



DEPARTMENT OF THE ARMY
U.S. ARMY CORPS OF ENGINEERS, NEW ORLEANS DISTRICT
7400 LEAKE AVENUE
NEW ORLEANS, LOUISIANA 70118-3651

FINDING OF NO SIGNIFICANT IMPACT

Louisiana State Penitentiary Angola Camp F – Ring Levee Seepage and Sand Boil Repair West Feliciana Parish, Louisiana Supplemental Environmental Assessment #278-E

The U.S. Army Corps of Engineers (USACE), New Orleans District (CEMVN), has performed a Supplemental Environmental Assessment (SEA) in accordance with the National Environmental Policy Act of 1969 (NEPA), as amended. The SEA addresses the proposed expansion of an existing seepage berm at the Louisiana State Penitentiary (LSP), located near Angola, in West Feliciana Parish, Louisiana. The proposed 5.8-acre borrow site is located on the river side of the LSP Levee (LSPL). The 5.8-acre borrow site is part of a larger 77-acre proposed borrow area that CEMVN identified as a viable borrow source for both the subject project and future work. The 77-acre borrow area is wet-pastureland and encompasses the 5.8-acre borrow site, with all relevant resources previously evaluated on the current and future use of the entire 77-acre site in SEA #278-D with a signed FONSI dated April 18, 2021, which is incorporated herein by reference.

The Proposed Action includes extending an existing LSPL seepage berm landside of the LSPL near Camp F. The existing LSPL landside toe extends approximately 255 feet from the levee baseline and the proposed seepage berm expansion will extend the toe outwards to approximately 455 feet from the levee baseline. The seepage berm will measure approximately 3,500 feet in length with a maximum of four feet in height above the natural ground surface and will result in no new overall height increase to the LSPL. The seepage berm will begin at elevation 53.5 feet North American Vertical Datum 1988 (NAVD88) and will extend landwards at a 1 vertical on 50 horizontal slope, until it reaches elevation 49.0 feet NAVD88, where it will continue to slope down at a 1 vertical on 5 horizontal slope until reaching the natural ground surface. The estimated borrow area to construct the seepage berm is 5.8 acres, or approximately 81,000 cubic yards.

Silt fencing will be installed prior to construction of the seepage berm expansion and borrow area. Site preparation would require stripping vegetation and topsoil from areas that will receive clay. For the entire LSPL seepage berm expansion, this vegetation and topsoil may be stockpiled within the levee right-of-way and later placed on the levee. Any excess material that cannot be reused would become property of the USACE construction contractor who may dispose of the material in any legal manner. Upon completion of the seepage berm expansion, all areas disturbed by the construction activities will be seeded with Bermuda grass and fertilized. Removal of silt fence barriers would occur after construction is complete and the soil is stabilized.

A one acre staging area for construction equipment, materials, and personnel would be located within the existing LSPL right-of-way immediately adjacent to the LSPL existing seepage berm. The staging area would be utilized for the duration of the repairs and would be returned to pre-existing conditions upon completion of the LSPL seepage berm expansion.

In addition to the Proposed Action, a “No Action” alternative was also evaluated.

For the Proposed Action, the potential effects were evaluated. A summary of the potential effects is listed in Table 1:

Table 1: Summary of Potential Effects of the Proposed Action

	Insignificant effects	Insignificant effects as a result of mitigation	Resource unaffected by action
Wetlands	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Aquatic Resources/Fisheries	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Wildlife Habitat	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Terrestrial Resources	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Threatened/Endangered Species – Critical Habitat	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Cultural resources	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Water quality	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Air Quality	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Hazardous, toxic & radioactive waste	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Tribal trust resources	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

All practicable and appropriate means to avoid or minimize adverse environmental effects were analyzed and incorporated into the Proposed Action.

The Proposed Action will result in unavoidable adverse impacts to approximately 5.8 acres of wetland resources. As originally described in Environmental Assessment (EA) #278, which is incorporated herein by reference, compensatory mitigation requirements were based on the mitigation planning experience of CEMVN personnel, with concurrence from the U.S. Fish and Wildlife Service (USFWS) in a letter dated April 27, 1998. In EA #278, the ratio of compensatory mitigation for the unavoidable loss of farmed wetlands was originally established at 1:0.5 with the proposed reforestation of cleared lands with various species of bottomland hardwoods. For the Proposed Action, it was determined that the same ratio would apply, but would be accomplished through the purchase of mitigation bank credits at a commercial mitigation bank. The USACE will purchase approximately 2.9 acres of bottomland hardwoods credits from a mitigation bank located within either the Mississippi River Basin or Lake Pontchartrain River Basin.

Pursuant to section 7 of the Endangered Species Act of 1973, as amended, the construction of the seepage berm expansion would have no effect to any listed threatened or endangered species or their critical habitat. As the 5.8-acre borrow site is encompassed by the overall 77-acre borrow area, the USFWS concurred with the USACE's determination of "not likely to adversely affect" with their office stamp of concurrence dated January 22, 2021.

Pursuant to Section 106 of the National Historic Preservation Act (NHPA) of 1966, as amended, the USACE has determined that the Proposed Action constitutes an Undertaking as defined in 36 CFR § 800.16(y). In accordance with responsibilities under Executive Order 13175, the NEPA, and Section 106 of the National Historic Preservation Act (NHPA), CEMVN determined that there are no historic properties as defined in 36 CFR 800.16(l) within the Area of Potential Effect (APE)s. Accordingly, on March 4, 2021, CEMVN submitted a finding of "No Historic Properties Affected" for this Undertaking to the Louisiana State Historic Preservation Officer of the Department of Culture Recreation and Tourism (SHPO), the Choctaw Nation of Oklahoma (CNO), the Coushatta Tribe of Louisiana, the Jena Band of Choctaw Indians, the Mississippi Band of Choctaw Indians, Muscogee Creek Nation (MCN), the Seminole Nation of Oklahoma, Seminole Tribe of Florida, and the Tunica-Biloxi Tribe of Louisiana. SHPO concurrence was received on March 22, 2020. On April 7, 2021, the CNO submitted a written response stating "West Feliciana Parish lies in our area of historic interest. The Choctaw Nation Historic Preservation Department concurs with the finding of "no historic properties affected". However, we ask that work be stopped, and our office contacted immediately should Native American artifacts or human remains are encountered." Furthermore, on April 05, 2021 the MCN submitted a written response stating "This project is currently inside of the Muscogee (Creek) Nation historic area of interest (AOI), specifically one of our Trail of Tears Removal Corridor Routes and near a major catastrophe upon our ancestors during the forced removal from our ancestral lands...We do concur with this USACE undertaking project in compliance with the NHPA- Section 106 Laws, but ask to cease operations if any inadvertent discovery is made, and to notify our Tribal Historic Preservation Officer and the other Tribes that may have been contacted if the event that the Inadvertent Discovery is deemed Indigenous, Indian, Native American, etc." The MCN provided additional information regarding the "Monmouth Disaster." The remaining Tribes did not respond within the regulatory timeframes; therefore, CEMVN has fulfilled its NHPA Section 106 responsibilities to consult with Tribes.

Pursuant to the Clean Water Act (CWA) of 1972, as amended, A CWA Section 404(b)(1) public notice was distributed to the public and comments were solicited on February 26, 2021. No adverse comments were received in response to the 30-day public review. A Section 404(b)(1) short form evaluation was signed on March 30, 2021. Additionally, a CWA Section 401 State Water Quality Certificate (WQC 202115-01/AI 101235/CER 20200010) was issued by the Louisiana Department of Environmental Quality by letter dated January 20, 2021.

The following environmental design commitments are an integral part of the Proposed Action:

1. The Proposed Action will result in unavoidable adverse impacts to approximately 5.8 acres of wetland resources classified as wet pastureland. To mitigate for these unavoidable adverse impacts, the USACE will purchase approximately 2.9 acres of bottomland hardwoods compensatory mitigation bank credits.
2. If the Proposed Action is changed significantly or is not implemented within one year, USACE would reinitiate consultation with the USFWS.
3. **Inadvertent Discovery and Unexpected Effects:** If during the course of work, archaeological artifacts (prehistoric or historic) are discovered or unexpected effects to historic properties, including architecture, architectural elements, and/or archaeology, are identified, the USACE contractor shall stop work in the general vicinity of the discovery or unexpected effect and take all reasonable measures to avoid or minimize harm to the finds or affected property. The USACE contractor would ensure that the discovery or unexpected effects are secured and stabilized, as necessary, and access to the area is restricted. The USACE contractor shall inform their Operations Division contacts at USACE, who would in turn contact Planning Division (PD) staff. The USACE contractor would not proceed with work until USACE PD completes consultation with the Louisiana SHPO, and others, as appropriate.
4. **Louisiana Unmarked Human Burial Sites Preservation Act:** If human bone or unmarked grave(s) are present within the work area, compliance with the Louisiana Unmarked Human Burial Sites Preservation Act (R.S. 8:671 et seq.) is required. The USACE contractor shall notify the law enforcement agency of the jurisdiction where the remains are located within 24 hours of the discovery. The USACE contractor shall also notify USACE and the LDOA within 72 hours of the discovery. Discoveries of unmarked graves, burials, human remains, or items of cultural patrimony on federal or tribal lands shall be subject to the Native American Graves Protection and Repatriation Act (25 U.S.C. §3001-3013, 18 U.S.C. § 1170) and the Archaeological Resources Protection Act of 1979(16 U.S.C. §470aa – 470mm).

The USACE has evaluated the potential environmental impacts of the Proposed Action in SEA #278-E (incorporated herein by reference). The Proposed Action would serve to benefit the LSPL at Angola from a socio-economic standpoint through reduced future efforts of flood fighting from future high river stages. The maintenance and repair/rehabilitation of the entirety of the levee system would serve to prevent future levee seepage, sand boils, and overall catastrophic failure. Additionally, the Proposed Action would contribute to the continued accomplishment of flood risk management objectives, which are of great importance in the Lower Mississippi River Valley. It would also provide a continued reduced risk of flood damage to the natural and human environment on the land side of the Mississippi River levee system in CEMVN as well as provide for the preservation and enhancement of fish, wildlife, and other natural resources within the Mississippi River Basin.

Based on this assessment, a review of the comments made on SEA #278-E, and the implementation of the environmental design commitments listed above, a determination has been made that the Proposed Action would have no significant impact on the human environment. Therefore, an Environmental Impact Statement will not be prepared.

Draft

Date

STEPHEN F. MURPHY
COL, EN
Commanding

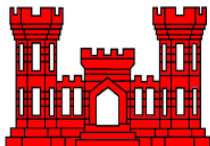
DRAFT SUPPLEMENTAL ENVIRONMENTAL ASSESSMENT

LOUISIANA STATE PENITENTIARY

ANGOLA CAMP F - RING LEVEE SEEPAGE AND SAND BOIL REPAIR

WEST FELICIANA PARISH, LOUISIANA

SEA #278-E



**U.S. Army Corps of Engineers
Mississippi Valley Division
Regional Planning and Environment Division South
New Orleans District**

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DRAFT SUPPLEMENTAL ENVIRONMENTAL ASSESSMENT

LOUISIANA STATE PENITENTIARY

ANGOLA CAMP F – RING LEVEE SEEPAGE AND SAND BOIL REPAIR

WEST FELICIANA PARISH, LOUISIANA

SEA #278-E

1. INTRODUCTION

The U.S. Army Corps of Engineers (USACE), Mississippi River Valley Division, Regional Planning and Environment Division South, has prepared this draft Supplemental Environmental Assessment (SEA) for the New Orleans District (CEMVN) to evaluate potential impacts associated with the proposed expansion of an existing seepage berm at the Louisiana State Penitentiary (LSP), located near Angola, in West Feliciana Parish, Louisiana (Figure 1). The Mississippi River Flood of 2018-2019, which transpired from November 2018 through August 2019, an approximate 3,500-foot area located on the landside of the LSP Levee (LSPL) near “Camp F” was identified where seepage/sand boils were occurring. This draft SEA has been prepared in accordance with the National Environmental Policy Act of 1969 and the Council on Environmental Quality’s Regulations (40 CFR 1500-1508), as reflected in the USACE Engineering Regulation ER 200-2-2. This draft SEA provides sufficient information on the potential adverse and beneficial environmental effects to allow the District Commander, USACE, CEMVN, to make an informed decision on the appropriateness of an Environmental Impact Statement (EIS) or a Finding of No Significant Impact (FONSI).

1.1 PROPOSED ACTION

1.1.1 The proposed LSPL seepage control plan entails extending an existing LSPL seepage berm landside of the LSPL near Camp F. The existing LSPL landside toe extends approximately 255 feet from the levee baseline and the proposed seepage berm expansion will extend the toe outwards to approximately 455 feet from the levee baseline. The seepage berm will measure approximately 3,500 feet in length with a maximum of four feet in height above the natural ground surface and will result in no new overall height increase to the LSPL. The seepage berm will begin at elevation 53.5 feet North American Vertical Datum 1988 (NAVD88) and will extend landwards at a 1 vertical on 50 horizontal slope, until it reaches elevation 49.0 feet NAVD88, where it will continue to slope down at a 1 vertical on 5 horizontal slope until reaching the natural ground surface. The estimated borrow area to construct the seepage berm is 5.8 acres, or approximately 81,000 cubic yards (Figure 2).

1.1.2 In preparation for the construction of the repairs, erosion protection (i.e., silt fencing) would be installed and surficial materials from the existing seepage berm damaged would be removed. The silt fence would be constructed along the new LSPL right-of-way, which will be five feet from the toe of the LSPL expanded seepage berm limits of work, to minimize erosion and sediment runoff. The silt fence would be designed to retain sediment from runoff during clearing and grubbing, excavation, embankment placement, and final grading. Additional site preparation



Figure 1: Louisiana State Penitentiary, West Feliciana Parish, Louisiana.

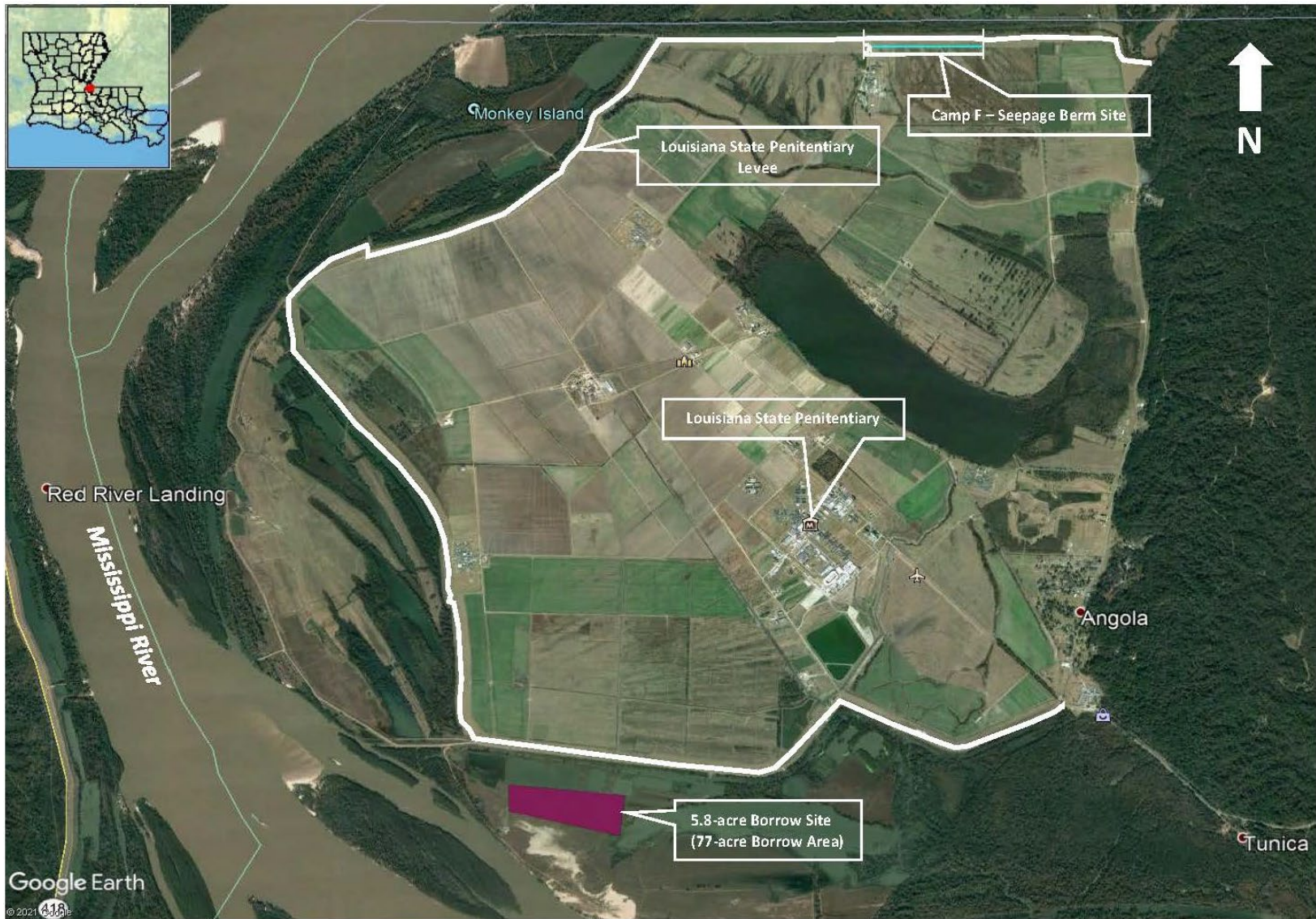


Figure 2: Louisiana State Penitentiary, Angola Camp F Project Features, West Feliciana Parish, Louisiana.

would require stripping vegetation and topsoil from areas that will receive clay. For the entire LSPL seepage berm reach, this vegetation and topsoil may be stockpiled within the levee right-of-way and later placed on the levee to spur the growth of new vegetation. Any excess material that cannot be reused would become property of the USACE construction contractor who may dispose of the material in any legal manner. Before placement of the new embankment material, the damaged sections of the LSPL would be scarified (i.e. the surface would be roughened) so that any newly added material would bind to the clay material of the existing seepage berm. Upon completion of the seepage control repairs, all areas disturbed by the construction activities will be seeded with Bermuda grass and fertilized. Removal of silt fence barriers would occur after construction is complete and the soil is stabilized (Figure 3).

1.1.3 The proposed borrow site is approximately 5.8 acres and is located on the river side of the LSPL. The 5.8-acre borrow site is part of a larger 77-acre proposed borrow area that CEMVN, Engineering Division previously identified as a viable earthen borrow source adjacent to the LSP site on the river side of the existing levee protection system for both the subject project and potential future projects at Angola, as needed. SEA #278-D previously assessed all direct, indirect, and cumulative impacts associated with the use of the overall 77-acre borrow area, as it is a homogenous land use type (i.e., wet-pastureland), and those impact assessments to all relevant resources are incorporated herein by reference.

1.1.4 In order to prepare the 5.8-acre borrow site, bulldozers and other heavy construction equipment would be utilized to clear the area of any vegetation, and earthen material deemed not suitable for the LSPL seepage berm expansion. The borrow site would be excavated to a pit depth of approximately -20.0 feet NAVD88. Excavation activities at the proposed borrow site would be conducted during dry or low water periods, or as much as practicable. Any vegetation and unsuitable earthen material removed may be temporarily stockpiled on-site. Groundwater seeping into the pit would be pumped out into adjacent areas and drain to the Mississippi River. Excavators (i.e. backhoes) would remove the suitable earthen material and process the material to eliminate water and reduce the moisture content from the soil. Moisture content processing will be done either adjacent to or within the borrow pit and using mechanical methods such as utilizing bulldozers to stockpile materials and disks to further reduce the moisture content of the soil. Once the moisture content has been reduced to levels that are acceptable to USACE, borrow material would be hauled in trucks with secured binders on tailgates to the project site. Transportation routes for trucks carrying borrow material would utilize existing LSP roads. After all suitable earthen material is excavated from the borrow site, the borrow site would be allowed to fill with both rainwater and water resulting from seasonal high-water events on the Mississippi River. It is expected that the pit would remain an open water site for the life of the project.

1.1.5 A one acre staging area for construction equipment, materials, and personnel would be located within the existing LSPL right-of-way immediately adjacent to the LSPL existing seepage berm. The staging area would be utilized for the duration of the repairs and would be returned to pre-existing conditions upon completion of the LSPL seepage berm expansion.

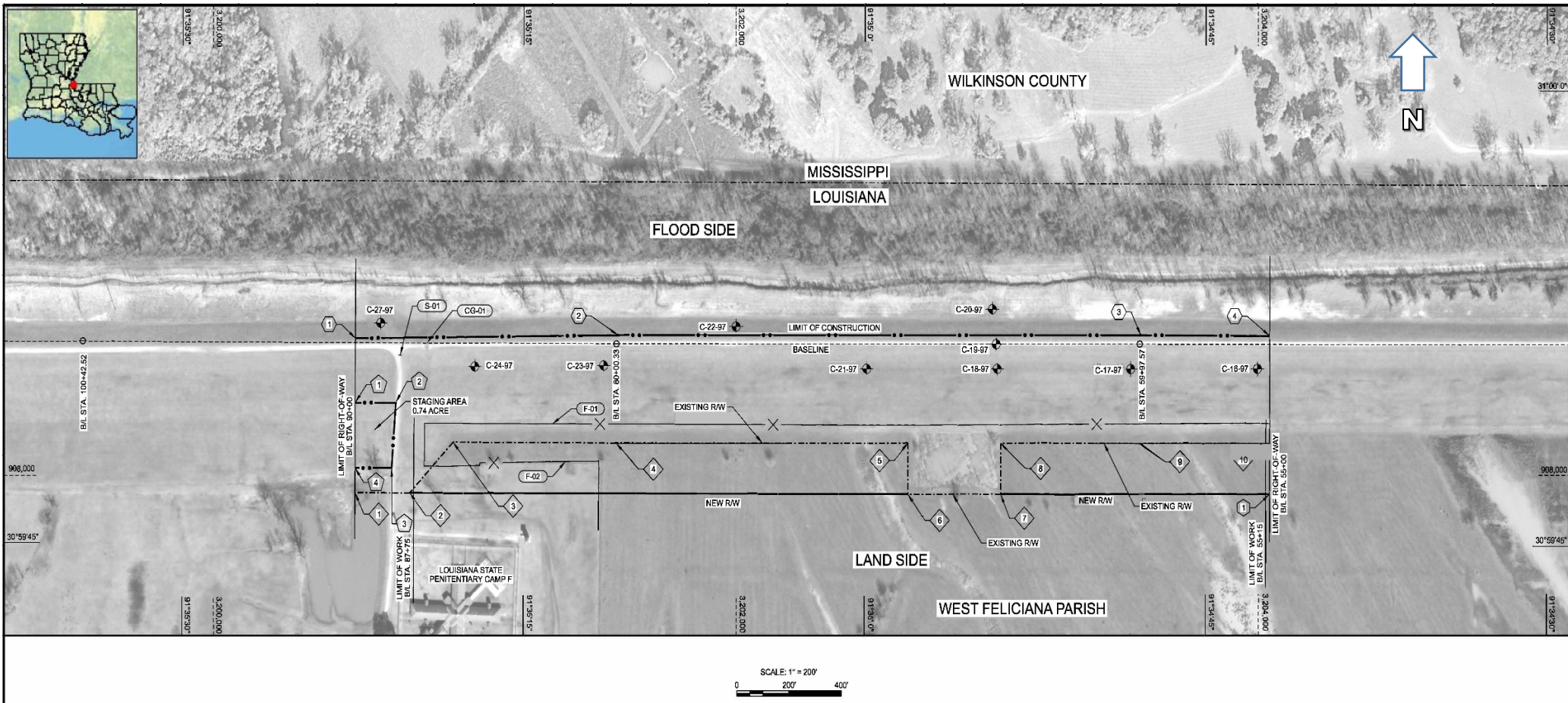


Figure 3: Louisiana State Penitentiary, Angola Camp F – Seepage Berm and Staging Area, West Feliciana Parish, Louisiana.

1.2 AUTHORITY

1.2.1 The Louisiana State Penitentiary Levee (LSPL) Mississippi River, Louisiana Study was authorized by the September 3, 1973, Resolution of the United States Senate Committee on Public Works. The study was to review the Mississippi Rivers & Tributaries (MR&T) Project report, to determine whether to incorporate the (former) 12 miles of state levee at the Louisiana State Penitentiary at Angola, Louisiana into the Mississippi River Levee (MRL) system of the MR&T Project.

1.2.2 The LSPL Project, which incorporated 12.1 miles of the former non-federal levee into the MR&T project, is described in the Louisiana State Penitentiary Levee Mississippi River Final Feasibility Report and Final Environmental Impact Statement, dated January 1982, and approved by the Chief of Engineers on December 10, 1982, as updated and amended by the Flood Control, MR&T, LSPL, Mississippi River Limited Reevaluation Report, dated October 1998, revised July 1999, and approved by the Chief of Engineers on July 2, 1999.

1.2.3 Section 401(a) of the Water Resources Development Act of 1986 (P.L. 99-662) (WRDA 1986), authorized the Secretary of the Army to incorporate the entire LSPL into the MR&T Project. The LSPL Project is a federal flood control project that is 100% operated and maintained by the NFS pursuant to a July 30, 1999 Project Cooperation Agreement between the Department of the Army and the Louisiana Department of Public Safety and Corrections (Non-Federal Sponsor) for the LSPL Project. The LSPL Project is active in the USACE Rehabilitation and Inspection Program (RIP) and is eligible for rehabilitation assistance pursuant to ER 500-1-1. Although the construction of this project was funded with MR&T funds, Chapter 5, Section 5-3 (b)(2) of ER 500-1-1 does not operate to exclude this LSPL Project from the RIP because the NFS is contractually obligated to perform 100% of the Operation and Maintenance, Repair, Rehabilitation and Replacement (OMRR&R) of the project at no cost to the Federal Government. No USACE Operations and Maintenance, General funds, or MR&T funds have been used for the OMRR&R of the LSPL Project.

1.3 PURPOSE AND NEED FOR THE PROPOSED ACTION

1.3.1 The LSPL Project provides risk reduction from elevated Mississippi River stages up to the Project Design Flood (PDF) for the MR&T. The purpose of this project is to provide necessary rehabilitation assistance to construct the proposed seepage berm expansion and bring the LSPL project back to the MR&T design level to which the LSPL Project was previously constructed.

1.3.2 The LSPL Project consists of 12.1 miles of levee that were constructed to the federal level design standard. The LSPL protects approximately 9,960 acres of land and contains the largest maximum-security prison in the United States and the only one in Louisiana. Additional critical infrastructure includes an airport, an ambulance provider, an electric substation, a fire station, and emergency medical services. According to the 2018 Census, the total population of the project area is 7,800, which includes 1,500 staff and 6,300 inmates. Furthermore, there are 116 total structures with a property value of \$94.5 million (valued in 2019 dollars) and slightly over 18,000 acres of agricultural land in the area with the main crops being soybeans, corn, and sugar cane.

1.4 PRIOR NEPA DOCUMENTS

1.4.1 The January 1982 Louisiana State Penitentiary (LSP) Levee Project Mississippi River Final Feasibility Report and Final Environmental Impact Statement (FEIS), "*Louisiana State Penitentiary, Mississippi River, West Feliciana Parish, Louisiana*," recommended a plan to incorporate 12 miles of the former non-federal levee at Angola (n/k/a the LSP Levee) into the MRL system of the MR&T project. A Chief of Engineers Report was signed on December 10, 1982. The Army did not support authorization of this project because its purpose is to protect a state prison and recommended to Congress that the project be implemented by the State of Louisiana. Congress, however, authorized construction of the environmentally preferable recommended plan in the Water Resources Development Act of 1986 in accordance with the December 10, 1982 Chief of Engineers Report.

1.4.2 The October 1998 Limited Reevaluation Report (LRR), "*Flood Control, Mississippi River and Tributaries, Louisiana State Penitentiary Levee, Mississippi River*," updated and amended the 1982 FEIS and addressed flood damage reduction measures, including enlargement of the mainline LSP levee. The 1999 LRR also served as the decision document and basis for the execution of a Project Cooperation Agreement between the Department of the Army and The Louisiana Department of Public Safety and Corrections (NFS) for the LSP Levee project. A Record of Decision was signed by Major General Phillip R. Anderson, U.S. Army President Designee, Mississippi River Commission, on July 9, 1999.

1.4.3 In 1998, Environmental Assessment (EA) #278, "*Louisiana State Penitentiary, Flood Damage Reduction Measures, West Feliciana Parish, Louisiana*," was prepared to address the impacts associated with enlargement of the existing levee, construction of seepage berms, installation of relief wells, and replacement of an existing concrete double-culvert structure in the existing levee. A Supplemental EA (SEA) #278, "*Louisiana State Penitentiary, Flood Damage Reduction Measures, West Feliciana Parish, Louisiana*," was also prepared to address the restoration of conveyance capability of an exterior intercepted drainage channel and relocation of the mitigation feature. In June 1998, The Louisiana National Guard was assigned the task of constructing a portion of the seepage berm at the LSP, which was completed in August 1998. To accommodate that work schedule, a Finding of No Significant Impact (FONSI) "B" was prepared to address the seepage berm construction only and was signed on May 8, 1998. A FONSI "A" was prepared to address the remaining flood damage reduction features addressed in both EA #278 and SEA #278 and was signed on September 20, 1998.

1.4.4 SEA #278-A, "*Louisiana State Penitentiary, Flood Damage Reduction Measures, West Feliciana Parish, Louisiana*," was prepared to address the impacts associated with the use of an alternate borrow area by the Louisiana National Guard in the event the Mississippi River had not receded sufficiently to enable the use of a previously approved borrow area. A FONSI for SEA #278-A was signed on May 27, 1998.

1.4.5 SEA #278-B, "*Louisiana State Penitentiary, Flood Damage Reduction Measures, West Feliciana Parish, Louisiana*," was prepared to address the impacts associated with the designation and use of additional borrow material to be utilized for berm and levee construction. A FONSI for SEA #278-B was signed on January 5, 2000.

1.4.6 SEA #278-C, "*Louisiana State Penitentiary, Flood Damage Reduction Measures, West Feliciana Parish, Louisiana*," was prepared to address the impacts associated with the evacuation

of flows from relief wells and construction of a levee enlargement for the purposes of maintaining the LSP interior drainage system. A FONSI for SEA #278-C was signed on March 1, 2001.

1.4.7 SEA #278-D, “*Louisiana State Penitentiary, Flood Damage Reduction Measures, West Feliciana Parish, Louisiana,*” was prepared to address the impacts associated with the repair of five levee slides on the existing LSPL and designation of a 77-acre borrow site identified by CEMVN, Engineering Division as a viable earthen borrow source adjacent to the LSP site on the river side of the existing levee protection system for both the five levee slides and potential future projects at Angola, as needed. A FONSI for SEA #278-D was signed on April 18, 2021.

1.5 PUBLIC CONCERNS

1.5.1 Since the great flood of 1927, there has been widespread public concern for flood control along the Mississippi River to protect environmental resources, infrastructure, and navigation. Throughout history, special emphasis has been placed on the construction and maintenance of channel training devices such as levees. The flood control plan of the MR&T Project is designed to control the Mississippi River "Project Design Flood," which is a theoretical flood greater than the great flood of 1927. The comprehensive flood control plan includes several features that protect a large part of the alluvial valley from the Project Design Flood, with a major element of this plan being levees for the containment of flood flows. The most significant concern in the project area is the continued maintenance of the LSPL in order to protect life and property at the LSP.

2. ALTERNATIVES TO THE PROPOSED ACTION

2.1 ALTERNATIVE 1 – NO ACTION

2.1.1 In the future without project condition (a.k.a. no-action), the Proposed Action would not be constructed. Without the proposed seepage berm expansion, flood fight efforts and temporary repair measures would continue (e.g., construction of temporary ring levees around sand boil sites). However, the approximate 3,500 foot area located on the landside of the LSPL near “Camp F” where seepage/sand boils were occurring during the 2018-2019 flood would be left vulnerable to seasonal high-water events on the Mississippi River, thus increasing the risk for catastrophic impacts to the protected areas of the LSPL Project, including but not limited to, the Louisiana State Penitentiary, agriculture land, and the community of Angola.

3. AFFECTED ENVIRONMENT

3.1. DESCRIPTION OF THE PROJECT AREA

3.1.1 The Proposed Action would be performed within the Mississippi River deltaic plain, with the Mississippi River acting as the primary influence on geomorphic processes in the delta region. The LSP is situated on the left descending bank of the Mississippi River approximately 40 miles northwest of Baton Rouge and 22 miles northwest of St. Francisville. The riverbank where both the proposed 5.8-acre borrow site will be located is an open wet pastureland with surrounding areas of woody bottomland hardwood type vegetation and is frequently subject to flooding during periods of high water in the Mississippi River.

3.1.2 West Feliciana Parish is in the southeastern part of Louisiana, approximately 30 miles north of Baton Rouge. The parish has a total area of 426 square miles, with approximately 403 square miles comprised of land and the remaining 23 square miles consisting of water. The parish is located on the Mississippi River, and is bordered by Pointe Coupee Parish to the west and East Feliciana Parish to the east. West Feliciana Parish contains a variety of suburban, agricultural, and industrial development. Suburban areas are situated primarily in the town of St. Francisville, which is located at the southern end of the parish approximately 1.5 miles northeast of the Mississippi River. Agricultural and industrial developments exist primarily along the Mississippi River. The parish contains one incorporated area, St. Francisville, which is also the parish seat and largest municipality, as well as several unincorporated areas located in the northern part of the parish spreading from west to east (Tunica, Wakefield, and Bains). The Parish is also home to the LSP located in Angola (commonly referred to as Angola Prison), located on the left descending bank of the Mississippi River and is approximately 40 miles northwest of Baton Rouge and 22 miles northwest of St. Francisville. The LSP encompasses roughly 18,000 acres and is surrounded by the Mississippi River on three sides and by the Tunica Hills on the other. The Angola prison is the largest maximum-security prison in the United States and houses over 6,300 inmates and 1,500 staff. Additional critical infrastructure includes a landing strip, an ambulance provider, an electric substation, a fire station, and emergency medical services. The Mississippi River meanders across the western part of the parish and flows from northwest to southeast. West Feliciana Parish is comprised of two major land resource areas-Southern Mississippi Valley Silty Uplands and Southern Mississippi Valley Alluvium. These major land resource areas are used mainly as woodland, pastureland, and cropland. Elevation is about 360 feet above sea level in the Southern Mississippi Valley Silty Uplands Major Land Resource Area and 25 feet above sea level in the swamps of the Southern Mississippi Valley Alluvium Major Land Resource Area. According to U.S. Census data, West Feliciana Parish had an estimated population of 15,460 in 2018.

3.2 DESCRIPTION OF THE WATERSHED

3.2.1 A watershed is an area of land drained by a particular set of streams and rivers. Of the twelve major watersheds within Louisiana, the Proposed Action is located within the Mississippi River Basin on the left descending bank of the Mississippi River in West Feliciana Parish, Louisiana (Figure 5). The Mississippi River has the third largest drainage basin in the world, exceeded in size only by the watersheds of the Amazon and Congo Rivers. The entire Mississippi River basin covers more than 1,245,000 square miles and includes all or parts of 31 states and two Canadian provinces. The lower Mississippi River is the portion of the Mississippi River downstream of Cairo, Illinois. From the confluence of the Ohio River and upper Mississippi River at Cairo, the lower Mississippi River flows just under 1,000 miles to the Gulf of Mexico. The lower Mississippi River alluvial valley is generally bounded by bluffs on the eastern side of the river and the valleys of merging tributaries to the west (LDWF-CWCS 2005). Within CEMVN, the Mississippi River is bounded by levees that extend along the west bank from the vicinity of Black Hawk, Louisiana, generally southward to the vicinity of Venice, Louisiana, and on the east bank from Baton Rouge, Louisiana to Bohemia, Louisiana encompassing over 500 miles of levee and associated infrastructure.

3.3 CLIMATE

3.3.1 The climate in the Project Area is humid and subtropical with a strong maritime character. Warm, moist, southeasterly winds from the Gulf of Mexico prevail throughout most of the year, with occasional cool, dry fronts dominated by northeast high-pressure systems. The influx of cold



Figure 4:: Louisiana River Basins (Map provided by Louisiana Department of Environmental Quality. The Mississippi River Basin is shown in green. The location of the Work is represented by a red star.

air occurs less frequently in autumn and only rarely in summer. In winter, the average temperature is 54°F and the average daily minimum temperature is 41°F. In summer, the average temperature is 78°F and the average daily maximum temperature is 89°F. Summer thunderstorms are common, and tornadoes strike occasionally. The total annual precipitation is about 60.7 inches, of this, 30 inches (50 percent) usually falls in April through September. The growing season for most crops falls within this period. In 2 years out of 10, the rainfall in April through September is less than 16 inches (<http://www.srcc.lsu.edu/>).

3.4 GEOLOGY

3.4.1 The Project Area lies on an existing levee located on the east riverbank of the Mississippi River. Fluvial activity in the Proposed Action area includes lateral migration and overbank deposition during flood stages. This activity is the dominant geologic process operating on the landscape in this region. The formation of natural levees point bar deposits, and other geomorphic features such as crevasse channels and abandoned river courses has been documented. There are also two major land resource areas-Southern Mississippi Valley Silty Uplands and Southern Mississippi Valley Alluvium. The Southern Mississippi Valley Silty Uplands Major Land Resource

Area consists dominantly of well drained, moderately well drained, somewhat poorly drained, and poorly drained loamy soils. The Southern Mississippi Valley Alluvium Major Land Resource Area consists mainly of well drained and somewhat poorly drained loamy soils on natural levees and poorly drained and very poorly drained clayey soils on natural levees and in back swamps.

3.4.2 The overall Mississippi River Delta complex was formed by river deposits between 700 and 7,400 years ago. The Natural Resources Conservation Service (NRCS) classifies soils within the Proposed Action area as typically peat, mucks, clays mixed with organic matter, and silts derived from river deposits. The soil composition is subject to change as floodwaters and storm surges deposit new sediments. They are composed predominantly by Balize and Larose soil types. These soils are classified as continuously flooded deep, poorly drained, and permeable mineral clays and mucky clays. Marsh and swamp deposits are found in the vicinity of the River from New Orleans to the Heads of Passes at the Gulf of Mexico. Marsh deposits are primarily organic, consisting of 60 percent or more by volume of peat and other organic material with the remainder being a composition of various types of clays. Total organic thickness is normally 10 feet with variances less than one foot. Inland swamp deposits are composed of approximately 70 percent clay and 30 percent peat and organic materials. The percentage of sand and sandy silts increases with proximity to the open waters of the Gulf of Mexico (Saucier 1974).

3.5 RELEVANT RESOURCES

3.5.1 This section contains a description of relevant resources that could be impacted by the Proposed Action. The important resources described are those recognized by laws, executive orders, regulations, and other standards of national, state, or regional agencies and organizations; technical or scientific agencies, groups, or individuals; and the public. Table 1 provides summary information of the institutional, technical, and public importance of these resources.

3.5.2 The following resources have been considered and found to not be affected by the proposed action: estuarine water bodies; estuarine or marine fisheries resources, including essential fish habitat; recreation resources; aesthetic visuals; and socioeconomic resources. The objectives of Executive Order 11988 (Floodplain Management) were considered; however, CEMVN has determined that there would be no floodplain impacts from the proposed action. Additionally, there is no practicable alternative for construction outside the 100-year floodplain. No portion of the proposed action area has been designated a Louisiana Natural and Scenic River; therefore, a Scenic Rivers permit is not warranted. Environmental justice concerns were considered in accordance with the Executive Order 12898 of 1994 and the Department of Defense's Strategy on Environmental Justice of 1995, which direct federal agencies to identify and address any disproportionately high adverse human health or environmental effects of federal actions to minority and/or low-income populations. However, it is our determination that no significant populations or residential areas would be affected by the Proposed Action. Finally, the Proposed Action is located outside the Louisiana Coastal Zone.

3.5.3 The following relevant resources listed in Table 1 are discussed in this SEA: wetlands; aquatic resources/fisheries; wildlife; terrestrial resources; threatened or endangered species; cultural resources; water quality; and air quality.

Resource	Institutionally Important	Technically Important	Publicly Important
Wetlands	Clean Water Act of 1977, as amended; Executive Order 11990 of 1977, Protection of Wetlands; Coastal Zone Management Act of 1972, as amended; and the Estuary Protection Act of 1968., EO 11988, and Fish and Wildlife Coordination Act.	They provide necessary habitat for various species of plants, fish, and wildlife; they serve as ground water recharge areas; they provide storage areas for storm and flood waters; they serve as natural water filtration areas; they provide protection from wave action, erosion, and storm damage; and they provide various consumptive and non-consumptive recreational opportunities.	The high value the public places on the functions and values that wetlands provide. Environmental organizations and the public support the preservation of marshes.
Aquatic Resources/ Fisheries	Fish and Wildlife Coordination Act of 1958, as amended; Clean Water Act of 1977, as amended; Coastal Zone Management Act of 1972, as amended; and the Estuary Protection Act of 1968.	They are a critical element of many valuable freshwater and marine habitats; they are an indicator of the health of the various freshwater and marine habitats; and many species are important commercial resources.	The high priority that the public places on their esthetic, recreational, and commercial value.
Wildlife	Fish and Wildlife Coordination Act of 1958, as amended and the Migratory Bird Treaty Act of 1918	They are a critical element of many valuable aquatic and terrestrial habitats; they are an indicator of the health of various aquatic and terrestrial habitats; and many species are important commercial resources.	The high priority that the public places on their esthetic, recreational, and commercial value.
Terrestrial Resources	Food Security Act of 1985, as amended; the Farmland Protection Policy Act of 1981; the Fish and Wildlife Coordination act of 1958, as amended.	The habitat provided for both open and forest-dwelling wildlife, and the provision or potential provision of forest products and human and livestock food products.	The present economic value or potential for future economic value.
Threatened or Endangered Species	The Endangered Species Act of 1973, as amended; the Marine Mammal Protection Act of 1972; and the Bald Eagle Protection Act of 1940.	USACE, USFWS, NMFS, NRCS, EPA, LDWF, and LDNR cooperate to protect these species. The status of such species provides an indication of the overall health of an ecosystem.	The public supports the preservation of rare or declining species and their habitats.
Cultural Resources	National Historic Preservation Act (NHPA), as amended, and Section 110 of the NHPA; the Native American Graves Protection and Repatriation Act of 1990; the Archeological Resources Protection Act of 1979; and USACE's Tribal Consultation Policy (2012)	Federal, State, and Tribal stakeholders document and protect cultural resources including archaeological sites, districts, buildings, structures, and objects that are significant in American history, architecture, archaeology, engineering, and/or sites of religious and cultural significance based on their association or linkage to past events, to historically important persons, to design and construction values, and for their ability to yield important information about prehistory and history.	Preservation groups and private individuals support protection and enhancement of historical resources.
Water Quality	Clean Water Act of 1977, Fish and Wildlife Coordination Act, Coastal Zone Mgt. Act of 1972, and Louisiana State & Local Coastal Resources Act of 1978.	USACE, USFWS, NMFS, NRCS, EPA, and State DNR and wildlife/fishery offices recognize value of fisheries and good water quality and the national and state standards established to assess water quality.	Environmental organizations and the public support the preservation of water quality and fishery resources and the desire for clean drinking water.
Air Quality	Clean Air Act of 1963, Louisiana Environmental Quality Act of 1983.	State and Federal agencies recognize the status of ambient air quality in relation to the NAAQS.	Virtually all citizens express a desire for clean air.

3.6 WETLANDS

3.6.1 General Existing Conditions. The proposed LSPL seepage berm expansion would occur on the landside of the existing LSPL located near Camp F on the east riverbank of the Mississippi River. The seepage berm expansion is situated in a mostly terrestrial area with no substantial hydrological connection to any wetland habitat.

3.6.2 The proposed 5.8-acre borrow site is located outside the LSP levee on the east riverbank of the Mississippi River. The borrow area is a wetland categorized as a “wet-pastureland”. Hydrological conditions (i.e., proximity to the Mississippi River) limit the use of the area, which is maintained as grazing pastureland during low-water periods when not inundated by flooding from the Mississippi River.

3.7 AQUATIC RESOURCES/FISHERIES

3.7.1 General Existing Conditions. Located within the approximately 3,500-foot proposed LSPL seepage berm expansion site is a one-acre man made shallow open water borrow pond. This site was utilized prior to 1990's by the local NFS to repair portions of the LSPL located adjacent to Camp F. The shallow open water site sits stagnant with no substantial hydrological connection to any surrounding canals or tributaries situated on either the landside or floodside of the existing LSPL.

3.7.2 The proposed 5.8-acre borrow site is located outside the LSP levee on the east riverbank of the Mississippi River. The largest aquatic resource in proximity to the overall project area is that portion of the main stem of the Mississippi River. Aquatic habitat can be found within the Mississippi River, adjacent borrow areas, and associated wetlands. The vast east riverbank area is relatively healthy in secondary productivity on a per acre basis because of high benthic productivity due in part to seasonal inundation by flood waters from high river events on the Mississippi River. During periods of high water, the flooded east riverbank, including existing borrow pits, provides aquatic habitat to various large predaceous fishes, some plankton feeders, and other groups of omnivorous species. Minnow, catfishes, carp, carpsuckers, and sunfishes are some of the fishes that may be found in the vicinity of the east riverbank area. Clams, dipterans, and mayflies are some of the area's representative invertebrates.

3.8 WILDLIFE

3.7.1 General Existing Conditions. Developed habitat in the vicinity of the Proposed Action area consists mainly of previously described facilities associated with the LSP (e.g., Camp F), which are enclosed by the LSPL Project. The Proposed Action area provides very low-quality wildlife habitat as it is located near Camp F, which is a heavily developed area dominated by large fencing, guard towers, and large man-made facilities used to house correctional personnel.

3.7.2 The proposed 5.8-acre borrow site does provide some wildlife habitat when not inundated by flood waters due to seasonal high-water events on the Mississippi River. Foraging opportunities surrounding the borrow site exist during periods of low water; however, there is very limited, if any, sustainable habitat.

3.7.3 Forested wetlands exist both upstream and downstream along the east riverbank of the river and provide habitat for many wildlife species including raccoons, opossum, fox, mink, rabbits, and bats. Many species of neotropical migratory and resident birds utilize this type of habitat for

nesting and rearing. In addition, many species of reptiles and amphibians can be found in these forested areas.

3.7.4 Mammals that adapt in varying degrees to periodically wet riparian or early successional bottomland hardwood habitat are likely to inhabit or frequent land adjacent to the Proposed Action area. Beaver, swamp rabbit, nutria, muskrat, gray squirrel, fox squirrel, and white-tailed deer are likely present in the vicinity of the Proposed Action area. Woodlots in the batture also provide habitat for many resident passerine birds and essential resting areas for many migratory songbirds including warblers, orioles, thrushes, vireos, tanagers, grosbeaks, buntings, flycatchers, and cuckoos. Many of these and other passerine birds have undergone a decline in population primarily due to habitat loss. The area also supports resident hawks and owls including the red-shouldered hawk, barn owl, common screech owl, great horned owl, and barred owl. The red-tailed hawk, marsh hawk, and American kestrel are seasonal residents which utilize habitats within the vicinity of the Proposed Action area. Amphibians such as the pig frog, bullfrog, leopard frog, cricket frog, and Gulf Coast toad are expected to occur in the fresh and low salinity wetlands adjacent to the Proposed Action area. Reptiles such as the snapping turtle, soft-shell turtle, and red-eared turtle are also expected to occur in the wetlands and water bodies adjacent to the Proposed Action area.

3.9 TERRESTRIAL RESOURCES

3.9.1 The LSPL Project protects approximately 9,960 acres of land and contains the largest maximum-security prison in the United States and the only one in Louisiana. Additional critical infrastructure includes an airport, an ambulance provider, an electric substation, a fire station, and emergency medical services. Furthermore, the LSPL Project encompasses slightly over 18,000 acres of agricultural land which is the primary land use type inside the LSPL.

3.9.2 The proposed seepage berm expansion area located near Camp F is primarily characterized as having clayey top over loam alluvium, which has forced drainage of storm water away from the slope of the existing LSPL. This is primarily due to construction of the LSPL and existing seepage berm.

3.9.3 The primary habitat type associated with the 5.8-acre borrow site located along the east riverbank can be classified as wet pastureland. The surrounding levee and extensive forced-drainage systems have altered hydrology and the associated vegetation in all habitat types within the project area. Because of the drainage improvements and pumped drainage, there are no bottomland hardwood forested areas within the 5.8-acre borrow site. The area is primarily utilized as grazing pastureland during low-water periods when not inundated by flooding from the Mississippi River.

3.10 THREATENED OR ENDANGERED SPECIES

3.10.1 General Existing Conditions. The U.S. Fish and Wildlife Service (USFWS) lists one endangered species known to occur in West Feliciana Parish, the pallid sturgeon (*Scaphirhynchus albus*) (endangered) (USFWS 2020).

3.10.2 The pallid sturgeon only occurs in large rivers within the Mississippi and Missouri River Basins from Montana to Louisiana. This includes the Mississippi River and Atchafalaya River in South Louisiana. The pallid sturgeon tends to select main channel habitats in the Mississippi River. Aquatic habitats in the Mississippi River have been modified through the construction of

flood control levees and channel modification through time, and some changes resulting from those modifications have likely been detrimental to pallid sturgeon. Although the river flows unobstructed for about 2,000 river miles from Gavins Point Dam in the middle Missouri River to the Gulf of Mexico, tributary impoundments, bendway cutoffs and dike and levee construction have each changed localized patterns of channel erosion and deposition in the Mississippi River. Collectively, they have resulted in a degradation trend throughout the system. Effects of these changes on pallid sturgeon are unknown because there are no historical data for comparison. The Pallid Sturgeon Lower Basin Recovery Workgroup has identified information gaps essential to the consultation and recovery processes in the Lower Mississippi River Basin. These include relative abundance of pallid sturgeon; demographics; feeding habits; habitat use; hybridization ratios; presence of fish diseases in the wild; population anomalies; and reliable separation and identification of pallid sturgeon, shovelnose sturgeon, and hybrids. While recent publications have contributed to filling some of these data gaps (e.g., Killgore et al., 2007), incomplete knowledge of those areas remains.

3.11 CULTURAL RESOURCES

3.11.1 General Existing Conditions. On May 01, 2020, CEMVN plotted the latitudes and longitudes of the of the LSPL Construction Work Items against various data sets: the National Register of Historic Places (NRHP) database, the *Louisiana Cultural Resources Map* provided by the Louisiana State Historic Preservation Officer (SHPO), the U.S. Department of Agriculture (USDA) Web Soil Survey (<http://websoilsurvey.nrcs.usda.gov>), U.S. Geological Survey (USGS) Quadrangle Maps (<http://nationalmap.gov/historical>), and other available historic maps on file with CEMVN. Additional background information consulted included the Louisiana Cultural Resources Management (CRM) Bibliography (LDOA Website), SHPO Site Forms, pertinent site, and survey reports regarding previous investigations within 1-mile (1.6 km) of the Section 106 National Historic Preservation Act (NHPA), Area of Potential Effects (APEs), and aerial photography. This data was evaluated by CEMVN using the National Register (NR) Criteria.

3.11.2 Standing Structures. Based on CEMVN's background research, it was determined that the architectural APE is not located within a listed or eligible National Register Historic District (NRHD) or within the viewshed of an individually NRHP listed resource. There are no built resources within the APE. The Death Row Complex, constructed in 2006, is located just south of the APE.

3.11.3 Samuel James managed LSP from the late 1860s until 1901, when the state resumed control over Angola. The first known inmate camps constructed at LSP appeared as early as 1904 (Perrault et al. 2001:81). By 1927, a total of seven camps, including Camp F, were located at LSP. By 1941, barracks were located at Camp F with the majority of the buildings likely situated along the present Camp F Road (USGS 1941). Over 30 buildings were located within Camp F in 1955 (USGS 1955). By this time, conditions disintegrated due to floods, mismanagement, politics, and lack of funding. Eventually, Angola became known as the "worst prison in America" (Carleton 1971:156-166). In 1951, a group of 31 inmates known as "The Heel Street Gang" cut their Achilles tendons to protest inhumane living conditions and brutal work schedules (Tolino n.d.). As a result of this protest and the national media attention, noteworthy prison reforms took place during the early 1950s.

3.11.3 The renowned New Orleans architectural firm of Curtis and Davis designed the "new Angola", which was described in the December 1954 *Architectural Forum* issue as offering "facilities diversified and flexible enough to make the confinement fit the criminal" (Curtis and

Davis 1954). The issue described Angola's design as "A New Kind of Prison." LSP was among the first projects in the nation to utilize a unique lift-slab method of construction on many of the buildings. Curtis and Davis eventually became a national leader in prison design with more than 50 jails, correctional facilities, and youth centers throughout the United States (Tolino n.d.).

3.11.4 By 1963, the original barracks at Camp F were removed and replaced with four larger buildings with rectangular footprints (NETR 1963). These buildings were likely dorms, kitchen and dining, and an administrative building. It is unknown if Curtis and Davis designed these resources. Two of those original buildings, however, were removed in the early 1980s (NETR 1983). By 2004, three additional dorm buildings, hobby shops, and various accessory buildings were added to Camp F (NETR 2004). In 2006, the 25,000 sq ft building LSP Death Row Complex was completed.

3.11.3 Archaeology. A review of historical accounts dating back to the seventeenth century from French explorers, missionaries, and settlers compiled by Perrault et al. (2001) indicates that Native American groups present within the project area included the Houma, Tunica, Natchez, Biloxi, and Korora. During the French and British colonial periods, European settlement surrounding the project area was sparse. However, following the transfer of West Florida to Spanish control in 1779, Spain began to aggressively assert their claims in the region through land grants and by the time of the Louisiana Purchase in 1803, nearly all the land surrounding the project area had been parceled into individual concessions. By 1880, the partnership of Louis Trager and Samuel L. James had established Seven (7) individual plantations within the modern-day footprint of Angola through the consolidation of smaller parcels of land: Angola, Bellevue, Loango, Panola, Monrovia, Lake Killarney, and Loch Lomand. Shortly after the Civil War, the partnership was dissolved and James retained Angola, Bellevue, and Loango Plantation, while Trager kept Panola, Monrovia, Lake Killarney, and Loch Lomand Plantation. James later obtained Killarney Plantation from Trager in 1889 due to his inability to maintain his mortgage and thereafter Trager's remaining holdings were rescinded to William and Claude Acklen. Incidentally, James also played a significant role in the establishment of Angola as a penal institution. In 1869, another of his business ventures, the firm of James, Buckner, and Company, received a five-year lease from the State of Louisiana to manage the penal system. In 1870 the lease was extended to 21 years. This agreement gave the company the unlimited authority to lease convicts to work on plantations and public works projects. At his plantation at Angola, James hired out most of the land to sharecroppers and the remaining parcels were cultivated by prisoners under his agreement with the state. Following James death, James Jr. retained the prison lease but in 1901 the state resumed control of the prisoners, although convicts continued to be housed at prison camps including Angola Plantation. On March 27, 1901, the Board of the Central Louisiana State Penitentiary purchased Angola, Loango, Bellevue, and Killarney plantations from James Jr., totaling approximately 8,000 acres (3,237 ha). In 1922 the remaining three (3) plantations that were part of the original Trager and James partnership (Panola, Lochlomand, and Monrovia) were likewise acquired by the state from the Acklen estate and by 1923 Angola had expanded to its current size.

3.11.4 For historic properties eligible under Criterion D, CEMVN plotted the latitudes and longitudes of the APE against the locations of previously recorded archaeological sites and surveys using the Louisiana Cultural Resources Map. Collectively, CEMVN identified nine (9) archaeological sites within 1-mile (1.6 km) of the APE; spanning from the Prehistoric period through the twentieth century. CEMVN also determined that 40.5 acres (16.3 ha) of the current 64.2 acre (25.9 ha) Archaeological APE were previously evaluated by Coastal Environments, Inc. (CEI; Perrault et al. (2001). As part of these efforts, CEI conducted, background research to obtain

information on previously recorded sites either within, or adjacent to the ROW, Phase I Survey of the APE for archaeological resources that included pedestrian survey, sub-surface testing, exploratory trenching in selected areas within the ROW, Architectural evaluation, and Phase II NRHP eligibility evaluation at archaeological sites 16WF30, 16WF121, and 16WF122. None of the aforementioned sites are located within the immediate vicinity of the project area.

3.11.5 CEMVN also conducted a review of available information pertaining to the geological and land-use history of the project area. The APE located within the lower Mississippi River alluvial valley upon a low alluvial apron (a series of irregular and discontinuous coalesced alluvial fans) about 0.5 km (0.3 mi) wide that extend west from the base of the Tunica Hills with alternating accretion ridges and linear swales characterizing the topography of the batture. Soils within the APE are primarily comprised of undulating Tunica-Sharkey complex soils that are poorly drained and typically indicative of natural levees, and secondarily, Dowling clay soils that are frequently flooded and found within deltaic plains. While natural levees are often conducive to human use/occupation, it is unlikely that evidence of any cultural activities occurring within the APE would have produced a lasting footprint prior to the truncation of backswamp and expansion of the alluvial apron beginning during the late-Prehistoric period approximately 2,000-1,000 years BP. Furthermore, Saucier (Perrault et al. 2001:10) argues “that a majority of the apron actually formed during the nineteenth century” suggesting that the potential for Prehistoric or early-historic deposits becomes incrementally less probable heading west from the Tunica Hills within this highly dynamic and recent geological formation. Furthermore, based on the distribution of sites identified by Perrault et al. (2001), it appears that these poorly drained soils were not conducive to prehistoric/early-historic/historic occupation and those archaeological sites that were identified are located along the outer perimeter of a 1-mile (1.6 km) buffer of the APE, concentrated along the northwest-southeast alignment of Davis Bayou where better-drained Commerce silt loam soils become dominant and to the east-southeast where the Angola alluvial apron meets the Tunica hills.

3.11.5 A review of historic maps pertinent to the APE reveals that the 1848 *La Tourette's Reference Map of the State of Louisiana* depicts the present project area as being incorporated into a plantation owned by “D Carmichael” but does not provide additional detail. The 1880 *Survey of the Mississippi River* (Sheet 61) does not provide coverage of the project area but does indicate that levee construction had begun by this time at least in the southern reaches of the prison facility. Subsequent episodes of LSPL improvement have largely followed the original alignment defined during the early-nineteenth century as displayed in the 1880 *Survey of the Mississippi River* (Sheet 61); roughly corresponding to the State of Louisiana’s lease to manage the penal system awarded to the firm of James, Buckner, and Company (see above), and were accomplished using convict labor. As can be seen from these photographs, early-twentieth century levee construction at Angola was a labor-intensive process that would have resulted in a considerable ground disturbance, often extending far beyond the present LSPL ROW. Both the 1939 *Lower Mississippi River: stream channels, Cairo, Ill., to Baton Rouge, LA* (sheet 11) map (MRC 1939) and the 1941 *U.S. Geological Survey, Bachelor, LA, 1:2400 Quadrangle* maps denote that by this time the earliest version of the “Barracks Camp F” had been constructed to the south-southwest of the present APE in roughly the same location as the present Camp F facility with the surrounding area incorporated into farmland much as it still is today. Furthermore, these maps display an east-west levee alignment and a rail line in approximately the same location of the present LSPL ROW and the 1939 MRC map depicts the alignment of the rail line as following the toe of the levee on the batture side within the present APE. Subsequent maps reviewed show no significant changes in land use within the vicinity of the present APE other than the abandonment of the rail line that formerly paralleled the LSPL.

3.12 WATER QUALITY

3.12.1 General Existing Conditions. Water quality in the Project Area is affected by both point source and non-point source discharges. Point sources include mainly agricultural discharges. Non-point sources include storm water runoff, landscape maintenance activities, and natural sources.

3.12.2 Section 303(d) of the Clean Water Act requires states to identify water bodies that are not meeting water quality standards and to develop total maximum daily loads for those pollutants suspected of preventing the water bodies from meeting their standards. Total maximum daily loads are the maximum amount of a given pollutant that can be discharged into a water body from all natural and anthropogenic sources including both point and non-point source discharges. In Louisiana, the Department of Environmental Quality oversees the program.

3.12.3 The Louisiana Department of Environmental Quality (LDEQ) surface water monitoring program is designed to measure progress towards achieving water quality goals at state and national levels in order to gather baseline data used in establishing and reviewing the state water quality standards, and to provide a data base for use in determining the assimilative capacity of the waters of the state. Information is also used to establish permit limits for wastewater discharges. The program provides baseline data on a water body to monitor long-term trends in water quality.

3.12.4 LDEQ Section 305(b) and 303(d) reports for 2018, included in the Water Quality Inventory Integrated Report, lists one water body that is located adjacent to the Project Area, the Mississippi River. The assigned sub-segment code for the Mississippi River is LA070201. Sub-segment Code LA070201 boundaries are described as Mississippi River – from Old River Control Structure to Monte Sano Bayou. Available LDEQ records indicate that prior to the 2004 Water Quality Inventory (WQI) Report, suspected causes of impairment for the Mississippi River are listed as mercury, nitrate/nitrite (nitrite + nitrate as N), pesticides, phosphorous, priority organics (including dioxin) and total fecal coliforms.

3.12.5 As shown in Table 2, utilizing the 2018 U.S. Environmental Protection Agency (USEPA) Integrated Report methodology guidance categories, which categorize water body/pollutant combinations, the LDEQ 2018 report no longer assigns the LA070201 (Mississippi River) segment an Integrated Report Category number since it is fulfilling all standards (LDEQ 2018).

Subsegment Number	Designated Uses					Impaired Use	Suspected Causes of Impairment	Suspected Sources of Impairment
	PCR ¹	SCR ²	FWP ³	DWS ⁴	OYS ⁵			
LA070201	F ⁶	F	F	F				

¹ Primary Contact Recreation (swimming), ² Secondary Contact Recreation (boating), ³ Fish and Wildlife Propagation (fishing), ⁴ Drinking Water Supply, ⁵ Oyster Propagation, and ⁶ Fully supporting.

3.13 AIR QUALITY

3.13.1 General Existing Conditions. Federal air quality policies are regulated through the Clean Air Act. In accordance with this Act, the EPA has established National Ambient Air Quality Standards (NAAQS) for six criteria pollutants considered harmful to public health and the

environment, which include: carbon monoxide (CO), NO_x, ozone (O₃), lead, particulates of 10 microns or less in size (PM-10 and PM-2.5), and sulfur dioxide (SO₂). The EPA is required to designate counties or air basins as in attainment or nonattainment for each criteria pollutant. If an area is in nonattainment, the state must develop an implementation plan to achieve compliance. Once in compliance with NAAQS, the area becomes a maintenance area. The EPA has issued regulations addressing the applicability and procedures for ensuring that Federal activities comply with the Clean Air Act. The EPA Final Conformity Rule (58 FR 63214) requires Federal agencies to ensure that Federal actions in designated nonattainment or maintenance areas conform to an approved or promulgated State implementation plan or Federal implementation plan to ensure that a Federal action would not cause a new violation of the NAAQS, contribute to any increase in the frequency or severity of violations of existing NAAQS, or delay the timely attainment of any NAAQS interim or other attainment milestones. If a project would result in a total net increase in pollutant emissions that is less than the applicable *de minimis* threshold established in 40 CFR 93.153(b), or if the action is otherwise exempt, detailed conformity analyses are not required.

3.13.2 Ozone is the only parameter not directly emitted into the air, forming in the atmosphere when three atoms of oxygen (O₃) are combined by a chemical reaction between oxides of nitrogen (NO_x) and volatile organic compounds (VOC) in the presence of sunlight. Motor vehicle exhaust and industrial emissions, gasoline vapors, and chemical solvents are some of the major sources of NO_x and VOC, also known as ozone precursors. Strong sunlight and hot weather can cause ground-level ozone to form in harmful concentrations in the air.

3.13.3 The USEPA *Green Book Nonattainment Areas for Criteria Pollutants* (Green Book) maintains a list of all areas within the United States that are currently designated “nonattainment” areas with respect to one or more criteria air pollutants. Nonattainment areas are discussed by county or metropolitan statistical area (MSA). MSAs are geographic locations characterized by a large population nucleus, which are comprised of adjacent communities with a high degree of social and economic integration. MSAs are generally composed of multiple counties. Review of the Green Book indicates that West Feliciana Parish is currently in attainment for all Federal NAAQS pollutants, including the 8-hour ozone standard (USEPA 2011). This classification is the result of area-wide air quality modeling studies. Therefore, further analysis required by the CAA general conformity rule (Section 176(c)) would not apply for the proposed Federal action.

4. ENVIRONMENTAL CONSEQUENCES

4.1 WETLANDS

4.1.1 Future Conditions with No-Action Alternative. With no action, land-based resources associated with the proposed LSPL and 5.8-acre borrow site would not immediately change from current conditions. There would be no impact to terrestrial resources or conversion of the current borrow site land use type wet pastureland.

4.1.2 Future Conditions with the Proposed Action. With implementation of the Proposed Action, there would be no effect to wetlands with the proposed LSPL seepage berm expansion.

4.1.3 With the excavation of the 5.8-acre borrow site, there would be a permanent loss of the existing wetlands classified as wet pastureland due to the conversion to shallow open water habitat. The compensatory mitigation plan proposed in Section 6 - Mitigation of this SEA is expected to fully compensate for all impacts to wet-pastureland because of the Proposed Action.

4.2 AQUATIC RESOURCES/FISHERIES

4.2.1 Future Conditions with No-Action Alternative. With No Action, no change to the aquatic or fishery resources in the vicinity of the Proposed Action is expected to occur.

4.2.2 Future Conditions with the Proposed Action. With implementation of the Proposed Action, the approximately one-acre man made shallow open water borrow pond would be permanently converted back to its original land use type, terrestrial land, through the infilling of the pond. As the man-made borrow pond is primarily stagnant and there is no substantial hydrologic connection to any surrounding canals or tributaries situated on either the landside or floodside of the existing LSPL, there would be negligible adverse effects to any potential aquatic or fishery resources. Any potential benthic organisms that may exist within the shallow open water would be permanently destroyed with the addition of fill material.

4.2.3 With the excavation of the 5.8-acre borrow site, aquatic and fisheries resources that inhabit the adjacent Mississippi River would be indirectly impacted from the excavation of the proposed borrow area. During construction, any groundwater seeping into the pit would be pumped out into adjacent areas and would likely drain into the Mississippi River. It is expected that there would be a temporary increase in turbidity within the river directly surrounding any areas of runoff or groundwater pumping operations. Any increases in turbidity would likely be diminished by the swift moving currents of the river, and any free-floating sediment would likely settle downstream. Development of a new borrow pit on the east riverbank would ultimately be expected to provide habitat and breeding ground for a variety of both aquatic and fisheries as previously described in the existing conditions section. This would occur primarily during periods of high-water events on the Mississippi River where a direct hydrological connection to the borrow pit would be established. Impacts to adjacent existing aquatic and fisheries resources resulting from any borrow site excavation activities would not be expected to pose any long-term adverse effects.

4.3 WILDLIFE

4.3.1 Future Conditions with No-Action. With no action, no change to the wildlife resources in the vicinity of the Proposed Action is expected to occur.

4.3.2 Future Conditions with the Proposed Action. With implementation of the Proposed Action, it is anticipated that there would be temporary, short-term direct impacts to any wildlife species that may be present within the seepage berm expansion construction area. Wildlife species would likely relocate to adjacent suitable habitat. Upon completion of construction, it is anticipated that any temporarily displaced wildlife species would return to the project area.

4.3.3 With the excavation of the 5.8-acre borrow site, wet-pastureland wetlands would be directly converted to a shallow open water environment. It is expected that any terrestrial wildlife habitat would be directly lost due to the conversion to shallow open water habitat. Terrestrial wildlife located within the proposed borrow area would be forced to relocate to adjacent suitable habitat. While the overall loss of terrestrial wildlife habitat would be considered adverse, the previously discussed adjacent terrestrial habitat (i.e. undeveloped hardwood forest) would allow for the continued movement and existence within the riverside forest corridor for any displaced wildlife. Additionally, newly created fringe habitat of the borrow pit would be expected to offer some habitat benefits for wildlife that are traditionally adapted to wetland habitats such as beaver, nutria, muskrat, and raccoon.

4.4 TERRESTRIAL RESOURCES

4.4.1 Future Conditions with No-Action. With no action, land-based resources associated with the proposed LSPL seepage berm expansion and 5.8-acre borrow site would not immediately change from current conditions. There would be no impact to terrestrial resources or conversion of the current land use type wet pastureland.

4.4.2 Future Conditions with the Proposed Action. With implementation of the Proposed Action, there would be marginal effects to existing terrestrial resources (i.e., land use types) associated with the proposed LSPL seepage berm expansion. The construction of the proposed seepage berm expansion would add clayey topsoil over an additional approximately 16 acres (3,500 feet long by 200 feet wide) of loam alluvium from placement of fill material from the borrow site. The current hydrologic regime of forced storm water drainage away from the existing LSPL would remain unaffected.

4.4.3 With the excavation of the 5.8-acre borrow site, there would be a permanent loss of the existing land use type classified as wet-pastureland due to the conversion to shallow open water habitat. This direct conversion of this land use type would constitute a permanent loss of land-based resources. In a letter dated March 11, 2021, the United States Department of Agriculture, Natural Resources Conservation Service determined that the overall larger 77-acre proposed borrow area (encompassing the proposed 5.8-acre borrow site) will potentially impact approximately 59 acres of land classified as prime or unique farmland soils (RC – Robinsonville and Convent soils, occasionally flooded). As required by the Farmland Protection Policy Act (FPPA), CEMVN completed the site assessment criteria portion of the Farmland Conversion Impact Rating form (AD-1006) and determined that the proposed conversion of the previously mentioned prime and unique farmland soils to nonagricultural uses is consistent with the FPPA and that no additional evaluation is required.

4.5 THREATENED OR ENDANGERED SPECIES

4.5.1 Future Conditions with No-Action. With no action, there would be no effect to any listed threatened or endangered species or their critical habitat.

4.5.2 Future Conditions with the Proposed Action. The construction of the seepage berm expansion would have no effect to any listed threatened or endangered species or their critical habitat.

4.5.3 Pallid sturgeon are normally found in the fast moving, deep waters of the Mississippi River's main current, so their presence near or within the project area (i.e., riverbank) would be considered highly unlikely. With implementation of the Proposed Action, CEMVN has determined that the project would not likely adversely affect the endangered pallid sturgeon or any critical habitat. The USFWS concurred with CEMVN's determination of "not likely to adversely affect" under Section 7 of the Endangered Species Act (ESA) of 1973 and returned a copy of CEMVN's letter with their office stamp of concurrence dated January 22, 2021. (Appendix A). As the 5.8-acre borrow site is encompassed by the overall 77-acre borrow area, which was previously evaluated in the January 22, 2021 USFWS ESA concurrence, Section 7 ESA compliance has been achieved for the proposed project.

4.5.4 CEMVN has determined that there would be no effect to any threatened or endangered species or critical habitat under the purview of the National Oceanic and Atmospheric Administration, National Marine Fisheries Service, Protected Resources Division.

4.6 CULTURAL RESOURCES

4.6.1 Future Conditions with No Action. With no action, the proposed CEMVN undertaking would not occur; therefore, CEMVN has no further responsibilities under Section 106 of the NHPA and no new direct, indirect, or cumulative impacts to cultural resources would be incurred.

4.6.2 Future Conditions with the Proposed Action. With implementation of the Proposed Action, CEMVN has performed a review of existing documentation; the NRHP database, the Louisiana Division of Archaeology (LDOA) Louisiana Cultural Resources Map (LDOA Website), historic map research, a review of pertinent cultural resources survey reports, and other available data, and concluded that none of the present work items have any potential to affect a recorded NRHP-eligible archaeological site. Furthermore, any cultural deposits that may be present within the APE would not be anticipated to preexist the geologically recent formation of the alluvial apron beginning approximately 2,000-1,000 years BP and continuing through the nineteenth century and the potential for pre-nineteenth century deposits becomes incrementally less probable heading west from the Tunica Hills within this highly dynamic and recent geological formation. Accordingly, any pre-nineteenth century cultural materials deposited within the APE would likely be deeply buried beyond the proposed depth of excavation through a combination of alluvium deposited during episodes of river migration and potentially colluvium originating from the Tunica Hills moved by slope wash and small stream activity out onto the alluvial plain due to extensive timber cutting coupled with insufficient erosion control in the uplands. Furthermore, any previously unidentified archaeological sites within the APE would likely have been heavily disturbed and/or destroyed due to historic levee/rail line construction (other than archaeological deposits directly related to these activities) and again subsequent to Perrault et al.'s (2001) investigations by the 1999 construction of the existing levee footprint; and therefore would be unlikely to retain the integrity necessary for listing on the NRHP.

4.6.3 It is anticipated that the most probable site type to fall within the present APE would be associated with the historic use of the property dating from the late-nineteenth/early-twentieth centuries up until the present time and would likely be directly related to LSPL construction or agriculture; and if present, would likely hold limited research potential, would be unlikely to possess the integrity needed to contribute significant information beyond that contained in existing historical documentation, and would not be substantial enough for contributing to the NRHP under Criterion D. Therefore, CEMVN has determined that it is unlikely that the Archaeological APE possesses any yet unidentified NRHP-eligible archaeological deposits. Furthermore, no historic property is present within the architectural APE. Additionally, all of the LSPL improvements are consistent with the current use of the LSP.

4.6.4 Based on the identification and evaluation, CEMVN determined that there are no historic properties as defined in 36 CFR 800.16(l) within the APE. Accordingly, on March 4, 2021, CEMVN submitted a finding of "No Historic Properties Affected" for this Undertaking to the Louisiana State Historic Preservation Officer of the Department of Culture Recreation and Tourism (SHPO), the Choctaw Nation of Oklahoma (CNO), the Coushatta Tribe of Louisiana (CT), the Jena Band of Choctaw Indians (JBCI), the Mississippi Band of Choctaw Indians (MBCI), Muscogee Creek Nation (MCN), the Seminole Nation of Oklahoma (SNO), Seminole Tribe of Florida (STF), and the Tunica-Biloxi Tribe of Louisiana (TBTL).

4.6.5 SHPO concurrence was received on March 22, 2020. (Appendix B). On April 7, 2021, the CNO submitted a written response stating “West Feliciana Parish lies in our area of historic interest. The Choctaw Nation Historic Preservation Department concurs with the finding of “no historic properties affected”. However, we ask that work be stopped, and our office contacted immediately should Native American artifacts or human remains are encountered.” Furthermore, on April 05, 2021 the MCN submitted a written response stating “This project is currently inside of the Muscogee (Creek) Nation historic area of interest (AOI), specifically one of our Trail of Tears Removal Corridor Routes and near a major catastrophe upon our ancestors during the forced removal from our ancestral lands. I have attached a PDF of our current Area of Interest Map (AOI Map) for Louisiana. We do concur with this USACE undertaking project in compliance with the National Historic Preservation Act (NHPA) - Section 106 Laws, but ask to cease operations if any inadvertent discovery is made, and to notify our THPO and the other Tribes that may have been contacted if the event that the Inadvertent Discovery is deemed Indigenous, Indian, Native American, etc.”, and provided a link for information regarding additional details on the Monmouth Disaster: <http://freepages.rootsweb.com/~texlance/genealogy/emigrants/monmouth.htm#:~:text=The%201837%20Monmouth%20disaster%20on%20the%20Mississippi%20River,through%20the%20misty%20October%20%5B31st%5D%20night%20in%201837>. The remaining Tribes did not respond within the regulatory timeframes; therefore, CEMVN has fulfilled its NHPA Section 106 responsibilities to consult with Tribes.

4.6.6 In summary, CEMVN has determined that there would be a negligible effect on the Cultural Resources component of the human environment from implementing the Proposed Action.

4.7 WATER QUALITY

4.7.1 Future Conditions with No-Action. With no action, no new direct or indirect impacts to water quality would be expected to occur.

4.7.2 Future Conditions with the Proposed Action. With implementation of the Proposed Action, there would be minimal, temporary effects to water quality in any surrounding canals or bayous adjacent to the proposed seepage berm expansion. During construction, any sediment runoff from the LSPL would be minimized through best management practices such as placement of silt fencing along the landside LSPL right of way.

4.7.3 During the excavation of the 5.8-acre borrow site, any groundwater seeping into the pit would be pumped out into adjacent areas and would likely drain into the Mississippi River. It is expected that there would be a temporary increase in turbidity within the river directly surrounding any areas of runoff or groundwater pumping operations. Any increases in turbidity would likely be diminished by the swift moving currents of the river, and any free-floating sediment would likely settle downstream. Temporary impacts to water quality resulting from any borrow site excavation activities would not be expected to pose any long-term adverse effects.

4.7.4 A Clean Water Act (CWA) Section 404(b)(1) public notice was distributed to the public and comments were solicited on February 26, 2021. No adverse comments were received in response to the 30-day public review. A Section 404(b)(1) short form evaluation was signed on March 30, 2021. Additionally, a CWA Section 401 State Water Quality Certificate (WQC 202115-01/AI 101235/CER 20200010) was issued by the Louisiana Department of Environmental Quality (LDEQ) by letter dated January 20, 2021. (Appendix C). As the 5.8-acre borrow site is encompassed by the overall 77-acre borrow area, which was previously evaluated in both the

March 30, 2021 CWA Section 404(b)(1) short form evaluation and LDEQ CWA Section 401 WQC (202115-01/AI 101235/CER 20200010), compliance with CWA Section 404(b)(1) and Section 401 WQC have been completed for the proposed project.

4.8 AIR QUALITY

4.8.1 Future Conditions with No-Action. With no action, no new direct or indirect impacts to ambient air quality would be expected to occur.

4.8.2 Future Conditions with the Proposed Action. With implementation of the Proposed Action, direct and indirect impacts to ambient air quality within the immediate vicinity of the overall project area are expected to be temporary, primarily due to the emissions of construction equipment. Due to the short duration of the proposed project, any increases or impacts to ambient air quality are expected to be short-term and minor and are not expected to cause or contribute to a violation of Federal or State ambient air quality standards. Once all construction activities associated with the Proposed Action cease, air quality within the vicinity is expected to return to pre-construction conditions.

4.9 HAZARDOUS, TOXIC, AND RADIOACTIVE WASTE

4.9.1 CEMVN is obligated under Engineer Regulation (ER) 1165-2-132 to assume responsibility for the reasonable identification and evaluation of all Hazardous, Toxic, and Radioactive Waste (HTRW) contamination within the vicinity of Proposed Action. ER 1165-2-132 identifies that HTRW policy is to avoid the use of project funds for HTRW removal and remediation activities. USACE conducted a Phase 1 Environmental Site Assessment (ESA) for the footprints of the Proposed Action (including the proposed borrow site) in accordance with, USACE Engineering Regulation No. 1165-2-132, HTRW Guidance For Civil Works Projects (June 26, 1992) and the American Society for Testing and Materials (ASTM) E 1527-13, Standard Practice for ESA: Phase 1 ESA Process (ASTM, 1997). The Phase 1 ESA was performed on May 4, 2021 and a copy of the Phase 1 ESA will be maintained on file at the CEMVN Headquarters. The objective of the HTRW assessments was to identify HTRW problems early in the design of Work Items to ensure appropriate consideration of HTRW problems during detailed design. The HTRW assessments included: 1) a review of HTRW Phase I Environmental Database Review Corridor Reports and State and Federal databases (e.g., Resource Conservation and Recovery Act Information, Toxic Release Inventory, Superfund Enterprise Management System, Assessment, Cleanup and Redevelopment Exchange System, and state databases on underground storage tanks and hazardous waste programs, etc.) to identify recognized environmental conditions (RECs), and 2) site reconnaissance to determine if RECs are within the footprint of the Proposed Action (including the borrow site). The probability of encountering HTRW for the Proposed Action is low based on the initial site assessment. If no recognized environmental conditions are identified in relation to the Proposed Action area, the probability of encountering HTRW for this Proposed Action would be considered low. If a recognized environmental condition is identified in relation to the Proposed Action area site, CEMVN would take the necessary measures to avoid the recognized environmental condition so that the probability of encountering or disturbing HTRW would continue to be low.

4.10 CUMULATIVE IMPACTS

4.10.1 Cumulative impacts of the Proposed Action consist of the impacts of this action when compared to the impacts of all other past, present, or future similar or related actions. Thus, cumulative impacts could be the impacts of this current specific action when compared to all other flood damage reduction measures of the overall project. The previous portion of the overall LSP Project resulted in the losses of 19 acres of all forms of LSP land to ditches and approximately 646 acres of all forms of LSP lands to all land uses required by the levee system. Prior ditch excavation and reconstruction has more of an effect on LSP agricultural lands than on other resources more valuable to wildlife. The current action will permanently impact approximately 5.8 acres of wet pastureland due to the conversion to shallow open water habitat, but it will not change the character of the LSP. Future use of the larger overall 77-acre borrow area would also be expected to have the same permanent impacts to wet pastureland as previously described. The Proposed Action is counter-balanced from a socio-economic standpoint by the reduced efforts at flood fighting and the increased security to farm and prison operators and residents with increased protection from high river stages. The maintenance and repair/rehabilitation of the entirety of the levee system would serve to prevent future levee seepage, sand boils, and overall catastrophic failure. Not including these items as part of the Proposed Action would allow the area to revert to non-agricultural and non-prison use but would be socially unacceptable to the citizens of the state.

5. COORDINATION AND PUBLIC INVOLVEMENT

Preparation of this draft SEA and draft FONSI is being coordinated with the public, appropriate congressional, federal, tribal, state, and local interests, as well as environmental groups and other interested parties.

6. MITIGATION

6.1 The appropriate application of mitigation is to formulate an alternative that first avoids adverse impacts, then minimizes adverse impacts, and lastly, compensates for unavoidable impacts. This draft SEA evaluates the potential impacts associated with the proposed LSPL seepage berm expansion and designation of a 5.8 acre borrow site on the east riverbank of the Mississippi River. The following mitigation plan is being developed to compensate for the unavoidable loss of 5.8 acres of wetland resources as result of the Proposed Action.

6.2 As originally described in EA #278, which is incorporated herein by reference, compensatory mitigation requirements were based on the mitigation planning experience of CEMVN personnel, with concurrence from the USFWS in a letter dated April 27, 1998. In EA #278, the ratio of compensatory mitigation for the unavoidable loss of farmed wetlands was originally established at 1:0.5 with the proposed reforestation of cleared lands with various species of bottomland hardwoods. For the Proposed Action, it was determined that unavoidable impacts to approximately 5.8 acres of wetlands classified as wet pastureland would similarly be compensated by a ratio of 0.5 acres of bottomland hardwood forest land for 1 acre of wet pastureland lost, but would be accomplished through the purchase of mitigation bank credits at a commercial mitigation bank. Thus, a total of approximately 5.8 acres of wet pastureland losses would be compensated through acquisition of approximately 2.9 acres of bottomland hardwoods compensatory mitigation bank credits.

6.3 On January 4, 2007, the 110th Congress of the United States of America finalized the Water Resources Development Act (WRDA) of 2007 (H.R. 1495, Public Law 110-114). Under Section 2036(c), *Mitigation for Fish and Wildlife and Wetlands Losses – Wetlands Mitigation*, it specifically directs the USACE to consider the use of commercial mitigation banks to fulfill the mitigation responsibilities of Civil Works projects, stating:

In carrying out a water resources project that involved wetlands mitigation and that has impacts that occur within the service area of a mitigation bank, the Secretary, where appropriate, shall first consider the use of the mitigation bank if the bank contains sufficient available credits to offset the impact and the bank is approved in accordance with the Federal Guidance for the Establishment Use and Operation of Mitigation Banks (60 Fed. Reg. 58605) or other applicable Federal law (including regulations).

6.4 Therefore, the following mitigation plan proposes to acquire appropriate bottomland hardwood compensatory mitigation bank credits for unavoidable impacts to wet pastureland resulting from the proposed use of the 5.8-acre borrow site. Because the impacts associated with the construction of the Proposed Action and mitigation required to compensate for those impacts is relatively minor, a decision was made to purchase credits in a mitigation bank. This affords for the best value from an ecosystem perspective, in that small blocks of restored forested land have a lesser overall value to an ecosystem than would a larger block of land, as would be the case in establishing a mitigation bank. USACE-constructed mitigation options were evaluated in place of purchasing credits from commercial mitigation banks but were ultimately eliminated from further consideration due to lack of affordable options regarding land acquisition and costs associated with site development and operation and maintenance. Preliminary costs for Corps-constructed mitigation options would far exceed the cost of acquiring mitigation credits from an existing commercial mitigation bank within the appropriate watershed. Additionally, WRDA 2007 states that mitigation should be accomplished either prior to or concurrently with construction. Initial time estimates (i.e., time to acquire appropriate real estate from willing landowners) to develop Corps-constructed mitigation sites would delay the project construction of this vitally important LSPL repair that is necessary for the protection of life and property.

6.5 In Federal Register Vol. 73, No. 70, April 10, 2008, specifically Part 332, § 332.4 (c)(1) *Compensatory Mitigation for Losses of Aquatic Resources, Planning and documentation, Mitigation Plan, Preparation and Approval*, guidance was set forth requiring the preparation of a draft and final mitigation plan that would address the following 12 items: 1) preparation and approval; 2) objectives; 3) site selection; 4) site protection instrument; 5) baseline information; 6) determination of credits; 7) mitigation work plan; 8) maintenance plan; 9) performance standards; 10) monitoring requirements; 11) long-term management plan; 12) adaptive management plan; financial assurances; and other information. However, since the proposed mitigation plan proposes to utilize a compensatory mitigation bank, the following language included in Part 332 § 332.4 (c)(1)(i)(ii) would apply, “For permittees who intend to fulfill their compensatory mitigation obligations by securing credits from approved mitigation banks...their mitigation plan need include only the items described in paragraphs (c)(5) and (c)(6)...” Therefore, only items 5 and 6, baseline information and determination of credits, will be addressed further.

6.6 Item 5 – Baseline Information. For a complete description of “Baseline Information”, please refer to the following Sections within SEA #278-D, which is incorporated herein by reference: 3.1 *Description of the Project Area*; 3.2 *Description of the Watershed*; 3.3 *Climate*; 3.4 *Geology*; and 3.6 *Wetlands*.

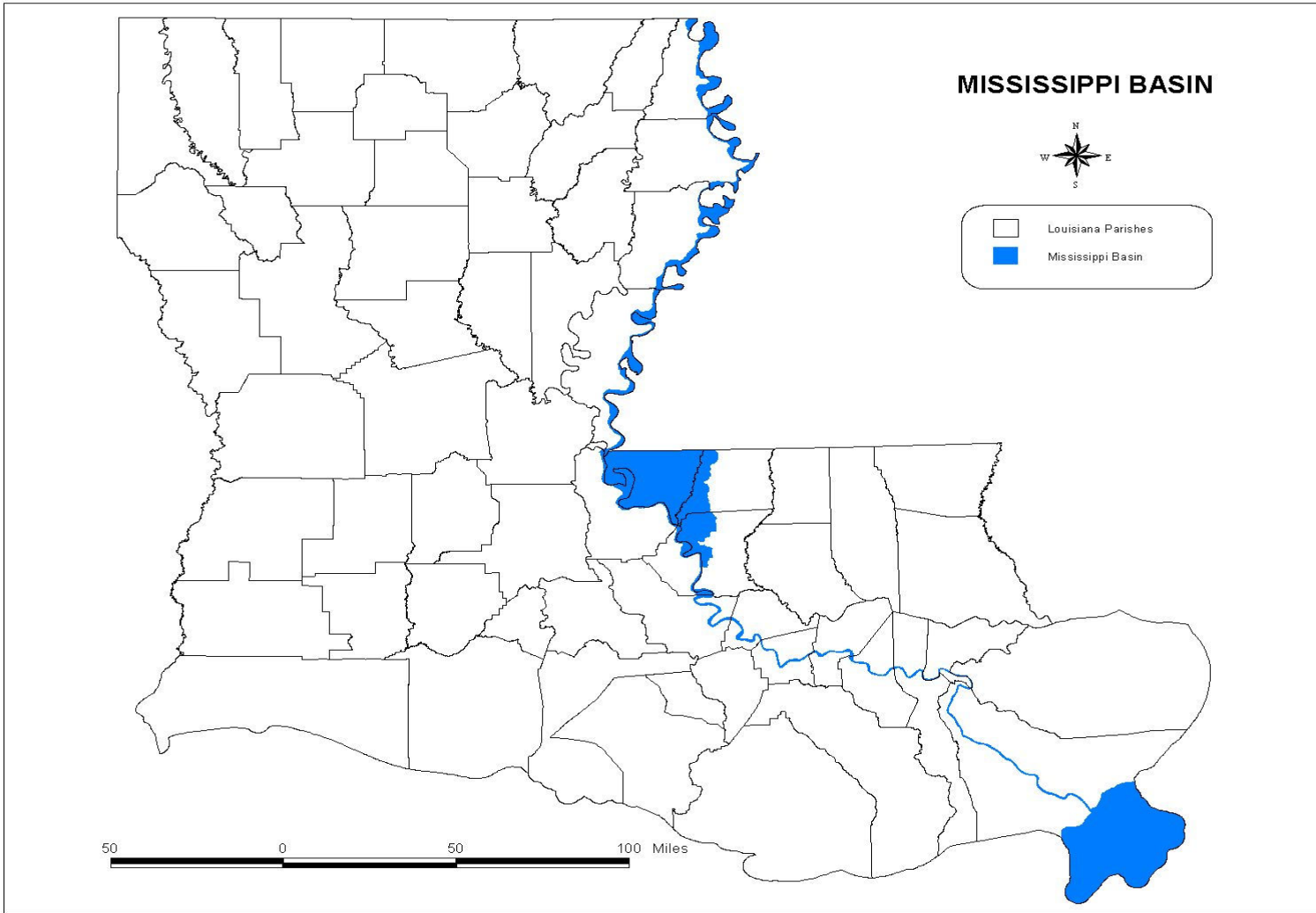
6.7 Item 6 – Determination of Credits. The proposed mitigation bank plan is designed to comply with the requirements set forth under USACE guidance “Implementation Guidance for Section 2036(a) of the Water Resources Development Act of 2007 – Mitigation for Fish and Wildlife and Wetland Losses” dated August 31, 2009, which further highlights the need for Civil Works mitigation plans to be consistent with the regulations and policies governing the USACE Regulatory Program. To comply with these multiple laws and directives and to be consistent with the USACE Regulatory Program, the New Orleans District investigated the use of mitigation banks within appropriate, applicable service area, the Mississippi River watershed basin. However, in the event that the total amount of credits that would be required to fully compensate for unavoidable wetlands impacts would not be achievable, the proposed mitigation bank plan is meant to afford the CEMVN the opportunity to explore reasonable and available mitigation opportunities both within the impacted service area as well as adjacent service area (Lake Pontchartrain River Basin) in order to compensate for unavoidable wetlands impacts. The amount of credits that would be required to fully compensate for unavoidable wetlands impacts will be determined upon selection of an appropriate compensatory mitigation bank. The mitigation bank plan is as follows:

6.8 Mitigation Bank Plan - Primary. The CEMVN proposes to mitigate for approximately 5.8 acres of unavoidable adverse impacts to wet pastureland at available bottomland hardwood mitigation banks located within the Mississippi River Basin, within the CEMVN boundaries. Within Louisiana, and specifically within the CEMVN boundaries, the Mississippi River Basin is comprised of the Mississippi River along with West Feliciana Parish, portions of East Feliciana Parish east of Redwood Creek, portions of East Baton Rouge Parish east of the Comite River and the city of Baton Rouge, and the delta. The river is completely leveed on its western side from the Concordia Parish to Venice and on its eastern side from Baton Rouge to Venice (Figure 6).

6.9 In the Mississippi River Basin, there are currently five approved mitigation banks with available bottomland hardwood mitigation credits: Cypress Plantation; Cypress Plantation II; Tunica Swamp Silos; Ash Slough Headwaters; and Ash Slough Headwaters Addendum 1.

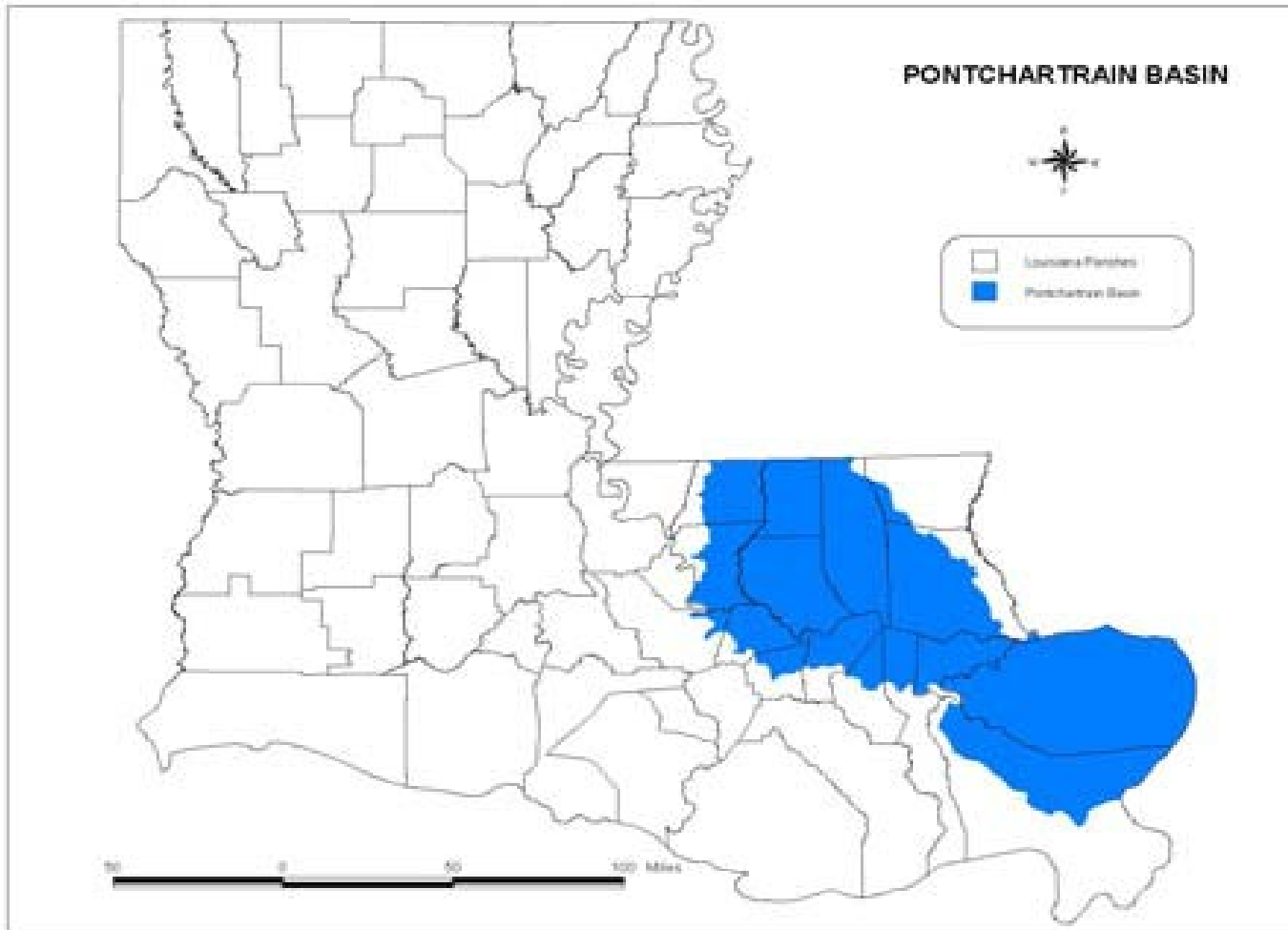
6.10 Mitigation Bank Plan - Secondary. The CEMVN proposes to mitigate for approximately 5.8 acres of unavoidable adverse impacts to wet pastureland at available bottomland hardwood mitigation banks located within the adjacent Lake Pontchartrain River Basin, within the CEMVN boundaries. The Lake Pontchartrain River Basin is a 4,700 square mile watershed in southeast Louisiana and southwest Mississippi. The topography of the basin ranges from more than 300 feet above sea level in the rolling hills along the Louisiana and Mississippi state line to sea level throughout the coastal wetlands to more than 10 feet below sea level in some areas of New Orleans. The northern half of the basin is commonly referred to as the Florida Parishes and it contains all or portions of 7 parishes: East Baton Rouge, East Feliciana, Livingston, St. Helena, St. Tammany, Tangipahoa, and Washington (Figure 7).

6.11 In the Lake Pontchartrain River Basin, there are currently 14 approved mitigation banks with available bottomland hardwood mitigation credits: Ash Slough Headwaters; Zachary - Copper Mill Bayou; Zachary – Redwood Creek; Zachary - Comite Flats I; Zachary - Comite Flats II; Comite Properties - Tract A; Comite Properties - Tract B; Beaver Creek; Crooked Branch; Bayou Manchac – Oakley; Bayou Conway; Timberton; Timberton II; and Timberton III.



— Mississippi River Basin

Figure 6: Mississippi River Basin.



— Lake Pontchartrain River Basin

Figure 7: Lake Pontchartrain River Basin.

7. COMPLIANCE WITH ENVIRONMENTAL LAWS AND REGULATIONS

Environmental compliance for the Proposed Action would be achieved upon coordination of this draft SEA and draft FONSI with all appropriate agencies, organizations, and individuals for their review and comments.

- The U.S Fish and Wildlife Service concurred with the USACE’s determination of “not likely to adversely affect” under Section 7 of the Endangered Species Act of 1973 and returned a copy of USACE’s letter with their office stamp of concurrence dated January 22, 2021.
- In accordance with responsibilities under Executive Order 13175, the NEPA, and Section 106 of the NHPA, CEMVN determined that there are no historic properties as defined in 36 CFR 800.16(l) within the APEs. Accordingly, on March 4, 2021, CEMVN submitted a finding of “No Historic Properties Affected” for this Undertaking to the SHPO, the CNO, the CT, the JBCI, the MBCI, MCN, the SNO, the STF, and the TBTL. SHPO concurrence was received on March 22, 2020. (Appendix B). On April 7, 2021, the CNO submitted a written response stating “West Feliciana Parish lies in our area of historic interest. The Choctaw Nation Historic Preservation Department concurs with the finding of “no historic properties affected”. However, we ask that work be stopped, and our office contacted immediately should Native American artifacts or human remains are encountered.” Furthermore, on April 05, 2021 the MCN submitted a written response stating “This project is currently inside of the Muscogee (Creek) Nation historic area of interest (AOI), specifically one of our Trail of Tears Removal Corridor Routes and near a major catastrophe upon our ancestors during the forced removal from our ancestral lands. I have attached a PDF of our current Area of Interest Map (AOI Map) for Louisiana. We do concur with this USACE undertaking project in compliance with the National Historic Preservation Act (NHPA) - Section 106 Laws, but ask to cease operations if any inadvertent discovery is made, and to notify our THPO and the other Tribes that may have been contacted if the event that the Inadvertent Discovery is deemed Indigenous, Indian, Native American, etc.” The remaining Tribes did not respond within the regulatory timeframes; therefore, CEMVN has fulfilled its NHPA Section 106 responsibilities to consult with Tribes.
- On February 26, 2021, a Section 404(b)(1) Public Notice was distributed to the public and comments were solicited. No adverse comments were received in response to the 30-day public review. A Section 404(b)(1) short form evaluation was signed on March 30, 2021.
- The LDEQ issued Water Quality Certificate 202115-01/AI 101235/CER 20200010 by letter dated January 20, 2021.
- Additionally, USACE, requires that its agents understand and acknowledge the following conditions required as a result of Section 106 consultation for ground disturbing activities that provide for the protection of and notification protocols for, unexpected discoveries or unexpected effects to historic properties and human remains:
 - Inadvertent Discovery and Unexpected Effects: If during the course of work, archaeological artifacts (prehistoric or historic) are discovered or unexpected effects to historic properties, including architecture, architectural elements, and/or archaeology, are identified, the contractor shall stop work in the general vicinity of the discovery or unexpected effect and take all reasonable measures to avoid or minimize harm to the finds or affected property. The contractor would ensure that the discovery or unexpected effects are secured and stabilized, as necessary, and access to the area is restricted. The contractor shall inform their Operations

Division (OD) contacts at USACE, who would in turn contact Planning Division (PD) staff. The contractor would not proceed with work until USACE PD completes consultation with the Louisiana SHPO and others, as appropriate.

- Louisiana Unmarked Human Burial Sites Preservation Act: If human bone or unmarked grave(s) are present within the Proposed Action area, compliance with the Louisiana Unmarked Human Burial Sites Preservation Act (R.S. 8:671 et seq.) is required. The contractor shall notify the law enforcement agency of the jurisdiction where the remains are located within 24 hours of the discovery. The contractor shall also notify USACE and the Louisiana Division of Archaeology within 72 hours of the discovery. Discoveries of unmarked graves, burials, human remains, or items of cultural patrimony on federal or tribal lands shall be subject to the Native American Graves Protection and Repatriation Act (NAGPRA) (25 U.S.C. §3001-3013, 18 U.S.C. § 1170) and the Archaeological Resources Protection Act of 1979 (ARPA)(16 U.S.C. §470aa – 470mm).

8. CONCLUSION

The Proposed Action would consist of the designation of a 5.8-acre borrow site for use in a seepage berm expansion located near Camp F along the existing LSPL Project. Unavoidable permanent impacts to wetlands would require 2.9 acres of compensatory mitigation. Additionally, the continued future use of the larger overall 77-acre borrow area will ultimately require compensatory mitigation. As such, future projects utilizing earthen borrow material from the 77-acre borrow area will continue to provide the appropriate amount of compensatory mitigation required based on the mitigation plan described in Section 6 of this SEA. This office has assessed the environmental impacts of the Proposed Action and has determined that the Proposed Action would have no impact to threatened or endangered species or cultural resources. Temporary and minimal impacts would occur to both air quality and water quality but would only occur for the duration of construction. Direct conversion of wet pastureland to shallow open water as a result of borrow activities would constitute a permanent loss of land-based resources and directly impact both terrestrial and wildlife resources. While the overall loss of terrestrial resources and wildlife habitat would be considered adverse, the previously discussed adjacent terrestrial habitat (i.e. undeveloped hardwood forest) would allow for the continued movement and existence within the riverside forest corridor for any displaced wildlife. Development of a new borrow pit on the east riverbank would ultimately be expected to provide additional habitat and breeding ground for a variety of both aquatic and fisheries resources.

9. PREPARED BY

Draft Supplemental Environmental Assessment 278-E and the associated Finding of No Significant Impact were prepared by Mr. Mark Henry Lahare, Environmental Protection Specialist, with relevant sections and contributions prepared by: Mr. Joseph Musso (HTRW); and Mr. Jeremiah Kaplan (Cultural Resources). The address of the preparers is: U.S. Army Corps of Engineers, New Orleans District; Regional Planning and Environment Division South, CEMVN-PDC-C; 7400 Leake Avenue; New Orleans, Louisiana 70118.

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APPENDIX A


Endangered Species Act Determination

To: Mr. David Walther, U.S. Fish and Wildlife Service
200 Dulles Drive
Lafayette, Louisiana 70506

From: Mark Henry Lahare
Telephone: 504-862-1344
Date: 10 December 2020
E-mail: mark.h.lahare@usace.army.mil

This project has been reviewed for effects to Federal trust resources under our jurisdiction and currently protected by the Endangered Species Act of 1973 (Act.) The project, as proposed,

Is not Likely to adversely effect those resources


Supervisor
Louisiana Ecological Services Office
U.S. Fish and Wildlife Service

22 Jan 21

Date

Subject: Draft Supplemental Environmental Assessment #278-D, "Louisiana State Penitentiary, Flood Damage Reduction Measures, West Feliciana Parish, Louisiana.

Dear Mr. Walther:

The U.S. Army Corps of Engineers, New Orleans District (CEMVN) proposes to construct flood damage reduction measures at the Louisiana State Penitentiary (LSP), located near Angola, in West Feliciana Parish, Louisiana. The Mississippi River Flood of 2018-2019, which transpired from November 2018 through August 2019, resulted in damage to the existing LSP levee. The non-Federal sponsor (NFS), the Louisiana Department of Public Safety and Corrections, requested assistance in writing, dated August 30, 2019, for five separate locations along the LSP levee where levee slides occurred (Figures 1 and 2). The environmental impacts associated with the proposed work are currently being addressed in draft Supplemental EA #278-D, which is scheduled to be available for review and comment in mid-January 2021.

The proposed LSP levee repairs entail the excavation of failed embankment material and damaged LSP levee sections; the replacement of embankment material in compacted levee lifts; the construction of a more gradual flood side and landside levee slope for slides 1, 3, 4, and 5 (100, 135, 110, and 470 linear feet, respectively); and the removal of an existing unpaved levee ramp for slide 2 (75 linear feet).

For LSP levee slides 1, 3, 4, and 5, the repair will rehabilitate these sections using suitable embankment material to increase stability by decreasing the levee slope. The repaired LSP levee sections will be designed using the Mississippi River and Tributaries (MR&T) levee design standards and criteria. From the levee crown at elevation 69 feet North American Vertical Datum 1988 (NAVD88), the new river/landside levee slope will be 1 vertical on 5 horizontal to the existing ground. The estimated borrow quantity required to repair levee slides 1, 3, 4, and 5 is approximately 23,000 cubic yards, and the total length of the 4 slides is 815 linear feet.

For levee slide 2, on the unpaved ramp, the repair will consist of degrading the ramp to a uniform slope to match the areas directly adjacent to slide 2. From the levee crown at elevation 69 feet NAVD88, the new landside slope will be 1 vertical on 4 horizontal to

APPENDIX B



DEPARTMENT OF THE ARMY
CORPS OF ENGINEERS, NEW ORLEANS DISTRICT
7400 LEAKE AVE
NEW ORLEANS LA 70118-3651

March 4, 2021

Regional Planning and
Environment Division, South
Environmental Planning Branch
Attn: CEMVN-PDS-N

Kristin Sanders, SHPO
LA State Historic Preservation Officer
P.O. Box 44247
Baton Rouge, LA 70804-4241

No known historic properties will be affected by this undertaking. Therefore, our office has no objection to the implementation of this project. This effect determination could change should new information come to our attention.

Kristin P. Sanders
State Historic Preservation Officer
Date

RE: Section 106 Review Consultation

Undertaking: Louisiana State Penitentiary, Camp F, Angola Ring Levee Seepage and Sand Boil Repair, West Feliciana Parish, Louisiana (Project WP #: 341643) (General Project Coordinates: 30.997726, -91.583995)

Determination: No Historic Properties Affected

Dear Ms. Sanders:

The U.S. Army Corps of Engineers (USACE), New Orleans District (CEMVN), proposes to fund the Mississippi River and Tributaries (MR&T), Mississippi River Levees, Louisiana Department of Public Safety and Corrections (LDPSC; non-federal sponsor), Louisiana State Penitentiary (LSP), Camp F, Angola Ring Levee Seepage and Sand Boil Repair Project (Camp F; Undertaking), in West Feliciana Parish, Louisiana.

In partial fulfillment of CEMVN's responsibilities under Executive Order 13175, the National Environmental Policy Act, as amended (42 U.S.C. § 4321 et seq.), Section 106 of the National Historic Preservation Act (NHPA), as amended (54 U.S.C. § 306108), and its implementing regulations, 36 Code of Federal Regulations [CFR] Part 800, and Section 110 of the NHPA, that requires each Federal agency to assume responsibility for the preservation of historic properties or resources that fall under the agency's jurisdiction and that such properties are maintained and managed in a way that considers the preservation of their historic, archaeological, architectural, and cultural values. In compliance with Section 106, the CEMVN offers you the opportunity to review and comment on the potential of the proposed Undertaking described in this letter to adversely affect properties listed on or eligible for listing on the National Register of Historic Places (NRHP), protected tribal resources, tribal rights, or Native lands. Documentation in this letter is consistent with the requirements in 36 CFR § 800.11(d).

LSPL Background

The Louisiana State Penitentiary Levee (LSPL) Mississippi River Study was authorized by the September 3, 1973, by resolution of the United States Senate Committee on Public Works. The purpose of the Study was to review the report of the MR&T Project published as House Document 308 of the 88th Congress to determine whether to incorporate the existing local (non-federal) levee into the Mississippi River Levee (MRL) system (federal). The *Louisiana State Penitentiary Levee, Mississippi River Final Feasibility Report and Final Environmental Impact*

APPENDIX C

JOHN BEL EDWARDS
GOVERNOR



CHUCK CARR BROWN, Ph.D.
SECRETARY

State of Louisiana
DEPARTMENT OF ENVIRONMENTAL QUALITY
ENVIRONMENTAL SERVICES

JAN 20 2021

Mr. Mark Lahare
Regional Planning Division, South
Coastal Environmental Compliance Section
CEMVN-PDC-C
7400 Leake Avenue
New Orleans, LA 70118
attn.: Mark Henry Lahare

AI No.: 101235
Activity No.: CER20200010

RE: Louisiana State Penitentiary, Flood Damage Reduction Measures, Supplemental Environmental Assessment #278-D
Water Quality Certification WQC 201215-01
Wet Feliciana Parish

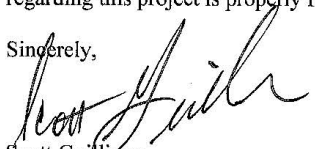
Dear Mr. Lahare:

The Louisiana Department of Environmental Quality, Water Permits Division (LDEQ), has reviewed the application to excavate and place fill to construct flood damage reduction measures at the Louisiana State Penitentiary (LSP) located near Angola, West Feliciana Parish.

The information provided in the application has been reviewed in terms of compliance with State Water Quality Standards, the approved Water Quality Management Plan and applicable state water laws, rules and regulations. LDEQ determined that the requirements for a Water Quality Certification have been met. LDEQ concludes that the discharge of fill will not violate water quality standards as provided for in LAC 33:IX.Chapter 11. Therefore, LDEQ hereby issues US Army Corps of Engineers, New Orleans District Water Quality Certification, WQC 201215-01 for the Louisiana State Penitentiary, Flood Damage Reduction Measures, Supplemental Environmental Assessment #278-D project.

Should you have any questions concerning any part of this certification, please contact Elizabeth Hill at (225) 219-3225 or by email at elizabeth.hill@la.gov. Please reference Agency Interest (AI) number 101235 and Water Quality Certification 201215-01 on all future correspondence to this Department to ensure all correspondence regarding this project is properly filed into the Department's Electronic Document Management System.

Sincerely,


Scott Williams
Administrator
Water Permits Division

c: IO-W

cc: Mark Lahare
mark.h.lahare@usace.army.mil

Post Office Box 4313 • Baton Rouge, Louisiana 70821-4313 • Phone 225-219-3181 • Fax 225-219-3309
www.deq.louisiana.gov