715) river channel with the new (Figure 3-7). The one-mile distance provided by The Goodspeed Publishing Company places the fort in Section 10, Township 4 South, Range 11 East, Southeastern District (West of the Mississippi River), very near the present project area. A small rise, evidenced by a contour line, is portrayed in that same area on the 1883 Mississippi River Commission (MRC) map (Figure 3-8). Though circumstantial, the 1883 contour line could mark the site of the circa 1730 fort (if not of the 1717 Bienville fort). The present-day levee (constructed circa 1930) passes over that locality. No physical evidence of the fort is currently visible.

While the fort was located near, but outside of, the present project area, several habitations fronted the Mississippi River in and adjacent to the project area (see Figure 3-6). Like the fort, those structures closely lined the riverbank. Although there has been relatively little bankline erosion in this area since at least 1851 (see Figure 3-7), there have been several levee setbacks over the years. Associated with those setbacks are extensive borrow pits. Based upon cartographic regression analyses conducted for this project, the 1851 river bank was located over 200 m (656 ft) east of the present levee. Many of these early settlements likely stood within that area or, perhaps, under the levee (like the fort) or River Road (LA 981). The specific identities of those families residing in the project area vicinity remain unknown.

In response to the 1729 Natchez uprising, the French actively sought out and fought the Natchez over the next two years. One confrontation occurred at Sicily Island (Catahoula Parish, Louisiana) in January 1732. Under Governor Étienne Périer, French troops and their native allies left New Orleans on 9 December 1731 to begin their trip up the Mississippi River to Sicily Island (see Charlevoix's account in Swanton 1911:243-247). The trip was cartographically recorded in a 1732 manuscript map entitled *Carte du Cours du Fleuve*

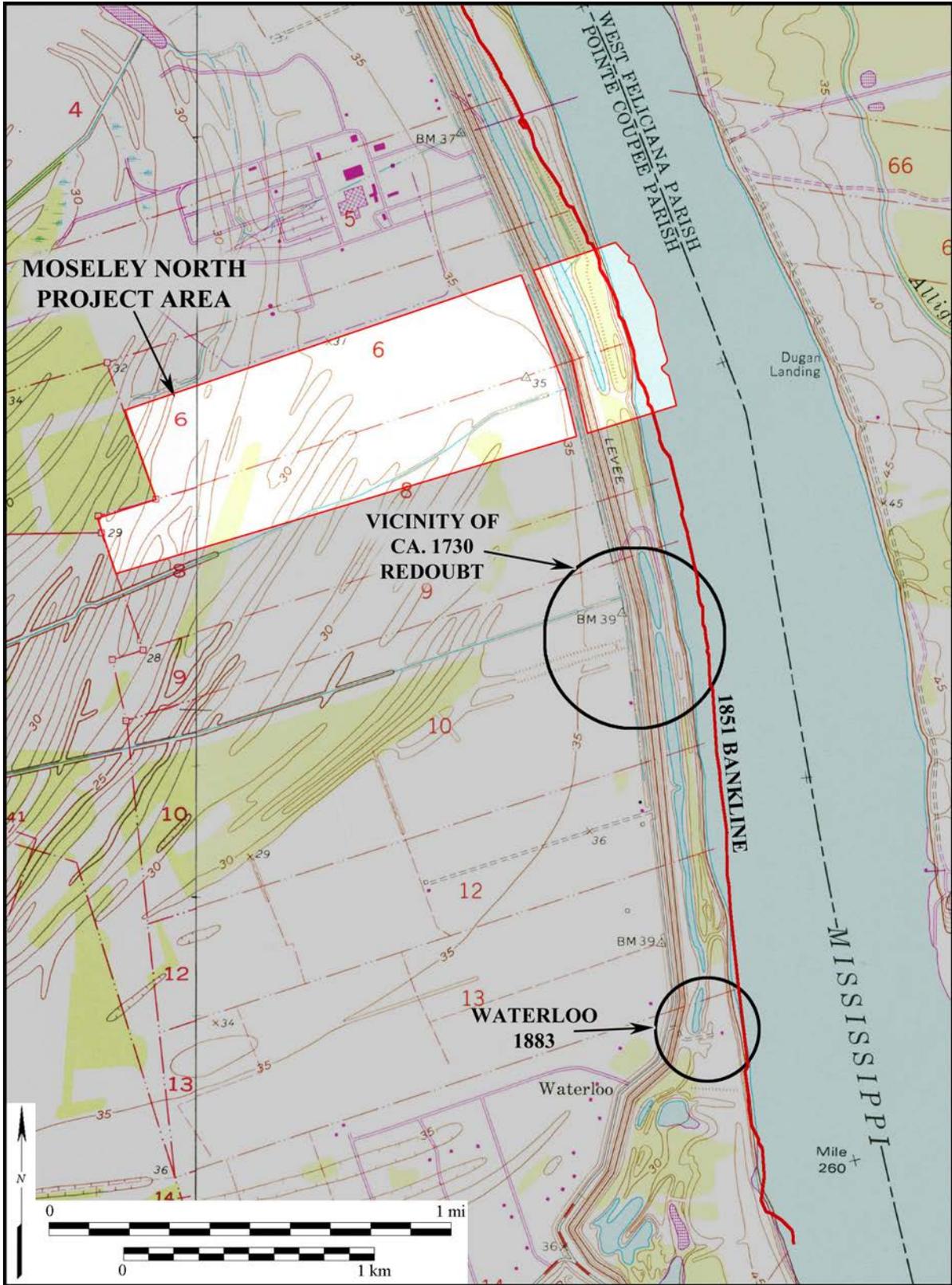


Figure 3-7. Location of the circa 1730 redoubt relative to the present project area (USGS 1980a, 1980b).

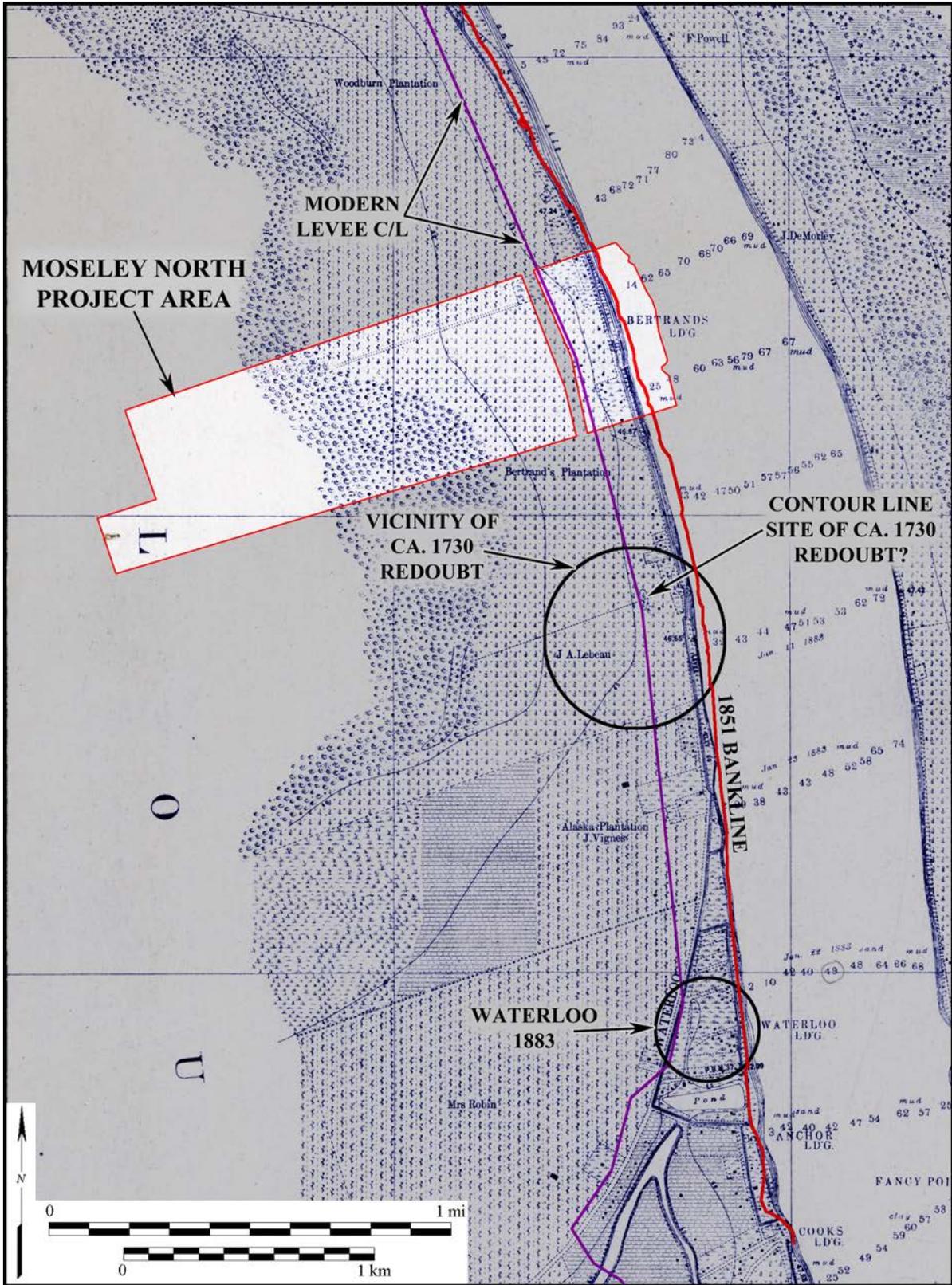


Figure 3-8. Location of the circa 1730 redoubt relative to the present project area (MRC 1883). In 1892, the redoubt was described as being “about one mile above the present town of Waterloo” (The Goodspeed Publishing Company 1892:194).

St. Louis, Depuis son Embouchure Jusqu'au Poste des Natchez, Avec Partie des Rivieres Rouge, Rs. Noire, et des Taença" (Anonymous 2009 [1732]). Depicting the Mississippi River to its mouth, rather than just to New Orleans, it is clear that the map was based, at least in part, upon earlier resources. It is unlikely, however, that those resources were significantly earlier than 1731. Based upon the 1732 map (Anonymous 2009 [1732]), Périer arrived at the Pointe Coupée settlement on 25 December 1731. By then, there were seven farms at Pointe Coupée. Those seven farms, consisting of 7 white males, 6 white females, 4 children, 2 indentured servants and 13 black slaves, comprised the entire population of the area (Conrad 1970:60). Regardless, the army spent Christmas night there (Anonymous 2009 [1732]), perhaps at the recently constructed redoubt.

After the defeat of the Natchez at Sicily Island, Périer remained concerned about the vulnerability of the Pointe Coupée settlement and had 10 soldiers stationed there at "a simple redoubt built in 1733" (Costello 2010:21-23). Périer's concerns were justifiable, in October 1731 four Pointe Coupée settlers were killed by Native Americans. That attack was followed in early 1732 by a 30-warrior Native American raid on a settlement at the former de Mézières concession.

In 1892, The Goodspeed Publishing Company (1892:194) stated that Bienville's fort was moved in 1722 to a point "four miles up the river in the precise neighborhood of the St. Francis church" where "the trenches are yet visible." If the dates provided by The Goodspeed Publishing Company are correct, Bienville's fort lasted only from 1717 until 1722 and was replaced by another works further upstream. As Broutin clearly indicates the 1729 fort was located near Waterloo and did not depict one further upstream (see Figure 3-6), the 1722 fort would have had to have been short-lived as well, and the earlier 1717 site likely reoccupied. Moreover, the 1729 fort would had to have been replaced by Périer's fort in 1733. Though possible, it is unlikely that four different forts were built at Pointe Coupée over the space of 17 years. As the west bank of the river was not settled until about 1725, and then by only four families, it is more likely that the first fort was not built until 1729, and it was that one which was replaced by Périer's fort in 1733. Indeed, as with the 1717 fort,

there is no known record of the 1722 fort in official French correspondence (Casey 1983:1616).

As to the location of the 1733 fort, it may well have been located “in the precise neighborhood of the St. Francis church” (The Goodspeed Publishing Company 1892:194). The first St. Francis of Assisi Church, however, was not consecrated until 16 March 1738 (Baudier 1939:132). While there are numerous mentions of troops garrisoned at the Pointe Coupée fort during the 1730s (Casey 1983:161), neither it nor the church’s specific location were noted by the French.

Both the fort and church were replaced in 1760 (Baudier 1939:159; Casey 1983:162), and it is probably these that The Goodspeed Publishing Company (1892:194) was referring to as being “four miles up the river.” In late 1765, Lieutenant John Ross completed a survey of the river entitled *Course of the River Mississippi, from the Balise to Fort Chartres; Taken on an Expedition to the Illinois in the latter end of the Year 1765* (Figure 3-9). Ross’ map places the new fort well upstream of the project area, opposite of what was then known as the Clap River—known by the French as the Riviere a la Chaude pisse. About the same time, Philip Pittman (1973 [1770]:34) passed through the area, writing “The fort, which is a quadrangle with four bastions, is built with stockades. . . . The fort is situated on the side of the Mississippi, about six miles above the lowest plantation. The church is very near the fort. . . .” Pittman’s accompanying map (Figure 3-10) illustrates the fort as a four-sided works, but does not label it. Immediately upstream of the fort, Pittman included two small circles, neither of which are labeled. These likely represent the church and its associated cemetery, which was established in 1764 (Baudier 1939:159).

Built in 1760, the second church remained standing until 1892 (Costello 2010:27). Though it was likely setback at least once during its 132 year lifespan (due to the encroaching river), the church was probably never moved laterally (i.e., along the river frontage) and remained on the same property throughout its lifespan. Fortuitously, an 1860 land grant placed the church and its cemetery in Section 23 and/or Section 24, Township 4 South, Range 10 East, Southeastern District (West of the Mississippi River) (Casey

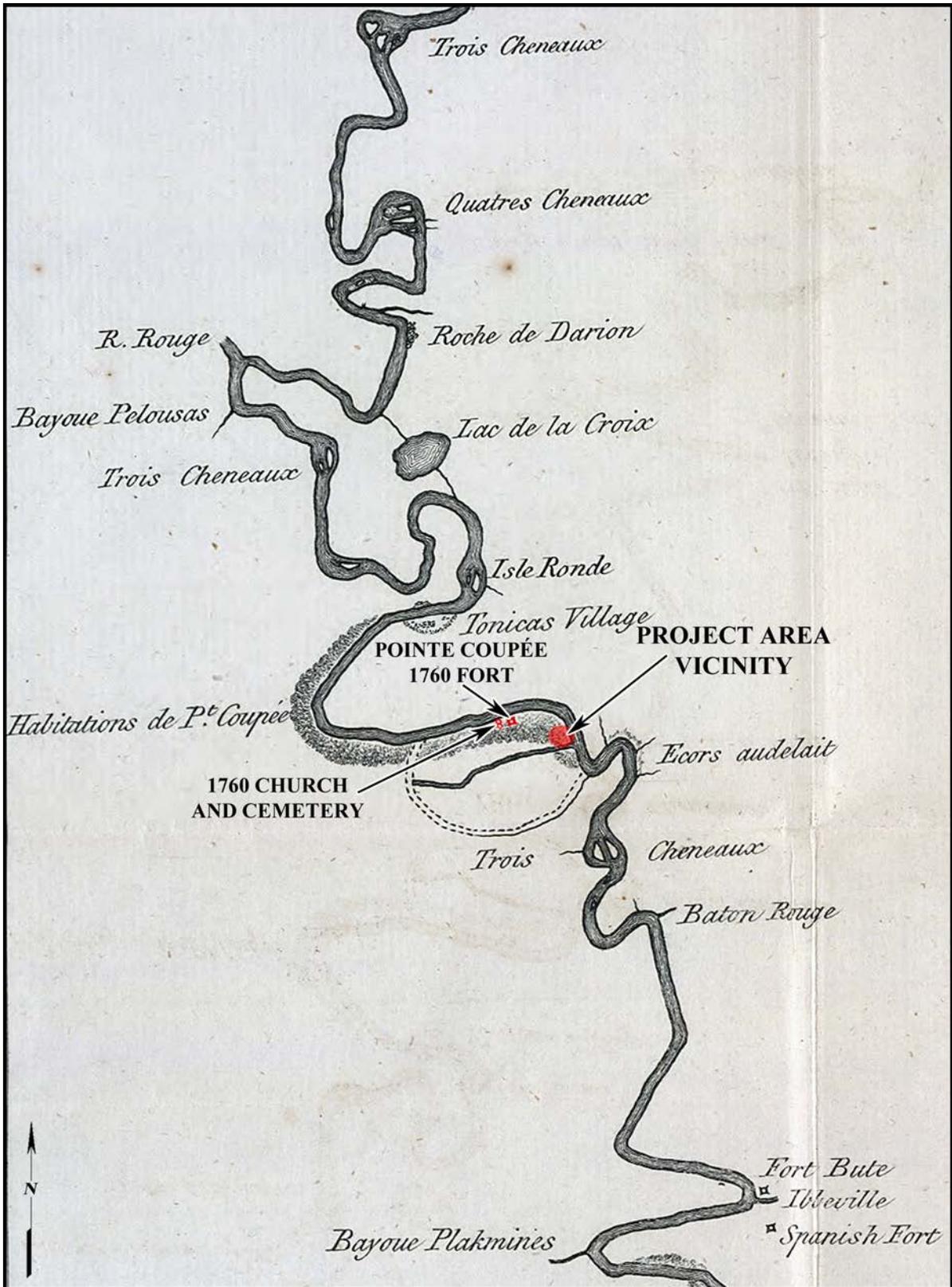


Figure 3-10. Detail of Philip Pittman's (2010) 1770 *A Draught of the Mississippi [sic] River*, which was based upon his 1764–1767 observations. Note the locations of the 1760 Pointe Coupée fort and church.

1983:162), approximately 2 km (1.24 mi) above Bayou Sara. The 1760 fort would have been located immediately downstream. Both were located well outside of the project area.

Nearer the project area, the surrounding lands would have almost certainly been under private ownership by the mid eighteenth century. While the project area itself was likely farmed during the early French colonial period, most property improvements (i.e., dwellings, barns, outbuildings, etc.) would have been located very close to the Mississippi River and would now lie in the river or under the levee and its batture, at least in the project area vicinity. Cash crops during this period consisted primarily of tobacco and indigo, though poultry, squared timber and staves were also important products (Pittman 1973 [1770]:34).

Spanish Colonial Period, 1763–1803

As a result of the Seven Years' War (also known as the French and Indian Wars), the secret 1762 Treaty of Fontainebleau and the subsequent 1763 Treaty of Paris, Great Britain acquired the colony of Florida as well as that part of Louisiana located north of the Isle d'Orleans and east of the Mississippi from France. For her part, Spain received title to the remainder of Louisiana, including the Isle d'Orleans and the present project area. Separating the new Spanish and English colonies were the Mississippi River and Bayou Manchac (see Figure 3-9). Governance of Great Britain's new holdings in present-day Louisiana was made through Pensacola, the British capital of West Florida. The Spanish colonial capital, meanwhile, was in New Orleans (Wall et al. 2002:57-58).

Spain was slow to take possession of Louisiana. In fact, it was not until 1766 that the first Spanish governor, Don Antonio Ulloa, arrived there. Unable to enforce Spanish rule on his French subjects, Ulloa had very little real control over Louisiana, and in October 1768 the Superior Council of Louisiana ordered Ulloa to leave the colony. Spanish control was not firmly established in the colony until the arrival of General Alejandro O'Reilly in August 1769, largely because O'Reilly arrived in New Orleans with a force of about 2,000 soldiers (Wall et al. 2002). After quelling the resistance to Spanish rule, O'Reilly turned over control of the colony to Governor Luis de Unzaga y Amezaga and returned to Cuba. Following the

arrival of O'Reilly, 169 residents of Pointe Coupée, presumably all male land holders, signed an oath of allegiance to the Spanish crown (Costello 2010:28). The Pointe Coupée settlements and the French fort located there, which was subsequently occupied by the Spanish, were referred to by the Spanish as "Punta Cortada" (Casey 1983:162).

As Point Coupée was already densely settled by the mid-eighteenth century (at least by colonial standards), few new arrivals moved into the area during this period. Those that did were generally of French extraction. Though under Spanish rule, very few Spaniards moved into the area during the late eighteenth century. Even fewer Acadians moved there following their 1765 arrival in the colony. As such, Pointe Coupée maintained its strong French heritage through the Spanish colonial period (Costello 2010:35-38).

By 1777, Louisiana was becoming increasingly involved in the American Revolution. While the Spanish government sympathized with the Americans and secretly provided a base of supply for them in New Orleans, Spain did not enter the conflict until 1779. That fall Bernardo de Galvez captured the British fort at Baton Rouge, and with it received the surrender of the fort at Natchez (Wall et al. 2002). Participating in the attack was the Pointe Coupée militia (Costello 2010:41). The following spring Galvez captured Mobile, and in the spring of 1781 he added the last of the major British forts in West Florida—Pensacola. As a result of the 1783 Treaty of Paris, which ended the American Revolution, Spain gained control of West Florida. With this, the Mississippi River ceased to be an international boundary at Point Coupée.

While Spain maintained the 1760 French fort through the 1770s and 1780s, it was not necessarily kept in good repair. It fell into increasing disrepair after 1779 as Spain had then acquired control over West Florida on the opposite bank of the Mississippi River. Indeed, by 1783 the fort was already said to be in ruins. Later, French General Victor Collot wrote that scarcely a trace of the fort remained in 1796 (Casey 1983:162-163).

Though the French never specified the precise location of their 1733 fort, a February 1789 report noted that the Spanish fort included eight buildings that had been "erected about

fifty years ago” (Casey 1983:163). Hence, it would seem that the Spanish fort incorporated the earlier 1733 fort, which may or may not have also been incorporated into the 1760 fort.

When cartographer George Gauld (2012 [1778]) completed his *A Plan of the Coast of Part of West Florida & Louisiana: Including the River Mississippi from its Entrances as high up as the River Yazous* (Figure 3-11) based on information that he gathered in 1774, he depicted a “Post” and church on the west bank of the Mississippi River a short distance upriver of the mouth of “Clapboard Creek.” As noted above, the French Riviere a la Chaude pisse became the English Clap River, which then became Clapboard Creek (see Figures 3-4, 3-9 and 3-12) before finally being renamed Bayou Sara. Gauld’s 1774 placement of the church, and fort, matches the 1860 property description very well, though it is slightly upstream of that depicted by Ross based on his 1765 observations (compare Figures 3-9 and 3-12). Presuming that the 1789 description did indeed refer to the 1733 fort and that Gauld’s 1774 placement was correct, it would seem that the Pointe Coupée fort and church were located a short distance upriver of Bayou Sara throughout that period, well outside of the project area.

Further upstream, Gauld (2012 [1778]) noted the presence of two “Offagoula” villages on the Mississippi River, just upstream from the Pointe Coupée settlements (see Figure 3-11). The Ofogoula (Ofo) were one of the *petites nations* closely tied to the French during colonial times. At the time of initial contact in the late 1600s, they were found in southern Illinois, from whence they were driven down the Mississippi Valley by hostile Iroquoian groups. At the time of the 1729 Natchez massacre, they resided in the Yazoo Basin, but refused to aid the Yazoo and Koroa in attacks on the French. Fearing reprisals, they subsequently moved downriver to live near their allies, the Tunica (see Figure 3-11), and to be closer to the protection of the French. The Ofogoula were eventually absorbed into the Tunica in the Marksville area. Their presence in the Lower Mississippi Valley was never strong, and numbered between 12 and 15 warriors in the middle to late 1700s (Swanton 1946:165-166).

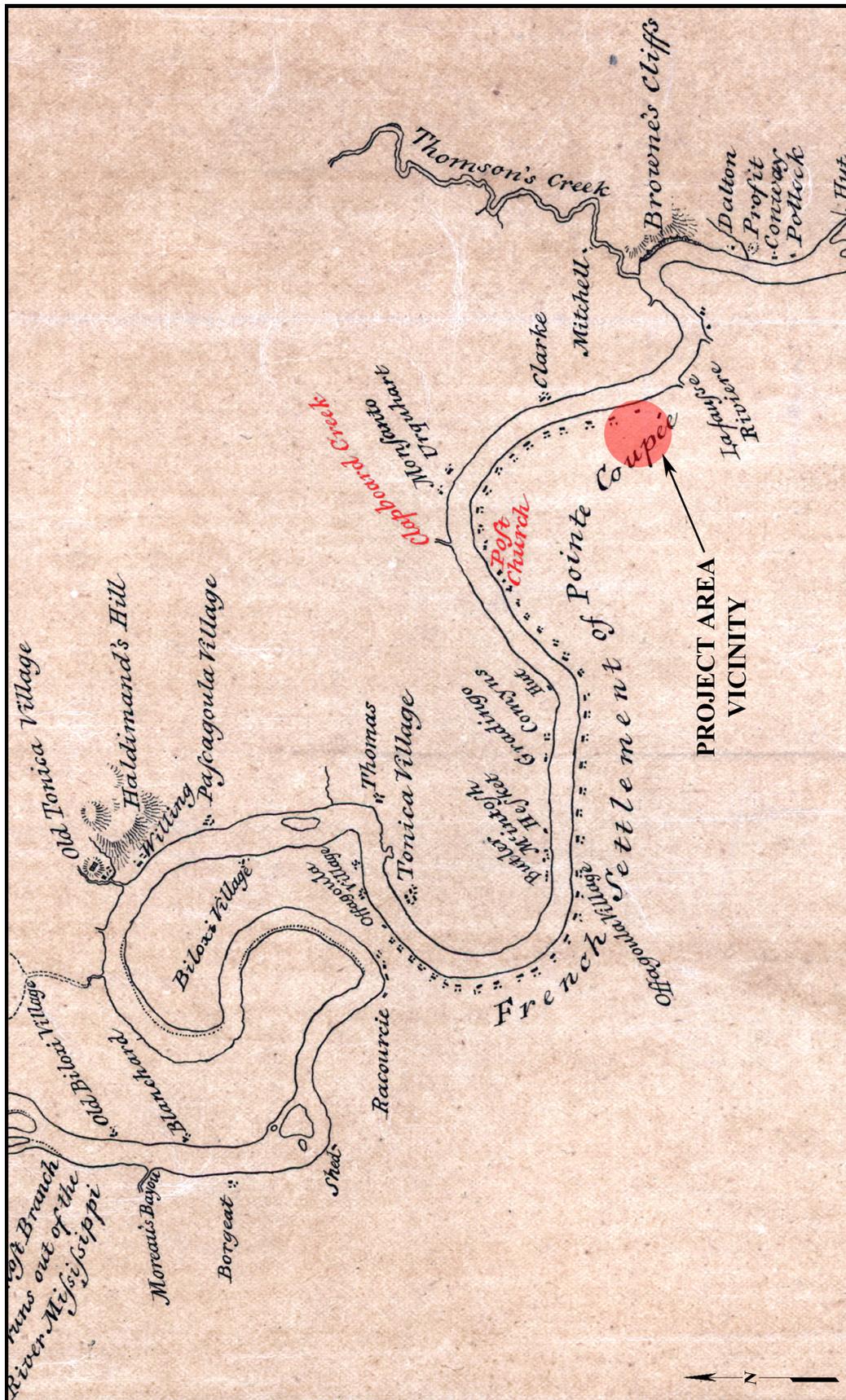


Figure 3-11. Detail of George Gauld's (2012) 1778 A Plan of the Coast of Part of West Florida & Louisiana, which was based upon his 1774 observations. Note the relative locations of the 1760 Pointe Coupée fort and church.

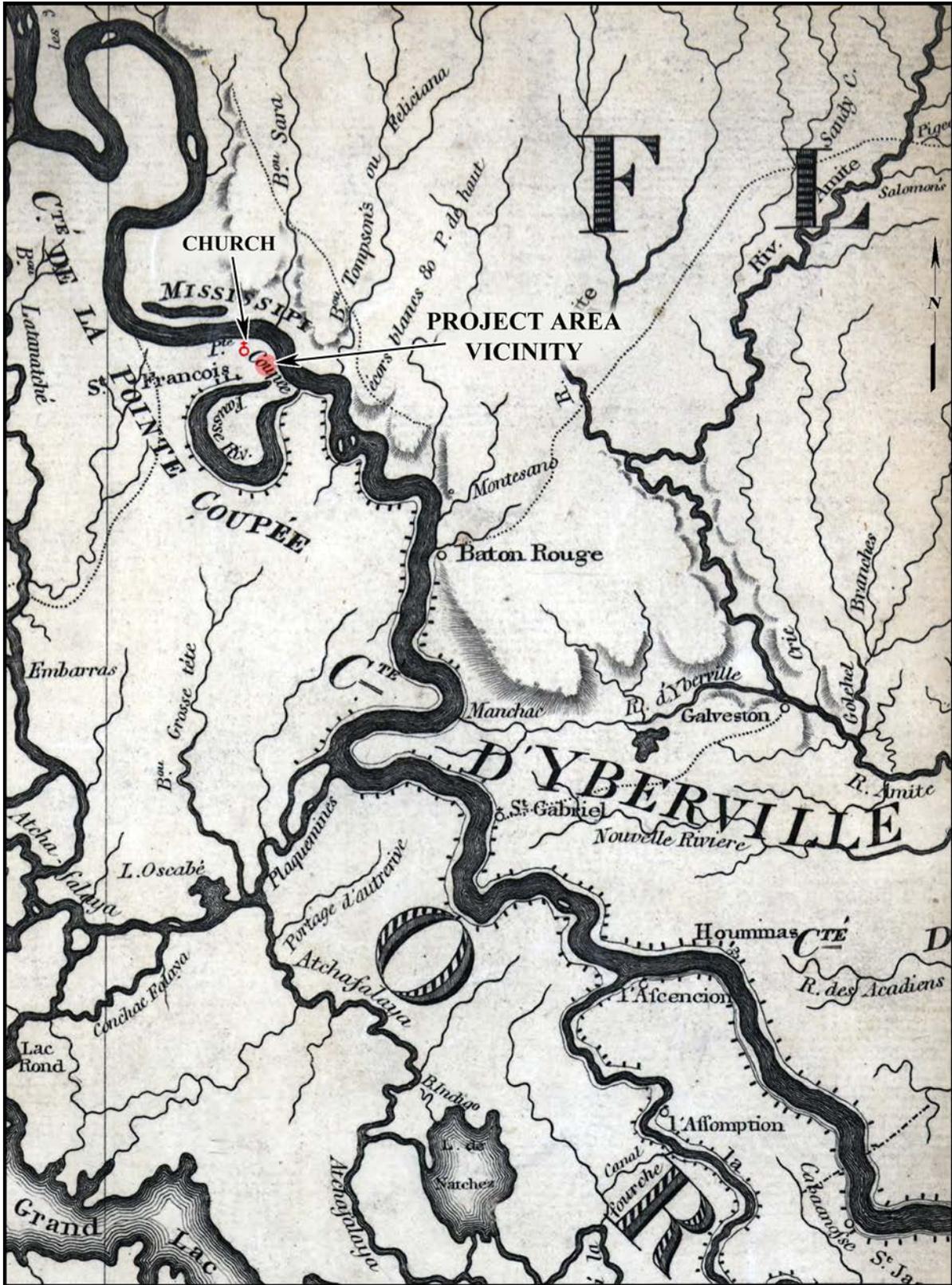


Figure 3-12. Detail of Barthélémy Lafon's (2010) 1806 *Carte Générale du Territoire d'Orléans Comprenant aussi la Floride Occidentale et une Portion du Territoire du Mississipi* depicting the project area environs.

Tobacco and indigo remained important crops in Point Coupée during this period. Crop failures due to disease and insect infestations, combined with falling prices during the 1790s, however, led to the abandonment of indigo in favor of cotton and sugarcane (Fortier 1909:I:589). All of these cash crops required slave labor for their successful harvest. In 1795, rumors of a planned slave revolt led to the hanging of 23 to 26 slaves; others were sentenced to hard labor (Holmes 1970). Protecting both lives and property in Pointe Coupée was a continuous man-made levee, which extended from the vicinity of present-day Morganza downriver beyond New Orleans by 1796 (Collot 1826:II:71). This early levee would certainly have passed through the frontage of the present project area.

Spain retained possession of Louisiana until October 1800 when the colony was ceded back to France under the secret Treaty of San Ildefonso. News of the transfer was not immediately made public, however, and Spanish officials remained in control of the colony until 30 November 1803 when it was formally transferred to French Governor Pierre-Clement de Laussat. Before Laussat even confirmed France's control of Louisiana, however, news of France's sale of the colony to the United States began reaching New Orleans. Laussat's governorship was a brief one as he transferred Louisiana to the United States on 20 December 1803, only 20 days after the colony's transfer to France. Although neither treaty included specific boundaries, it was ultimately determined that Louisiana consisted of all of France's colony west of the Mississippi River and the Isle of Orleans. Spanish West Florida, meanwhile, remained under Spanish control until 1810. As a result, the Mississippi River at Point Coupée once again became an international boundary. Despite Spain's 37 year rule, Louisiana's culture was still predominantly French—though with some traits contributed by other, largely assimilated, groups (Laussat 1978:78-88; Wall et al. 2002:85-87).

American Period, 1803–DATE

The Antebellum Years, 1803–1861

The newly arrived American administration brought many changes to Louisiana. In March 1804, Congress established the Territory of Orleans, which encompassed all of the present state of Louisiana west of the Mississippi River. That portion of the former French colony north of the thirty-third parallel, meanwhile, became the District of Louisiana. A superior court having three judges was formed, and a legislative council was designated. Among the many acts passed before the first legislative council in April 1805 was one that divided the territory into twelve counties—Natchitoches, Rapide, Opelousas, Attakapas, Ouachita, Pointe Coupée, Orleans, Côte des Allemandes, Côte d’Acadie, Lafourche, Concordia, and Iberville (Whittington 1970:49-51). With the exception of the County of Concordia, none had specific boundaries. In March 1807, the territorial legislature reorganized the 12 counties of the Territory of Orleans into 19 civil parishes, which were largely based on Spanish colonial era ecclesiastical parishes. While the new parishes were used to fulfill judicial purposes, the 12 original counties were maintained for legislative and taxation functions (Calhoun and McGovern 2007:224).

In 1804, Pointe Coupée slave owners feared that area slaves were plotting an uprising. In response, they asked Orleans Territory Governor W.C.C. Claiborne to station troops there, which was soon accomplished. The 30 soldiers remained there, however, only until 1806 when they were removed, at which time the American fort was turned over to resident Charles Morgan. The American fort was likely located at or very near the site of the earlier Spanish fort (Casey 1983:163). The most detailed map of the area drawn during this period is Barthélémy Lafon’s (2010 [1806]) 1806 *Carte Générale du Territoire d’Orléans Comprenant aussi la Floride Occidentale et une Portion du Territoire du Mississipi*, (Figure 3-12). While depicting the church, Lafon’s map does not depict the American fort.

Chafing under Spanish control, unrest among the American settlers residing across the river in Spanish West Florida came to a head in 1810. In the early morning hours of

23 September 1810, 75 members of the revolutionary West Florida militia quietly entered Fuerte San Carlos in Baton Rouge by following a cow path up from the river, passing through an opening in the palisade, and thence onto the parade ground without being challenged by Spanish sentries. After a short skirmish, the revolutionaries captured Spanish Governor Carlos de Hault de Lassus and the garrison of the fort without any losses to themselves (Meyers 1976:93-94).

Upon the fall of the fort, the rebels proclaimed West Florida as an independent republic. The sovereignty of the republic was short lived for arrangements were immediately made for the new republic to become part of the United States. On 7 December 1810, the four hundred men of the army of West Florida marched out of the fort and were replaced by U.S. troops under the command of Colonel Leonard Covington (Casey 1983:18). With this, the United States acquired all of Spanish West Florida, which soon became known as the County of Feliciana. Two years later, Louisiana joined the United States as the eighteenth state of the Union (Calhoun and McGovern 2007:112; 225). Hence, the Mississippi River was no longer an international boundary, and there was no reason to maintain defensive works there.

With the transfer of the colony of Louisiana to the United States in December 1803, it became necessary for landowners to prove legal title to their property. Over the following years and decades, surveyors tried to determine the limits of each parcel and who actually owned the property when the colony was acquired by the United States. In many cases, this was quite difficult, as many properties had been divided, subdivided, and put back together again over the years between 1803 and when the properties were finally surveyed. This was particularly true when the property was passed down through families as these transfers were seldom recorded during the colonial period. Pointe Coupée was no exception.

The initial surveys of Pointe Coupée were conducted in 1805 (Costello 2010:54). Examination of original claims documents and area plat maps, housed at the Louisiana State Land Office in Baton Rouge, indicate that the first surveys conducted in the project area vicinity were completed in 1806. Others were not made until 1812. Based upon these initial claims and surveys (Figure 3-13), Section 6 was claimed by François Barras; Section 7

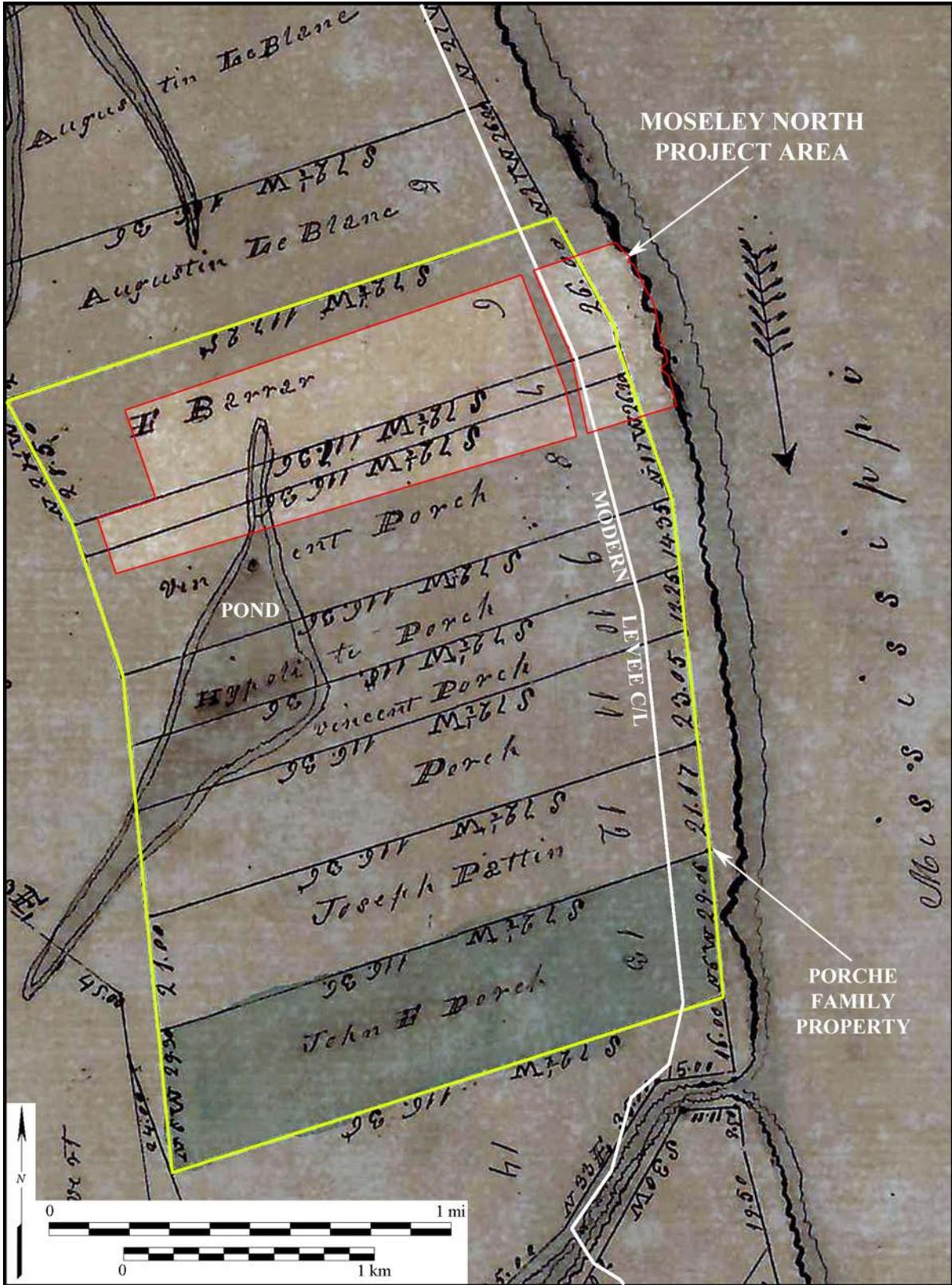


Figure 3-13. Property owners in the Moseley North project area in circa 1803 (Rightor 1829). Note that the project area makes up only a small part of the Porche family holdings.

(which was later subsumed into Section 8) was determined to be a public lot and was claimed by Collins and Connelly; Sections 8 and 10 were claimed by Vincent Porche; Section 9 by Hypolite Porche; Section 11 (which was later subsumed into Section 10) was claimed by Simon Porche; Section 12 by Jean Joseph Patin; and Section 13 by Jean François Porche (Claim Papers, South Eastern District—West of River, Large Book #2, Louisiana State Land Office, Baton Rouge, Louisiana; Claim Papers, South Eastern District—West of River, Small Book #3, Louisiana State Land Office, Baton Rouge, Louisiana; Rightor 1829). All of these properties are within Township 4 South, Range 11 East, Southeastern District (West of the Mississippi River).

Among the early French settlers at Pointe Coupée was Vincent Porche, who married Marie Françoise Poche there in November 1745. Among their many children were Marie Augustine Porche (born 6 November 1750), Jean François Porche (born 13 February 1756), Vincent Alexis Porche (born 26 April 1761), Simon Porche (born 18 July 1758), Genevieve Porche (born 23 August 1766) and Hypolite Porche (born 13 September 1769). On 1 August 1769, Marie Augustine Porche married Jean Joseph Patin, and on 29 September 1796, her sister Genevieve Porche married François Barras (Diocese of Baton Rouge 1980:602, 2002:144-146).

Hence, all of the landowners in the project area vicinity were siblings or in-laws, with the exception of Collins and Connelly. As such, it is likely that all of these properties were once owned by Vincent Porche, the progenitor of the Porche family, who eventually subdivided his property among his children. When Porche may have acquired the approximately 57.5-arpent (one arpent is the equivalent of 191.83 ft or 58.47 m) front property is unknown, but it was presumably about the time of his 1745 marriage to Marie Françoise Poche.

As initially surveyed, the Moseley North project area would have included portions of Sections 6, 7 and 8 (see Figure 3-13). It was soon determined, however, that Sections 7 and 8 were subdivided subsequent to the 1803 Louisiana Purchase. As a result, Section 7 was subsumed by Section 8 and accorded to Vincent Porche (Figure 3-14). Section 6,

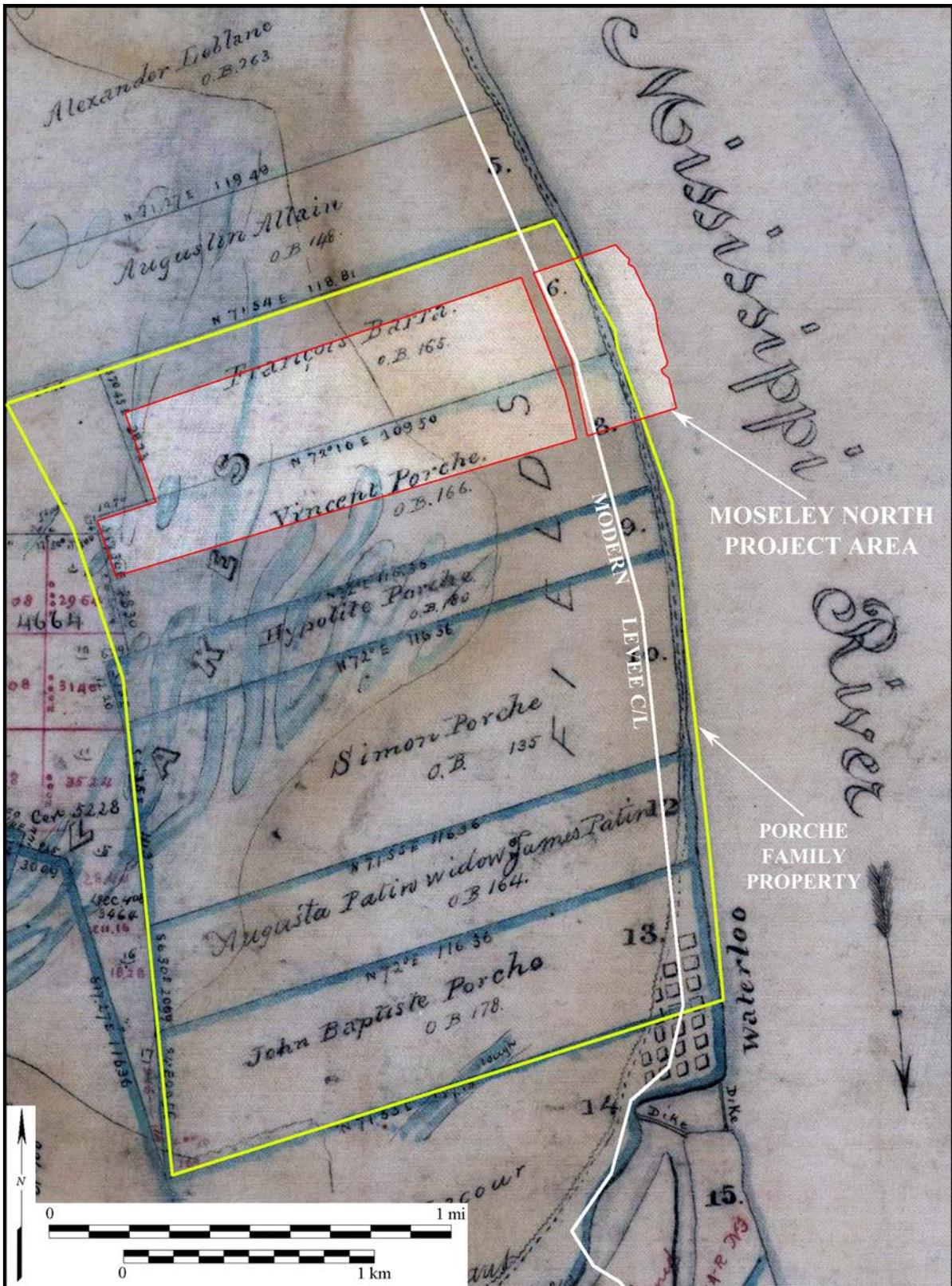


Figure 3-14. Corrected plat map of the Moseley North project area and vicinity (de Culloh 1858). Note that only the frontage the project area had been placed under cultivation.

meanwhile, was assigned to Porche's brother-in-law François Barras (de Culloh 1858). Barras' property contained 329.29 ac, Porche's 363.74 ac (Lowrie 1834:II:305).

Even though the property had been privately held since at least the mid eighteenth century, only the front halves of Sections 6 and 8 had been cleared by 1829 (de Culloh 1858). Barras' and Porche's fields were limited in extent as the back portions of their property consisted of ridges and swales. Those areas were characterized in 1829 as "Lakes" (see Figure 3-14) and were not amenable for cultivation. The front of Porche's property, however, was devoted to sugarcane by 1829. In that year, Vincent Porche produced 22 hogsheads of sugar (Degelos 1892:65). As he did not produce any sugar in 1828, it is possible that he began converting his fields to that crop about that time. Barras, however, did not produce any sugar and may have been growing cotton and other crops. Alternatively, Barras may have been processing his sugarcane at his brother-in-law's sugarhouse. Given the limited area suitable for agriculture, any improvements made by Barras and Porche at that early date were undoubtedly limited to that area nearest the contemporary Mississippi River levee. The levee has since been setback several times in this area, and most of their improvements probably lay between modern-day River Road (LA 981) and the Mississippi River.

While sugarcane had been grown in Louisiana for many years, it had been used primarily for the production of syrup and taffia (a type of low-grade rum). It was not until a successful technique for granulation was introduced in about 1795 that it became economically attractive to cultivate cane (Rehder 1971). By 1800, at least 75 planters in the New Orleans area were engaged in sugar planting (Schmitz 1977:13), and over the next several years the cultivation of sugar spread over much of the alluvial lands in the southern part of the state. Sugarcane production was given a considerable boost in 1803 when Louisiana was acquired by the United States. Unlike Spain and France, the United States had no other colonies or territories that produced sugar, and the expanding country provided an enormous market for Louisiana sugar. The high price of sugar, coupled with a high tariff, lured many potential planters into the sugar industry and, hence, to Louisiana (Rehder 1971:66-67). Favorable soils and climate, combined with close proximity to the market in

New Orleans via the Mississippi River, offered an ideal environment for sugarcane production in the study region.

Still, the earliest sugarcane stock was not sufficiently hardy to endure the cooler winters north (upriver) of New Orleans, thus rice, as well as cotton, dominated the area until the 1820s. Much of the expansion in sugar cultivation occurred after 1817 with the introduction of a new sturdier strain of cane from Georgia by John J. Coiron. This new variety, known as Ribbon cane, withstood cold better and required less care in cultivation than had the Malabar, Otheite, and Creole strains which were then being grown (Schmitz 1977:13). By the late 1820s, the sugar region came to include the lands along the Mississippi River from Plaquemines Parish to Point Coupée Parish, as well as the areas along the natural levees of Bayous Barataria, Teche and Lafourche. Hence, Vincent Porche's Pointe Coupée sugar plantation was among the earliest sustained sugar plantations in that area. Indeed, it is possible that he began growing cane as early as 1816 as a "Porche" in the vicinity of Waterloo is known to have attempted sugar production at that early date. As it is not clear which Porche near Waterloo grew cane in 1816, however, it is possible that that honor belongs to Vincent's brother Jean François Porche (Costello 2010:60) in Section 13 (see Figure 3-14).

In 1820, 48 people lived on Vincent Porche's plantation, 38 of them slaves and nine free people of color. The later included Adelaide Carmouche and her and Vincent's children (Bureau of the Census, United States of America [Census Bureau] 1820). Porche died in 1829 and may have married Carmouche just before his death. Operation of the sugarhouse, apparently fell to one of their sons—Alexis Porche (Costello 2010:103; DOBR 2002:143). In 1831, Alexis produced 47 hogsheads of sugar (Degelos 1831). By 1844, however, sugar was no longer being produced there (Champomier 1845). While no sugar was produced on the plantation, it is possible that sugarcane grown there was merely ground at a nearby sugarhouse. It is not known what crops were produced on Section 6 during this period.

By 1851, property ownership in the project area seems to have been split between Antoine Poulaine and Adelaide Carmouche (Humphreys and Abbott 1858) (Figure 3-15). As

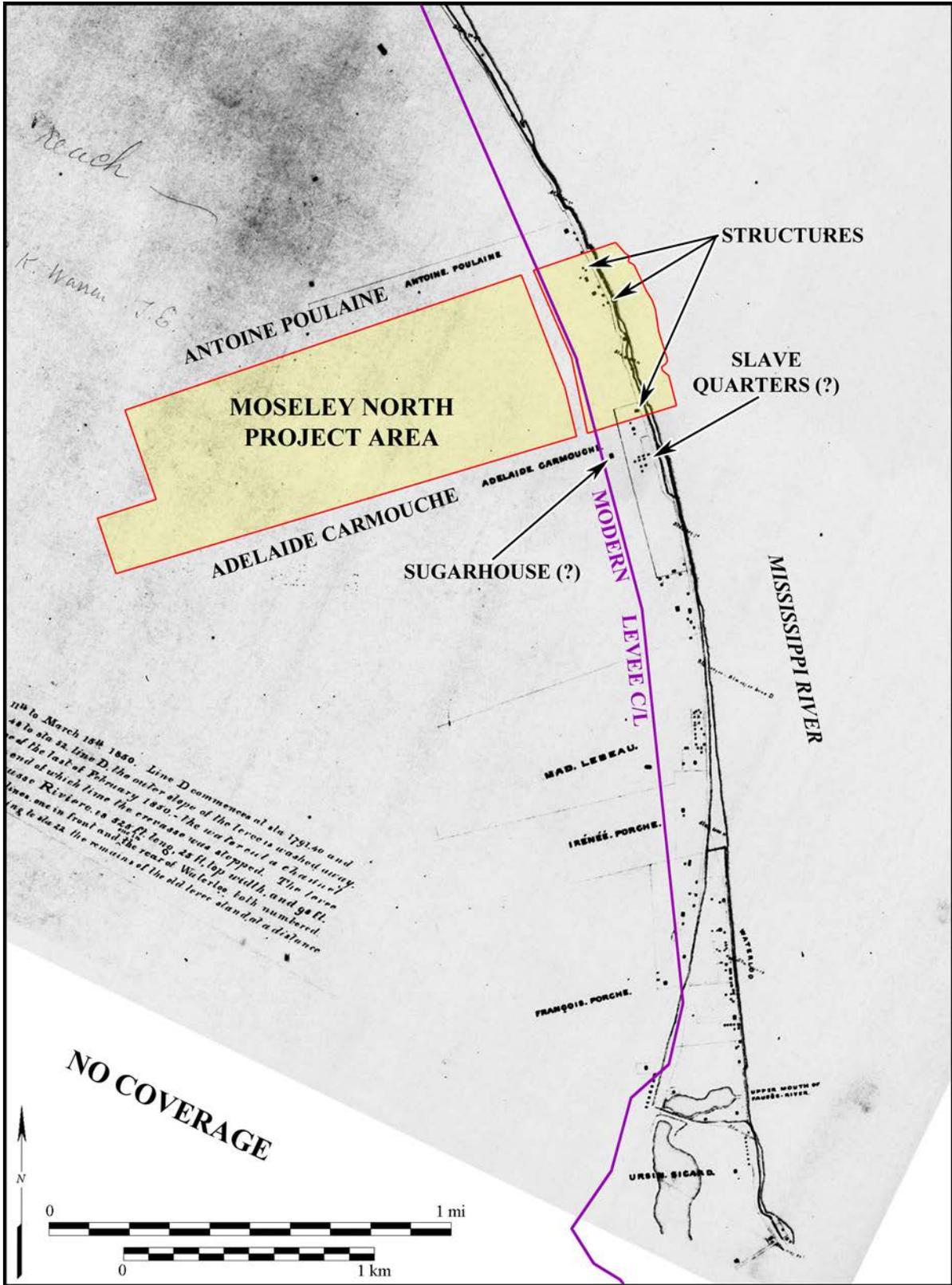


Figure 3-15. Detail of Humphreys and Abbot's (1858) 1851 *Mississippi River from Red River Landing to Carrollton* depicting the project area vicinity. Note the structures on the riverfront.

noted above, Carmouche was the mother of Vincent Porche's children. A free woman of color, Carmouche likely remained on the property for many years after Vincent's death. While the extent of Carmouche's property is unknown, it appears to have included the lower portion of Section 8, all of Section 9, and the upper portion of Section 10. Poulaine apparently held the remainder of Section 8 along with Section 6. Within the project area in 1851 were a number of structures, particularly within the limits of Section 6. All of those improvements hugged the Mississippi River (see Figure 3-15). Most of the improvements then on Carmouche's property lay south of the present project area, and may have included a sugarhouse (see Figure 3-15).

A. Persac's 1858 *Norman's Chart of the Lower Mississippi River from Natchez to New Orleans* indicates that the upriver half of Section 6 belonged to A. Pollard (possibly Antoine Poulaine) and the downriver half to E. Barra (possibly a relative of Vincent Porche's brother-in-law François Barras) by this time. Powell's 1859 *Map of the Parishes of Pointe Coupée, West Baton Rouge and Iberville Including Parts of the Parishes of St. Martins and Ascension, Louisiana* shows Section 6 split into thirds of over three arpents each. The upriver third belonged to P. Pollard, a free man of color, the middle third to Miss Cadause Porche, and the lower third to Mrs. A. Hebert (Figure 3-16). Ewing M. Chapman owned all of Section 8 by this time (see Figure 3-16). As none of these people are listed in the sugar records for these years, they were likely growing other crops, and/or possibly having their cane ground on Woodbourne (also Woodburn) Plantation to the immediate north, or the LeBeau Plantation just downriver above Waterloo. In 1859, three buildings stood on the riverbank in Section 8 where Chapman was operating a wood yard (see Figure 3-16) (Persac 1859; Powell 1859). By 1883, the encroaching Mississippi River had forced the abandonment of all riverbank improvements on Sections 6 and 8, and a levee was built in their place (Mississippi River Commission [MRC] 1883) (Figure 3-17). Its construction undoubtedly impacted those building sites.

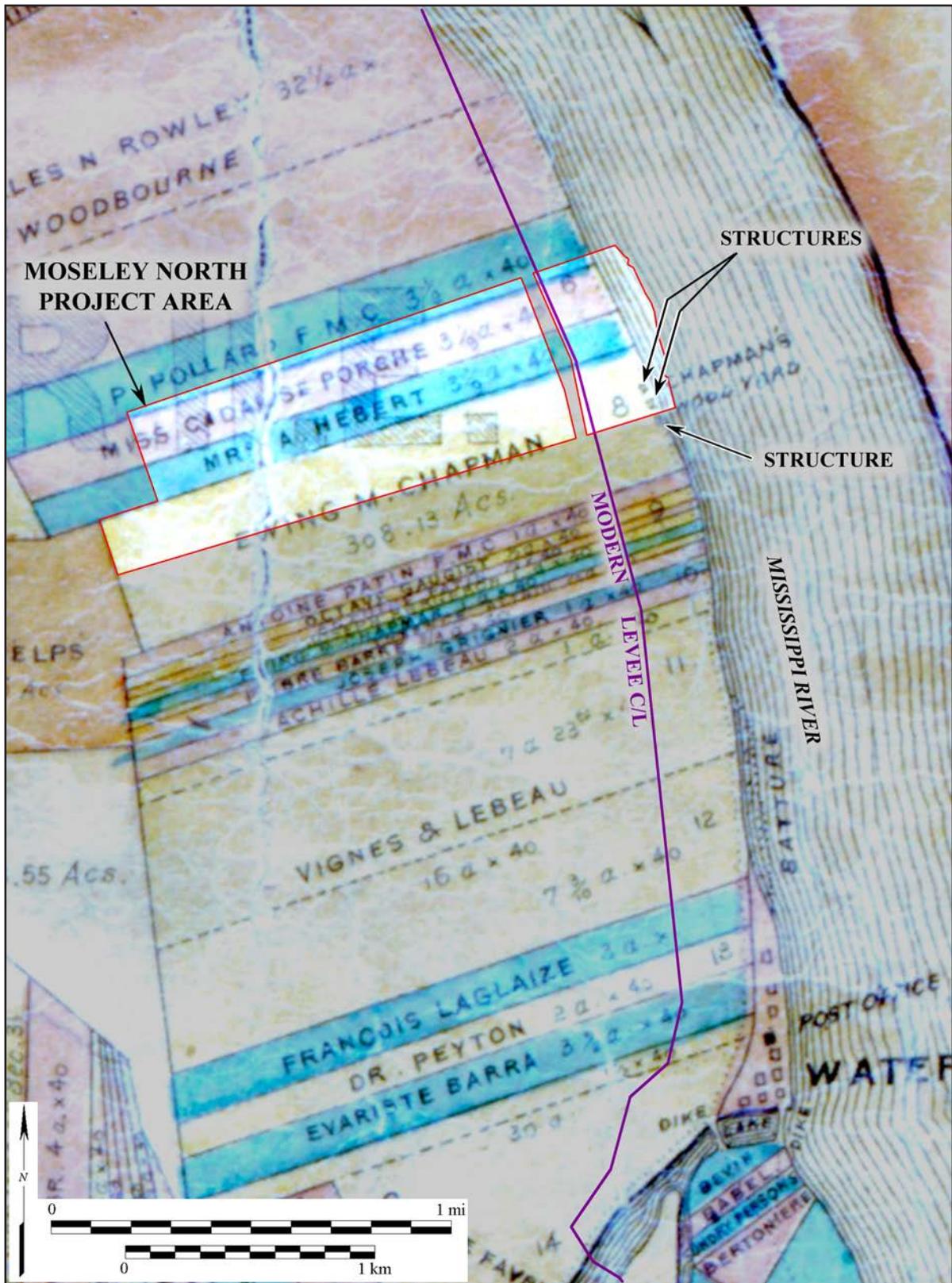


Figure 3-16. Detail of Andrew Powell's 1859 *Map of the Parishes of Pointe Coupée, West Baton Rouge and Iberville Including Parts of the Parishes of St. Martins and Ascension, Louisiana* depicting the project area vicinity. Note the wood yard in Section 8.

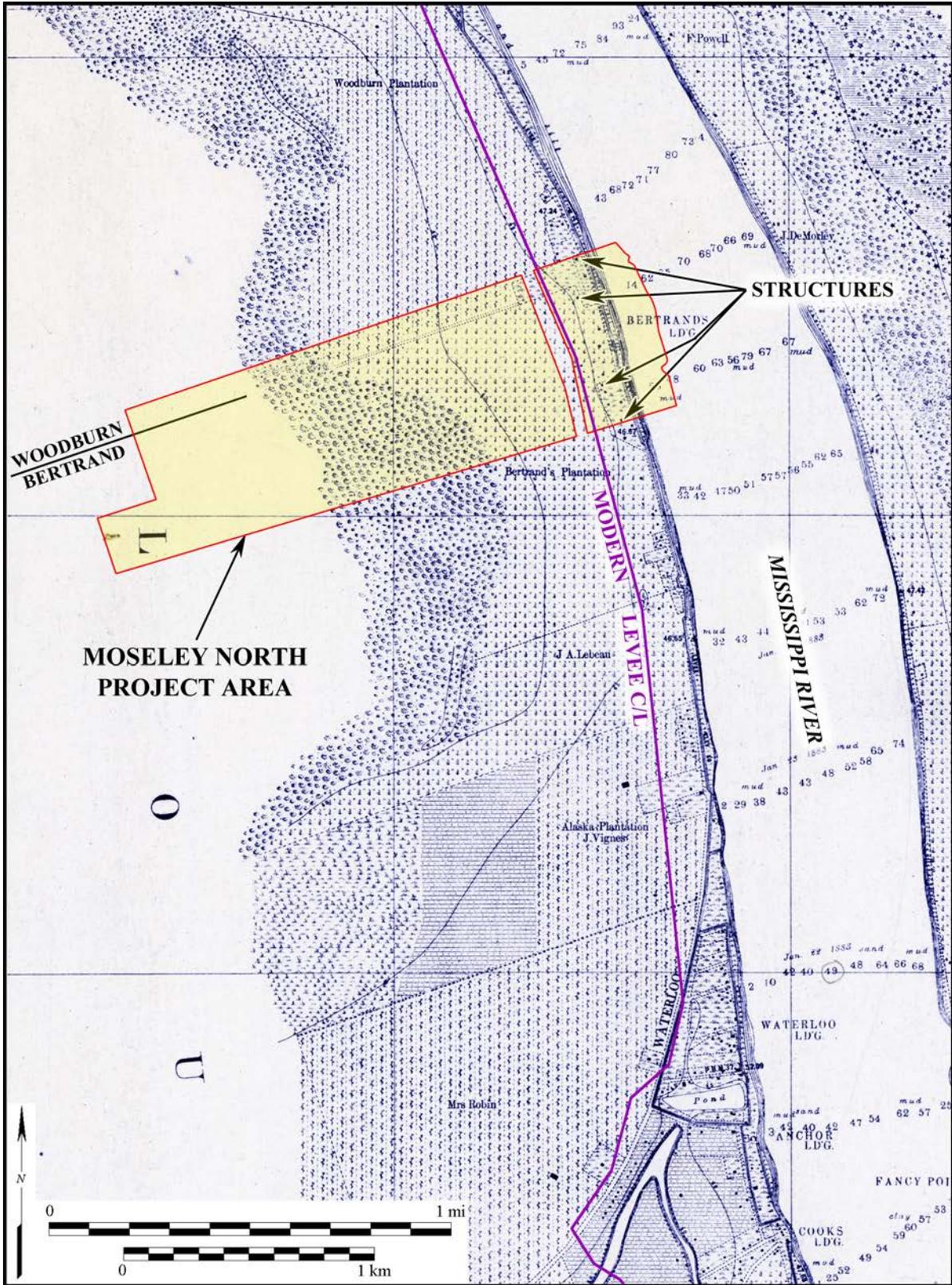


Figure 3-17. Detail of the Mississippi River Commission's (1883) 1883 Survey of the Mississippi River depicting the project area, most of which then formed part of Bertrand Plantation.

Civil War, 1861–1865

Outside events were to strongly affect Louisiana in the mid nineteenth century. In 1860, Abraham Lincoln was elected President of the United States. In January 1861, Louisiana Governor Thomas Overton Moore led a special legislative session in Baton Rouge, at the conclusion of which the state seceded from the Union. Moore quickly took over all federal property within the state and rapidly allied Louisiana with the Confederate States of America (Wall et al. 2002:188).

On 12 April 1861, less than three months after Louisiana seceded from the Union, Confederate forces under the command of Louisiana native Brigadier General Pierre Gustave Toussaint Beauregard opened fire on Fort Sumter in South Carolina. The Union garrison surrendered two days later (Hearn 1995:29). A week later, President Abraham Lincoln ordered blockades to be enforced around southern ports, including New Orleans (Blume 2002:241).

Despite the importance of New Orleans to the Confederacy, it was not until October of 1861 that Major General Mansfield Lovell was sent to New Orleans to organize the city's defenses. Lovell, though capable, was hampered by Jefferson Davis' insistence that the naval fleet at New Orleans was not under his command. When Lovell arrived in New Orleans on 17 October 1861, he found that the city had been virtually stripped of all war materiel. With Union forces tightening their control on the river, Lovell found it very difficult to resupply his stores. Further hampering his defense efforts, construction of the Confederate ironclads *Louisiana* and *Mississippi* at Algiers was behind schedule. In addition, Lovell was ordered to send Louisiana's troops to surrounding states, troops he desperately needed to defend the Crescent City. Not provided command of the Confederate Navy fleet, Lovell was, instead, ordered to seize 14 steamboats for the formation of the River Defense Fleet in January 1862. Despite Lovell's efforts, Flag Officer David Glasgow Farragut led the Union Navy past Forts Jackson and St. Phillip in Plaquemines Parish on 24 April 1862 (Dufour 1982:257, 265, 268-269; Hearn 1995:123). Farragut arrived in New Orleans on 25 April and wrote that "The levee of New Orleans was one scene of desolation, ships steamers, cotton, coal, etc. were all in one common blaze" (Dufour 1982:270).

Despite the fact that nearby Port Hudson was the site of one of the pivotal battles of the Civil War (Figure 3-18), there was only limited action in Pointe Coupée Parish. In proximity to the project area, Bayou Sara, in West Feliciana Parish across the river, probably saw the most conflict. On 10 August 1862, the U.S. gunboat *Essex* shelled the town while a small landing party set it ablaze. The Union navy continued to harass Bayou Sara for a period of two weeks, during which time the U.S. ram *Sumter* was burned (14 August), and Bayou Sara was shelled and burned (23 and 24 August 1862). Nine months later, on 22-23 May 1863, Federal troops under the command of Nathaniel P. Banks crossed the Mississippi River at Bayou Sara on their way to lay siege to Port Hudson (Howell 1989:33-34). By that time, Bayou Sara was virtually leveled from shelling by Union gunboats (Winters 1963:241). Located only a short distance downstream from Bayou Sara, residents of the project area and vicinity undoubtedly clearly heard the sounds of battle.

On 16 June 1863, the U.S. gunboat *Albatross* shelled the town of St. Francisville. Two weeks later the town was shelled again, during which time several houses were damaged. On 16 January 1864, St. Francisville was shelled once again, this time by the gunboat *Lafayette*. Confederate troops remained in the area until late in the war, firing on the steamers *White Cloud* and *Henry Chouteau* from Bayou Sara on 29 August 1864 (Howell 1989:33-36). During the following months, several skirmishes occurred at Bayou Sara and in the St. Francisville vicinity, none of which could be considered as major actions.

Pointe Coupée itself saw comparatively little action during the Civil War. During March 1863, Federal troops under the command of Captain J.M. Magee raided the area and burned or otherwise destroyed a variety of stores, buildings, and crops. Two months later Union troops under the command of Nathaniel P. Banks transited the Mississippi River from Pointe Coupée to Bayou Sara on their way to lay siege at Port Hudson (Howell 1989:33-34) (see Figure 3-18). Although several skirmishes occurred in the area throughout the remainder of the war, particularly around the Union encampment at Morganza, none were particularly destructive. The most notable was a Union raid under the command of Colonel Morgan H. Chrysler to drive Confederate guerillas out of the area. Rather than driving the

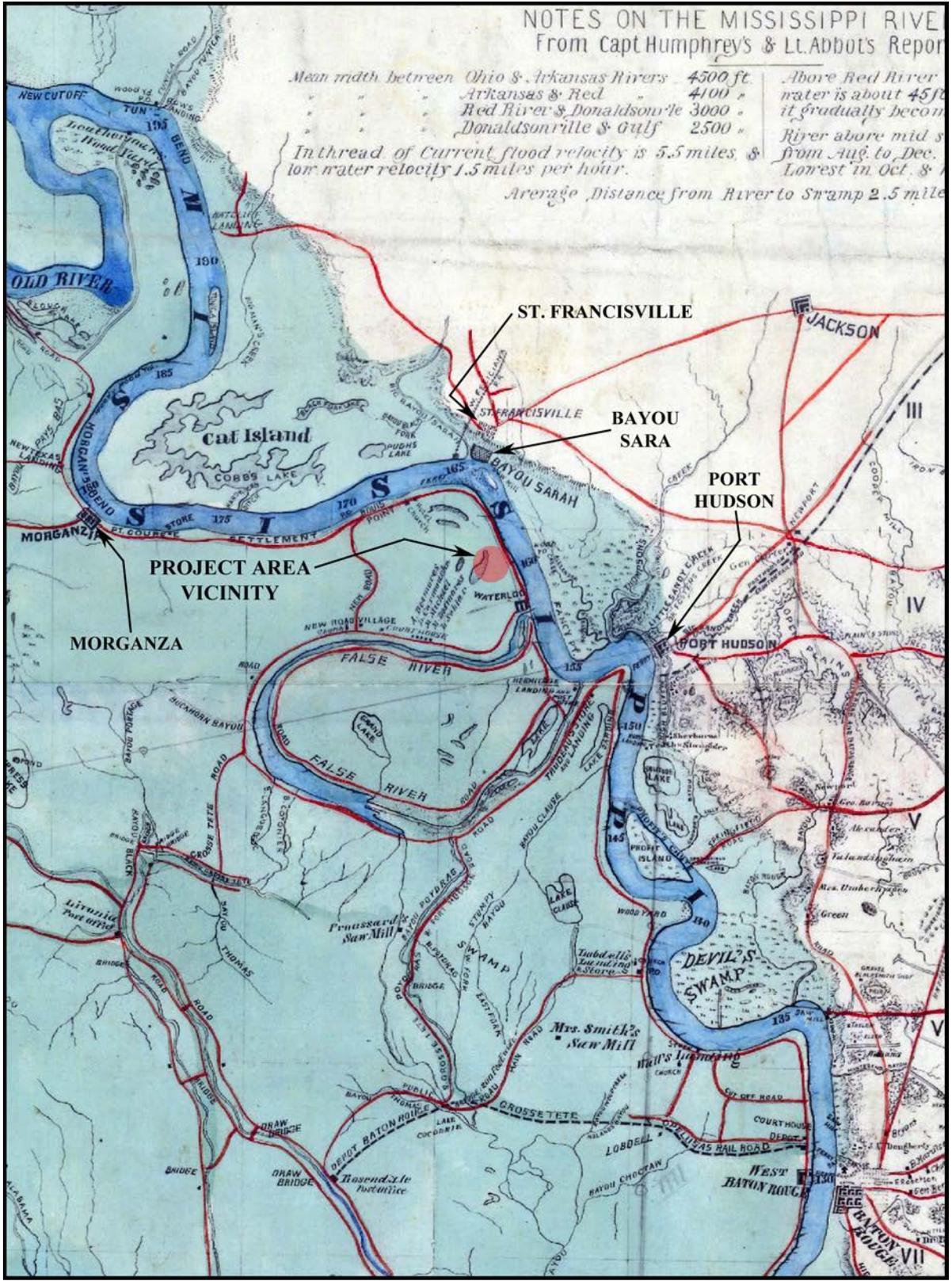


Figure 3-18. Detail of Henry L. Abbot's (2010) 1863 map entitled *Atchafalaya Basin*. Civil War engagements were fought at nearby Bayou Sara, Port Hudson and St. Francisville.

Confederates out, however, Chrysler was subjected to a variety of guerilla tactics and lost five men captured and one wounded. By comparison, the Confederates lost one killed and two captured (Winters 1963:412).

Reconstruction and the Late Nineteenth Century, 1865–1900

With the abolishment of slavery in 1865, many small and large sugar planters in Southern Louisiana struggled to make a profit or even retain their land holdings following the war. However, many planters along the Mississippi River were quick to transform the economic makeup of their plantations. For sugar and even rice growers in Louisiana, securing a reliable source of labor became one of the most difficult tasks. Although some African-Americans remained on the sugar plantations following the war, many immigrated to cities, especially those in the northeast and west, to search for a better life. Area planters throughout the region experimented with several labor options, including using Chinese workers in the sugar fields (Swanson 1975:96). Other planters, following a more racially motivated notion, abdicated for the use of Portuguese, Italians, and Germans on sugar estates. Despite these efforts, the importation of Chinese and other immigrant groups proved to be unsuccessful, and African-Americans remained the predominate source of labor for the majority of sugar estates in south Louisiana (Swanson 1975:96).

Another means that planters used to overcome the labor shortage was by using the “Share System” or sharecropping. In this case, the planter would furnish seeds, tools, and land, while the workers furnished their labor, food, and clothes. When the crop was sold, a percentage of the profits would go to expenses, a percentage would go to the laborers, and a percentage would go to the planter (Bouchereau 1872:xii). However, one clear problem with this system was that during a bad crop year, loyal laborers who had toiled in the fields for an entire season received very little or nothing in return. Furthermore, unlike in the wage system, the laborers’ profits were not paid until the end of the growing season, thus making living expenses for poor laborers difficult to come by and often forcing the laborers to use extensive credit to maintain their well being. Regardless of the labor system employed

following the Civil War, many African-Americans laborers, though no longer held in legal bondage, found their economic circumstances little improved.

Not surprisingly, sugar production fell off dramatically throughout the region during the Civil War and Reconstruction as planters lost their financial resources and their labor force (Ginn 1940:34). In response to these difficulties, some area sugar planters turned their attention to rice cultivation, as it was less expensive and less labor intensive than sugar cultivation. The rice industry expanded so quickly during the early post-bellum years that it rapidly became the most important cash crop in the state.

Like the rest of the South, Pointe Coupée was in very poor economic condition following the cessation of hostilities. The land had been devalued, the labor force had been lost, squatters occupied many areas, the levees were destroyed, and there was little or no capital to effect any changes of those conditions. By instituting tenancy and share cropping, planters were able to salvage some of their previous holdings and cotton, sugarcane, corn, pecans, and cowpeas became the dominant cash crops. Diversified settlement led to the development of areas that previously saw little or no occupation, and even the low lying backswamps were inhabited.

A full economic recovery in the area was evasive, however, as floods destroyed crops throughout the period. Particularly problematic was the levee at Morganza. The Morganza levee broke in 1874, 1882, 1884 and 1890 (Costello 2007) and was not satisfactorily repaired until the twentieth century. How these floods may have affected the project area remains unknown, but there was at least one major levee setback in the project area between 1851 and 1883 (see Figures 3-15 and 3-17). By then, the lower half of Section 6, all of Section 8 and the upper portion of Section 10 formed Bertrand Plantation, while the upper half of Section 6 had been absorbed into Woodburn Plantation. Dividing the two plantations was a field road (see Figure 3-17). Though sugarcane was grown on Woodburn Plantation, only a limited area of Bertrand Plantation could be cultivated. As the majority of the property was still wooded and frequently inundated by backwater flooding, rice was grown on Bertrand Plantation (MRC 1883). Woodburn Plantation apparently did not possess its own grinding

house by this time, and cane grown there was likely ground downstream at Alaska Plantation, the nearest sugarhouse. Although several structures stood within the project area in 1883, all were in close proximity to the then contemporary Mississippi River levee and were situated on the modern batture. All of those structures were removed to make way for levee construction activities in the 1920s and early 1930s. There were no known structures landside of the modern levee within the current project area during the late nineteenth century (MRC 1883, 1921, 1934; USGS 1931).

Twentieth Century and Beyond, 1900–DATE

By the turn of the twentieth century, timbering, facilitated by the railroads, had largely overtaken sugarcane cultivation in much of South Louisiana. Largely focused on cypress trees found in the region's backswamp, the industry underwent rapid decline once the major tracts of cypress had been cut. Along the river, sugarcane cultivation was still widespread, but not to the extent that it had once been grown, and the ranching of cattle became more commonplace (Maygarden 1995:74). Within the current project area, the frontage of the property had been relegated to rice production (Figure 3-19) (MRC 1921), while the rear was likely cutover forests. By 1921, only four structures stood along the river's edge. Like the late-nineteenth century structures that preceded them, all of these buildings were removed to make way for levee construction during the 1920s and early 1930s. As in earlier years, there were no structures land side of the modern levee (MRC 1921, 1934; USGS 1931).

Most, if not all, of these structures were removed for one levee setback that occurred sometime during the 1920s, possibly shortly after the 1927 flood. The existing levee was built soon after, sometime between 1927 and 1931. That levee required the excavation of a large borrow pit on the batture side of the new levee, destroying any archaeological remains that might have been located there. Unlike on many other occasions, the buildings were not simply setback to allow room for levee construction. Instead, they were removed from the property entirely. As a result, there were no structures on either Section 6 or Section 8 in 1930–1931 (Figure 3-20). Between 1931 and 1934, however, five structures were built along

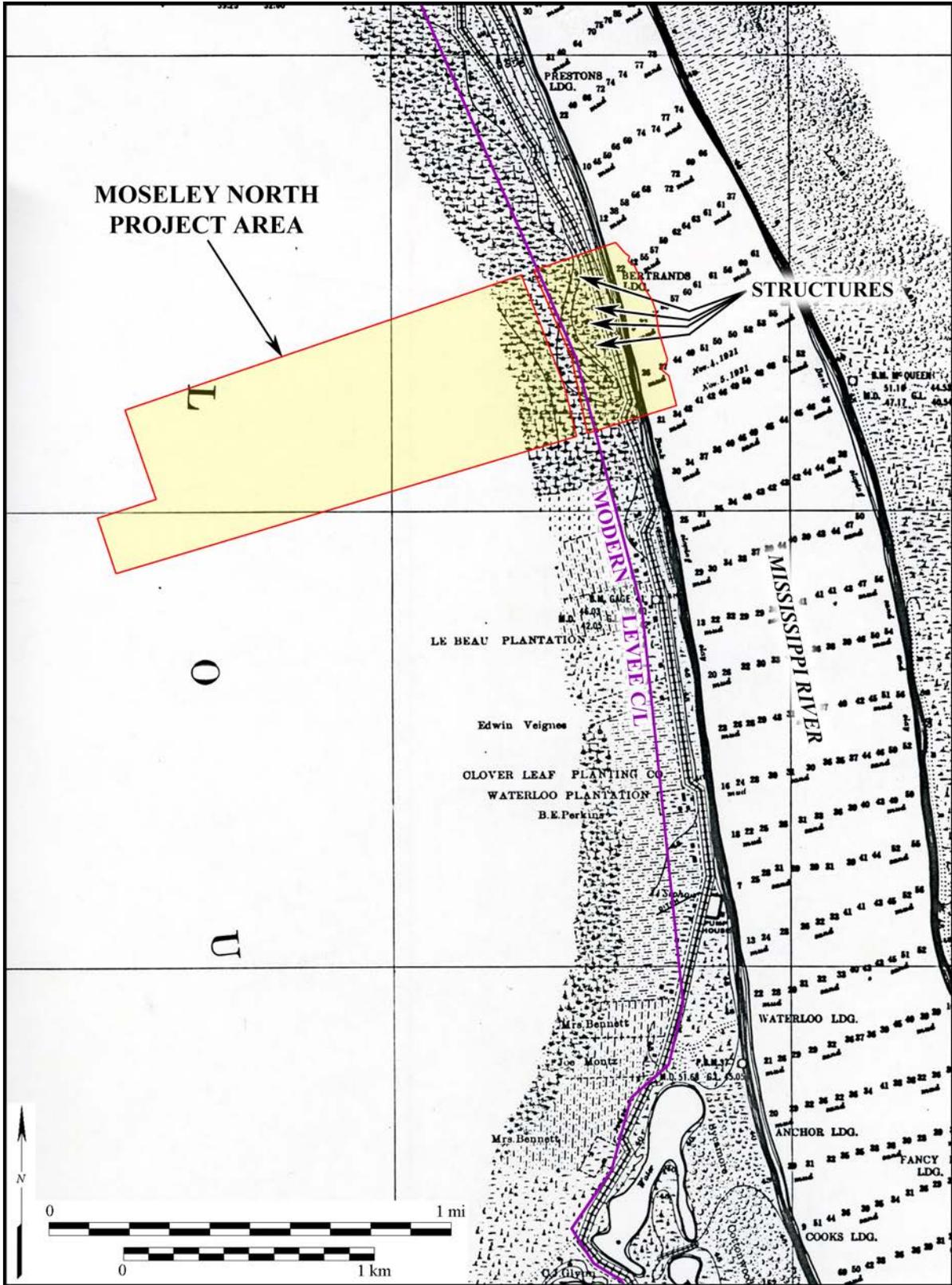


Figure 3-19. Detail of the Mississippi River Commission's (1921) 1921 *Survey of the Mississippi River* depicting the project area. Note that the Mississippi River levee has since been set back.

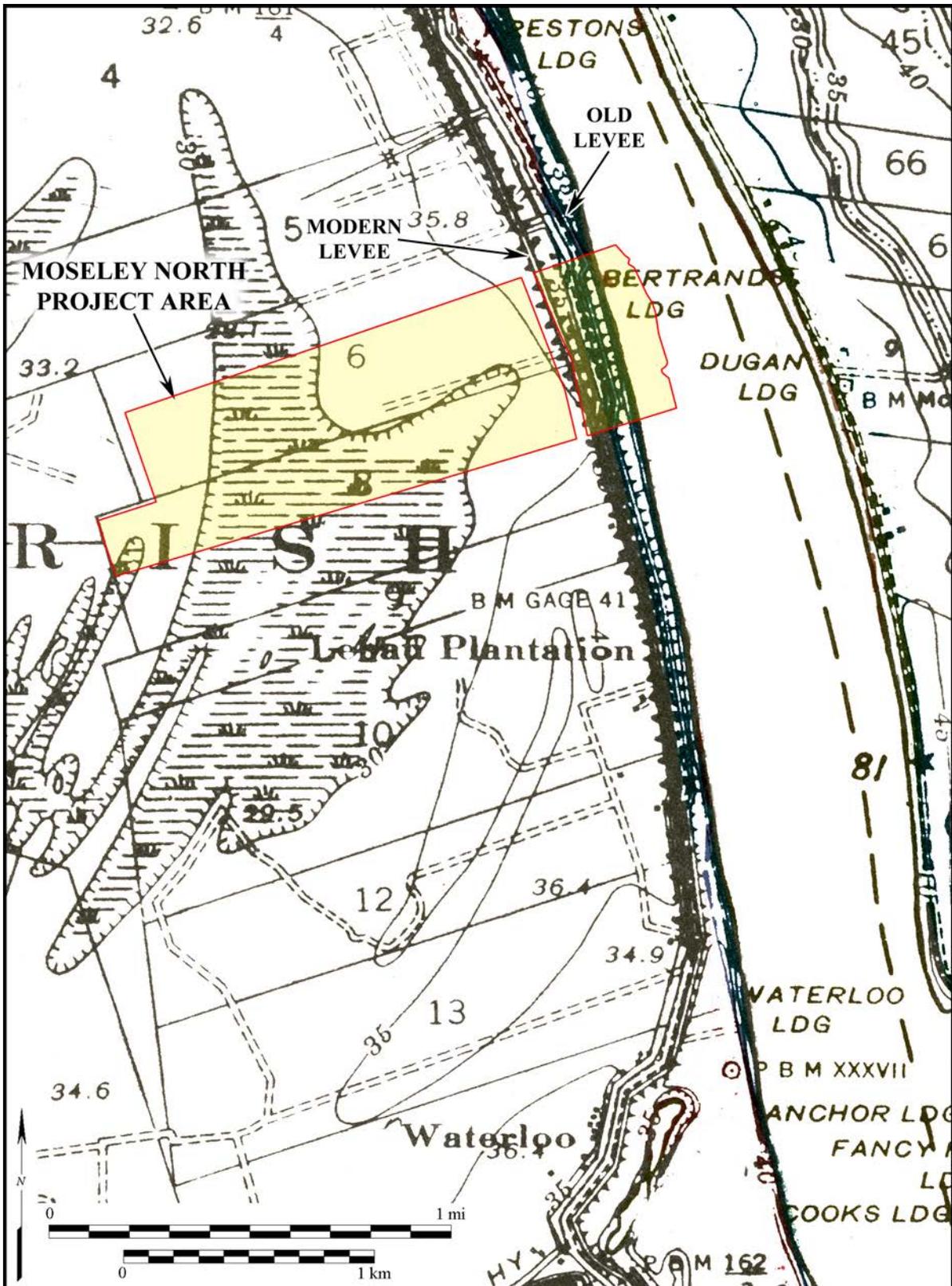


Figure 3-20. The Moseley North project area and vicinity in 1931 (USGS 1931). Note the lack of any improvements within the project area.

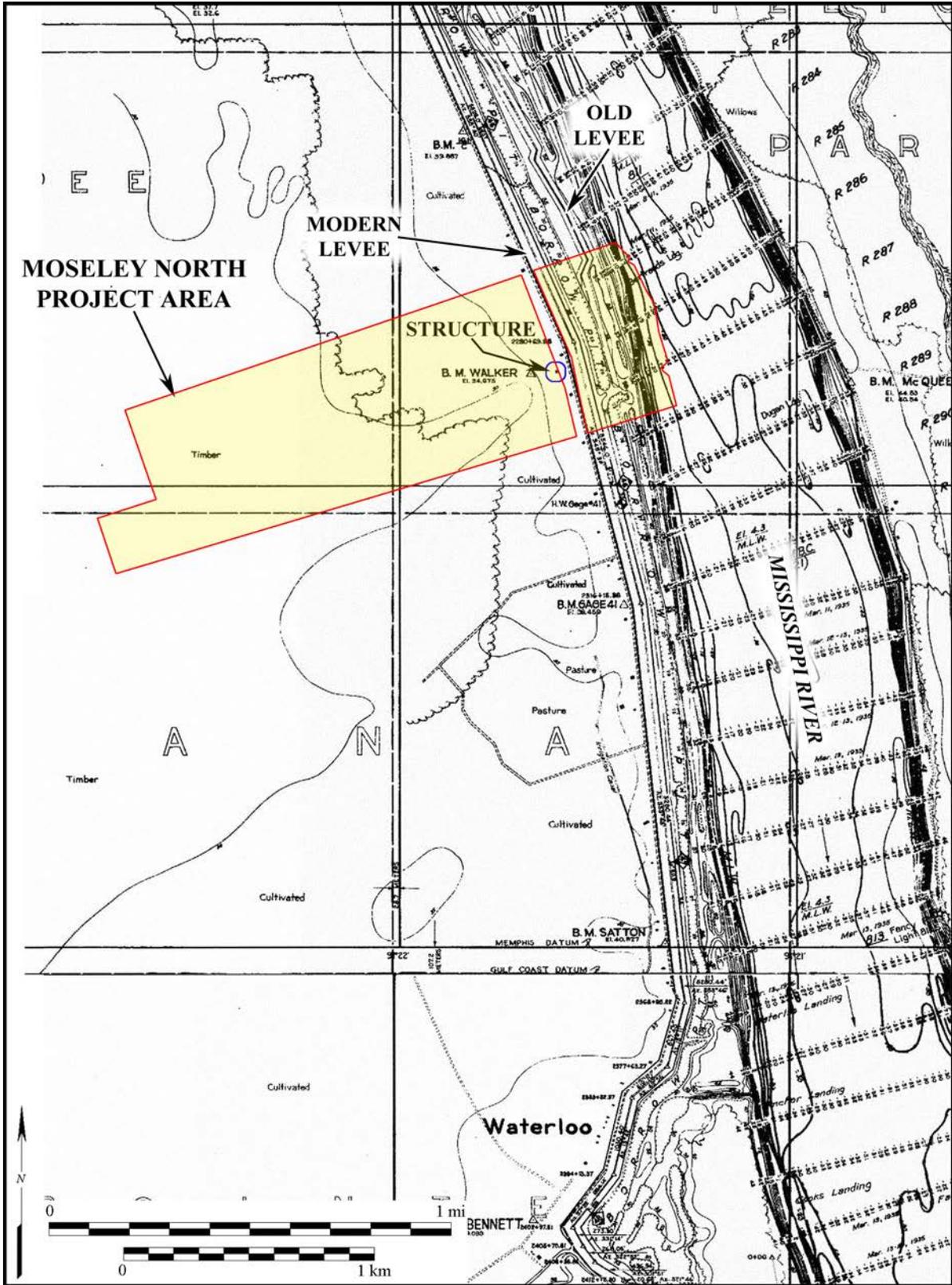


Figure 3-21. The Moseley North project area and vicinity in 1934 (MRC 1934). One structure was built in the project area between 1931 and 1934, it was removed by 1954.

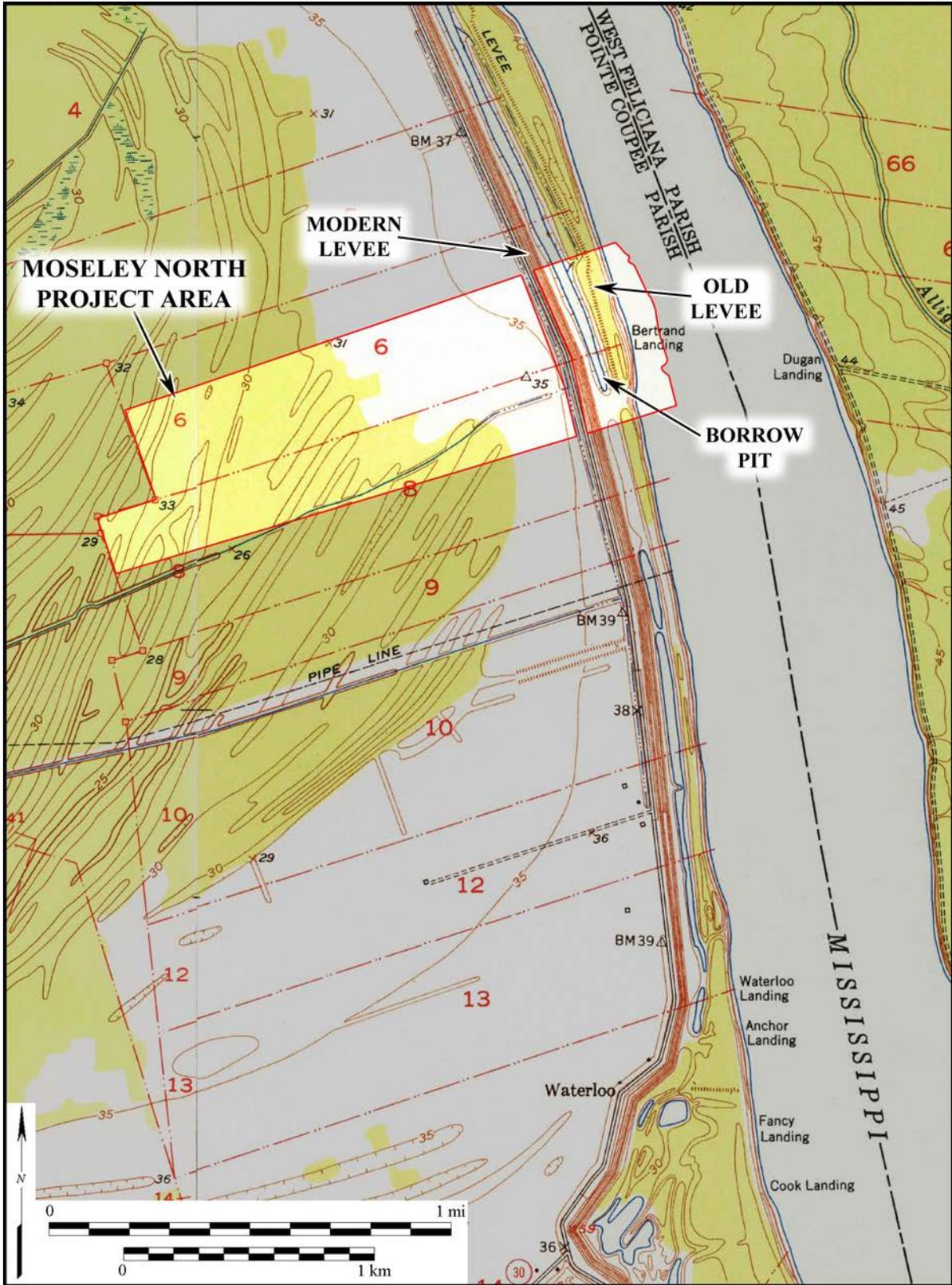


Figure 3-22. The Moseley North project area and vicinity in 1953–1954 (USGS 1953, 1954). By 1954, the project area was once again without improvements.

the landside toe of the new levee in the immediate project area vicinity. Four of those structures now lie under LA 981. The remaining structure was located within the Moseley North project area, very near present-day River Road (Figure 3-21). None of these structures survived for very long, however, as by 1953–1954, the property was once again vacant. It has remained unoccupied since (Figure 3-22) (MRC 1921, 1934; USGS 1931, 1953, 1954, 1962, 1963, 1980a, 1980b, 2012a, 2012b).

Despite the various levee setbacks that have occurred in the area since 1851, the batture began accreting during the 1930s (compare Figures 3-20 and 3-22) so that by the 1950s, the batture once again extended out to its circa 1921 limits (compare Figures 3-19 and 3-22). Since the 1950s, the batture has continued to accrete so that it now extends out to its 1829 limits (compare Figures 1-1 and 3-13).

Sugarcane remains the predominant cash crop of Pointe Coupée Parish, while pecans constitute a large proportion of the lesser crops. Although the parish's economy is still largely agriculturally based, tourism, focused around False River, has grown in importance. New Roads, the parish seat, and the town of Morganza are the only incorporated towns in the parish.

PREVIOUS RESEARCH

Over the past four decades, several cultural resources investigations have been conducted within a one-mile radius of the project area. The earliest was a survey of the Colonial Pipeline route from East Feliciana Parish, Louisiana, to Orange County, Texas, performed by Coastal Environments, Inc. (CEI) (Gagliano et al. 1976). A portion of that survey corridor ran to the southwest of the current study area. No archaeological sites were recovered within 1 mile of the area under present consideration.

In 1980, William McIntire (1980) conducted a survey of the 75-foot-wide Texas Eastern Pipeline corridor from Beauregard Parish to the Mississippi River near New Roads. The eastern terminus of the pipeline corridor lay immediately west of the current project area. Shovel testing was conducted at stream crossings and in the high-probability areas of the natural levee of the Mississippi River, but no archaeological sites were located.

An additional study was undertaken in the 1980s for the Pointe Coupée to Arbroth Levee Enlargement Project (Stuart and Greene 1983a). A portion of that construction corridor included the batture along the eastern margin of the current project area, which only included a 20-percent reconnaissance coverage. Most of the batture along the river appeared heavily disturbed, and no new sites were noted. That portion of the current project area examined in 1983 was included in the present survey, as it had not been completely surveyed.

Stuart and Greene (1983b) also conducted an archaeological survey of the proposed Bayou Sara Revetment along the eastern edge of the Mississippi River opposite the current

project area. No discussion was made regarding the methods employed or the extent of coverage for the fieldwork. No cultural resources were recorded during those investigations.

Also in 1983, New World Research, Inc., carried out a survey of the Transcontinental Gas Pipe Line Corporation pipeline right-of-way for EMANCO, Inc., a portion of which ran immediately south of the present project area (Swanson 1983). Shovel testing and visual surface inspection revealed no archaeological sites near the current project area.

The following year, New World Research, Inc. (1984), conducted an archaeological survey, also for EMANCO, Inc., of two impact areas for a proposed pipeline crossing on the Mississippi River. That portion on the east side of the river was visually inspected by two persons who walked transects spaced at 30 m intervals with systematic shovel testing where there was restricted surface visibility. Because the impact area on the east side of the river was regarded as being heavily disturbed only a reconnaissance was conducted. The pipeline crossing was also south of the current project area. Regardless, no cultural resources were located.

That same year, New World Research, Inc., conducted a cultural resources survey for a proposed Transcontinental Gas Pipe Line Corporation Main Line Expansion in East and West Feliciana Parishes, Louisiana (Phillips et al. 1984). The survey corridor ran just south of the current project area. Although eight sites were located, none were located within one mile of the current project area.

In 1991, CEI conducted a survey for the Transcontinental Gas Pipe Line Corporation Mississippi River Crossing Project in Pointe Coupée and West Feliciana parishes, Louisiana (Kelley and Hopkins 1991). Two areas that would be used to directionally drill a 36-inch-diameter pipeline under the river were examined. The one on the west side of the river in Pointe Coupée Parish was just south of the current project area. One small Mississippi period (Medora Phase, Plaquemine Culture) site (16CP27) was located and tested (Figure 4-1; Table 4-1). Those investigations revealed intact archaeological deposits, and the site was recommended as eligible for listing on the National Register of Historic Places.

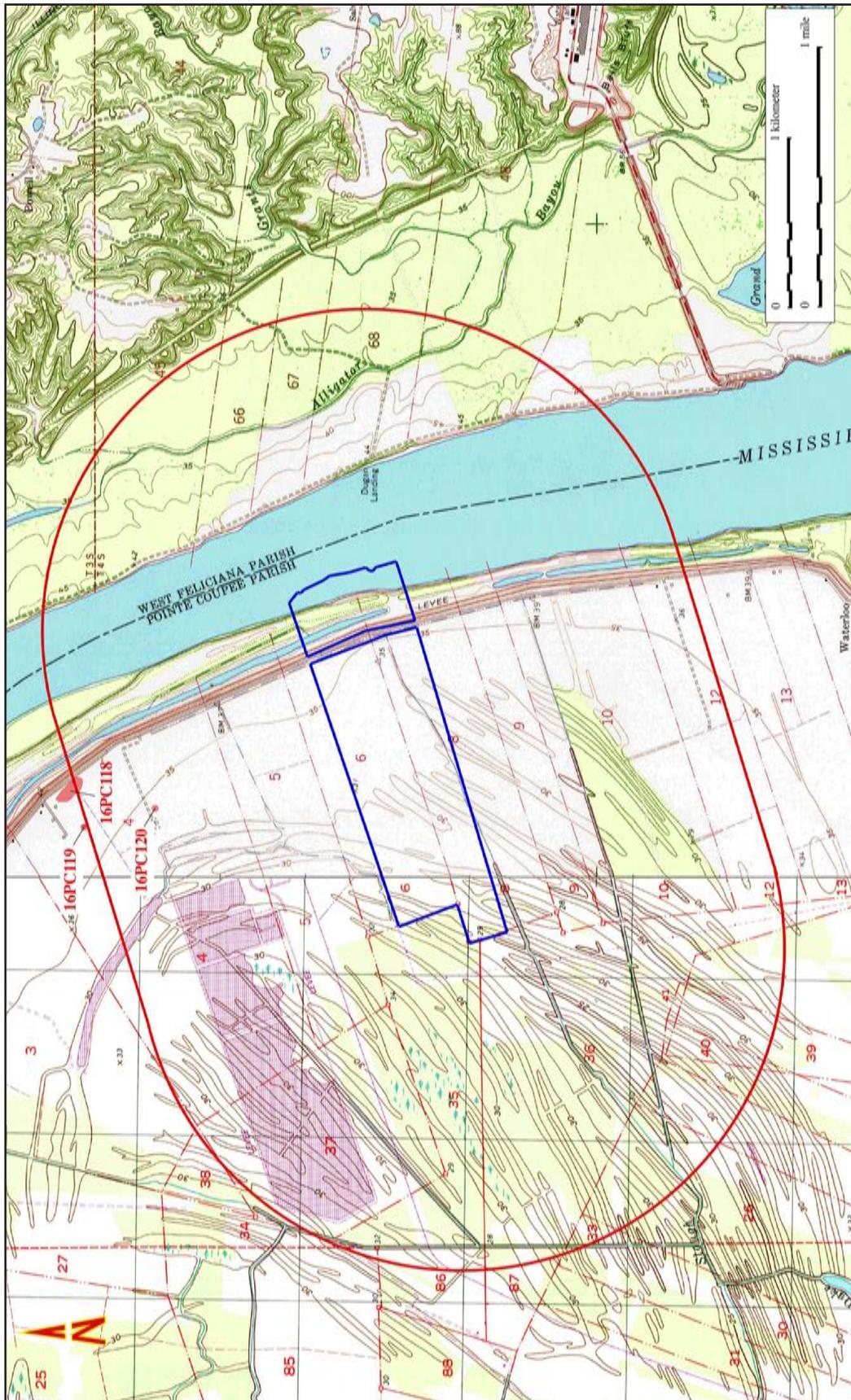


Figure 4-1. Previously recorded archaeological sites within a one-mile radius of the Moseley North Project Area.

Table 4-1. Previously Recorded Archaeological Sites Within a One-mile Radius of the Moseley North Project Area.

Number	Name	Eligibility	Cultural Affiliation	Recorded By	Date
16PC75	Swamp House	Ineligible	Late-19th- to Early-20th Century Residential	Hahn & Cramer (CEI)	2002
16PC27	West Bank Pipeline Crossing	Undetermined	Prehistoric (Mississippi Period)	Hopkins (CEI)	1991
16PC118	NRG #2	Undetermined	Late-19th- to Early-20th Century Residential	Gabour (SURA)	2013
16PC119	NRG #3	Undetermined	Historic Unknown	Gabour (SURA)	2013
16PC120	St. Peter's AME Church Cemetery	Undetermined	Early-20th Century African American Cemetery	Gabour (SURA)	2013

In 1994 and 2001-2002, CEI undertook an archaeological survey of the proposed St. Francisville Bridge Project for HNTB Corporation and the Louisiana Department of Transportation and Development (DOTD) (Hahn et al. 2003). One of the survey corridors ran through the southern margin of the current project area. That portion of the current project area previously examined was, therefore, excluded from the present investigations. One archaeological site was recorded with one mile of the current project area in 2002. The Swamp House site (16PC75) consisted of a scatter of late-nineteenth- to early-twentieth-century residential debris (see Figure 4-1; Table 4-1). As surface collections and shovel testing produced few artifacts, the site was recommended as ineligible for NRHP listing. The Louisiana Division of Archaeology concurred with this recommendation.

In 2007, R. Christopher Goodwin & Associates, Inc., conducted a Phase I survey for a proposed expansion project for the River Bend Nuclear Station across the river from the current project area in West Feliciana Parish (Eberwine et al. 2009). Although three archaeological sites were recorded during that survey, none were located within one mile of the current project area.

In 2013, Surveys Unlimited Research Associates, Inc., did a Phase I cultural resources survey of a 640-acre tract for industrial development certification (Shuman et al. 2013). The southern limits of that area were approximately one mile above the current project area. Four archaeological sites were located, three of which are located within one mile of the current project area. Site 16PC118 appears to have been associated with an early-nineteenth- to early-twentieth-century residence (see Figure 4-1; Table 4-1). Site 16CP119 consisted of an intact brick foundation with no associated artifacts (see Figure 4-1; Table 4-1). The St. Peter's AME Church Cemetery is an early-twentieth-century African American cemetery located on a part of the current Big Cajun II power plant (see Figure 4-1; Table 4-1). None of the sites were tested to assess NRHP eligibility.

In 2014, CRC, LLC, conducted a Phase I cultural resources survey for a proposed pipeline near the Big Cajun II electrical plant north of the current project area (Shuman

2014). The pipeline corridor was only 25 meters wide and 2.53 miles long. This survey located two partial standing structures, but no archaeological sites.

In addition to the four sites discussed above, a review of the site files maintained by the Louisiana Division of Archaeology revealed that no other archaeological sites have been recorded within a one-mile radius of the current project area (see Figure 4-1; Table 4-1). The few previously recorded archaeological sites in this general vicinity suggest that the current project locale has a low probability for containing archaeological sites.

ANALYTICAL TECHNIQUES

This discussion presents the descriptive typology used in the analysis of the artifactual material recovered during the course of this study. This typology is intended to provide basic descriptive, and, by extension, temporal information for recovered artifacts. Three main classes of historic artifacts are considered here: historic ceramics, glass and metal. Each of these classes is described more fully below.

Historic Ceramic Analysis

There are a number of historic ceramic types, each with a variety of possible decorative techniques. Five major categories of ceramics were developed for this study—coarse earthenwares, semi-refined earthenwares, refined earthenwares, stoneware, and porcelain. Although not every type of ceramic ware was necessarily encountered during the course of this project, all are discussed here so that the reader can attain a broader understanding of those that were recovered.

Coarse Earthenwares

Coarse earthenware is a broad category that encompasses low-fired ceramics employed primarily as utilitarian vessels. Because of the porosity of the body of these wares, they were normally covered with impermeable glazes and/or slips to make them usable as containers for liquids. Lead-glazed coarse earthenwares frequently occur as hollowware (i.e., bottles, bowls, jugs, jars, shallow pans, etc.). Archaeologists currently know little about the

precise chronology of lead-glazed earthenwares since they were in use from the sixteenth through the nineteenth centuries (Noël Hume 1969:102).

The glazes of tin-enameled coarse earthenwares are actually lead glazes that have been combined with a tin oxide. These wares typically have a thick white to bluish-white glaze that crazes easily and often exfoliates from the body of the wares. They were produced throughout Europe and parts of the New World and called Faience, Majolica, or Delft, depending on their place of origin. In French dominated South Louisiana, Faience from France is by far the most common tin-enameled coarse earthenware. In English occupied territories, however, Delft tends to be the more common ware. Majolica, meanwhile, is most often found in northwest Louisiana, near the Texas border. Tin-enameled wares were sometimes left undecorated but were often decorated through hand-painting or other means.

Semi-Refined Earthenwares

Semi-refined earthenwares consist primarily of high-fired redwares and yellowwares and are typically used for utilitarian purposes (i.e., bowls, chamber pots). Semi-refined redwares exhibit a red, semi-vitrified paste of a texture not dissimilar to refined earthenwares. Redwares of this category are typically lead glazed and undecorated, though the interiors are sometimes slipped white. Yellowware is so named because of its clear lead-glazed yellow paste. These wares, often decorated with annular motifs, were manufactured between circa 1830 and 1900 (Abernathy n.d.; Liebowitz 1985).

Refined Earthenwares

Refined earthenwares are fine-paste wares that are particularly valuable for dating late-eighteenth- and nineteenth-century sites because of relatively rapid advances in ceramic technology during this period. There are three basic types of refined earthenwares: creamware, pearlware, and whiteware. Although these terms meant little, if anything, to the potters who produced the wares (Miller 1980), they are useful to archaeologists wishing to better understand the chronology of a site.

Creamware

Creamware, the earliest refined earthenware, features a molded, cream-colored body and a cream to yellowish-green lead glaze. First produced in England during the mid 1700s, creamware became the most common tableware in Britain and her colonies during the last quarter of the eighteenth century (South 1972:125). Most of the creamwares found in archaeological sites are undecorated; however, hand-painted, transfer-printed, and annular decorated types infrequently occur. The lack of decoration on creamwares is largely a function of the technology of the period—early potters did not have access to pigments that were stable at the temperatures necessary for glazing the vessels. However, it was possible, though infrequent, to apply the decoration to the vessel after it was glazed. Decorations of this type were expensive to produce and easily wore off. Consequently, they were not particularly popular.

Pearlware

Experiments with ceramic clays and glazes during the last three decades of the eighteenth century led to the development of whiter, refined earthenwares, commonly referred to as “pearlwares.” Pearlware, manufactured from about 1780 to 1840 (Loftstrom 1976), differs from creamware in that the Derbyshire cherts used in the ceramic paste produced a whiter body. Additionally, the lead glaze of pearlware was lightly tinted with cobalt to whiten the yellowness of the clear glaze. Because of the latter factor, pearlwares exhibit a light-bluish cast in the glaze, particularly in glaze puddles found at basal rings or at handle attachments. It should be noted here, however, that turn-of-the-nineteenth-century glaze and body experimentation also led to the development of a number of creamware/pearlware transitional pieces. These wares have a more greenish glaze than typically found on creamware pieces, but not the greenish-blue of true pearlwares. Although accurate dates have not been established for these transitional wares, late creamwares likely date from about 1780 to 1820.

George Miller (1980:15-16) suggests that pearlware was developed to take advantage of the declining creamware market and to produce a ware that better resembled porcelain,

which at that time had a bluish cast. The success of this ware was insured by high tariffs on imported porcelain and the rights gained in 1775 to use Cornish china clay in wares other than porcelain (Miller 1980:15, 16). To further promote the sale of pearlware, potters relied heavily on the decoration of their ware (Miller 1980:16) and the growing popularity of blue-painted and transfer-printed decorations (Noël Hume 1972:240). Simply speaking, blue decorative motifs appeared more attractive on bluish pearlwares than on yellowish creamwares. Pearlwares generally replaced creamwares around 1810, although creamware was produced for about another 10 years. As pearlware began to be favored over creamware by 1810, pearlware is the most common ceramic type found on early-nineteenth-century Euro-American sites. Pearlwares host a variety of decorative treatments, including annular, hand-painted, and transfer-printed designs. Although small sherds may contain no decoration, pearlware vessels are seldom undecorated (Miller 1980:16).

To further complicate understanding of early nineteenth century ceramic production, some ceramics have a deep blue cast without the green tingeing found on pearlware, but with the same decorative treatments. Considerably darker than early whitewares (see below), these wares may be late pearlwares; conversely, they may represent better efforts at matching early imported porcelains. If the latter is true, these wares most likely date between 1780 and 1815.

Early Whiteware

During the first quarter of the nineteenth century, bone china became favored over earlier porcelains that had a bluish cast (Miller 1980:17). As preference grew for white porcelain, so did the desire to produce a white earthenware. By the early 1830s, pearlwares were replaced by large quantities of improved whitewares. As the name implies, whitewares have a white body and a clear, lead glaze that does not display the bluish tint found on pearlwares. Many of the early whitewares have forms and decorations similar to those found on pearlwares. Because of this, and the fact that whitewares grew out of continued experimentation with pearlware pastes and glazes, it is often difficult to distinguish late pearlwares from early whitewares (Miller 1980:16). Indeed, even the potters themselves did

not make a distinction between the two types of wares (Miller 1980). As a result, many archaeologists present these transitional refined earthenwares as a separate type, labeled “early whiteware.” Early whiteware, which has an overall white cast and blue puddling, most commonly dates from about 1820 to about 1840. Moir (1987:102) argues that these wares may date as late as 1865, although he has found that most examples date from the 1830s to the 1850s. Price (1982:14) likewise suggests that, while the pearlware-to-whiteware change occurred in 1820 or 1830, whitewares with blue puddling were produced as late as the 1860s.

Transfer-printed wares were particularly popular in the second quarter of the nineteenth century. Though also found on pearlwares and white improved earthenwares, the period of popularity of transfer-printed decorations closely corresponds with the production of early whitewares, and these types of wares are commonly recovered from 1830–1850 deposits. There has been growing interest in the identification of transfer-printed wares as both collectors and archaeologists have come to realize that otherwise unattributable and undateable wares could be specifically associated with a manufacturer through pattern recognition.

Whiteware, Ironstone, and Ivory-Tinted Whiteware

Mid-nineteenth-century whitewares generally exhibit high frequencies of decorated types, including annular, hand-painted, and transfer-printed decorations. As the nineteenth century progressed, there was a growing tendency for decorated whitewares to be replaced by undecorated whitewares. One variety of whiteware, termed ironstones, were seldom decorated, with the exception of designs molded into their bodies. Ironstone, with dates of manufacture ranging between 1840 and 1910, may exhibit a blue tint to its glaze. The bluish tinted ironstones possess a “cold blue” tint that is different from the “soft” blue tint that is found on earlier refined earthenwares. Ironstone has a harder and heavier paste than other types of whitewares and, because its glaze and paste are of similar composition, ironstone glazes often do not craze as do other refined earthenwares. Ivory-tinted whiteware, most popular from around 1900 to 1930, possesses an off-white to a cream-colored tint similar to

creamware, but due to the lack of lead in the glaze this ware is not easily mistaken for creamware in that the hue and the crazing are noticeably different (Moir 1987:102).

Plain wares were in vogue for only a very short period, and by the 1890s the demand for decorated wares began to increase. Light repoussé floral and geometric patterns, gilded, and decalcomania designs became common decorative techniques used on both whitewares and ivory-tinted whitewares of the very late nineteenth and early twentieth centuries. By the late nineteenth century, however, most hollowware vessels made of ironstone were decorated with a heavy relief-molded design. Ironstone flatwares, meanwhile, continued to be undecorated. The majority of all whiteware sold in the United States prior to 1880 was produced in England. Tariffs placed on imported ceramics during the 1880s and early 1890s, however, made domestic wares a viable alternative to consumers. The McKinley Tariff Act of 1891 was particularly helpful in making American ceramics competitive with their English counterparts (Kovel and Kovel 1986:202). The result of these tariffs was that by the late 1890s, the vast majority of ceramics purchased in the United States were produced domestically.

Stoneware

Stoneware was generally used for the production of utilitarian vessels, such as crocks, jars, and butter churns. Utilitarian stonewares are distinguished by their thick, fine-grained body, ranging in color from light gray or buff to dark gray or brown, depending on the materials and manufacturing technique used. Stonewares were sometimes left unglazed but were most often glazed with salt, natural slips, or chemical slips (e.g., Bristol). Although volcanic ash and alkaline glazes were also used, the three former glazes were far more popular in most areas of the United States.

Domestic utilitarian stoneware was produced throughout the nineteenth century and well into the twentieth. The production and popularity of stoneware decreased dramatically after about 1910, as it was replaced by other types of containers, especially metal and glass. Stoneware, in and of itself, is not a very good temporal indicator, as it generally reflects the

heavy usage of the ware in the last half of the nineteenth century. The glazes used on stonewares, however, are often useful temporal indicators, particularly in the very late nineteenth century. After the turn of the twentieth century, however, the usefulness of stoneware glazes as temporal markers decreases dramatically, as few changes were made to manufacturing techniques after that date.

Not all stonewares served utilitarian functions. Indeed, many decorative wares of the late eighteenth and early nineteenth centuries were dry-bodied stonewares. Aside from Jasperwares, one of the most common types of dry-bodied stonewares was Black Basalt. Similar in form to the refined earthenwares of the day, these highly-refined, black-bodied wares were often used as table serving pieces (e.g., tea pots, sugar boxes, etc.) and for elegant decorative pieces (e.g., vases, bulb pots). Partly out of function and partly because of aesthetics, Black Basalt wares were seldom glazed. Relatively expensive to produce and treated as special display pieces, they are not often recovered from archaeological settings. Introduced to the consumer market in 1768, Basalt wares were particularly popular between 1785 and 1795 (Edwards 1994:25, 89). Although the popularity of these wares waned considerably after 1820, they are still produced today.

Porcelain

Porcelain was first produced in China in about the seventh century; however, it was not until about 1600 that Chinese porcelain fully entered the European market. Porcelain, though expensive, quickly gained favor among Europe's elite, and potters there began trying to duplicate those wares. While the first European porcelain was produced in Italy during the late sixteenth century, wide scale production did not begin in Europe until the early eighteenth century. English porcelain, meanwhile, was not manufactured until 1744. Chinese porcelain continued to be imported into Europe through the mid and late eighteenth century, but the popularity of Chinese porcelain began to wane as the new English wares came into favor during the 1770s. Protected by high tariffs, English porcelains soon overwhelmed sales of Chinese porcelain, and bulk importation of the Chinese wares into England ceased in the 1790s. At the same time, Chinese import porcelains were brought directly to the United States by American merchants as early as 1784 (Battie 1990:55, 63-65,

86-88). Although not as popular as European (and later American) porcelains, Chinese export porcelain was available in the United States through most of the nineteenth century.

The first English porcelains were not true porcelains and had a soft paste of white clay and ground glass fired to a temperature of only 1100°C. Hard paste porcelain, a mixture of kaolin and china rock fired to 1400°C, was not produced in Europe until 1768. Although hard paste porcelain was preferred over soft paste, both continued to be produced until the early nineteenth century. Indeed, almost all English porcelain produced prior to 1780 was soft paste porcelain. In about 1794, bone china, comprised of kaolin and bone ash, was developed by Spode Pottery in England. With a stable, pure white body, bone china quickly gained favor with the public and largely replaced the earlier porcelain types by 1812 (Battie 1990:109, 116, 144; Miller 1980:17). Parian, a type of unglazed biscuit porcelain, was first manufactured in England in 1845 (Battie 1990:197) and is used primarily for sculptural figurines.

Porcelains were often left plain or were hand painted (enameled) and/or transfer printed both over and under the glaze. Hand painted porcelains were produced very early in China and both it and transfer printing were used on English porcelains soon after those wares were developed. Because of the long production history of these wares and the difficulty in identifying fragmented archaeological collections, porcelains are often not particularly useful in dating nineteenth or twentieth century deposits.

Glass Analysis

Bottles are particularly useful in dating late-nineteenth and early-twentieth-century sites because of a rapid sequence of technological improvements in the bottle manufacturing industry between about 1850 and 1940. One difficulty with using glass-bottle manufacturing techniques for dating sites is that initial and terminal dates for several of the manufacturing techniques are often imprecisely known. An associated problem is that some nineteenth and early-twentieth-century techniques continue up to the present day. Although the occurrence of lingering techniques is negligible in view of the quantity of bottles produced, it must be taken into consideration when dating a site.

At the beginning of the nineteenth century, the two most common techniques of producing bottles were the free-blown and the dip-molded methods. The production of free-blown glass required the use of a blow-pipe to expand the glass to the desired shape, and the pontil rod, which, when attached to the base of the bottle, permitted neck finishing. Free-blown bottles are asymmetrical and seamless, and often bear a rough pontil mark or scar, on the base.

Dip-mold bottles were blown into a tapered mold and finished by hand. These bottles were more symmetrical than free-blown products. Hand finishing required the use of a pontil rod, resulting in a pontil scar on the base of the bottle. The mold often leaves a horizontal mold seam around the body of the bottle near the shoulder. Most popular between 1790 and 1810, dip molds continued in use, particularly for wine bottles, well into the nineteenth century (Lorrain 1968; Toulouse 1969a).

The next major development in bottle technology was the introduction of the three-piece mold, of which there were two types: one was simply a dip mold with a hinged mold on top which finished the neck area; the second consisted of three hinged pieces set approximately 120 degrees apart. The latter type, called a three-piece leaf mold, left three vertical mold seams on the vessel's sides and was generally reserved for highly decorated bottles or art glass (Toulouse 1969b). There is some disagreement concerning the appearance date of the three-piece mold. Jones (1971) credits the development to the H. Ricketts Company of Bristol in 1821, whereas Lorrain (1968) writes that it appeared around 1810 but was replaced in the 1840s. However, Toulouse (1969b) has stated that the three-piece mold was in common use between 1870 and 1910.

With the introduction of hinged molds in the nineteenth century, bottom molds became common. There were two types of bottom molds, post bottom and cup, the former being the earlier of the two. The cup-bottom mold was more common on machine-made bottles, although it appeared on molded bottles around 1880 (Munsey 1970:249). The post-bottom mold plate has a raised central platform called the post, which forms the ring seam on the bottom of the bottle. For the cup-bottom mold, the entire bottom of the bottle is formed

by the mold plate, which is shaped as a slight depression or cup (Toulouse 1969b). Post-bottom mold bottles have side seams that continue onto the base of the bottle where they join the ring seam. Cup-bottom mold bottles have no seams at or on the bottom, rather they have a horizontal seam just above the heel.

Two varieties of a two-piece hinged mold came into use around 1840. The hinged-bottom mold, which appears to be the older, had its two halves hinged at the bottom. It produced a seam that ran straight across the bottom of the bottle. Introduced as early as the 1750s in England (Jones 1971), this mold continued in use into the 1880s. The side-hinged mold was the second variety. It produced bottles with either a cup-bottom or post-bottom mold and side seams that extended from the bottom mold seam to the neck.

All of the above manufacturing techniques required the lip finish to be performed by hand. Hand finishing required the use of a pontil rod, to hold the vessel while the lip was modified. The pontil rod was generally replaced after 1857 with the invention of the snap case, an instrument of four curved, padded arms that were clamped around the bottle. The use of the snap case can safely be assumed when a bottle has a hand-finished lip and seams, but no pontil mark (Lorrain 1968). It should be noted that the pontil rod continued to be used for some time after the introduction of the snap case in 1857 (Riordan 1981), although its frequency of use gradually declined. Until about 1870, lip finishes were limited to folding the glass neck over or by placing a “string” of glass around the mouth of the bottle. About 1820 a tool was developed in England to form the lip of the bottle into a variety of lip types. Lipping tools, however, were not extensively used in the United States until the 1850s. These two developments enabled glass blowers to produce a “clean,” attractive bottle much more easily than had been previously possible.

The next major development in glass-bottle technology did not appear until the 1880s, when a workable, semi-automatic, bottle-making machine was introduced (Miller and Sullivan 1984:85). The “semi-automatic” designation refers to the fact that glass had to be brought to the machine by hand. A portion of the gathered glass was severed by a pair of shears. The first semi-automatic machines appeared as early as 1882. They were not

functional for large-scale production, but did allow the production of machine-made bottles. Michael J. Owens developed the first commercial automatic bottle machine in 1903, and by 1904 was installing his machine in several factories (Walbridge 1920:67-71). Machine-made bottles did not immediately replace all mold-made bottles, as the latter continued to be made for over a decade following the introduction of Owens' machines. By 1917, however, 90 percent of all glass vessels were made by machine (Miller and Sullivan 1984:88, 89).

Although glass color may also be used for dating, wide date ranges for the various colors often do not permit useful analyses to be made. For instance, olive and olive-amber colored glass was used throughout the eighteenth and nineteenth centuries, even though both began to fall out of favor in the 1870s. It should be noted, however, that clear glass was not in common usage until after 1870 when food processors began to use glass vessels for their products and did not want tinted glass to affect the visual impact of their product. It was at that time that manganese was added as an oxidant to glass. Although the addition of manganese to the glass allowed the production of clear vessels, sustained exposure to sunlight of those vessels produces a clear-purple tint. Manganese was used as an oxidant until World War I when it became a strategic war material and had to be replaced by another oxidant—selenium. Like manganese, the addition of selenium yielded clear glass. Also like manganese, when exposed to sunlight, selenium vessels become solarized and become yellow-tinted. Selenium was used as an oxidant until the 1930s. Finally, milk glass was first produced in France in the 1820s. Quite successful, milk glass was at its peak popularity in the United States from 1895 until 1910 (Newbound and Newbound 1995:7). First produced in white, milk glass was eventually manufactured in a variety of colors, including blue, brown, and green.

Metal Analysis

Metal artifacts are subdivided by the type of metal and include brass, lead, and iron. Iron is, by far, the most common kind of metal found on archaeological sites. Although iron is encountered in a variety of forms, including bolts, cans, and pop tops, nails generally provide the most viable chronological information. Common nails have been shown to be a valuable tool for dating archaeological sites (Nelson 1968; Noël Hume 1969).

Nails can be divided into three basic categories: hand forged, machine cut, and wire. The earliest nails were completely hand wrought (Types 1 and 2). Alone, they are not reliable dating tools, as their use began circa 1720 and continued into the early nineteenth century, when they continued to be selected for their clinching abilities and esthetics (Nelson 1968; Edwards and Wells 1993).

Machine-cut nails (Types 3-10) are good chronological indicators, as certain characteristics (i.e., direction of grain, burrs, pinching of the neck) allow those types of nails to be more accurately dated. Production of machine-cut nails began circa 1790 and continued until 1896. The early machine-cut nails were cut from rolled sheets of iron, and their heads were hand forged (Type 3). Later machine-cut nails (Types 6-10) were cut from a sheet of rolled stock and had machine made heads. These later machine-cut nails can be more precisely dated by determining the direction of the metal grain, whether burrs are on the same side or diagonal sides, if the heads are irregular (early) or regular (modern), and if the nail was face or side pinched (Edwards and Wells 1993).

Wire nails were first produced as early as 1877 (Type 11), but were more expensive than, and inferior to, machine-cut nails. This was because American machinery used to produce wire nails was not perfected until the 1860s and 1870s, and wire nails produced prior to that time were primarily in smaller sizes for use in items such as cigar boxes (Nelson 1968:10). However, by about 1890, it was possible to produce a cheaper and better quality wire nail (Type 12), which soon replaced machine-cut nails. Because of this, wire nails for architectural purposes were not widely produced until after about 1892. Although some builders continued to utilize cut nails well into the twentieth century for special applications, their use for residential construction was negligible after about 1896.

Curation Statement

Recovered artifacts were cataloged and analyzed in accordance with current professional standards. Following the completion of all analyses, reconstructed vessels were placed in archival, 2-mil poly bags if vessel size permitted. All remaining artifacts were

placed in archival, 2-mil poly bags labeled with the appropriate provenience information and boxed accordingly. All artifacts, records, photographs, and field notes will be curated with:

State of Louisiana
Department of Culture, Recreation, and Tourism
Division of Archaeology
P.O. Box 44247
Baton Rouge, Louisiana 70804-4247
(225) 342-8170

in the curation facility at:

Louisiana Division of Archaeology
Office of Cultural Development
1835 N. River Road
Baton Rouge, Louisiana 70802
(225) 342-4475

FIELD SURVEY RESULTS

Methodology

Prior to the initiation of field investigations, a brief archaeological and historical background study was conducted to determine what types of cultural resources might be encountered during the survey. Archaeological site forms on file at the Division of Archaeology and historic standing structure forms on file at the Division of Historic Preservation (both of the Louisiana Department of Culture, Recreation and Tourism) were consulted to determine how many known archaeological sites or historic standing structures fell within, or immediately adjacent to, the proposed project area. Previous cultural resource reports and other pertinent regional literature were reviewed.

The goals of these cultural resource investigations were to locate all cultural resources within the proposed project area and to assess their significance in terms of National Register eligibility through guidelines established by the National Park Service (1991). The significance of an historic property is expressed in terms of whether it meets one or more of several criteria:

The quality of significance in American history, architecture, archeology, and culture is present in districts, sites, buildings, structures, and objects that possess integrity of location, design, setting, materials, workmanship, feeling, and association, and:

- A. that are associated with events that have made a significant contribution to the broad patterns of our history; or
- B. that are associated with the lives of persons significant in our past; or

- C. that embody the distinctive characteristics of a type, period, or method of construction, or that represent the work of a master, or that possess high artistic values, or that represent a significant and distinguishable entity whose components may lack individual distinction; or
- D. that have yielded, or may be likely to yield, information important in prehistory or history. [National Park Service 1991:2]

A property is considered eligible for nomination to the National Register if it meets at least one of these four criteria by "being associated with an important historic context and retaining historic integrity of those features necessary to convey its significance" (National Park Service 1991:3). Additionally, properties normally have to be greater than 50 years old to be considered eligible for nomination to the National Register. Those archaeological sites that have been totally excavated, looted, or disturbed to a point where the remaining artifacts are out of their original context and will not provide meaningful information are not normally considered eligible. The archaeological significance of a site is most commonly assessed in relation to Criterion D, or its ability to yield "information important in prehistory or history" (National Park Service 1991:2).

Archaeology

The Phase I field survey consisted of a pedestrian examination of the project area. The 200-m-wide region fronting LA 981 was considered to have a high potential for containing archaeological deposits, while, the remainder of the project area was deemed to have a low potential. Shovel tests were excavated at 30-m intervals on transect spaced 30 m apart in the high-probability zone, and at 50-m intervals on transects spaced 50 m apart in the low-probability zone. Each shovel test measured approximately 30 cm (11.7 in) in diameter, and was excavated to sterile soil, generally 30 to 50 cm below surface. In addition, all clearings, tree falls, and exposed ground surfaces were visually examined for cultural remains. All artifacts recovered during the investigation were washed, sorted, analyzed and catalogued at CEI's Baton Rouge laboratory.

Standing Structures

Prior to the field survey, CEI conducted a records search at the Division of Historic Preservation (DHP), Department of Culture, Recreation and Tourism. The DHP maintains Louisiana Historic Resource Inventory (LHRI) and NRHP files for the State of Louisiana. Each recorded standing structure over fifty years of age is assigned a binomial number (e.g., 58-1000 [Parish Number + Structure Number]) by the DHP. The DHP maintains USGS 7.5-minute and 15-minute quadrangle maps and the DOTD city maps depicting the location of each recorded structure, as well as LHRI forms and corresponding reports. No previously recorded standing structures or National Register listed properties occur within the project area.

Archaeology

Between 23 and 25 February 2015 and on 15 April 2015, CEI conducted a Phase I cultural resources survey for BRAC of the Moseley North Project Area in Point Coupée Parish, Louisiana, as part of an industrial site assessment. This property belongs to Moseley Properties, LLC, and the Trustees of George P. and Brenda B. Roberts. The BRAC study area measures approximately 348.3 ac (141 ha). However, 65 ac (26.3 ha) were previously surveyed by the National Park Service (NPS) in 1982 (Stuart and Greene 1983), and 25 ac (10.3 ha) by CEI in 1994 and 2002 (Hahn et al. 2003). CEI examined the unsurveyed, 258.4 ac (104.6 ha) portion of the BRAC project area in February 2015, and reexamined the 90-ac (36.6-ha), previously surveyed portion in April 2015. These investigations are detailed below.

The 258.4-ac Survey Area

While most of the 258.4-ac (104.6-ha) project area occurs on level ground, the western portion of the project area exhibits ridge and swale topography. The majority of the project area is used as pastureland, with only small portions covered by secondary-growth forest. A crew of three conducted visual and shovel test survey of the project area on

transects spaced 30 m or 50 m apart. In total, 113 shovel tests were excavated at 30-m intervals, and 329 at 50-m intervals along these transects, respectively. Shovel tests were excavated to 50 cmbs or to sterile subsoil. A typical shovel test in the project area consisted of 15 cm of a very dark grayish brown (10YR 3/2) silty clay overlying at least 35 cm of a dark grayish brown (10YR 4/2) silty clay with oxidation.

One historic archaeological site was identified during the course of the survey—Moseley North 1 (16PC123). An additional 41 shovel tests were excavated at 10-m intervals off of each positive shovel test within the boundaries of this newly recorded site. The Moseley North 1 site is discussed below.

Moseley North 1 (16PC123)

The Moseley North 1 site (16PC123), located on the eastern edge of the project area, measures approximately 60 x 50 m. The site is situated in Sections 6 and 8, Township 4 South, Range 11 East in the Southeastern District (west bank of the Mississippi River), Louisiana (Figure 6-1). Surface visibility at the site was generally good, with only sparse vegetation covering the ground (Figure 6-2). In total, 41 shovel tests were excavated at the site, 10 of which contained artifacts (Figure 6-3). The typical shovel test profile consisted of 30 cm of a very dark gray (10YR 3/1) silty clay overlying a least 20 cm of dark gray (10YR 4/1) silty clay with oxidation (Figure 6-4). Thirty-five artifacts were recovered from the 10 positive shovel tests excavated (Table 6-1). The artifact assemblage consists of historic ceramics, glass, metal, brick, and mortar (Figure 6-5).

Two sherds of hard-paste porcelain were recovered, one of which is decalcomania decorated but has lost its color (Figure 6-5a). This type of decoration dates from circa 1880 to 1920 (Majewski and O'Brien 1987:147). Clear shards of unidentified manufacture constitute most of the glass assemblage from 16PC123. However, one shard is Owens machine made (Figure 6-5b). As discussed in Chapter 5, Owens machine-made glass postdates 1903 (Miller and Sullivan 1984:88, 89). A machine-made glass marble was also recovered from the site (Figure 6-5c). Machine-made glass marbles were manufactured

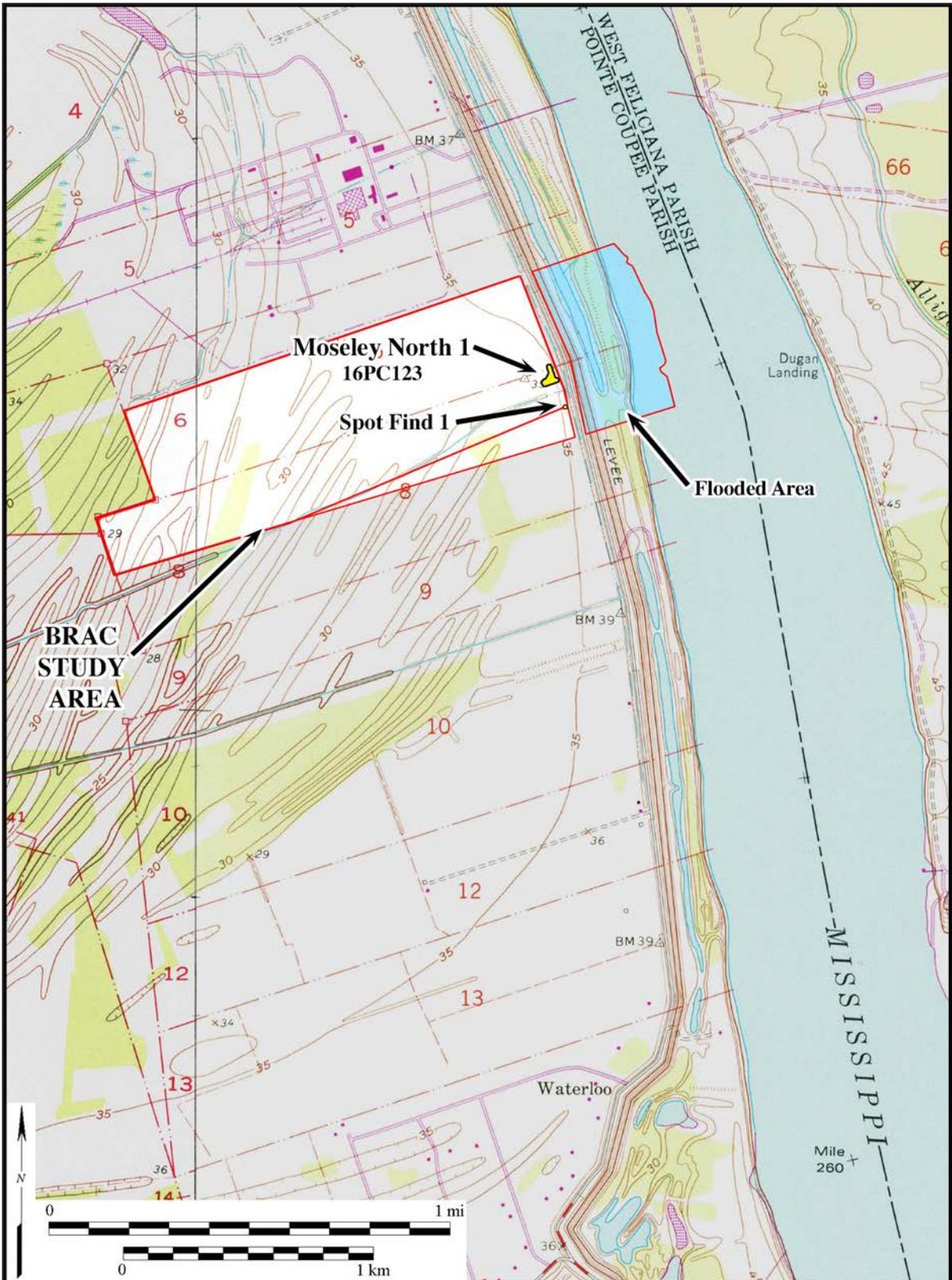


Figure 6-1. The location of the Moseley North 1 site (16PC123) and Spot Find 1 within the Moseley North Project Area (USGS 1980a, 1980b).



Figure 6-2. The Moseley North 1 site (16PC123). View to the southeast. Date: 2/25/15.

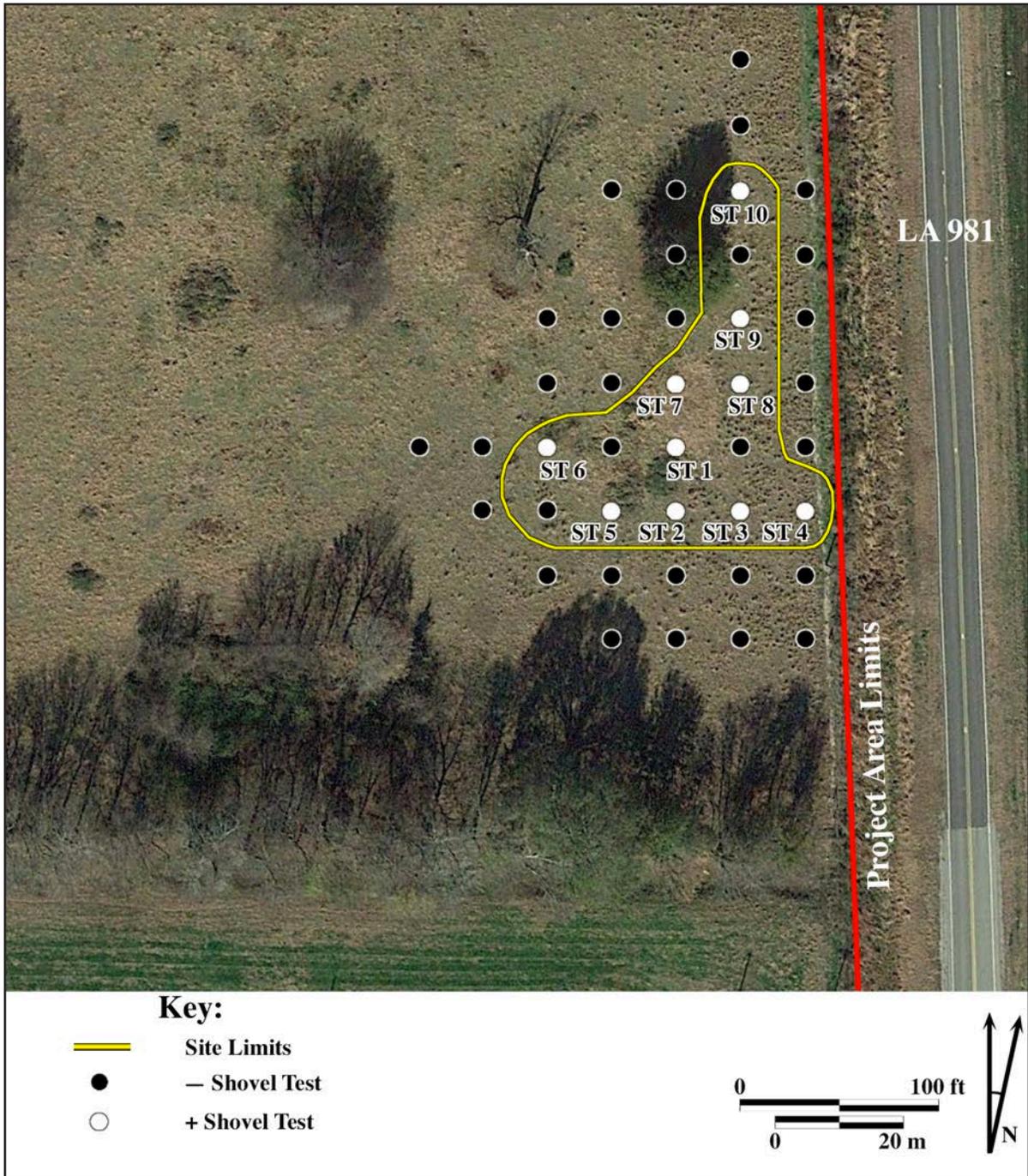


Figure 6-3. Sketch map of the Moseley North 1 site (16PC123).

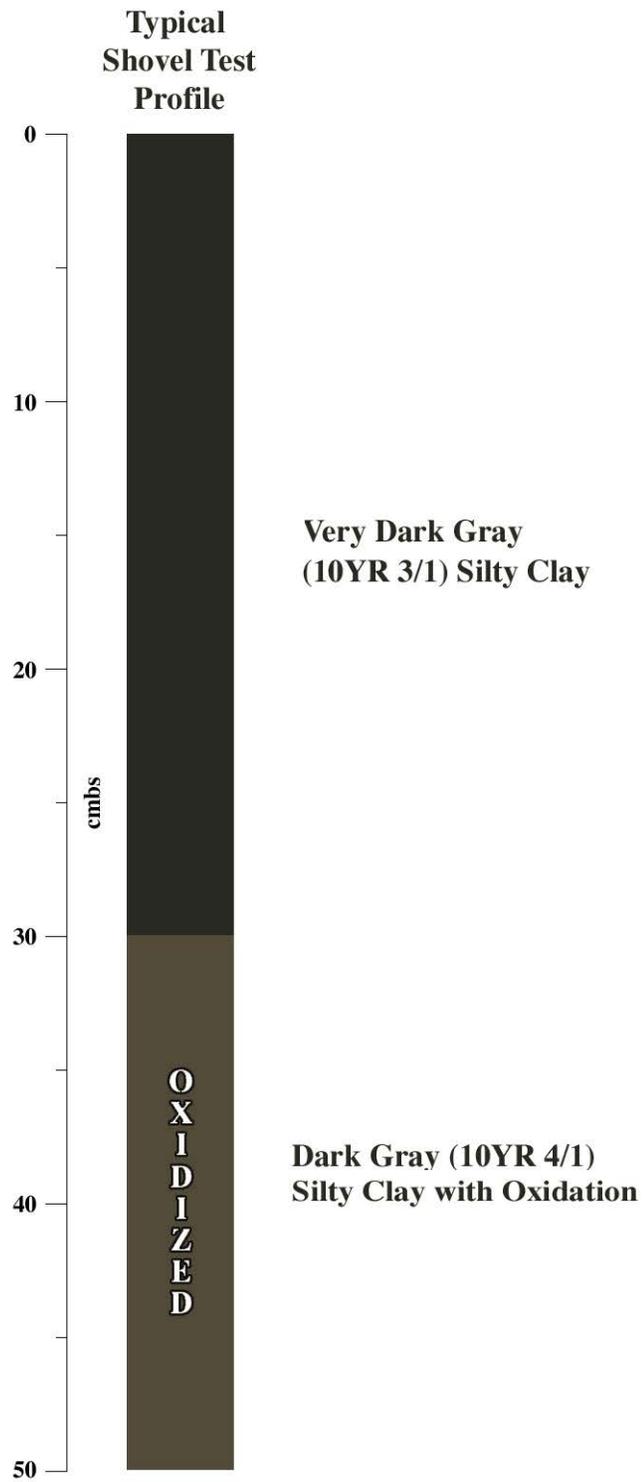


Figure 6-4. Typical shovel test profile from the Moseley North 1 site (16PC123).



Figure 6-5. Artifacts recovered from 16PC123: a) fugitive Decalcomania decorated hard paste porcelain (ST 9); b) clear Owens machine made glass vessel (ST 5); c) blue and yellow machine made glass marble (ST 10); d) Type 11-12 iron nail (ST 4).

Table 6-1. Artifacts recovered from 16PC123.

	ST 1	ST 2	ST 3	ST 4	ST 5	ST 6	ST 7	ST 8	ST 9	ST 10	TOTAL
CERAMIC											
Porcelain											
Hard Paste											
Decalcomania											
fugitive											
unidentified	—	—	—	—	—	—	—	—	1	—	1
Undecorated											
unidentified	—	—	—	—	—	—	—	—	1	—	1
GLASS											
Machine Made											
Not applicable											
blue and yellow											
marble	—	—	—	—	—	—	—	—	—	1	1
Owens Machine Made											
clear											
vessel	—	—	—	—	1	—	—	—	—	—	1
Unidentified Manufacture											
Unid. lipping technique											
brown											
vessel	—	1	—	—	—	—	—	—	—	—	1
clear											
vessel	1	—	1	—	2	2	—	—	—	—	6
METAL											
Ferrous											
Iron											
sheet metal	—	—	—	—	—	—	9	—	—	—	9
unidentified	1	2	—	—	—	—	—	—	—	—	3
Type 11-12 nail											
nail	—	—	—	1	—	—	—	—	—	—	1
BRICK											
Unidentified Manufacture											
brick	1	—	—	—	—	1	4	3	—	—	9
hollow clay tile	—	—	—	—	1	—	—	—	—	—	1
MORTAR											
Lime											
mortar	—	1	—	—	—	—	—	—	—	—	1
TOTAL	3	4	1	1	4	3	13	3	2	1	35

beginning in 1905 and continue to be produced in the same manner today (American Toy Marble Museum 2008).

The ferrous metal from 16PC123 consists mostly of sheet metal; however, one wire nail was identified (Figure 6-5d). Wire nails were generally used in construction after 1892 and had largely replaced cut nails by 1896 (Nelson 1968). While most of the brick recovered from Moseley North 1 is of unidentified manufacture, one fragment of hollow clay tile is represented. Hollow, also known as structural, clay tile was produced by firms such as the National Fire Proofing Company, founded in 1889 (National Fire Proofing Company 1911). These tiles were used to construct homes and other buildings from the late nineteenth through early twentieth century.

Historic maps indicate that a structure was erected on the Moseley North 1 site between 1931 and 1934 (compare Figures 3-20 to 3-22) (MRC 1934;USGS 1931). Occupied for only a brief period, this structure was no longer extant by 1954 (USGS 1954) (see Figure 3-22). The artifacts recovered from the site likewise reflect occupation in the first half of the twentieth century.

The 90-ac Survey Area

This 90-ac survey area consists of 65-ac (26.3-ha) located on the batture side of the levee and 25-ac (10.3-ha) on the land side (see Figures 6-1 and 6-2). A crew of three conducted visual and shovel test survey of this survey area on transects spaced 30 m or 50 m apart. In total, 29 shovel tests were excavated at 30-m intervals, and 31 at 50-m intervals along these transects, respectively. Shovel tests were excavated to 50 cmbs or to sterile subsoil. A typical shove test in the project area consisted of 30 cm of very dark gray (10YR 3/1) silty clay overlying a least 20 cm of dark gray (10YR 4/1) oxidized silty clay. Shovel tests could not be excavated on the batture portion of the survey area, because it was completely flooded by the Mississippi River (Figures 6-6 and 6-7). One spot find was identified during the course of this survey—Spot Find 1 (see Figure 6-1). An additional six



Figure 6-6. The batture portion of the Moseley North project area. View to the east. Date: 4/15/15.



Figure 6-7. The batture portion of the Moseley North project area. View to the northwest. Date: 4/15/15.

shovel tests were excavated at 10-m intervals off of the initial positive shovel test. Spot Find 1 is discussed below.

Spot Find 1

Spot Find 1 consists of a brick fragment encountered in a shovel test excavated approximately 100 m west of 16PC123, and south of a field road. It is situated in Section 8, Township 4 South, Range 11 East in the Southeastern District (west bank of the Mississippi River) (see Figures 6-1). Shovel testing conducted at 10-m intervals off the positive shovel test encountered no additional cultural material or deposits. The stratigraphy in the one positive shovel test consisted of 30 cm of very dark gray (10YR 3/1) silty clay overlying a least 20 cm of dark gray (10YR 4/1) oxidized silty clay. This stratigraphy is identical to that documented at the Moseley North 1 site (16PC123) (see Figure 6-4). Spot Find 1 may be associated with a structure depicted in this vicinity, south of 16PC123, on the 1884 Mississippi River Commission map (see Figure 3-21). The location of this structure is now under LA 981.

Standing Structure Survey

There are no current plans to develop the Moseley North Project Area. Therefore, the APE for indirect effects for this study has been limited to the project area footprint. As previously stated, no standing structures were recorded within the portions of the Moseley North Project Area previously surveyed in 1982, 1994 and 2002. Likewise, no standing structures were recorded by CEI during the 2015 survey of the remaining 258.4 ac (104.6 ha) of the Moseley North Project Area.

CONCLUSIONS AND RECOMMENDATIONS

Between 23 and 25 February and 15 April 2015, CEI conducted a Phase I cultural resources and standing structure survey of the Moseley North Project Area in Point Coupée Parish, Louisiana, for the Baton Rouge Area Chamber (BRAC) as part of an industrial site assessment. The original scope of work called for a survey of approximately 348.3 ac (141 ha). However, 65 ac (26.3 ha) were previously surveyed by the National Park Service (NPS) in 1982 and 25 ac (10.3 ha) by CEI in 1994 and 2002 (Hahn et al. 2003). Hence, CEI's February 2015 examination was limited to the 258.4 ac (104.6 ha) of the BRAC study area that had not been previously surveyed. After submittal of a draft report on this initial survey, the Division of Archaeology (DOA), Louisiana Department of Culture, Recreation and Tourism, requested that the previously surveyed portions of the BRAC study area, constituting 90-ac (36.6-ha), be resurveyed. These areas were examined on 15 April 2015.

No previously recorded archaeological sites or historic standing structures occur within the portions of the BRAC study area surveyed in 1982, 1994, and 2002. One archaeological site and no standing structures were recorded in the newly surveyed portion of the BRAC project. The Moseley North 1 site (16PC123) is a small historic artifact scatter associated with a structure erected between 1931 and 1934 and removed by 1954 (see Figures 3-20 to 3-22) (MRC 1934; USGS 1931). As no *in situ* cultural deposits were encountered at this site, it is deemed to have little research potential. Therefore, site 16PC123 is recommended as ineligible for inclusion on the NRHP, and no additional investigations are required there.

REFERENCES

Abbot, Henry L.

- 2010 [1863] Department of the Gulf, Map No. 8: Atchafalaya Basin. 2009 Electronic document, NOAA Photo Library, <http://www.photolib.noaa.gov/htmls/cgs05238.htm>, accessed 25 March 2010.

Abernathy, Skip

- n.d. *Historic Ceramics-Decorative Techniques 1600 to Present*. Ms. on file, Coastal Environments, Inc., Baton Rouge.

The American Toy Marble Museum

- 2008 *Help Save America's Oldest Toy Factory*. Electronic Document, <http://www.americantoymarbles.com/marbleworks.htm>, accessed 18 March 2015.

Anonymous

- 2007 [1743?] *Carte du Cours Fleuve St. Louis depuis les Natchez jusqu'à son Embouchure Mississippi*. 2007 Electronic resource, Biblioteca Digital Hispánica, http://bibliotecadigitalhispanica.bne.es/R/-?func=dbin-jump-full&object_id=1557776¤t_base=GEN01, accessed 8 January 2010.

Anonymous

- 2009 [1732] *Carte de Cours du Fleuve St. Louis, Depuis son Embouchure Jusqu'au Poste des Natchez, Avec Partie des Rivieres Rouge, Rx. Noire, et des Taenças: Au Dépôt de la Marine Mars 1732*. 2009 Electronic document, Division du fonds du Service hydrographique de la Marine consacrée au Mississippi et à son embouchure, Portefeuille 138 bis du fonds du Service hydrographique de la Marine consacré aux côtes de Louisiane et du golphe du Mexique, Bibliothèque Nationale de France, <http://gallica.bnf.fr/ark:/12148/btv1b5966522g/f30.item>, accessed 30 January 2012.

Arthur, Stanley Clisby (editor)

- 1947 *History of Louisiana*. J. S. Harmanson, New Orleans, Louisiana.

- Asch, David L., Kenneth B. Farnsworth, and Nancy B. Asch.
1979 Woodland Subsistence and Settlement, West Central Illinois. Ms. on file, Foundation for Illinois Archeology, Kampsville.
- Autin, Whitney J., Scott F. Burns, Bobby J. Miller, Roger T. Saucier, and John I. Snead
1991 Quaternary Geology of the Lower Mississippi Valley. In *Quaternary Nonglacial Geology: Conterminous U.S.*, edited by R.B. Morrison, pp. 547-582. The Geology of North America, Vol. K-2. Geological Society of America, Boulder, Colorado.
- Barnett, James F., Jr.
2007 *The Natchez Indians: A History to 1735*. University Press of Mississippi, Jackson, Mississippi.
- Battie, David
1990 *Sotheby's Concise Encyclopedia of Porcelain*. Little, Brown and Company, London.
- Baudier, Roger
1939 *The Catholic Church in Louisiana*. Roger Baudier, New Orleans, Louisiana.
- Belmont, John S., and Stephen Williams
1981 Painted Pottery Horizons in the Southern Mississippi Valley. In *Traces of Prehistory: Papers in Honor of William G. Haag*, edited by Frederick H. West and Robert W. Neuman, pp. 19-42. Geoscience and Man No. 22. School of Geoscience, Louisiana State University, Baton Rouge.
- Blume, Kenneth J.
2002 Blockade of the CSA. In *Encyclopedia of the American Civil War: A Political, Social, and Military History*, edited by David Stephen Heidler and Jeanne T. Heidler, pp. 241-243. W.W. Norton & Company, New York.
- Bouchereau Louis
1872 *The Louisiana Sugar Report, 1871-1872, with an Appendix*. Pelican Book and Job Printing Office, New Orleans.
- Boyer, M.A.
1783 *The Royal Dictionary Abridged, in Two Parts*. M.A. Boyer, London, United Kingdom.
- Brain, Jeffrey P.
1978 Late Prehistoric Settlement Patterning in the Yazoo Basin and Natchez Bluffs Regions of the Lower Mississippi Valley. In *Mississippian Settlement Patterns*, edited by Bruce D. Smith, pp. 331-368. Academic Press, New York.

- 1988 *Tunica Archaeology*. Papers of the Peabody Museum of Archaeology and Ethnology, Vol. 78. Harvard University, Cambridge.
- Braun, D. P.
 1977 Middle-Woodland—(Early) Late Woodland Social Change in the Prehistoric Central Mid-Western U.S. Unpublished Ph.D. dissertation. Department of Anthropology, University of Michigan, Ann Arbor.
- Brown, Ian W.
 1985 Plaquemine Architectural Patterns in the Natchez Bluffs and Surrounding Regions of the Lower Mississippi Valley. *Midcontinental Journal of Archaeology* 10:251-305.
- Broutin, Ignace François
 2007 [1731] Carte Particuliere du Cours du Fleuve Missisipy ou St. Louis ala Louisiane Depuis la Nouvelle Orleans jusqu'aux Natchez. 2007 Electronic document, Bibliothèque Nationale de France, Département Cartes et plans, CPL GE C 5015, <http://gallica.bnf.fr/ark:/12148/btv1b6700342r/f2.item>, accessed 28 April 2010.
- Bureau of the Census, United States of America (Census Bureau)
 1820 1820 manuscript population census of Pointe Coupée Parish, Louisiana, Fourth Census of the United States, Bureau of the Census, United States of America, Microfilm Publication, Roll M33_31, Image 121, Page 123, Record Group 29, National Archives and Records Administration, Washington, D.C.
- Byrd, Kathleen M., and Robert W. Neuman
 1978 Archaeological Data Relative to Prehistoric Subsistence in the Lower Mississippi River Alluvial Valley. In *Man and Environment in the Lower Mississippi Valley*, edited by Sam B. Hilliard, pp. 9-21. Geoscience and Man No. 14. School of Geoscience, Louisiana State University, Baton Rouge.
- Caillot, Marc-Antoine
 2013 *A Company Man: The Remarkable French-Atlantic Voyage of a Clerk for the Company of the Indies*. Translated by Teri F. Chalmers. The Historic New Orleans Collection, New Orleans, Louisiana.
- Caldwell, Joseph R., and R. L. Hall
 1964 *Hopwellian Studies*. Scientific Paper No. 12. Illinois State Museum, Springfield.
- Calhoun, Milburn and Bernie McGovern (editors)
 2007 *Louisiana Almanac*. Pelican Publishing Company, Inc., New Orleans, Louisiana.

- Casey, Powell A.
 1983 *Encyclopedia of Forts, Posts, Named Camps and Other Military Installations in Louisiana, 1700-1981*. Claitor's Publishing, Baton Rouge, Louisiana.
- Champomier, P.A.
 1845 *Statement of Sugar Made in Louisiana in 1844*. Cook, Young & Co., New Orleans, Louisiana.
- Charlevoix, Pierre Francois Xavier
 1744 *Journal d'un Voyage fait par Ordre du Roi dans l'Amérique Septentrionale*, Vol. 3. Rollin Fils, Paris, France.
- Chomko, Stephen A., and Gary W. Crawford
 1978 Plant Husbandry in Prehistoric East North America: New Evidence for its Development. *American Antiquity* 44:405-408.
- Claitor's Publishing Division
 1975 [1892] *Biographical and Historical Memoirs of Louisiana*. 3 volumes. Reprinted, Louisiana Classic Series Reprint, Baton Rouge.
- Coker, William S.
 1999 Pensacola, 1686–1821. In *Archaeology of Colonial Pensacola*, edited by Judith Ann Bense, pp. 5-60. University Press of Florida, Gainesville, Florida.
- Collot, Victor
 1826 *A Journey in North America*, Vol. II. Arthus Bertrand, Paris, France.
- Conrad, Glenn R.
 1970 *The First Families of Louisiana*. Claitor's Publishing Division, Baton Rouge.
- Costello, Brian J.
 2007 *Desolation Unmeasured: The Tragic History of Floods in Pointe Coupee Parish, Louisiana*. New Roads Printing, New Roads, Louisiana.
-
- 2010 *A History of Pointe Coupée Parish, Louisiana*. Margaret Media, Inc., Donaldsonville, Louisiana.
- Davis, Dave D. (editor)
 1984 *Perspectives on Gulf Coast Prehistory*. University of Florida Press, Gainesville.
- Dartaguiette, Bernard Diron
 2009 [1732] Fleuve St Louis cy devant Mississipy relevé à la boussole par le Sr. Diron l'an 1719 depuis la Nouvelle Orléans en montant jusqu'au village sauvage Cahokia, pays des Illinois, distance de 230 lieues en ligne directe et de quatre cents lieues suivant les circuits et détours, à Paris, le 20 may 1732. 2009 Electronic document, Biliothèque Nationale de France, Département Cartes et

plans, GE C-9120 (RES), <http://gallica.bnf.fr/ark:/12148/btv1b7200288d/f8.item.r>, accessed 21 June 2012.

de Culloh, William J.

1858 Manuscript U.S. Check Map for Township 3 and 4 South, Range 11 East, Southeastern District Louisiana (West of the Mississippi River). Map on file, Louisiana State Land Office, Baton Rouge.

de Fer, Nicolas

2010 [1701] *Les Costes aux Environs de la Riviere de Misisipi: Decouvertes par Mr. de la Salle en 1683 et reconnues par Mr. le Chevallier d'Iberville en 1698 et 1699*. 2010 Electronic document, Library of Congress Geography and Map Division Washington, D.C., <http://www.loc.gov/resource/g4042m.ct001034/>, accessed 29 April 2010.

Degelos, Pierre A.

1831 *Statement of Sugar Made in Louisiana in the Year 1831*. Benjamin Levy, Bookseller and Stationer, New Orleans.

1892 Statement of Sugar Made in Louisiana in 1828 and 1829. *The Louisiana Planter and Sugar Manufacturer* 9(4):65-68.

de L'Isle, Guillaume

2010 [1702] *Carte de la Rivière de Mississipi : Sur les Mémoires de Mr. Le Sueur qui en a pris avec la Boussole Tous les Tours et Detours Depuis la Mer Jusqu'à la Rivière St. Pierre, et a Pris la Hauteur du Pole en Plusieurs Endroits*. 2010 Electronic document, Library of Congress Geography and Map Division Washington, D.C., <http://hdl.loc.gov/loc.gmd/g4042m.ct000665>, accessed 29 April 2010.

Diocese of Baton Rouge (DOBR)

1980 *Diocese of Baton Rouge Catholic Church Records: Volume 2, 1770–1803*. Diocese of Baton Rouge, Baton Rouge, Louisiana.

2002 *Diocese of Baton Rouge Catholic Church Records: Volume 1b Pointe Coupee Records, 1722–1769*. Diocese of Baton Rouge, Baton Rouge, Louisiana.

Dufour, Charles L.

1982 The Conquest of the Mississippi. In *The Image of War: 1861-1865; Volume II, The Guns of '62*, edited by William C. Davis, pp. 255-421. Doubleday & Company, Garden City, New York.

Du Pratz, Antoine Simon Le Page

1758 *Histoire de la Louisiane*, Vol. II. De Bure, La Veuve Delaguette and Lambert, Paris, France.

- 1763 *The History of Louisiana, or of the Western Parts of Virginia and Carolina: Containing a Description of the Countries that Lye on Both Sides of the River Missisipi: with an Account of the Settlements, Inhabitants, Soil, Climate, and Products*, Vol. II. T. Becket and P.A. Hourt, London, United Kingdom.
- 1975 [1774] *The History of Louisiana*. Louisiana State University Press, Baton Rouge.
- Eberwine, James, Susan Barrett Smith, Alice Ivas, Anbbne Titlebaum, Sarah hanley, and William P. Athens
2009 *Phase I Cultural Resources Survey of the Proposed 2007 River Bend Nuclear Station Expansion Project, West Feliciana Parish, Louisiana*. R. Christopher Goodwin & Associates, Inc. Submitted to Black & Veatch Corporation, Overland Parks, Kansas.
- Edwards, Diana
1994 *Black Basalt*. Antique Collectors' Club, Woodbridge, England.
- Edwards, Jay D., and Tom Wells
1993 *Historic Louisiana Nails: Aids to the Dating of Old Buildings*. Geoscience Publications, Department of Geography and Anthropology, Louisiana State University, Baton Rouge.
- Fisk, H. N.
1944 *Geological Investigation of the Alluvial Valley of the Lower Mississippi River*. Mississippi River Commission, Vicksburg District, U.S. Army Corps of Engineers.
- Ford, James A., and George I. Quimby, Jr.
1945 *The Tchefuncte Culture, an Early Occupation of the Lower Mississippi Valley*. Memoir No. 2. Society for American Archaeology, Menasha, Wisconsin.
- Ford, Richard I.
1974 Northeastern Archaeology: Past and Future Directions. *Annual Review of Anthropology* 3:385-413.
- Fortier, Alcée
1909 *Louisiana: Comprising Sketches of Counties, Towns, Events, Institutions, and Persons, Arranged in Cyclopedic Form*. 3 vols. Southern Historical Association, Atlanta.
- French, Benjamin Franklin
1851 *Historical Collections of Louisiana, Embracing Translations of Many Rare and Valuable Documents Relating to the Natural, Civil and Political History of that State*, Part III. D. Appleton & Company, New York, New York.

- Fritz, G. J., and T. R. Kidder
 1993 Recent Investigations into Prehistoric Agriculture in the Lower Mississippi Valley. *Southeastern Archaeology* 12:1-14.
- Gagliano, Sherwood M.
 1963 A Survey of Preceramic Occupations in Portions of South Louisiana and South Mississippi. *Florida Anthropologist* 16(4):105-132.
- Gagliano, Sherwood M., Richard A. Weinstein, and Eileen K. Burden
 1975 *Investigations Along the Gulf Intracoastal Waterways, Coastal Louisiana Area*. Coastal Environments, Inc., Baton Rouge. Submitted to New Orleans District, U.S. Army Corps of Engineers.
- Gagliano, Sherwood M., Richard A. Weinstein, and Eileen K. Burden
 1976 *Archeological Survey: Colonial Pipe Line Company Forty-Inch Pipeline, East Feliciana Parish, Louisiana, to Orange County, Texas*. Coastal Environments, Inc. Submitted to the Colonial Pipeline Company, Houston, Texas. 22-0121
- Gauld, George
 2012 [1778] *A Plan of the Coast of Part of West Florida & Louisiana Including the River Mississippi from its Entrances as High up as the River Yazous*. Surveyed by George Gauld M.A. for the Right Honourable the Board of Admiralty. London. Library of Congress Geography and Map Division, Washington, DC. Electronic resource, <http://hdl.loc.gov/loc.gmd/g4012c.ct000670>, accessed 15 February 2012.
- Gertjejansen, Doyle J.
 1982 Laboratory Simulation of Tchefuncte Period Ceramic Vessels from the Pontchartrain Basin. Paper presented at the 8th annual meeting of the Louisiana Archaeological Society, Thibodaux, Louisiana.
- Ginn, Mildred K.
 1940 A History of Rice Production in Louisiana to 1896. *The Louisiana Historical Quarterly* 23(2):544-588.
- Giraud, Marcel
 1966 *Historie de la Louisiane Française: L'époque de John Law (1717–1720)*. Presses Universitaires de France, Paris.
-
- 1974 *Historie de la Louisiane Française: La Louisiane Après le Système de Law (1721–1723)*. Presses Universitaires de France, Paris.
-
- 1991 *A History of French Louisiana: Volume Five, The Company of the Indies, 1723–1731*. Louisiana State University Press, Baton Rouge, Louisiana.

The Goodspeed Publishing Company

- 1892 *Biographical and Historical Memoirs of Louisiana: Embracing an Authentic and Comprehensive Account of the Chief Events in the History of the State, a Special Sketch of Every Parish and a Record of the Lives of Many of the Most Worthy and Illustrious Families and Individuals*, Vol. II. The Goodspeed Publishing Company, Chicago, Illinois.

Google Earth

- 2015 Aerial photography of Point Coupee Parish, Louisiana. Imagery date 7 December 2014 Google, Mountain View, California. *Electronic document* accessed, 16 March 2015.

Griffin, James. B.

- 1967 Eastern North American Archaeology: A Summary. *Science* 156(3772):175-191.

Guevin, Bryan L.

- 1983 The Ethno-Archaeology of the Houma Indians. Unpublished Master's thesis, Department of Geography and Anthropology, Louisiana State University, Baton Rouge.

Hahn, Thurston H. G., III, Jeramé Cramer, Tara M. Bond, Richard Mahoney, Carey Coxe, Wayne Coco, Julie Doucet, and Richard A. Weinstein.

- 2003 *Ploup to Vaughn Creek: A Cultural Resources Survey for the Proposed St. Francisville Bridge, (State Project No. 700-28-0022) Pointe Coupée and West Feliciana Parishes, Louisiana*. Coastal Environments, Inc. Submitted to HNTB Corporation, Baton Rouge, Louisiana. 22-2018

Hearn, Chester G.

- 1995 *The Capture of New Orleans: 1862*. Louisiana State University Press, Baton Rouge, Louisiana.

Holmes, Jack D.L.

- 1970 *A Guide to Spanish Louisiana 1762–1806*. Louisiana Collection Series, New Orleans, Louisiana.

Howell, Michael F.

- 1989 *Feliciana Confederates: A Compilation of the Soldiers of East and West Feliciana Parishes, 1861–1865*. Feliciana Confederates, St. Francisville, Louisiana.

Humphreys, A.A. and H.L. Abbott

- 1858 *Mississippi River from Red River Landing to Carrollton (New Orleans)*. Chart No. 16. Scale 1:10,000. U.S. National Archives, Record Group 77, MD1-30.

Jackson, Homer Edwin

- 1986 *Sedentism and Hunter-gatherer Adaptations in the Lower Mississippi Valley: Subsistence Strategies during the Poverty Point Period*. Unpublished Ph.D. dissertation, Department of Anthropology, University of Michigan, Ann Arbor.

Jones, Olive

- 1971 *Some Comments on the Newman Dating Key*. Society for Historical Archaeology Newsletter 4(3):7-13.

Kelley, David B., and David W. Hopkins

- 1991 *Cultural Resources Survey and Testing in the Area of the Transcontinental Gas Pipe Line Mississippi River Crossing Project, West Feliciana and Pointe Coupee Parishes, Louisiana*. Coastal Environments, Inc. Submitted to Transcontinental Gas Pipe Line Corporation, Houston, Texas. 22-1549

Kidder, Tristram R.

- 2007 Early Woodland in the Upper Tensas Basin, Northeast Louisiana. Manuscript on file, Washington University, St. Louis.

Kidder, Tristram R., Katherine A. Adelsberger, Lee J. Arco, and Timothy M. Schilling

- 2008 Basin-Scale Reconstruction of the Geological Context of Human Settlement: An Example from the Lower Mississippi Valley, U.S.A. *Quaternary Science Reviews* 27(11-12):1250-1270.

Kidder, Tristram R., and Gayle J. Fritz

- 1993 Subsistence and Social Change in the Lower Mississippi Valley: The Reno Brake and Osceola Sites, Louisiana. *Journal of Field Archaeology* 20:281-297.

Kovel, Ralph and Terry Kovel

- 1986 *Kovels' New Dictionary of Marks*. Crown Publishers, Inc., New York.

Kniffen, Fred B.

- 1936 Preliminary Report on the Indian Mounds and Middens of Plaquemines and St. Bernard Parishes. In *Lower Mississippi River Delta: Reports on the Geology of Plaquemines and St. Bernard Parishes*, by Richard J. Russell, H. V. Howe, J. H. McGuirt, C. F. Dohm, W. Hadley, Jr., F. B. Kniffen, and C. A. Brown, pp. 407-422. Geological Bulletin No. 8. Geological Survey, Louisiana Department of Conservation, New Orleans.

Lafon, Barthélémy

- 2010 [1806] *Carte Générale du Territoire d'Orléans Comprenant aussi la Floride Occidentale et une Portion du Territoire du Mississipi*. Library of Congress Geography and Map Division, Washington D.C. 2010 Electronic document, <http://hdl.loc.gov/gmd/g4010.ct000672>, accessed 28 April 2010.

La Harpe, Jean Baptiste Benard

- 1971 *The Historical Journal of the Establishment of the French in Louisiana*. Translated by Joan Cain and Virginia Koenig, edited and annotated by Glenn R. Conrad. U.S.L. History Series No. 3. Center for Louisiana Studies, University of Southwestern Louisiana, Lafayette.

Laussat, Pierre Clément de

- 1978 *Memoirs of My Life*. Translated by Agnes-Josephine Pastwa. Louisiana State University Press, Baton Rouge, Louisiana.

Lee, Aubra L.

- 2010 Marksville and Middle Woodland. In *Archaeology of Louisiana*, M. A. Rees, editor, pp. 135-156. Louisiana State University Press, Baton Rouge.

Liebowitz, Joan

- 1985 *Yellow Ware: The Transitional Ceramic*. Schiffer Publishing, West Chester, Pennsylvania.

Lofstrom, Edward

- 1976 A Seriation of Historic Ceramics in the Midwest, 1780-1870. Paper presented at the Joint Plains-Midwest Anthropological Conference.

Lorrain, Dessamae

- 1968 An Archaeologist's Guide to Nineteenth Century American Glass. *Historical Archaeology* 2.

Lowrie, Walter (editor)

- 1834 *American State Papers: Documents, Legislative and Executive, of the Congress of the United States, in Relation to the Public Lands, from the First Session of the First Congress to the First Session of the Twenty-Third Congress: March 4, 1789 to June 15, 1834: Volume II, from March 4th, 1789 to February 27th, 1809*. Duff and Green, Washington, D.C.

McGimsey, Charles R.

- 2010 Marksville and the Middle Woodland. In *Archaeology of Louisiana*, M. A. Rees, editor, pp. 120-134. Louisiana State University Press, Baton Rouge.

McIntire, William G.

- 1958 Prehistoric Indian Settlements of the Changing Mississippi River Delta *Coastal Studies Series, Report No. 1*. Louisiana State University, Baton Rouge, Louisiana.

-
- 1980 *Cultural Resources Survey for the Texas Eastern Transmission Corporation Proposed 30" Pipeline Between the Gillis Station and New Roads*. William G. McIntire, Inc. Submitted to the Texas Eastern Transmission Corporation, Houston, Texas. 22-0652

McWilliams, Richebourg Gaillard

1953 *Fleur de Lys and Calumet: Being the Penicaut Narrative of French Adventure in Louisiana*. Louisiana State University Press, Baton Rouge.

1981 *Iberville's Gulf Journals*. University of Alabama Press, University, Alabama.

Maduell, Charles R.

1972 *The Census Tables for the French Colony of Louisiana from 1699 Through 1732*. Genealogical Publishing Co., Inc., Baltimore, Maryland.

Majewski, Teresita, and Michael J. O'Brien

1987 The Use and Misuse of Nineteenth-Century English and American Ceramics in Archaeological Analysis. In *Advances in Archaeological Method and Theory*, Vol. 11, edited by Michael B. Schiffer, pp. 97-209. Academic Press, Chicago.

Maygarden, Benjamin

1995 History of the Barataria Basin and the Study Area. In *Archeological Data Recovery at 16JE218, Jefferson Parish, Louisiana*, edited by Tristram R. Kidder. Earth Search, Inc., New Orleans. Submitted to U.S. Army Corps of Engineers—New Orleans District, Contract Number DACW29-92-D-0012.

Meyers, Rose

1976 *A History of Baton Rouge, 1699–1812*. Louisiana State University Press, Baton Rouge.

Milanich, Jerald

1994 *Archaeology of Precolumbian Florida*. University Presses of Florida, Gainesville.

Miller, Cinder Griffin, R. Christopher Goodwin, Glenn Walter, T.R. Kidder, Marie Danforth, Roger T. Saucier, John Jones, William Hayden, Allen Green, Angele Montana, Nathaniel Heller, Charlene Keck, Michele Williams, and Dave D. Davis

2000 *Phase III Data Recovery Excavations at the Site 16LF66, the Discovery Site, A Site Identified within the Discovery Producer Services LLC Larose Gas Processing Plant in Lafourche Parish, Louisiana*. R. Christopher Goodwin and Associates, Inc. Submitted to Discovery Gas Transmission, LLC., St. Rose, Louisiana.

Miller, George L.

1980 Classification and Economic Scaling of 19th Century Ceramics. *Historical Archaeology* 14:1-41.

Miller, George L. and Catherine Sullivan

1984 Machine-Made Glass Containers and the End of Production for Mouth-Blown Bottles. *Historical Archaeology* 18(2):81-96.

Mississippi River Commission (MRC)

1883 *Detail Map of the Lower Mississippi River from the Mouth of the Ohio River to the Head of the Passes in Eighty Six Sheets: Survey of the Mississippi River, Chart No. 64.* Scale 1:20,000. Mississippi River Commission, Vicksburg, Mississippi.

1921 *Survey of the Mississippi River, Chart No. 64.* Scale 1:20,000. Mississippi River Commission, Vicksburg, Mississippi.

1934 *Survey of the Mississippi River.* Scale 1:20,000. Mississippi River Commission, Vicksburg, Mississippi.

Moir, Randall W.

1987 Refined Earthenwares and Rural Ceramic Traditions. In *Historic Buildings, Material Culture, and People of the Prairie Margin*, edited by David H. Journey and Randall W. Moir, pp. 97-120. Richland Creek Technical Series, vol. 5. Institute for the Study of Earth and Man, Southern Methodist University, Dallas.

Munsey, Cecil

1970 *The Illustrated Guide to Collecting Bottles.* Hawthorn Books, New York.

National Park Service (NPS)

1991 How to Apply the National Register Criteria for Evaluation. National Register Bulletin. No. 15. Interagency Resources Division, National Park Service, U.S. Department of the Interior, Washington, D.C.

National Fire Proofing Company

1911 *Fireproof Construction: For Houses and Other Buildings of Moderate Cost.* National Fire Proofing Company, Pittsburg, Pennsylvania.

Nelson, Lee H.

1968 Nail Chronology as an Aid to Dating Old Buildings. *History News* 24(11).

Neuman, Robert W.

1984 *An Introduction to Louisiana Archaeology.* Louisiana State University Press, Baton Rouge.

Newbound, Betty and Bill Newbound

1995 *Collector's Encyclopedia of Milk Glass.* Collector Books. Paducah, Kentucky.

New World Research, Inc.

1984 *Cultural Resources Survey Over Two Proposed Impact Areas in Pointe Coupee and West Feliciana Parishes, Louisiana.* New World Research, Inc. Submitted to EMANCO, Inc., Houston, Texas.

Noel Hume, Ivor

1969 *Historical Archaeology*. Alfred A. Knopf, New York.

1972 *A Guide to the Artifacts of Colonial America*. Alfred A. Knopf, New York.

O'Neill, Charles E.

1977 *Charlevoix's Louisiana: Selections from the History and the Journal*. Louisiana State University Press, Baton Rouge.

Persac, Adrien

1858 *Norman's Chart of the Lower Mississippi River from Natchez to New Orleans*. B.M. Norman, New Orleans. Map G4042.M5G46 1858 .P. Geography and Map Division, Library of Congress, Washington, D.C.

Phillips, John C., L. Janice Campbell, Carol S. Weed, and Robert W. Carr

1984 *Cultural Resources Investigations of the Proposed Transcontinental Gas Pipe Line Corporation Main Line Expansion, East and West Feliciana Parishes, Louisiana*. New World Research, Inc. Submitted to EMANCO Inc., Houston, Texas.

Phillips, Philip P.

1970 *Archaeological Survey in the Lower Yazoo Basin, Mississippi, 1949-1955*. Paper No. 60. Peabody Museum of Archaeology and Ethnology, Harvard University, Cambridge.

Pittman, Philip

1973 [1770] *The Present State of the European Settlements on the Mississippi* [sic]. J. Nourse, London. 1973 facsimile edition University of Florida Press, Gainesville, Florida.

2010 [1770] *A Draught of the Mississippi* [sic] *River from Balise up to Fort Chartres*. Extracted from *The Present State of the European Settlements on the Mississippi* [sic], J. Nourse, London. Electronic document, Library of Congress Geography and Map Division Washington, D.C., <<http://hdl.loc.gov/loc.gmd/g4042m.ra000001>>. Accessed 9 March 2010.

Powell, Andrew

1859 *Map of the Parishes of Pointe Coupée, West Baton Rouge and Iberville Including Parts of the Parishes of St. Martins and Ascension, Louisiana*. Norman B. Leventhal Map Center, Boston Public Library, Boston, Mass.

Powell, John W., Gail L. Bowden, Donny L. Latiolais, and Lyfon Morris

1982 *Soil Survey of Pointe Coupée and West Baton Rouge Parishes, Louisiana*. Soil Conservation Service, U.S. Department of Agriculture, Washington, D.C.

Price, Cynthia R.

- 1982 *19th Century Ceramics in the Eastern Ozark Border Region*. Monograph Series No. 1. Center for Archaeological Research, Southwest Missouri State University, Springfield.

Putnam, J. A. and H. Bull

- 1932 *The Trees of the Bottomlands of the Mississippi River Delta Region*. Occasional Paper No. 27. Southern Forest Experiment Station, United States Department of Agriculture, Washington, D.C.

Quimby, George I., Jr.

- 1951 *The Medora Site, West Baton Rouge Parish, Louisiana*. Anthropological Series No. 24(2). Field Museum of Natural History, Chicago.

- 1957 *The Bayou Goula Site, Iberville Parish, Louisiana*. Fieldiana No. 47(2). Chicago Natural History Museum, Chicago.

Rehder, John Burkardt

- 1971 *Sugar Plantation Settlements of Southern Louisiana: A Cultural Geography*. Unpublished Ph.D. Dissertation, Department of Geography and Anthropology, Louisiana State University, Baton Rouge.

Rightor, A.F.

- 1829 Manuscript "Old Map" for Township 4 South, Range 11 East, Southeastern District Louisiana (West of the Mississippi River). Map on file, Louisiana State Land Office, Baton Rouge.

Riordan, Timothy B.

- 1981 *Glass Artifacts*. In *Bay Springs Mill: Historical Archaeology of a Rural Mississippi Cotton Milling Community*, by William H. Adams, Steven D. Smith, David F. Barton, Timothy B. Riordan, and Stephen Poyser, pp. 293-316. Resource Analysts, Inc. Submitted to National Park Service, U.S. Department of the Interior, Albuquerque.

Roberts, Katherine M.

- 2006 *Seasonality, Optimal Foraging, and Prehistoric Plant Food Production in the Lower Mississippi in the Tensas Basin Northeast Louisiana*. Unpublished Ph.D. Dissertation, Department of Anthropology, Washington University in St. Louis.

Roe, Lori M., and Timothy M. Schilling

- 2010 *Coles Creek*. In *Archaeology of Louisiana*, edited by Mark A. Rees, pp. 157-171. Louisiana State University Press, Baton Rouge.

Rolingson, Martha Ann (editor)

- 1982 *Emerging Patterns of Plum Bayou Culture: Preliminary Investigations of the Toltec Mounds Research Project*. Research Series No. 18. Arkansas Archeological Survey, Fayetteville.

Ross, John

- 1772 *Course of the River Mississippi, from the Balise to Fort Chartres; taken on an expedition to the Illinois, in the latter end of the year 1765.* Robert Sayer, London. Copy on file, Cartographic Information Center, Louisiana State University, Baton Rouge, Louisiana.

Ryan, Joanne (editor)

- 2004 *Data-Recovery Excavations at the Hedgeland Site (16CT19), Catahoula Parish, Louisiana.* Coastal Environments, Inc. Submitted to U.S. Army Corps of Engineers, Vicksburg District.

Ryan, Joanne, and Douglas C. Wells

- 2007 *Phase III Data-Recovery Excavations at 16IV94 and 16IV109, Iberville Parish, Louisiana.* Coastal Environments, Inc. Submitted to Providence Engineering, Baton Rouge.

Saucier, Roger T.

- 1969 *Geological Investigation of the Mississippi River Area: Artonish to Donaldsonville, LA.* Technical Report S-69-4. Vicksburg District, U.S. Army Corps of Engineers.

-
- 1974 *Quaternary Geology of the Lower Mississippi Valley.* Research Series No. 6. Arkansas Archeological Survey, Fayetteville.

-
- 1994 *Geomorphology and Quaternary Geologic History of the Lower Mississippi Valley.* 2 Volumes. U.S. Army Corps of Engineers Waterways Experiment Station, Vicksburg.

Schmitz, Mark

- 1977 *Economic Analysis of Antebellum Sugar Plantations in Louisiana.* Arno Press, New York.

Shea, Andrea B.

- 1978 Botanical Remains. In *The Peripheries of Poverty Point*, edited by Prentice M. Thomas and L. Janice Campbell, pp. 245-260. Report of Investigations No. 12. New World Research, Inc., Pollack, Louisiana.

Shuman, Malcolm K.

- 2014 *Phase I Cultural Resources Survey of a Proposed Pipeline Right-of-Way at Big Cajun II, Pointe Coupee Parish, Louisiana.* CRC, LLC. Submitted to Tim Morton & Associates, Lafayette, Louisiana. 22-4494

- Shuman, Malcolm K., Taylor Gabour, Brandy N. Kerr, and Jason Foust
 2013 *Phase I Cultural Resources Survey of 640 Acres (259 Hectares) Proposed for Industrial Certification Near New Roads, Pointe Coupee Parish, Louisiana*. Surveys Unlimited Research Associates, Inc. Submitted to The Baton Rouge Area Chamber, Baton Rouge, Louisiana. 22-4367
- South, Stanley
 1972 Evolution and Horizon as Revealed in Ceramic Analysis in Historical Archaeology. *Conference on Historic Site Archaeology Papers* 6:71-116.
- Stoltman, James B.
 1978 Temporal Models In Prehistory: An Example from Eastern North America. *Current Anthropology* 19(4):703-746.
- Struever, Stuart, and Kent Vickery
 1973 The Beginning of Cultivation in the Midwest-Riverine Area of the United States. *American Anthropologist* 75:1197-1221.
- Stuart, David R., and Jerome A. Greene
 1983a *An Archeological Survey of the Proposed Pointe Coupee-Arbroth Levee Enlargement (M-270 to 249.5-R), Pointe Coupee and West Baton Rouge Parishes, Louisiana*. National Park Service. Submitted to the U.S. Army Corps of Engineers, New Orleans District. 22-0846
-
- 1983b *An Archeological Survey of the Proposed Bayou Sara Revetment (M-264.9 to 260-L), West Feliciana Parish, Louisiana*. National Park Service. Submitted to the U.S. Army Corps of Engineers, New Orleans District.
- Styles, Bonnie Whatley
 1981 *Faunal Exploitation and Resource Selection: Early and Late Woodland Subsistence in the Lower Illinois Valley*. Archeological Program, Northwestern University, Evanston, Illinois.
- Swanson, Betsy
 1975 *Historic Jefferson Parish, From Shore to Shore*. Pelican Publishing Company, Gretna, Louisiana.
- Swanson, Mark T.
 1983 *A Cultural Resources Survey of the Proposed Transcontinental Gas Pipe Line Corporation Mainline Expansion, Allen and Pointe Coupee Parishes, Louisiana*. New World Research, Inc. Submitted to EMANCO, Inc., Houston, Texas. 22-1151
- Swanton, John R.
 1911 *Indian Tribes of the Lower Mississippi Valley and Adjacent Coast of the Gulf of Mexico*. Bulletin No. 43. Bureau of American Ethnology, Smithsonian Institution, Washington, D.C.

- 1946 *The Indians of the Southeastern United States*. Bulletin No. 137. Bureau of American Ethnology, Smithsonian Institution. Reprinted 1969 by Greenwood Press, New York.
- Toth, Edwin Alan
 1988 *Early Marksville Phases in the Lower Mississippi Valley: A Study of Culture Contact Dynamics*. Archaeological Report No. 21. Mississippi Department of Archives and History, Jackson.
- Toulouse, Julian H.
 1969a A Primer on Mold Seams, Part I. *Western Collector* 7(11):526-535.
 1969b A Primer on Mold Seams, Part II. *Western Collector* 7(12):578-587.
- United States Geological Survey (USGS)
 1931 *New Roads, LA*. 1:62,500 series (topographic). U.S. Geological Survey, Washington, D.C.
 1953 *New Roads, LA*. 1:24,000 series (topographic). U.S. Geological Survey, Washington, D.C.
 1954 *Port Hudson, LA*. 1:24,000 series (topographic). U.S. Geological Survey, Washington, D.C.
 1962 *New Roads, LA*. 1:24,000 series (topographic). U.S. Geological Survey, Washington, D.C.
 1963 *Port Hudson, LA*. 1:24,000 series (topographic). U.S. Geological Survey, Washington, D.C.
 1980a *New Roads, LA*. 1:24,000 series (topographic). U.S. Geological Survey, Washington, D.C.
 1980b *Port Hudson, LA*. 1:24,000 series (topographic). U.S. Geological Survey, Washington, D.C.
 2012a *New Roads, LA*. 1:24,000 series (topographic). U.S. Geological Survey, Washington, D.C.
 2012b *Port Hudson, LA*. 1:24,000 series (topographic). U.S. Geological Survey, Washington, D.C.
- Waggoner, Mary Rush Gwin
 2005 *Le Plus Beau Païs du Monde: Completing the Picture of Proprietary Louisiana, 1699–1722*. Center for Louisiana Studies, Lafayette, Louisiana.

- Walbridge, William I.
1920 *American Bottles Old & New: A Story of the Industry in the United States*. Caslon Press, Toledo, Ohio.
- Wall, Bennet H., Light Townsend Cummins, Judith Kelleher Schafer, Edward F. Haas, and Michael L. Kurtz
2002 *Louisiana: A History*. Harlan Davidson, Inc., Wheeling, Illinois.
- Webb, Clarence H.
1977 *The Poverty Point Culture*. Geoscience and Man No. 17. Museum of Geoscience, Louisiana State University, Baton Rouge.
- Webb, William S.
1946 Indian Knoll, site Oh 2, Ohio County, Kentucky. *University of Kentucky, Reports in Archeology and Anthropology* 4(3).
- Weinstein, Richard A.
1987 Development and Regional Variation of Plaquemine Culture in South Louisiana. In *Emergent Mississippian: Proceedings of the Sixth Mid-South Archaeological Conference*, edited by Richard A. Marshall, pp. 85-106. Occasional Paper No. 87-01. Cobb Institute of Archaeology, Mississippi State University, Mississippi State.
- Weinstein, Richard A. and Sherwood M. Gagliano
1985 The Shifting Deltaic Coast of the Lafourche Country and its Prehistoric Settlement. In *The Lafourche Country*, edited by Philip D. Uzee. pp. 122-149. The Center for Louisiana Studies, University of Southwestern Louisiana, Lafayette.
- Weinstein, Richard A., and David B. Kelley
1992 *Cultural Resources Investigations in the Terrebonne Marsh, South-Central Louisiana*. Coastal Environments, Inc., Baton Rouge. Submitted to U.S. Army Corps of Engineers, New Orleans District.
- Weinstein, Richard A., and Philip Rivet
1978 *Beau Mire: A Late Tchula Period Site of the Tchefoncte Culture, Ascension Parish, Louisiana*. Anthropological Report No. 1. Louisiana Archaeological Survey and Antiquities Commission, Baton Rouge.
- Weinstein, Richard A., Eileen K. Burden, Katherine L. Brooks, and Sherwood M. Gagliano
1978 *Cultural Resource Survey of the Proposed Relocation Route of U.S. 90 (LA 3052), Assumption, St. Mary, and Terrebonne Parishes, Louisiana*. Coastal Environments, Inc. Submitted to Office of Highways, Louisiana Department of Transportation and Development.

- Weinstein, Richard A., Eileen K. Burden, and Sherwood M. Gagliano
1977 Archaeological Phases-Coastal Louisiana. Paper presented at the 3rd Annual Meeting of the Louisiana Archaeological Society, New Orleans.
- Wells, Douglas C.
1997 Political Competition and Site Placement: Late Prehistoric Settlement in the Tensas Basin of Northeast Louisiana. *Louisiana Archaeology* 22(1995):71-91.
-
- 1998 The Early Coles Creek Period and the Evolution of Social Inequality in the Lower Mississippi Valley. Unpublished Ph.D. Dissertation, Department of Anthropology, Tulane University, New Orleans.
- Wells, Douglas C., and Andrea R. McCarthy
2011 *Phase II Cultural Resources Testing at the Charlie Pierce Site (16LF279), Lafourche Parish, Louisiana*. Coastal Environments, Inc. Submitted to North Lafourche Conservation, Levee, and Drainage District, Raceland, Louisiana.
- Whittington, G.P.
1970 *Rapides Parish, Louisiana: A History*. Reprinted. Franklin Press, Baton Rouge. Originally published 1932, 1933, 1934 and 1935. *Louisiana Historical Quarterly* 15(4):567-580; 16(1):27-37; 17(1):112-123; 18(1):5-39.
- Winters, John D.
1963 *The Civil War in Louisiana*. LSU Press, Baton Rouge.
- Woodiel, Deborah K.
1980 *St. Gabriel: Prehistoric Life on the Mississippi*. Unpublished Master's Thesis, Department of Geography and Anthropology, Louisiana State University.