MAY 0 3 2017

CEMVN-ED-F

MEMORANDUM FOR Chief, Operation Division (CEMVN-OD-W/Amy Powell)

SUBJECT: 2017 Annual (Operations and Maintenance) Compliance Inspection for Lake Borgne Basin Levee District – New Orleans East Bank (LBL1)

1. Please find Engineering Division's input for the subject routine levee inspection (Encl).

2. The supporting documentation from the limited field inspection has been assembled in a format that should accommodate your needs in preparing the Continuing Eligibility Inspection Report. This documentation is based upon the limited visual observations by experienced design personnel. Engineering analyses were not performed and project documents were not evaluated.

3. Based on team observations from the 2017 routine inspection, an overall rating of Minimally Acceptable was given for the levee system/segment which is maintained by the Lake Borgne Basin Levee District (LBBLD) and the Southeast Louisiana Flood Protection Authority – East (SLFPA-E). The deficiencies and recommendations presented in this report should be reviewed and utilized in scheduling SLFPA-E's routine maintenance activities and developing a plan to correct the deficiencies presented in this report. Failure to comply with the recommendations laid out in this inspection report and SLFPA-E's plan for corrective actions within the next year could result in an Unacceptable Rating in 2018.

4. The basis for the Minimally Acceptable (M) rating for this levee system/segment is due to "M" rating(s) for rated item(s) contained in this report and for rating deficiencies described in Section G of the general instructions for the Flood Damage Reduction Segment/System Inspection Report. The predominant deficiencies observed were unwanted vegetation, encroachments, erosion\bank caving, depressions/rutting, animal control, revetments other than riprap, and areas of historic seepage.

5. This inspection rating represents the U.S. Army Corps of Engineers' (USACE) evaluation of operations and maintenance of this flood damage risk reduction system and may be used in conjunction with other information for a levee system evaluation for the National Flood Insurance Program (NFIP). Due to the Minimally Acceptable rating for this year's routine inspection, it is recommended that SLFPA-E

evaluate the potential impacts of this rating to the levee system's FEMA accreditation, if applicable. A Minimally Acceptable USACE inspection rating alone does not equate to an FEMA accredited levee for the NFIP.

6. POC is Kathryn Chaisson, x 2985.

Encl

MARK L. WOODWARD, P.E.
Geotechnical Branch
Levee Safety Program Manager

JEAN S. VOSSEN, P.E.
Chief, Engineering Division
Levee Safety Officer

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WOODWARD
CEMVN-ED-F

PINNER
CEMVN-ED-F

BECK
CEMVN-ED-L

GAYHEART
CEMVN-ED-T

VOSSEN
CEMVN-ED

US Army Corps of Engineers

Flood Damage Reduction Segment / System Inspection Report

Name of Segment / System : Lake Borgne LD - New Orleans East Bank (LBL1)
Public Sponsor(s): Southeast Louisiana Flood Protection Authority - East
Public Sponsor Representative: Robert Turner - Regional Director
Sponsor Phone: 504 262-8902
Sponsor Email: rturner@slfpac.com
Corps of Engineers Inspector: Glenn Brown, Kathryn Chaisson, Brian Johnson, Timothy D. Bordelon, Timothy Manyfield, Carlos Hernandez
Inspection Report Prepared By: Glenn Brown
Internal Technical Review (For Periodic Inspection) Prepared By: Mark Woodward, P.E.
Final Approved By: Jean Vossen, P.E.

Inspection Start Date: 02/01/2017
Inspection End Date: 02/02/2017
Date Report Prepared: 02/24/2017
Date of ITR: 3/29/17
Date Approved: 5/8/17

Type of Inspection:
- ☐ **Initial Inspection Eligibility**
- ☒ **Continuing Eligibility Inspection (Routine)**
- ☐ **Continuing Eligibility Inspection (Periodic)**

Overall Segment/System Rating:
- ☐ **Acceptable**
- ☒ **Minimally Acceptable**
- ☐ **Unacceptable**

Contents of Report:
- ☒ **Instructions**
- ☐ **Initial Eligibility Inspection**
- ☐ **General Items for All Flood Control Works**
- ☒ **Levee Embankment**
- ☒ **Floodwalls**
- ☐ **Interior Drainage System**
- ☐ **Pump Stations**
- ☐ **FDR System Channels**

The annual Continuing Eligibility (Routine) Inspection for the Lake Borgne Basin Levee District - New Orleans East Bank (LBL1), the Bayou Dupre Structure and Caernarvon Sector Gate was conducted on 2/1/2017 and 2/2/2017. Maps at the end of this report show the area covered and the inspection points collected during the 2017 inspections. Based on team observations from the 2017 routine inspection, an overall rating of the levee systems and segments for which the Southeast Louisiana Flood Protection Authority - East (SLFPA-E) has maintenance responsibility has been classified as Minimally Acceptable.

The deficiencies and recommendations presented in this report should be reviewed and utilized in scheduling SLFPA-E's routine maintenance activities and developing a plan to correct the deficiencies presented in this report. Failure to comply with the recommendations presented in this report should be reviewed and utilized in scheduling SLFPA-E's plan for corrective actions within the next year could result in an Unacceptable ration in 2018.

The basis for the Minimally Acceptable (M) rating for this levee system/segment is due to "M" ratings for rated items contained in this report and the rating deficiencies described in Section G of the general instructions for the Flood Damage Reduction Segment/System Inspection Report. The predominant deficiencies observed were unwanted vegetation, encroachments, erosion\bank caving, depressions/rutting, animal control, revetments other than riprap, and areas of historic seepage.

This inspection rating represents the U.S. Army Corps of Engineers' (USACE) evaluation of operations and maintenance of this flood damage risk reduction system and may be used in conjunction with other information for a levee system evaluation for the National Flood Insurance Program (NFIP). Due to the Minimally Acceptable rating for this year's routine inspection, it is recommended that PPG evaluate the potential impacts of this rating to the levee system's FEMA accreditation, if applicable. A Minimally Acceptable USACE inspection rating alone does not equate to an FEMA accredited levee for the NFIP.

Flood Damage Reduction Segment / System Inspection Report

US Army Corps of Engineers®

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Public Sponsor Representative: Robert Turner - Regional Director
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The deficiencies and recommendations presented in this report should be reviewed and utilized in scheduling SWFPA-E's routine maintenance activities and developing a plan to correct the deficiencies presented in this report. Failure to comply with the recommendations presented in this report should be reviewed and utilized in scheduling SLFPA-E's plan for corrective actions within the next year could result in an Unacceptable ration in 2018.

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General Instructions for the Inspection of Flood Damage Reduction Segments / Systems

A. **Purpose of USACE Inspections:**
The primary purpose of these inspections is to prevent loss of life and catastrophic damages; preserve the value of Federal investments, and to encourage non-Federal sponsors to bear responsibility for their own protection. Inspections should assure that Flood Damage Reduction structures and facilities are continually maintained and operated as necessary to obtain the maximum benefits. Inspections are also conducted to determine eligibility for Rehabilitation Assistance under authority of PL 84-99 for Federal and non-Federal systems. (ER 1130-2-530, ER 500-1-1)

B. **Types of Inspections:**
The Corps conducts several types of inspections of Flood Damage Reduction systems, as outlined below:

Initial Eligibility Inspections	Continuing Eligibility Inspections	
	Routine Inspections	**Periodic Inspections**
IEIs are conducted to determine whether a non-Federally constructed Flood Damage Reduction system meets the minimum criteria and standards set forth by the Corps for initial inclusion into the Rehabilitation and Inspection Program.	RIs are intended to verify proper maintenance, owner preparedness, and component operation.	PIs are intended to verify proper maintenance and component operation and to evaluate operational adequacy, structural stability, and safety of the system. Periodic Inspections evaluate the system's original design criteria vs. current design criteria to determine potential performance impacts, evaluate the current conditions, and compare the design loads and design analysis used against current design standards. This is to be done to identify components and features for the sponsor that need to be monitored more closely over time or corrected as needed. (Periodic Inspections are used as the basis of risk assessments.)

C. **Inspection Boundaries:**
Inspections should be conducted so as to rate each Flood Damage Reduction "Segment" of the system. The overall system rating will be the lowest segment rating in the system.

Project	System	Segment
A flood damage reduction project is made up of one or more flood damage reduction systems which were under the same authorization.	A flood damage reduction system is made up of one or more flood damage reduction segments which collectively provide flood damage reduction to a defined area. Failure of one segment within a system constitutes failure of the entire system. Failure of one system does not affect another system.	A flood damage reduction segment is defined as a discrete portion of a flood damage reduction system that is operated and maintained by a single entity. A flood damage reduction segment can be made up of one or more features (levee, floodwall, pump stations, etc).

D. **Land Use Definitions:**
The following three definitions are intended for use in determining minimum required inspection intervals and initial requirements for inclusion into the Rehabilitation and Inspection Program. Inspections should be considered for all systems that would result in significant environmental or economic impact upon failure regardless of specific land use.

Agricultural	Rural	Urban
Protected population in the range of zero to 5 households per square mile protected.	Protected population in the range of 6 to 20 households per square mile protected.	Greater than 20 households per square mile; major industrial areas with significant infrastructure investment. Some protected urban areas have no permanent population but may be industrial areas with high value infrastructure with no overnight population.

E. **Use of the Inspection Report Template:**
The report template is intended for use in all Army Corps of Engineers inspections of levee and floodwall systems and flood damage reduction channels. The section of the template labeled "Initial Eligibility" only needs to be completed during Initial Eligibility Inspections of Non-Federally constructed Flood Damage Reduction Systems. The section labeled "General Items" needs to be completed with every inspection, along with all other sections that correspond to features in the system. The section labeled "Public Sponsor Pre-Inspection Report" is intended for completion before the inspection, if possible.

F. **Individual Item / Component Ratings:**
Assessment of individual components rated during the inspection should be based on the criteria provided in the inspection report template, though inspectors may incorporate additional items into the report based on the characteristics of the system. The assessment of individual components should be based on the following definitions.

Acceptable Item	Minimally Acceptable Item	Unacceptable Item
The inspected item is in satisfactory condition, with no deficiencies, and will function as intended during the next flood event.	The inspected item has one or more minor deficiencies that need to be corrected. The minor deficiency or deficiencies will not seriously impair the functioning of the item as intended during the next flood event.	The inspected item has one or more serious deficiencies that need to be corrected. The serious deficiency or deficiencies will seriously impair the functioning of the item as intended during the next flood event.

G. **Overall Segment / System Ratings:**
Determination of the overall system rating is based on the definitions below. Note that an Unacceptable System Rating may be either based on an engineering determination that concluded that noted deficiencies would prevent the system from functioning as intended during the next flood event, or based on the sponsor's demonstrated lack of commitment or inability to correct serious deficiencies in a timely manner.

Acceptable System	Minimally Acceptable System	Unacceptable System
All items or components are rated as Acceptable.	One or more items are rated as Minimally Acceptable or one or more items are rated as Unacceptable and an engineering determination concludes that the Unacceptable items would not prevent the segment / system from performing as intended during the next flood event.	One or more items are rated as Unacceptable and would prevent the segment / system from performing as intended, or a serious deficiency noted in past inspections (which had previously resulted in a minimally acceptable system rating) has not been corrected within the established timeframe, not to exceed two years

H. **Eligibility for PL84-99 Rehabilitation Assistance:**
Inspected systems that are not operated and maintained by the Federal government may be Active in the Corps' Rehabilitation and Inspection Program (RIP) and eligible for rehabilitation assistance from the Corps as defined below:

If the Overall System Rating is Acceptable	If the Overall System Rating is Minimally Acceptable	If the Overall System Rating is Unacceptable
The system is active in the RIP and eligible for PL84-99 rehabilitation assistance.	The system is Active in the RIP during the time that it takes to make needed corrections. Active systems are eligible for rehabilitation assistance. However, if the sponsor does not present USACE with proof that serious deficiencies (which had previously resulted in a minimally acceptable system rating) were corrected within the established timeframe, then the system will become Inactive in the RIP.	The system is Inactive in the RIP, and the status will remain Inactive until the sponsor presents USACE with proof that all items rated Unacceptable have been corrected. Inactive systems are ineligible for rehabilitation assistance.

I. Reporting:

After the inspection, the Corps is responsible for assembling an inspection report (or a summary report if it was a Periodic Inspection) including the following information:

a. All sections of the report template used during the inspection, including the cover and pre-inspection materials. (Supplemental data collected, and any sections of the template that weren't used during the inspection do not need to be included with the report.)

b. Photos of the general system condition and noted deficiencies.

c. A plan view drawing of the system, with stationing, to reference locations of items rated less than acceptable.

d. The relative importance of the identified maintenance issues should be specified in the transmittal letter.

e. If the Overall System Rating is Minimally Acceptable, the report needs to establish a timeframe for correction of serious deficiencies noted (not to exceed two years) and indicate that if these items are not corrected within the required timeframe, the system will be rated as Unacceptable and made Inactive in the Rehabilitation Inspection Program.

J. Notification:

Reports are to be disseminated as follows within 30 days of the inspection date.

If the Overall System Rating is Acceptable	If the Overall System Rating is Minimally Acceptable	If the Overall System Rating is Unacceptable
Reports need to be provided to the local sponsor and the county emergency management agency.	Reports need to be provided to the local sponsor, state emergency management agency, county emergency management agency, and to the FEMA region.	Reports need to be provided to the local sponsor, state emergency management agency, county emergency management agency, FEMA region, and to the Congressional delegation within 30 days of the inspection.

Levee Embankments

For use during Initial and Continuing Eligibility Inspections of levee segments / systems

Rated Item	Rating	Rating Guidelines		Locations/Remarks/Recommendations
01. Unwanted Vegetation Growth[1]	**M**	A	The levee has little or no unwanted vegetation (trees, bush, or undesirable weeds), except for vegetation that is properly contained and/or situated on overbuilt sections, such that the mandatory 3-foot root-free zone is preserved around the levee profile. The levee has been recently mowed. The vegetation-free zone extends 15 feet from both the landside and riverside toes of the levee to the centerline of the tree. If the levee access easement doesn't extend to the described limits, then the vegetation-free zone must be maintained to the easement limits. Reference EM 1110-2-301 or Corps policy for regional vegetation variance.	USACE_CEMVN_LBL1_2017_a_0009: Station_1 396+69: Unwanted vegetation on the levee slope along the floodside of the wall. SLFPA-E should remove unwanted vegetation from vegetation-free zone, up to the levee ROW (ETL 1110-2-583). Remove non-compliant vegetation according to ETL 1110-2-583, fertilize, and reseed. (M) USACE_CEMVN_LBL1_2017_a_0032: Station_1 93+45: Unwanted vegetation on batture. SLFPA-E should remove unwanted vegetation from vegetation-free zone, up to the levee ROW (ETL 1110-2-583). Remove non-compliant vegetation according to ETL 1110-2-583. (M) USACE_CEMVN_LBL1_2017_a_0038: Station_1 137+29: Unwanted vegetation on floodside levee slope. SLFPA-E should remove unwanted vegetation from vegetation-free zone, up to the levee ROW (ETL 1110-2-583). Remove non-compliant vegetation according to ETL 1110-2-583. (M) USACE_CEMVN_LBL1_2017_a_0048: Station_1 209+98: Unwanted vegetation at floodside toe. SLFPA-E should remove unwanted vegetation from vegetation-free zone, up to the levee ROW (ETL 1110-2-583). Remove non-compliant vegetation according to ETL 1110-2-583. (M) USACE_CEMVN_LBL1_2017_a_0066: Station_1 705+81: Unwanted vegetation along the floodside of the wall. Point could not be verified due to limited access because of saturated ground conditions. SLFPA-E should remove unwanted vegetation from vegetation-free zone, up to the levee ROW (ETL 1110-2-583). Remove non-compliant vegetation according to ETL 1110-2-583, fertilize, and reseed. (M)
		M	Minimal vegetation growth (brush, weeds, or trees 2 inches in diameter or smaller) is present within the zones described above. This vegetation must be removed but does not currently threaten the operation or integrity of the levee.	
		U	Significant vegetation growth (brush, weeds, or any trees greater than 2 inches in diameter) is present within the zones described above and must to be removed to reestablish or ascertain levee integrity.	
02. Sod Cover	**A**	A	There is good coverage of sod over the levee.	
		M	Approximately 25% of the sod cover is missing or damaged over a significant portion or over significant portions of the levee embankment. This may be the result of over-grazing	

Key: A = Acceptable. M = Minimally Acceptable; Maintenance is required. U = Unacceptable. N/A = Not Applicable. FDR = Flood Damage Reduction

Levee Embankments

For use during Initial and Continuing Eligibility Inspections of levee segments / systems

Rated Item	Rating	Rating Guidelines		Locations/Remarks/Recommendations
			or feeding on the levee, unauthorized vehicular traffic, chemical or insect problems, or burning during inappropriate seasons.	
		U	Over 50% of the sod cover is missing or damaged over a significant portion or portions of the levee embankment.	
		N/A	Surface protection is provided by other means.	
03. Encroachments	**M**	A	No trash, debris, unauthorized farming activity, structures, excavations, or other obstructions present within the easement area. Encroachments have been previously reviewed by the Corps, and it was determined that they do not diminish proper functioning of the levee.	USACE_CEMVN_LBL1_2017_a_0030: Station_1 84+39: Debris on floodside levee toe. SLFPA-E is responsible for clearing all obstructions from within the levee ROW. (M) USACE_CEMVN_LBL1_2017_a_0051: Station_1 218+93: Stockpile higher than levee crown. SLFPA-E is responsible for notifying the permit holder to maintain stockpile in accordance with their permit. (M)
		M	Trash, debris, unauthorized farming activity, structures, excavations, or other obstructions present, or inappropriate activities noted that should be corrected but will not inhibit operations and maintenance or emergency operations. Encroachments have not been reviewed by the Corps.	
		U	Unauthorized encroachments or inappropriate activities noted are likely to inhibit operations and maintenance, emergency operations, or negatively impact the integrity of the levee.	
04. Closure Structures (Stop Log, Earthen Closures, Gates, or Sandbag Closures) (A or U only)	**NA**	A	Closure structure in good repair. Placing equipment, stoplogs, and other materials are readily available at all times. Components are clearly marked and installation instructions/ procedures readily available. Trial erections have been accomplished in accordance with the O&M Manual.	
		U	Any of the following issues is cause for this rating: Closure structure in poor condition. Parts missing or corroded. Placing equipment may not be available within the anticipated warning time. The storage vaults cannot be opened during the time of inspection. Components of closure are not clearly marked and installation instructions/ procedures are not readily available. Trial erections have not been accomplished in accordance with the O&M Manual.	
		N/A	There are no closure structures along this component of the FDR system.	
05. Slope Stability	**A**	A	No slides, sloughs, tension cracking, slope depressions, or bulges are present.	
		M	Minor slope stability problems that do not pose an immediate threat to the levee embankment.	
		U	Major slope stability problems (ex. deep seated sliding) identified that must be repaired to reestablish the integrity of the levee embankment.	

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Levee Embankments

For use during Initial and Continuing Eligibility Inspections of levee segments / systems

Rated Item	Rating	Rating Guidelines		Locations/Remarks/Recommendations
06. Erosion/ Bank Caving	**M**	A	No erosion or bank caving is observed on the landward or riverward sides of the levee that might endanger its stability.	USACE_CEMVN_LBL1_2017_a_0008: Station_1 1032+62: Erosion along floodside levee slope. SLFPA-E shall repair eroded areas with compacted clay fill. The areas shall then be fertilized and seeded. (M)
		M	There are areas where minor erosion is occurring or has occurred on or near the levee embankment, but levee integrity is not threatened.	
		U	Erosion or caving is occurring or has occurred that threatens the stability and integrity of the levee. The erosion or caving has progressed into the levee section or into the extended footprint of the levee foundation and has compromised the levee foundation stability.	
07. Settlement[2]	**A**	A	No observed depressions in crown. Records exist and indicate no unexplained historical changes.	
		M	Minor irregularities that do not threaten integrity of levee. Records are incomplete or inclusive.	
		U	Obvious variations in elevation over significant reaches. No records exist or records indicate that design elevation is compromised.	
08. Depressions/ Rutting	**M**	A	There are scattered, shallow ruts, pot holes, or other depressions on the levee that are unrelated to levee settlement. The levee crown, embankments, and access road crowns are well established and drain properly without any ponded water.	USACE_CEMVN_LBL1_2017_a_0041: Station_1 174+48: Standing water on floodside levee toe. SLFPA-E should ensure proper drainage in these locations during low water conditions. (M) USACE_CEMVN_LBL1_2017_a_0044: Station_1 188+16: Standing water on floodside levee toe. SLFPA-E should ensure proper drainage in these locations during low water conditions. (M) USACE_CEMVN_LBL1_2017_a_0049: Station_1 199+11: Station_2 214+15: Standing water on floodside levee toe. SLFPA-E should ensure proper drainage in these locations during low water conditions. (M) USACE_CEMVN_LBL1_2017_a_0059: Station_1 581+58: Depression on landside levee berm. SLFPA-E should repair depressed or rutted areas with compacted clay fill. The areas should then be fertilized and seeded. (M) USACE_CEMVN_LBL1_2017_a_0067: Station_1 395+25: Station_2 705+00: Untravelable condition on floodside levee from Bayou Bievenue to Bayou Dupre due to ground saturated. Last year points from Bayou Bievenue to Bayou Dupre could not be verify due to these condition. (M)
		M	There are some infrequent minor depressions less than 6 inches deep in the levee crown, embankment, or access roads that will pond water.	
		U	There are depressions greater than 6 inches deep that will pond water.	

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Levee Embankments

For use during Initial and Continuing Eligibility Inspections of levee segments / systems

Rated Item	Rating	Rating Guidelines		Locations/Remarks/Recommendations
09. Cracking	**A**	A	Minor longitudinal, transverse, or desiccation cracks with no vertical movement along the crack. No cracks extend continuously through the levee crest.	
		M	Longitudinal and/or transverse cracks up to 6 inches in depth with no vertical movement along the crack. No cracks extend continuously through the levee crest. Longitudinal cracks are no longer than the height of the levee.	
		U	Cracks exceed 6 inches in depth. Longitudinal cracks are longer than the height of the levee and/or exhibit vertical movement along the crack. Transverse cracks extend through the entire levee width.	
10. Animal Control	**M**	A	Continuous animal burrow control program in place that includes the elimination of active burrowing and the filling in of existing burrows.	USACE_CEMVN_LBL1_2017_a_0005: Station_1 719+11: Animal burrow on floodside of wall. SLFPA-E should inspect and repair burrows or damaged areas with compacted clay fill. The areas should then be fertilized and seeded. (M) USACE_CEMVN_LBL1_2017_a_0006: Station_1 719+86: Station_2 1019+31: Hog damage on floodside levee slope and toe. SLFPA-E should inspect and repair burrows or damaged areas with compacted clay fill. The areas should then be fertilized and seeded. (M) USACE_CEMVN_LBL1_2017_a_0012: Station_1 1197+40: Station_2 1537+97: Hog damage on floodside levee slope and at base of floodwall. SLFPA-E should inspect and repair burrows or damaged areas with compacted clay fill. The areas should then be fertilized and seeded. (M) USACE_CEMVN_LBL1_2017_a_0062: Station_1 395+20: Station_2 395+77: Hog damage on landside levee slope and toe. SLFPA-E should inspect and repair burrows or damaged areas with compacted clay fill. The areas should then be fertilized and seeded. (M) USACE_CEMVN_LBL1_2017_a_0065: Station_1 9+61: Station_2 9+71: Hog damage on floodside levee slope and toe. SLFPA-E should inspect and repair burrows or damaged areas with compacted clay fill. The areas should then be fertilized and seeded. (M)
		M	The existing animal burrow control program needs to be improved. Several burrows are present which may lead to seepage or slope stability problems, and they require immediate attention.	
		U	Animal burrow control program is not effective or is nonexistent. Significant maintenance is required to fill existing burrows, and the levee will not provide reliable flood protection until this maintenance is complete.	

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For use during Initial and Continuing Eligibility Inspections of levee segments / systems

Rated Item	Rating	Rating Guidelines		Locations/Remarks/Recommendations
				USACE_CEMVN_LBL1_2017_a_0073: Station_1 1123+50: Animal burrow located adjacent to roller gate storage monolith base slab SLFPA-E should inspect and repair burrows or damaged areas with compacted clay fill. The areas should then be fertilized and seeded. (M)
11. Culverts/ Discharge Pipes (This item includes both concrete and corrugated metal pipes.)[3]	**NA**	A	There are no breaks, holes, cracks in the discharge pipes/ culverts that would result in significant water leakage. The pipe shape is still essentially circular. All joints appear to be closed and the soil tight. Corrugated metal pipes, if present, are in good condition with 100% of the original coating still in place (either asphalt or galvanizing) or have been relined with appropriate material, which is still in good condition. Condition of pipes has been verified using television camera video taping or visual inspection methods within the past five years, and the report for every pipe is available for review by the inspector.	
		M	There are a small number of corrosion pinholes or cracks that could leak water and need to be repaired, but the entire length of pipe is still structurally sound and is not in danger of collapsing. Pipe shape may be ovalized in some locations but does not appear to be approaching a curvature reversal. A limited number of joints may have opened and soil loss may be beginning. Any open joints should be repaired prior to the next inspection. Corrugated metal pipes, if present, may be showing corrosion and pinholes but there are no areas with total section loss. Condition of pipes has been verified using television camera video taping or visual inspection methods within the past five years, and the report for every pipe is available for review by the inspector.	
		U	Culvert has deterioration and/or has significant leakage; it is in danger of collapsing or as already begun to collapse. Corrugated metal pipes have suffered 100% section loss in the invert. HOWEVER: Even if pipes appear to be in good condition, as judged by an external visual inspection, an Unacceptable Rating will be assigned if the condition of pipes has not been verified using television camera video taping or visual inspection methods within the past five years, and reports for all pipes are not available for review by the inspector.	
		N/A	There are no discharge pipes/ culverts.	
12. Riprap Revetments & Bank Protection	**M**	A	No riprap displacement or stone degradation that could pose an immediate threat to the integrity of channel bank. Riprap intact with no woody vegetation present.	USACE_CEMVN_LBL1_2017_a_0004: Station_1 702+35: Unwanted vegetation in riprap on landside at Bayou Dupre Structure. SLFPA-E should remove unwanted vegetation from vegetation-free zone, up to the levee ROW (ETL 1110-2-583). (M)
		M	Minor riprap displacement or stone degradation that could pose an immediate threat to the integrity of the channel bank. Unwanted vegetation must be cleared or sprayed with an appropriate herbicide.	
		U	Significant riprap displacement, exposure of bedding, or stone degradation observed. Scour activity is undercutting banks, eroding embankments, or impairing channel flows	

Key: A = Acceptable. M = Minimally Acceptable; Maintenance is required. U = Unacceptable. N/A = Not Applicable. FDR = Flood Damage Reduction

Levee Embankments

For use during Initial and Continuing Eligibility Inspections of levee segments / systems

Rated Item	Rating	Rating Guidelines		Locations/Remarks/Recommendations
			by causing turbulence or shoaling. Rock protection is hidden by dense brush, trees, or grasses.	
		N/A	There is no riprap protecting this feature of the system, or riprap is discussed in another section.	
13. Revetments other than Riprap	**M**	A	Existing revetment protection is properly maintained, undamaged, and clearly visible.	USACE_CEMVN_LBL1_2017_a_0015: Station_1 14+25: Cracked slope pavement. SLFPA-E will provide permanent repairs. (M) USACE_CEMVN_LBL1_2017_a_0016: Station_1 20+38: Cracked slope pavement. SLFPA-E will provide permanent repairs. (M) USACE_CEMVN_LBL1_2017_a_0018: Station_1 21+44: Temporary repair of a hole in slope pavement. SLFPA-E will provide permanent repairs. (M) USACE_CEMVN_LBL1_2017_a_0022: Station_1 38+87: Lack of scour protection on landside slope pavement. SLFPA-E will provide permanent repairs. (M) USACE_CEMVN_LBL1_2017_a_0029: Station_1 82+07: Temporary riprap repair on floodside slope pavement. SLFPA-E will provide permanent repairs. (M) USACE_CEMVN_LBL1_2017_a_0031: Station_1 92+94: Temporary riprap repair of slope pavement. SLFPA-E will provide permanent repairs. (M) USACE_CEMVN_LBL1_2017_a_0036: Station_1 122+92: Cracked slope pavement. SLFPA-E will provide permanent repairs. (M) USACE_CEMVN_LBL1_2017_a_0037: Station_1 131+54: Temporary riprap repair on floodside slope pavement. SLFPA-E will provide permanent repairs. (M) USACE_CEMVN_LBL1_2017_a_0040: Station_1 171+46: Temporary riprap repair on floodside slope pavement. SLFPA-E will provide permanent repairs. (M) USACE_CEMVN_LBL1_2017_a_0045: Station_1 192+40: Broken riprap on floodside slope pavement. SLFPA-E will provide permanent repairs. (M)
		M	Minor revetment displacement or deterioration that does not pose an immediate threat to the integrity of the levee. Unwanted vegetation must be cleared or sprayed with an appropriate herbicide.	
		U	Significant revetment displacement, deterioration, or exposure of bedding observed. Scour activity is undercutting banks, eroding embankments, or impairing channel flows by causing turbulence or shoaling. Revetment protection is hidden by dense brush and trees.	
		N/A	There are no such revetments protecting this feature of the system.	

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Levee Embankments

For use during Initial and Continuing Eligibility Inspections of levee segments / systems

Rated Item	Rating	Rating Guidelines		Locations/Remarks/Recommendations
				USACE_CEMVN_LBL1_2017_a_0046: Station_1 196+21: Temporary riprap on floodside slope pavement. SLFPA-E will provide permanent repair. (M) USACE_CEMVN_LBL1_2017_a_0047: Station_1 197+94: Temporary riprap repair on floodside slope pavement. SLFPA-E will provide permanent repairs. (M)
14. Underseepage Relief Wells/ Toe Drainage Systems	**NA**	A	Toe drainage systems and pressure relief wells necessary for maintaining FDR system stability during high water functioned properly during the last flood event and no sediment is observed in horizontal system (if applicable). Nothing is observed which would indicate that the drainage systems won't function properly during the next flood, and maintenance records indicate regular cleaning. Wells have been pumped tested within the past 5 years and documentation is provided.	
		M	Toe drainage systems or pressure relief wells are damaged and may become clogged if they are not repaired. Maintenance records are incomplete or indicate irregular cleaning and pump testing.	
		U	Toe drainage systems or pressure relief wells necessary for maintaining FDR system stability during flood events have fallen into disrepair or have become clogged. No maintenance records. No documentation of the required pump testing.	
		N/A	There are no relief wells/ toe drainage systems along this component of the FDR system.	
15. Seepage	**M**	A	No evidence or history of unrepaired seepage, saturated areas, or boils.	USACE_CEMVN_LBL1_2017_a_0020: Station_1 36+59: Seepage noted in this location during the 2015 flood fight. SLFPA-E shall monitor area of historic seepage. (M) USACE_CEMVN_LBL1_2017_a_0021: Station_1 38+43: Seepage noted in this location during the 2015 flood fight. SLFPA-E shall monitor area of historic seepage. (M) USACE_CEMVN_LBL1_2017_a_0034: Station_1 111+59: Seepage noted in this location during the 2015 flood fight. SLFPA-E shall monitor area of historic seepage. (M) USACE_CEMVN_LBL1_2017_a_0035: Station_1 112+66: Seepage noted in this location during the 2015 flood fight. SLFPA-E shall monitor area of historic seepage. (M)
		M	Evidence or history of minor unrepaired seepage or small saturated areas at or beyond the landside toe but not on the landward slope of levee. No evidence of soil transport.	
		U	Evidence or history of active seepage, extensive saturated areas, or boils.	

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Levee Embankments

For use during Initial and Continuing Eligibility Inspections of levee segments / systems

Rated Item	Rating	Rating Guidelines		Locations/Remarks/Recommendations
				USACE_CEMVN_LBL1_2017_a_0043: Station_1 186+48: Seepage noted in this location during the 2015 flood fight. SLFPA-E shall monitor area of historic seepage. (M) USACE_CEMVN_LBL1_2017_a_0052: Station_1 290+86: Seepage noted in this location during the 2015 flood fight. SLFPA-E shall monitor area of historic seepage. (M) USACE_CEMVN_LBL1_2017_a_0053: Station_1 319+27: Seepage noted in this location during the 2015 flood fight. SLFPA-E shall monitor area of historic seepage. (M) USACE_CEMVN_LBL1_2017_a_0055: Station_1 413+12: Seepage noted in this location during the 2015 flood fight. SLFPA-E shall monitor area of historic seepage. (M) USACE_CEMVN_LBL1_2017_a_0056: Station_1 441+94: Seepage noted in this location during the 2015 flood fight. SLFPA-E shall monitor area of historic seepage. (M) USACE_CEMVN_LBL1_2017_a_0057: Station_1 544+41: Seepage noted in this location during the 2015 flood fight. SLFPA-E shall monitor area of historic seepage. (M) USACE_CEMVN_LBL1_2017_a_2000: Station_1 90+81: Seepage noted in this location during the 2016 flood fight. SLFPA-E shall monitor area of historic seepage. (M) USACE_CEMVN_LBL1_2017_a_2002: Station_1 90+75: Seepage at landside levee toe by the Chalmette Battlefield. Seepage was noted in this location during the 2016 flood fight. SLFPA-E shall monitor area of historic seepage. (M) USACE_CEMVN_LBL1_2017_a_2003: Station_1 37+49: Seepage at the landside levee toe in the Domino Sugar facility. Clear with no flow. Seepage was noted in this

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Levee Embankments

For use during Initial and Continuing Eligibility Inspections of levee segments / systems

Rated Item	Rating	Rating Guidelines		Locations/Remarks/Recommendations
				location during the 2016 flood fight. SLFPA-E shall monitor area of historic seepage. (M) USACE_CEMVN_LBL1_2017_a_2004: Station_1 335+21: Historical drainage issue next to rail road tracks. Will continue to monitor toe of levee for any movement of material. Continue to monitor for change in rate of flow, movement of material or cloudiness. Seepage was noted in this location during the 2016 flood fight. SLFPA-E shall monitor area of historic seepage. (M) USACE_CEMVN_LBL1_2017_a_2005: Station_1 413+11: Seepage observed along railroad tracks. Seepage was noted in this location during the 2016 flood fight. SLFPA-E shall monitor area of historic seepage. (M)

[1] If there is significant growth on the levee that inhibits the inspection of animal burrows or other items, the inspection should be ended until this item is corrected.

[2] Detailed survey elevations are normally required during Periodic Inspections, and whenever there are obvious visual settlements.

[3] The decision on whether or not USACE inspectors should enter a pipe to perform a detailed inspection must be made at the USACE District level. This decision should be made in conjunction with the District Safety Office, as pipes may be considered confined spaces. This decision should record observations with a video camera in order that the condition of the entire pipe, including all joints can later be assessed. Additionally, the video record provides a baseline to which future inspections can be compared.

Levee Embankments

For use during Initial and Continuing Eligibility Inspections of levee segments / systems

Inspect ID: USACE_CEMVN_LBL1_2017_a_0009
Title: RIMG0041
Rated Item: 01. Unwanted Vegetation Growth
Rating: M
Inspection Remarks: Unwanted vegetation on the levee slope along the floodside of the wall.
Recommended Action: SLFPA-E should remove unwanted vegetation from vegetation-free zone, up to the levee ROW (ETL 1110-2-583). Remove non-compliant vegetation according to ETL 1110-2-583, fertilize, and reseed.
Caption:
Station 1: 396+69 (CLP)

Inspect ID: USACE_CEMVN_LBL1_2017_a_0032
Title: USACE_CEMVN_LBL1_2017_a_0032_1.jpg
Rated Item: 01. Unwanted Vegetation Growth
Rating: M
Inspection Remarks: Unwanted vegetation on batture.
Recommended Action: SLFPA-E should remove unwanted vegetation from vegetation-free zone, up to the levee ROW (ETL 1110-2-583). Remove non-compliant vegetation according to ETL 1110-2-583.
Caption:
Station 1: 93+45 (LBLD)

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Levee Embankments

For use during Initial and Continuing Eligibility Inspections of levee segments / systems

Inspect ID: USACE_CEMVN_LBL1_2017_a_0038
Title: USACE_CEMVN_LBL1_2017_a_0038_1.jpg
Rated Item: 01. Unwanted Vegetation Growth
Rating: M
Inspection Remarks: Unwanted vegetation on floodside levee slope.
Recommended Action: SLFPA-E should remove unwanted vegetation from vegetation-free zone, up to the levee ROW (ETL 1110-2-583). Remove non-compliant vegetation according to ETL 1110-2-583.
Caption:
Station 1: 137+29 (LBLD)

Inspect ID: USACE_CEMVN_LBL1_2017_a_0048
Title: USACE_CEMVN_LBL1_2017_a_0048_1.jpg
Rated Item: 01. Unwanted Vegetation Growth
Rating: M
Inspection Remarks: Unwanted vegetation at floodside toe.
Recommended Action: SLFPA-E should remove unwanted vegetation from vegetation-free zone, up to the levee ROW (ETL 1110-2-583). Remove non-compliant vegetation according to ETL 1110-2-583.
Caption:
Station 1: 209+98 (LBLD)

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Levee Embankments

For use during Initial and Continuing Eligibility Inspections of levee segments / systems

Inspect ID: USACE_CEMVN_LBL1_2017_a_0066
Title: RIMG0050
Rated Item: 01. Unwanted Vegetation Growth
Rating: M
Inspection Remarks: Unwanted vegetation along the floodside of the wall. Point could not be verified due to limited access because of saturated ground conditions.
Recommended Action: SLFPA-E should remove unwanted vegetation from vegetation-free zone, up to the levee ROW (ETL 1110-2-583). Remove non-compliant vegetation according to ETL 1110-2-583, fertilize, and reseed.
Caption:
Station 1: 705+81 (CLP)

Inspect ID: USACE_CEMVN_LBL1_2017_a_0030
Title: USACE_CEMVN_LBL1_2017_a_0030_1.jpg
Rated Item: 03. Encroachments
Rating: M
Inspection Remarks: Debris on floodside levee toe.
Recommended Action: SLFPA-E is responsible for clearing all obstructions from within the levee ROW.
Caption:
Station 1: 84+39 (LBLD)

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Levee Embankments

For use during Initial and Continuing Eligibility Inspections of levee segments / systems

Inspect ID: USACE_CEMVN_LBL1_2017_a_0051
Title: USACE_CEMVN_LBL1_2017_a_0051_1.jpg
Rated Item: 03. Encroachments
Rating: M
Inspection Remarks: Stockpile higher than levee crown.
Recommended Action: SLFPA-E is responsible for notifying the permit holder to maintain stockpile in accordance with their permit.
Caption:
Station 1: 218+93 (LBLD)

Inspect ID: USACE_CEMVN_LBL1_2017_a_0008
Title: USACE_CEMVN_LBL1_2017_a_0008_1.jpg
Rated Item: 06. Erosion/ Bank Caving
Rating: M
Inspection Remarks: Erosion along floodside levee slope.
Recommended Action: SLFPA-E shall repair eroded areas with compacted clay fill. The areas shall then be fertilized and seeded.
Caption:
Station 1: 1032+62 (CLP)

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Levee Embankments

For use during Initial and Continuing Eligibility Inspections of levee segments / systems

Inspect ID: USACE_CEMVN_LBL1_2017_a_0041
Title: USACE_CEMVN_LBL1_2017_a_0041_1.jpg
Rated Item: 08. Depressions/ Rutting
Rating: M
Inspection Remarks: Standing water on floodside levee toe.
Recommended Action: SLFPA-E should ensure proper drainage in these locations during low water conditions.
Caption:
Station 1: 174+48 (LBLD)

Inspect ID: USACE_CEMVN_LBL1_2017_a_0044
Title: USACE_CEMVN_LBL1_2017_a_0044_1.jpg
Rated Item: 08. Depressions/ Rutting
Rating: M
Inspection Remarks: Standing water on floodside levee toe.
Recommended Action: SLFPA-E should ensure proper drainage in these locations during low water conditions.
Caption:
Station 1: 188+16 (LBLD)

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Levee Embankments

For use during Initial and Continuing Eligibility Inspections of levee segments / systems

Inspect ID: USACE_CEMVN_LBL1_2017_a_0049
Title: USACE_CEMVN_LBL1_2017_a_0049_1.jpg
Rated Item: 08. Depressions/ Rutting
Rating: M
Inspection Remarks: Standing water on floodside levee toe.
Recommended Action: SLFPA-E should ensure proper drainage in these locations during low water conditions.
Caption:
Station 1: 199+11 (LBLD)
Station 2: 214+15 (LBLD)

Inspect ID: USACE_CEMVN_LBL1_2017_a_0059
Title: USACE_CEMVN_LBL1_2017_a_0059_1.jpg
Rated Item: 08. Depressions/ Rutting
Rating: M
Inspection Remarks: Depression on landside levee berm.
Recommended Action: SLFPA-E should repair depressed or rutted areas with compacted clay fill. The areas should then be fertilized and seeded.
Caption:
Station 1: 581+58 (LBLD)

Levee Embankments

For use during Initial and Continuing Eligibility Inspections of levee segments / systems

Inspect ID: USACE_CEMVN_LBL1_2017_a_0067
Title: USACE_CEMVN_LBL1_2017_a_0067_1.jpg
Rated Item: 08. Depressions/ Rutting
Rating: M
Inspection Remarks: Untravelable condition on floodside levee from Bayou Bievenue to Bayou Dupre due to ground saturated.
Recommended Action: Last year points from Bayou Bievenue to Bayou Dupre could not be verify due to these condition.
Caption:
Station 1: 395+25 (CLP)
Station 2: 705+00 (CLP)

Inspect ID: USACE_CEMVN_LBL1_2017_a_0005
Title: USACE_CEMVN_LBL1_2017_a_0005_1.jpg
Rated Item: 10. Animal Control
Rating: M
Inspection Remarks: Animal burrow on floodside of wall.
Recommended Action: SLFPA-E should inspect and repair burrows or damaged areas with compacted clay fill. The areas should then be fertilized and seeded.
Caption:
Station 1: 719+11 (CLP)

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Levee Embankments

For use during Initial and Continuing Eligibility Inspections of levee segments / systems

Inspect ID: USACE_CEMVN_LBL1_2017_a_0062
Title: USACE_CEMVN_LBL1_2017_a_0062_1.jpg
Rated Item: 10. Animal Control
Rating: M
Inspection Remarks: Hog damage on landside levee slope and toe.
Recommended Action: SLFPA-E should inspect and repair burrows or damaged areas with compacted clay fill. The areas should then be fertilized and seeded.
Caption:
Station 1: 395+20 (CLCB)
Station 2: 395+77 (CLCB)

Inspect ID: USACE_CEMVN_LBL1_2017_a_0073
Title: USACE_CEMVN_LBL1_2017_a_0073_1.jpg
Rated Item: 10. Animal Control
Rating: M
Inspection Remarks: Animal burrow located adjacent to roller gate storage monolith base slab
Recommended Action: SLFPA-E should inspect and repair burrows or damaged areas with compacted clay fill. The areas should then be fertilized and seeded.
Caption:
Station 1: 1123+50 (CLP)

Levee Embankments

For use during Initial and Continuing Eligibility Inspections of levee segments / systems

Inspect ID: USACE_CEMVN_LBL1_2017_a_0004
Title: USACE_CEMVN_LBL1_2017_a_0004_1.jpg
Rated Item: 12. Riprap Revetments & Bank Protection
Rating: M
Inspection Remarks: Unwanted vegetation in riprap on landside at Bayou Dupre Structure.
Recommended Action: SLFPA-E should remove unwanted vegetation from vegetation-free zone, up to the levee ROW (ETL 1110-2-583).
Caption:
Station 1: 702+35 (CLP)

Inspect ID: USACE_CEMVN_LBL1_2017_a_0022
Title: USACE_CEMVN_LBL1_2017_a_0022_1.jpg
Rated Item: 13. Revetments other than Riprap
Rating: M
Inspection Remarks: Lack of scour protection on landside slope pavement.
Recommended Action: SLFPA-E will provide permanent repairs.
Caption:
Station 1: 38+87 (LBLD)

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Levee Embankments

For use during Initial and Continuing Eligibility Inspections of levee segments / systems

Inspect ID: USACE_CEMVN_LBL1_2017_a_0029
Title: USACE_CEMVN_LBL1_2017_a_0029_1.jpg
Rated Item: 13. Revetments other than Riprap
Rating: M
Inspection Remarks: Temporary riprap repair on floodside slope pavement.
Recommended Action: SLFPA-E will provide permanent repairs.
Caption:
Station 1: 82+07 (LBLD)

Inspect ID: USACE_CEMVN_LBL1_2017_a_0031
Title: USACE_CEMVN_LBL1_2017_a_0031_1.jpg
Rated Item: 13. Revetments other than Riprap
Rating: M
Inspection Remarks: Temporary riprap repair of slope pavement.
Recommended Action: SLFPA-E will provide permanent repairs.
Caption:
Station 1: 92+94 (LBLD)

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Levee Embankments

For use during Initial and Continuing Eligibility Inspections of levee segments / systems

Inspect ID: USACE_CEMVN_LBL1_2017_a_0037
Title: USACE_CEMVN_LBL1_2017_a_0037_1.jpg
Rated Item: 13. Revetments other than Riprap
Rating: M
Inspection Remarks: Temporary riprap repair on floodside slope pavement.
Recommended Action: SLFPA-E will provide permanent repairs.
Caption:
Station 1: 131+54 (LBLD)

Inspect ID: USACE_CEMVN_LBL1_2017_a_0040
Title: USACE_CEMVN_LBL1_2017_a_0040_1.jpg
Rated Item: 13. Revetments other than Riprap
Rating: M
Inspection Remarks: Temporary riprap repair on floodside slope pavement.
Recommended Action: SLFPA-E will provide permanent repairs.
Caption:
Station 1: 171+46 (LBLD)

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Levee Embankments

For use during Initial and Continuing Eligibility Inspections of levee segments / systems

Inspect ID: USACE_CEMVN_LBL1_2017_a_0045
Title: USACE_CEMVN_LBL1_2017_a_0045_1.jpg
Rated Item: 13. Revetments other than Riprap
Rating: M
Inspection Remarks: Broken riprap on floodside slope pavement.
Recommended Action: SLFPA-E will provide permanent repairs.
Caption:
Station 1: 192+40 (LBLD)

Inspect ID: USACE_CEMVN_LBL1_2017_a_0046
Title: photo
Rated Item: 13. Revetments other than Riprap
Rating: M
Inspection Remarks: Temporary riprap on floodside slope pavement.
Recommended Action: SLFPA-E will provide permanent repair.
Caption:
Station 1: 196+21 (LBLD)

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Levee Embankments

For use during Initial and Continuing Eligibility Inspections of levee segments / systems

Inspect ID: USACE_CEMVN_LBL1_2017_a_0047
Title: USACE_CEMVN_LBL1_2017_a_0047_1.jpg
Rated Item: 13. Revetments other than Riprap
Rating: M
Inspection Remarks: Temporary riprap repair on floodside slope pavement.
Recommended Action: SLFPA-E will provide permanent repairs.
Caption:
Station 1: 197+94 (LBLD)

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Floodwalls

For use during Initial and Continuing Eligibility Inspections of levee segments / systems

Rated Item	Rating	Rating Guidelines		Locations/Remarks/Recommendations
01. Unwanted Vegetation Growth[1]	**A**	A	A grass-only or paved zone is maintained on both sides of the floodwall, free of all trees, brush, and undesirable weeds. The vegetation-free zone extends 15 feet from both the land and riverside of the floodwall, at ground-level, to the centerline of the tree. Additionally, an 8-foot root-free zone is maintained around the entire structure, including the floodwall toe, heel, and any toe-drains. If the floodwall access easement doesn't extend to the described limits, then the vegetation-free zone must be maintained to the easement limits. Reference EM 1110-2-301 and/or Corps policy for regional vegetation variance.	
		M	Minimal vegetation growth (brush, weeds, or trees 2 inches in diameter or smaller) is present within the zones described above. This vegetation must be removed but does not currently threaten the operation or integrity of the floodwall.	
		U	Significant vegetation growth (brush, weeds, or any trees greater than 2 inches in diameter) is present within the zones described above. This vegetation threatens the operation or integrity of the floodwall and must be removed.	
02. Encroachments	**A**	A	No trash, debris, unauthorized structures, excavations, or other obstructions present within the easement area. Encroachments have been previously reviewed by the Corps, and it was determined that they do not diminish proper functioning of the floodwall.	
		M	Trash, debris, unauthorized structures, excavations, or other obstructions present, or inappropriate activities noted that should be corrected but will not inhibit operations and maintenance or emergency operations. Encroachments have not been reviewed by the Corps.	
		U	Unauthorized encroachments or inappropriate activities noted are likely to inhibit operations and maintenance, emergency operations, or negatively impact the integrity of the floodwall.	
03. Closure Structures (Stop Log Closures and Gates) (A or U only)	**A**	A	Closure structure in good repair. Placing equipment, stoplogs, and other materials are readily available at all times. Components are clearly marked and installation instructions/ procedures readily available. Trial erections have been accomplished in accordance with the O&M Manual.	USACE_CEMVN_LBL1_2017_a_0017: Station_1 17+64: Bolts thread in concrete on floodgate are corroded. SLFPA-E shall preform the required maintenance in removing corrosion and lubricating threads as needed. (A) USACE_CEMVN_LBL1_2017_a_0024: Station_1 52+92: Paint peeling on gate. SLFPA-E should remove unbonded paint and repaint. (A) USACE_CEMVN_LBL1_2017_a_0064: Station_1 708+27: At Bayou Dupre Sector Gate transverse cracking every 5' across top of gate bay monolith stem (both gates). SLFPA-E will continue monitor crack. (A) USACE_CEMVN_LBL1_2017_a_0070: Station_1 1578+94: Spalling at top of floodwall between gates
		U	Any of the following issues is cause for this rating: Closure structure in poor condition. Parts missing or corroded. Placing equipment may not be available within the anticipated warning time. The storage vaults cannot be opened during the time of inspection. Components of closure are not clearly marked and installation instructions/ procedures are not readily available. Trial erections have not been accomplished in accordance with the O&M Manual.	
		N/A	There are no closure structures along this component of the FDR system.	

Key: A = Acceptable. M = Minimally Acceptable; Maintenance is required. U = Unacceptable. N/A = Not Applicable. FDR = Flood Damage Reduction

Floodwalls

For use during Initial and Continuing Eligibility Inspections of levee segments / systems

Rated Item	Rating	Rating Guidelines		Locations/Remarks/Recommendations
				at Highway 39 near Caernavon FWDS. SLFPA-E should monitor concrete cracking/degredation and make corrective actions as required. (A) USACE_CEMVN_LBL1_2017_a_0072: Station_1 1123+84: Locks on security gates at Highway 300 have been removed from several access ladders . SLFPA-E has indicated this is a persistent problem as locks are routinely replaced. (A)
04. Concrete Surfaces	**M**	A	Negligible spalling, scaling or cracking. If the concrete surface is weathered or holds moisture, it is still satisfactory but should be seal coated to prevent freeze/ thaw damage.	USACE_CEMVN_LBL1_2017_a_0003: Station_1 589+11: Spalling on top of floodwall on landside due to lightning strike. SLFPA-E shall monitor concrete cracking/ degradation and make corrective actions as required. (M) USACE_CEMVN_LBL1_2017_a_0010: Station_1 1098+45: Minor spalling on floodside of floodwall. SLFPA-E should monitor concrete cracking/degredation and make corrective actions as required. (M) USACE_CEMVN_LBL1_2017_a_0013: Station_1 1261+58: Spalling on top of floodwall on floodside due to lightning strike. SLFPA-E should monitor concrete cracking/degredation and make corrective actions as required. (M) USACE_CEMVN_LBL1_2017_a_0063: Station_1 1261+71: Spalling on top of floodwall landside due to lightning strike. SLFPA-E shall monitor concrete cracking/ degradation and make corrective actions as required. (M) USACE_CEMVN_LBL1_2017_a_0069: Station_1 1578+32: Spalling on landside floodwall at fence on Highway 39 near Caernavon FWDS. SLFPA-E shall monitor concrete cracking/degradation and make corrective actions as required. (M)
		M	Spalling, scaling, and open cracking present, but the immediate integrity or performance of the structure is not threatened. Reinforcing steel may be exposed. Repairs/ sealing is necessary to prevent additional damage during periods of thawing and freezing.	
		U	Surface deterioration or deep cracks present that may result in an unreliable structure. Any surface deterioration that exposes the sheet piling or lies adjacent to monolith joints may indicate underlying reinforcement corrosion and is unacceptable.	

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Floodwalls

For use during Initial and Continuing Eligibility Inspections of levee segments / systems

Rated Item	Rating	Rating Guidelines		Locations/Remarks/Recommendations
				USACE_CEMVN_LBL1_2017_a_0071: Station_1 1579+16: Spalling of concrete at railroad gate tracks adjacent to Highway 39 near Caernarvon FWDS. SLFPA-E shall monitor concrete cracking/degradation and make corrective actions as required. (M) USACE_CEMVN_LBL1_2017_a_0074: Station_1 689+91: Spalling near the top of floodwall on floodside. SLFPA-E should monitor concrete spall and make corrective actions as required. (M) USACE_CEMVN_LBL1_2017_a_0075: Station_1 562+11: Spalling at the top of floodwall on floodside. Point could not be verified due to limited access because of saturated ground conditions. SLFPA-E should monitor concrete spall and make the corrective actions as required. (M) USACE_CEMVN_LBL1_2017_a_0076: Station_1 474+10: Spalling at the top of the floodwall on floodside. Point could not be verified due to limited access because of saturated ground conditions. SLFPA-E should monitor concrete spall and make corrective actions as required. (M) USACE_CEMVN_LBL1_2017_a_0077: Station_1 459+87: Spalling on top of the floodwall on floodside. Point could not be verified due to limited access because of saturated ground conditions. SLFPA-E should monitor concrete spall and make the corrective actions as required. (M)
05. Tilting, Sliding or Settlement of Concrete Structures	**M**	A	There are no significant areas of tilting, sliding, or settlement that would endanger the integrity of the structure.	USACE_CEMVN_LBL1_2017_a_0068: Station_1 1116+84: Floodwall tilting. Preliminary analysis indicates stresses caused by the movement are within acceptable range. Movement is 1 3/8" at the top and 15/16" at the base slab. SLFPA-E shall continue to monitor floodwall conditions and inform USACE if any additional movements occur. (M)
		M	There are areas of tilting, sliding, or settlement (either active or inactive) that need to be repaired. The maximum offset, either laterally or vertically, does not exceed 2 inches unless the movement can be shown to be no longer actively occurring. The integrity of the structure is not in danger.	
		U	There are areas of tilting, sliding, or settlement (either active or inactive) that threaten the structure's integrity and performance. Any movement that has resulted in failure of the waterstop (possibly identified by daylight visible through the joint) is unacceptable. Differential movement of greater than 2 inches between any two adjacent monoliths, either laterally or vertically, is unacceptable unless it can be shown that the movement	

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Floodwalls

For use during Initial and Continuing Eligibility Inspections of levee segments / systems

Rated Item	Rating	Rating Guidelines		Locations/Remarks/Recommendations
			is no longer active. Also, if the floodwall is of I-wall construction, then any visible or measurable tilting of the wall toward the protected side that has created an open horizontal crack on the riverside base of a monolith is unacceptable.	
06. Foundation of Concrete Structures	**M**	A	No active erosion, scouring, or bank caving that might endanger the structure's stability.	USACE_CEMVN_LBL1_2017_a_0023: Station_1 38+87: Lack of armoring at floodwall transition near Domino Sugar Corporation conveyor belt. Lack of armoring noted for project information purposes. (M) USACE_CEMVN_LBL1_2017_a_0025: Station_1 51+19: Lack of armor protection at floodwall transition. Lack of armor protection noted for project information purposes. (M) USACE_CEMVN_LBL1_2017_a_0026: Station_1 61+20: Lack of armor protection at floodwall transition. .Lack of armor protection noted for project information purposes. (M) USACE_CEMVN_LBL1_2017_a_0027: Station_1 61+05: Lack of armor protection at floodwall transition. Lack of armor protection noted for project information purposes. (M) USACE_CEMVN_LBL1_2017_a_0028: Station_1 80+14: Lack of armor protection at floodwall transition. Lack of armor protection noted for project information purposes. (M) USACE_CEMVN_LBL1_2017_a_0033: Station_1 105+53: Lack of armor protection at floodwall transition. Lack of armor protection noted for project information purposes. (M)
		M	There are areas where the ground is eroding towards the base of the structure. Efforts need to be taken to slow and repair this erosion, but it is not judged to be close enough to the structure or to be progressing rapidly enough to affect structural stability before the next inspection. For the purposes of inspection, the erosion or scour is not closer to the riverside face of the wall than twice the floodwall's underground base width if the wall is of L-wall or T-wall construction; or if the wall is of sheetpile or I-wall construction, the erosion is not closer than twice the wall's visible height. Additionally, rate of erosion is such that the wall is expected to remain stabile until the next inspection.	
		U	Erosion or bank caving observed that is closer to the wall than the limits described above, or is outside these limits but may lead to structural instabilities before the next inspection. Additionally, if the floodwall is of I-wall or sheetpile construction, the foundation is unacceptable if any turf, soil or pavement material got washed away from the landside of the I-wall as the result of a previous overtopping event.	
07. Monolith Joints	**A**	A	The joint material is in good condition. The exterior joint sealant is intact and cracking/ desiccation is minimal. Joint filler material and/or waterstop is not visible at any point.	
		M	The joint material has appreciable deterioration to the point where joint filler material and/ or waterstop is visible in some locations. This needs to be repaired or replaced to prevent spalling and cracking during freeze/ thaw cycles, and to ensure water tightness of the joint.	
		U	The joint material is severely deteriorated or the concrete adjacent to the monolith joints has spalled and cracked, damaging the waterstop; in either case damage has occurred to	

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Floodwalls

For use during Initial and Continuing Eligibility Inspections of levee segments / systems

Rated Item	Rating	Rating Guidelines		Locations/Remarks/Recommendations
			the point where it is apparent that the joint is no longer watertight and will not provide the intended level of protection during a flood.	
		N/A	There are no monolith joints in the floodwall.	
08. Underseepage Relief Wells/ Toe Drainage Systems	**NA**	A	Toe drainage systems and pressure relief wells necessary for maintaining FDR system stability during high water functioned properly during the last flood event and no sediment is observed in horizontal system (if applicable). Nothing is observed which would indicate that the drainage systems won't function properly during the next flood, and maintenance records indicate regular cleaning. Wells have been pumped tested within the past 5 years and documentation is provided.	
		M	Toe drainage systems or pressure relief wells are damaged and may become clogged if they are not repaired. Maintenance records are incomplete or indicate irregular cleaning and pump testing.	
		U	Toe drainage systems or pressure relief wells necessary for maintaining FDR system stability during flood events have fallen into disrepair or have become clogged. No maintenance records. No documentation of the required pump testing.	
		N/A	There are no relief wells/ toe drainage systems along this component of the FDR system.	
09. Seepage	**A**	A	No evidence or history of unrepaired seepage, saturated areas, or boils.	
		M	Evidence or history of minor unrepaired seepage or small saturated areas at or beyond the landside toe but not on the landward slope of levee. No evidence of soil transport.	
		U	Evidence or history of active seepage, extensive saturated areas, or boils.	

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Floodwalls

For use during Initial and Continuing Eligibility Inspections of levee segments / systems

Inspect ID: USACE_CEMVN_LBL1_2017_a_0017
Title: USACE_CEMVN_LBL1_2017_a_0017_1.jpg
Rated Item: 03. Closure Structures (Stop Log Closures and Gates) (A or U only)
Rating: A
Inspection Remarks: Bolts thread in concrete on floodgate are corroded.
Recommended Action: SLFPA-E shall preform the required maintenance in removing corrosion and lubricating threads as needed.
Caption:
Station 1: 17+64 (LBLD)

Inspect ID: USACE_CEMVN_LBL1_2017_a_0024
Title: USACE_CEMVN_LBL1_2017_a_0024_1.jpg
Rated Item: 03. Closure Structures (Stop Log Closures and Gates) (A or U only)
Rating: A
Inspection Remarks: Paint peeling on gate.
Recommended Action: SLFPA-E should remove unbonded paint and repaint.
Caption:
Station 1: 52+92 (LBLD)

Key: A = Acceptable. M = Minimally Acceptable; Maintenance is required. U = Unacceptable. N/A = Not Applicable. FDR = Flood Damage Reduction

Floodwalls

For use during Initial and Continuing Eligibility Inspections of levee segments / systems

Inspect ID: USACE_CEMVN_LBL1_2017_a_0064
Title: USACE_CEMVN_LBL1_2017_a_0064_1.jpg
Rated Item: 03. Closure Structures (Stop Log Closures and Gates) (A or U only)
Rating: A
Inspection Remarks: At Bayou Dupre Sector Gate transverse cracking every 5' across top of gate bay monolith stem (both gates).
Recommended Action: SLFPA-E will continue monitor crack.
Caption:
Station 1: 708+27 (CLP)

Inspect ID: USACE_CEMVN_LBL1_2017_a_0070
Title: USACE_CEMVN_LBL1_2017_a_0070_1.jpg
Rated Item: 03. Closure Structures (Stop Log Closures and Gates) (A or U only)
Rating: A
Inspection Remarks: Spalling at top of floodwall between gates at Highway 39 near Caernavon FWDS.
Recommended Action: SLFPA-E should monitor concrete cracking/degredation and make corrective actions as required.
Caption:
Station 1: 1578+94 (CLP)

Key: A = Acceptable. M = Minimally Acceptable; Maintenance is required. U = Unacceptable. N/A = Not Applicable. FDR = Flood Damage Reduction

Floodwalls

For use during Initial and Continuing Eligibility Inspections of levee segments / systems

Inspect ID: USACE_CEMVN_LBL1_2017_a_0072
Title: USACE_CEMVN_LBL1_2017_a_0072_1.jpg
Rated Item: 03. Closure Structures (Stop Log Closures and Gates) (A or U only)
Rating: A
Inspection Remarks: Locks on security gates at Highway 300 have been removed from several access ladders .
Recommended Action: SLFPA-E has indicated this is a persistent problem as locks are routinely replaced.
Caption:
Station 1: 1123+84 (CLP)

Inspect ID: USACE_CEMVN_LBL1_2017_a_0003
Title: USACE_CEMVN_LBL1_2017_a_0003_1.jpg
Rated Item: 04. Concrete Surfaces
Rating: M
Inspection Remarks: Spalling on top of floodwall on landside due to lightning strike.
Recommended Action: SLFPA-E shall monitor concrete cracking/degradation and make corrective actions as required.
Caption:
Station 1: 589+11 (CLP)

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Floodwalls

For use during Initial and Continuing Eligibility Inspections of levee segments / systems

Inspect ID: USACE_CEMVN_LBL1_2017_a_0010
Title: USACE_CEMVN_LBL1_2017_a_0010_1.jpg
Rated Item: 04. Concrete Surfaces
Rating: M
Inspection Remarks: Minor spalling on floodside of floodwall.
Recommended Action: SLFPA-E should monitor concrete cracking/degredation and make corrective actions as required.
Caption:
Station 1: 1098+45 (CLP)

Inspect ID: USACE_CEMVN_LBL1_2017_a_0013
Title: USACE_CEMVN_LBL1_2017_a_0013_1.jpg
Rated Item: 04. Concrete Surfaces
Rating: M
Inspection Remarks: Spalling on top of floodwall on floodside due to lightning strike.
Recommended Action: SLFPA-E should monitor concrete cracking/degredation and make corrective actions as required.
Caption:
Station 1: 1261+58 (CLP)

Key: A = Acceptable. M = Minimally Acceptable; Maintenance is required. U = Unacceptable. N/A = Not Applicable. FDR = Flood Damage Reduction

Floodwalls

For use during Initial and Continuing Eligibility Inspections of levee segments / systems

Inspect ID: USACE_CEMVN_LBL1_2017_a_0063
Title: USACE_CEMVN_LBL1_2017_a_0063_1.jpg
Rated Item: 04. Concrete Surfaces
Rating: M
Inspection Remarks: Spalling on top of floodwall landside due to lightning strike.
Recommended Action: SLFPA-E shall monitor concrete cracking/degradation and make corrective actions as required.
Caption:
Station 1: 1261+71 (CLP)

Inspect ID: USACE_CEMVN_LBL1_2017_a_0069
Title: USACE_CEMVN_LBL1_2017_a_0069_1.jpg
Rated Item: 04. Concrete Surfaces
Rating: M
Inspection Remarks: Spalling on landside floodwall at fence on Highway 39 near Caernavon FWDS.
Recommended Action: SLFPA-E shall monitor concrete cracking/degradation and make corrective actions as required.
Caption:
Station 1: 1578+32 (CLP)

Key: A = Acceptable. M = Minimally Acceptable; Maintenance is required. U = Unacceptable. N/A = Not Applicable. FDR = Flood Damage Reduction

Floodwalls

For use during Initial and Continuing Eligibility Inspections of levee segments / systems

Inspect ID: USACE_CEMVN_LBL1_2017_a_0071
Title: USACE_CEMVN_LBL1_2017_a_0071_1.jpg
Rated Item: 04. Concrete Surfaces
Rating: M
Inspection Remarks: Spalling of concrete at railroad gate tracks adjacent to Highway 39 near Caernarvon FWDS.
Recommended Action: SLFPA-E shall monitor concrete cracking/degradation and make corrective actions as required.
Caption:
Station 1: 1579+16 (CLP)

Inspect ID: USACE_CEMVN_LBL1_2017_a_0074
Title: RIMG0051
Rated Item: 04. Concrete Surfaces
Rating: M
Inspection Remarks: Spalling near the top of floodwall on floodside.
Recommended Action: SLFPA-E should monitor concrete spall and make corrective actions as required.
Caption:
Station 1: 689+91 (CLP)

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Floodwalls

For use during Initial and Continuing Eligibility Inspections of levee segments / systems

Inspect ID: USACE_CEMVN_LBL1_2017_a_0075
Title: RIMG0052
Rated Item: 04. Concrete Surfaces
Rating: M
Inspection Remarks: Spalling at the top of floodwall on floodside. Point could not be verified due to limited access because of saturated ground conditions.
Recommended Action: SLFPA-E should monitor concrete spall and make the corrective actions as required.
Caption: LBBLD should monitor concrete spall and make corrective actions as required.
Station 1: 562+11 (CLP)

Inspect ID: USACE_CEMVN_LBL1_2017_a_0076
Title: RIMG0053
Rated Item: 04. Concrete Surfaces
Rating: M
Inspection Remarks: Spalling at the top of the floodwall on floodside. Point could not be verified due to limited access because of saturated ground conditions.
Recommended Action: SLFPA-E should monitor concrete spall and make corrective actions as required.
Caption:
Station 1: 474+10 (CLP)

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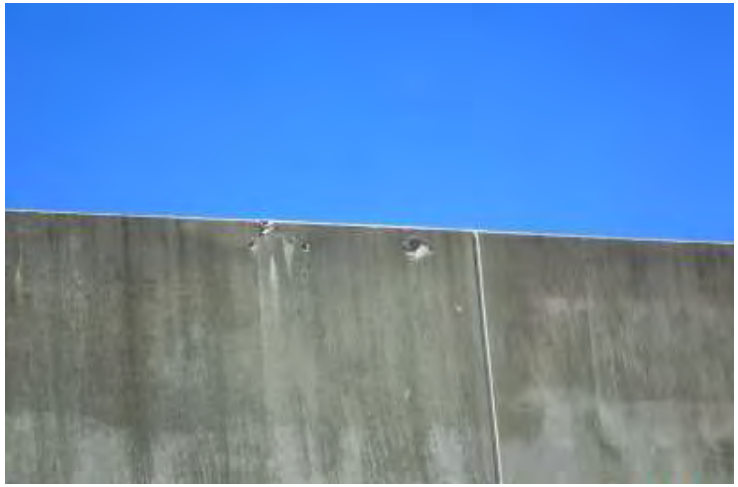
Floodwalls

For use during Initial and Continuing Eligibility Inspections of levee segments / systems



Inspect ID: USACE_CEMVN_LBL1_2017_a_0077
Title: RIMG0054
Rated Item: 04. Concrete Surfaces
Rating: M
Inspection Remarks: Spalling on top of the floodwall on floodside. Point could not be verified due to limited access because of saturated ground conditions.
Recommended Action: SLFPA-E should monitor concrete spall and make the corrective actions as required.
Caption:
Station 1: 459+87 (CLP)

Inspect ID: USACE_CEMVN_LBL1_2017_a_0068
Title: USACE_CEMVN_LBL1_2017_a_0068_1.jpg
Rated Item: 05. Tilting, Sliding or Settlement of Concrete Structures
Rating: M
Inspection Remarks: Floodwall tilting. Preliminary analysis indicates stresses caused by the movement are within acceptable range. Movement is 1 3/8" at the top and 15/16" at the base slab.
Recommended Action: SLFPA-E shall continue to monitor floodwall conditions and inform USACE if any additional movements occur.
Caption:
Station 1: 1116+84 (CLP)

Key: A = Acceptable. M = Minimally Acceptable; Maintenance is required. U = Unacceptable. N/A = Not Applicable. FDR = Flood Damage Reduction

Floodwalls

For use during Initial and Continuing Eligibility Inspections of levee segments / systems

Inspect ID: USACE_CEMVN_LBL1_2017_a_0023
Title: USACE_CEMVN_LBL1_2017_a_0023_1.jpg
Rated Item: 06. Foundation of Concrete Structures
Rating: M
Inspection Remarks: Lack of armoring at floodwall transition near Domino Sugar Corporation conveyor belt.
Recommended Action: Lack of armoring noted for project information purposes.
Caption:
Station 1: 38+87 (LBLD)

Inspect ID: USACE_CEMVN_LBL1_2017_a_0025
Title: USACE_CEMVN_LBL1_2017_a_0025_1.jpg
Rated Item: 06. Foundation of Concrete Structures
Rating: M
Inspection Remarks: Lack of armor protection at floodwall transition.
Recommended Action: Lack of armor protection noted for project information purposes.
Caption:
Station 1: 51+19 (LBLD)

Key: A = Acceptable. M = Minimally Acceptable; Maintenance is required. U = Unacceptable. N/A = Not Applicable. FDR = Flood Damage Reduction

Floodwalls

For use during Initial and Continuing Eligibility Inspections of levee segments / systems

Inspect ID: USACE_CEMVN_LBL1_2017_a_0026
Title: USACE_CEMVN_LBL1_2017_a_0026_1.jpg
Rated Item: 06. Foundation of Concrete Structures
Rating: M
Inspection Remarks: Lack of armor protection at floodwall transition.
Recommended Action: .Lack of armor protection noted for project information purposes.
Caption:
Station 1: 61+20 (LBLD)

Inspect ID: USACE_CEMVN_LBL1_2017_a_0027
Title: USACE_CEMVN_LBL1_2017_a_0027_1.jpg
Rated Item: 06. Foundation of Concrete Structures
Rating: M
Inspection Remarks: Lack of armor protection at floodwall transition.
Recommended Action: Lack of armor protection noted for project information purposes.
Caption:
Station 1: 61+05 (LBLD)

Key: A = Acceptable. M = Minimally Acceptable; Maintenance is required. U = Unacceptable. N/A = Not Applicable. FDR = Flood Damage Reduction

Floodwalls

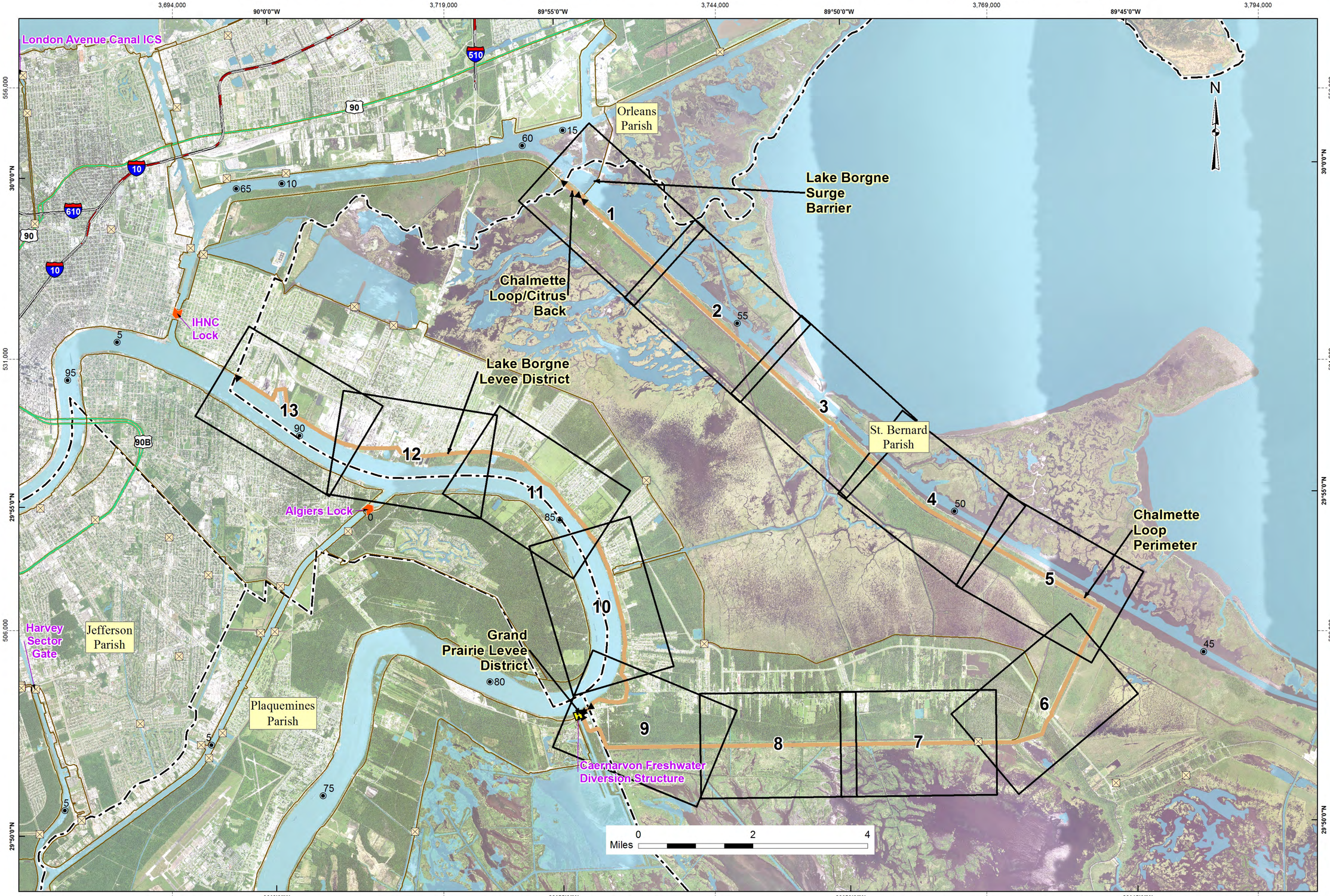
For use during Initial and Continuing Eligibility Inspections of levee segments / systems

Inspect ID: USACE_CEMVN_LBL1_2017_a_0028
Title: USACE_CEMVN_LBL1_2017_a_0028_1.jpg
Rated Item: 06. Foundation of Concrete Structures
Rating: M
Inspection Remarks: Lack of armor protection at floodwall transition.
Recommended Action: Lack of armor protection noted for project information purposes.
Caption:
Station 1: 80+14 (LBLD)

Inspect ID: USACE_CEMVN_LBL1_2017_a_0033
Title: USACE_CEMVN_LBL1_2017_a_0033_1.jpg
Rated Item: 06. Foundation of Concrete Structures
Rating: M
Inspection Remarks: Lack of armor protection at floodwall transition.
Recommended Action: Lack of armor protection noted for project information purposes.
Caption:
Station 1: 105+53 (LBLD)

Key: A = Acceptable. M = Minimally Acceptable; Maintenance is required. U = Unacceptable. N/A = Not Applicable. FDR = Flood Damage Reduction

Lake Borgne LD - New Orleans East Bank 2017 routine inspection (LBL1_2017_a)



U.S. ARMY CORPS OF ENGINEERS
NEW ORLEANS DISTRICT
Engineering Office

EGIS

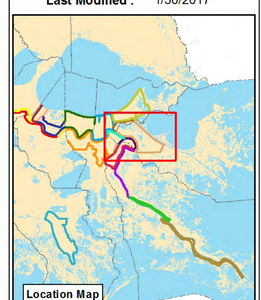
Legend

Flood Control Segments

- Flood Control Segments
- Lock
- Pump Station
- Interim Control Structure
- Federal Water Control Structure
- Sector Gate
- Channel Floodgate
- Weir
- Control Structure
- Diversion Structure
- Drainage Structure
- Navigable Structure
- Parishes Boundary
- River Miles

Notes:
Inside Plan Area grid based on Louisiana State Plane System, South Zone North American Datum 1983 shown by dashed ticks. Geographic Projection shown by solid ticks.

Last Modified : 1/30/2017

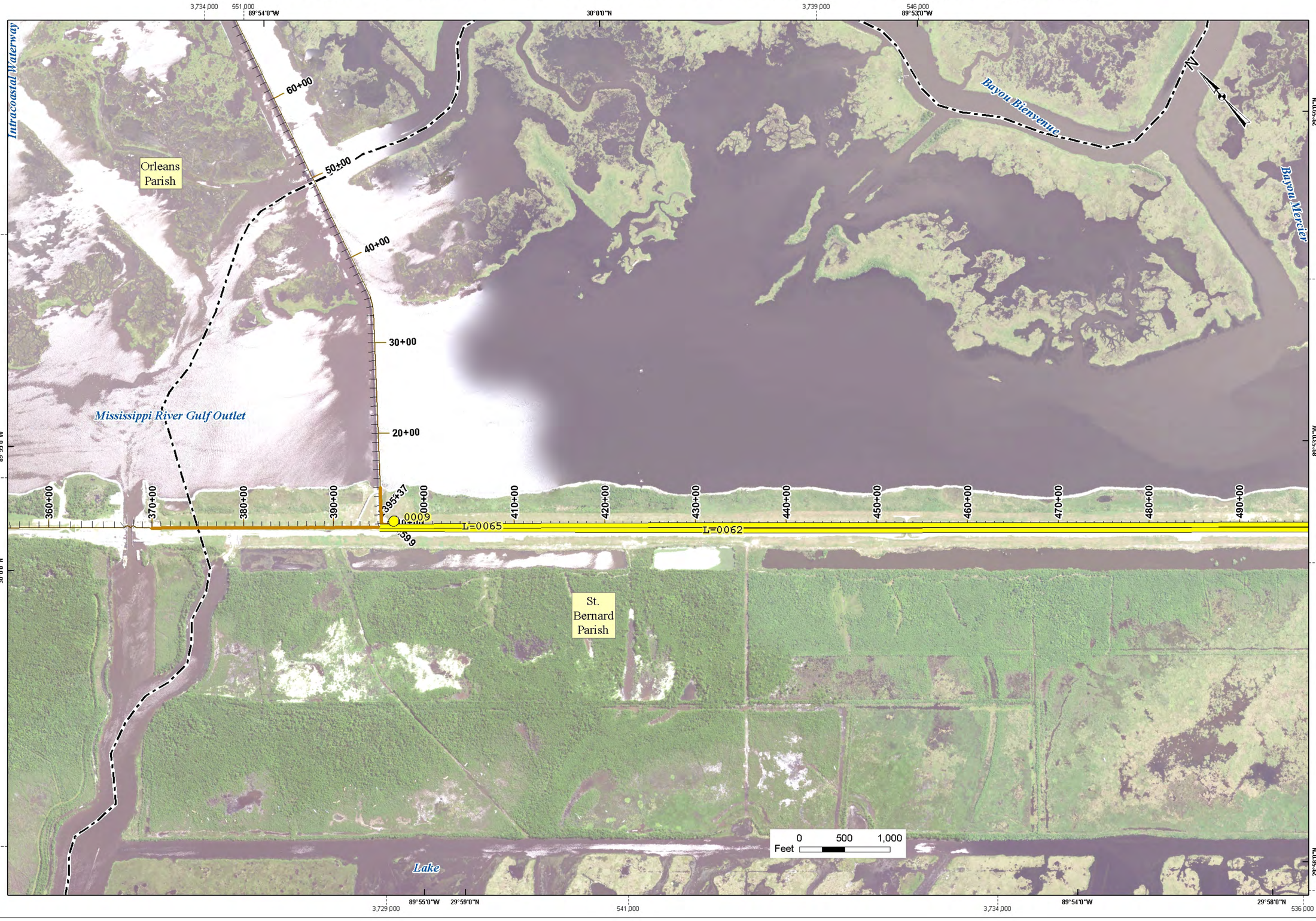


O&M Routine Inspection

LBL1 - Lake Borgne LD - New Orleans East Bank

Job ID No. EGIS 13-006-005-2017

Lake Borgne LD - New Orleans East Bank 2017 routine inspection (LBL1_2017_a)



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NEW ORLEANS DISTRICT
Engineering Office

EGIS

Legend

Flood Control Segments
- LBL1

Inspection Points
INSPECTION_RATING
- <Null>
- U
- M
- A
- NA

Inspection Lines
INSPECTION_RATING
- <Null>
- U
- M
- A
- NA

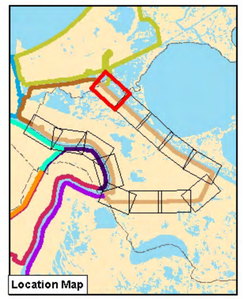
- Lock
- Pump Station
- Interim Control Structure
- Federal Water Control Structure
- Sector Gate
- Channel Floodgate
- Weir
- Control Structure
- Diversion Structure
- Drainage Structure
- Navigable Structure

Parishes Boundary
- River Miles

Note:
The labels for inspection features display an abbreviated version of the Inspect_ID site identifier from the Levee Inspection Report. For example, if the Inspect_ID site identifier is USACE_CEMVN_PLQ5_2013_a_0001 and the feature type is point, that point will be labeled as "0001" on the map series for PLQ5 2013 cycle "a" inspection. If the Inspect_ID site identifier is USACE_CEMVN_PLQ5_2013_a_0002 and the feature type is line, that line will be labeled as "L0002" on the map series for PLQ5 2013 cycle "a" inspection.

Notes:
Inside Plan Area grid based on Louisiana State Plane System, South Zone North American Datum 1983 shown by dashed ticks. Geographic Projection shown by solid ticks.

Last Modified : 4/27/2017

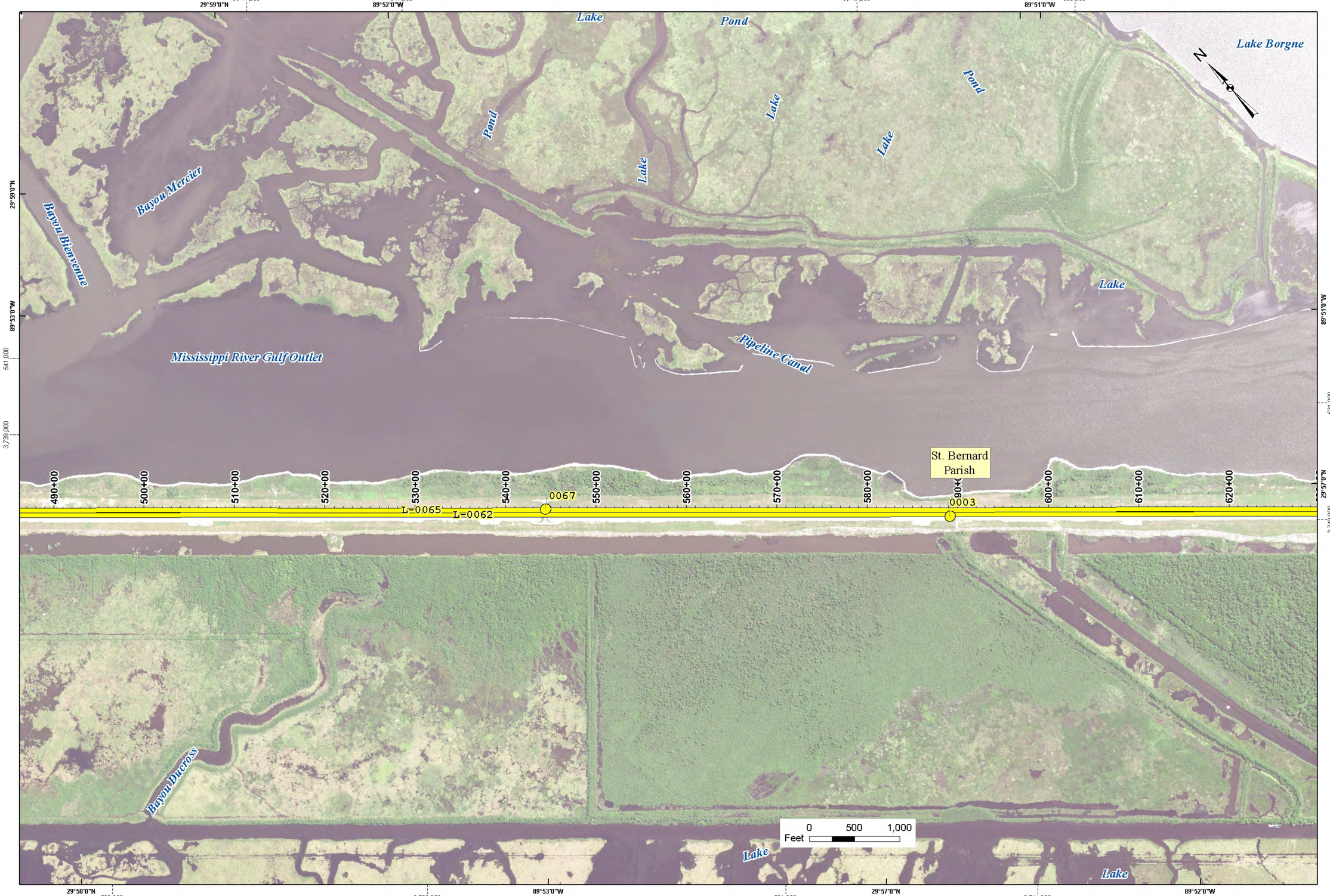


O&M Routine Inspection

LBL1 - Lake Borgne LD - New Orleans East Bank

Job ID No. EGIS 13-006-005-2017

Lake Borgne LD - New Orleans East Bank 2017 routine inspection (LBL1_2017_a)



U.S. ARMY CORPS OF ENGINEERS
NEW ORLEANS DISTRICT
Engineering Office

EGIS

Legend

Flood Control Segments
- LBL1

Inspection Points
INSPECTION_RATING
- <Null>
- U
- M
- A
- NA

Inspection Lines
INSPECTION_RATING
- <Null>
- U
- M
- A
- NA

- Lock
- Pump Station
- Interim Control Structure
- Federal Water Control Structure
- Sector Gate
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- Control Structure
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Parishes Boundary
- River Miles

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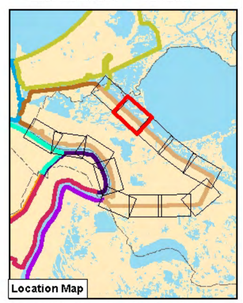

O&M Routine Inspection

LBL1 - Lake Borgne LD - New Orleans East Bank

Job ID No. EGIS 13-006-005-2017

Lake Borgne LD - New Orleans East Bank 2017 routine inspection (LBL1_2017_a)

U.S. ARMY CORPS OF ENGINEERS
NEW ORLEANS DISTRICT
Engineering Office

EGIS

Legend

Flood Control Segments
- LBL1

Inspection Points
INSPECTION_RATING
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- M
- A
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Inspection Lines
INSPECTION_RATING
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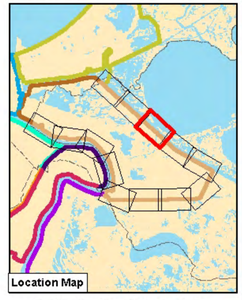

O&M Routine Inspection

LBL1 - Lake Borgne LD
- New Orleans East Bank

Job ID No. EGIS 13-006-005-2017

Lake Borgne LD - New Orleans East Bank 2017 routine inspection (LBL1_2017_a)

U.S. ARMY CORPS OF ENGINEERS
NEW ORLEANS DISTRICT
Engineering Office

EGIS

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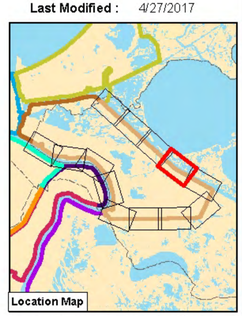

O&M Routine Inspection

LBL1 - Lake Borgne LD - New Orleans East Bank

Job ID No. EGIS 13-006-005-2017

Lake Borgne LD - New Orleans East Bank 2017 routine inspection (LBL1_2017_a)

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NEW ORLEANS DISTRICT
Engineering Office

EGIS

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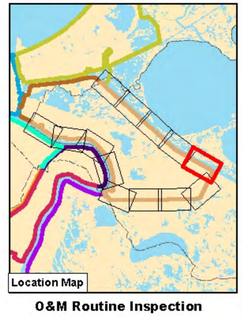

O&M Routine Inspection

LBL1 - Lake Borgne LD - New Orleans East Bank

Job ID No. EGIS 13-006-005-2017

Lake Borgne LD - New Orleans East Bank 2017 routine inspection (LBL1_2017_a)

U.S. ARMY CORPS OF ENGINEERS
NEW ORLEANS DISTRICT
Engineering Office

Legend

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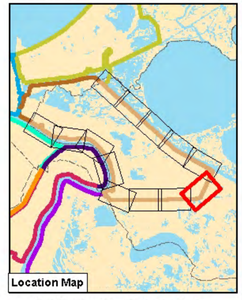

O&M Routine Inspection

LBL1 - Lake Borgne LD
- New Orleans East Bank

Job ID No. EGIS 13-006-005-2017

Lake Borgne LD - New Orleans East Bank 2017 routine inspection (LBL1_2017_a)

U.S. ARMY CORPS OF ENGINEERS
NEW ORLEANS DISTRICT
Engineering Office

Legend

Flood Control Segments
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INSPECTION_RATING
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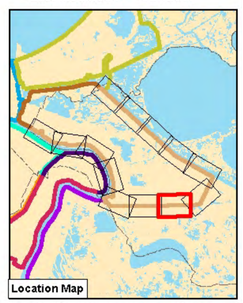

O&M Routine Inspection

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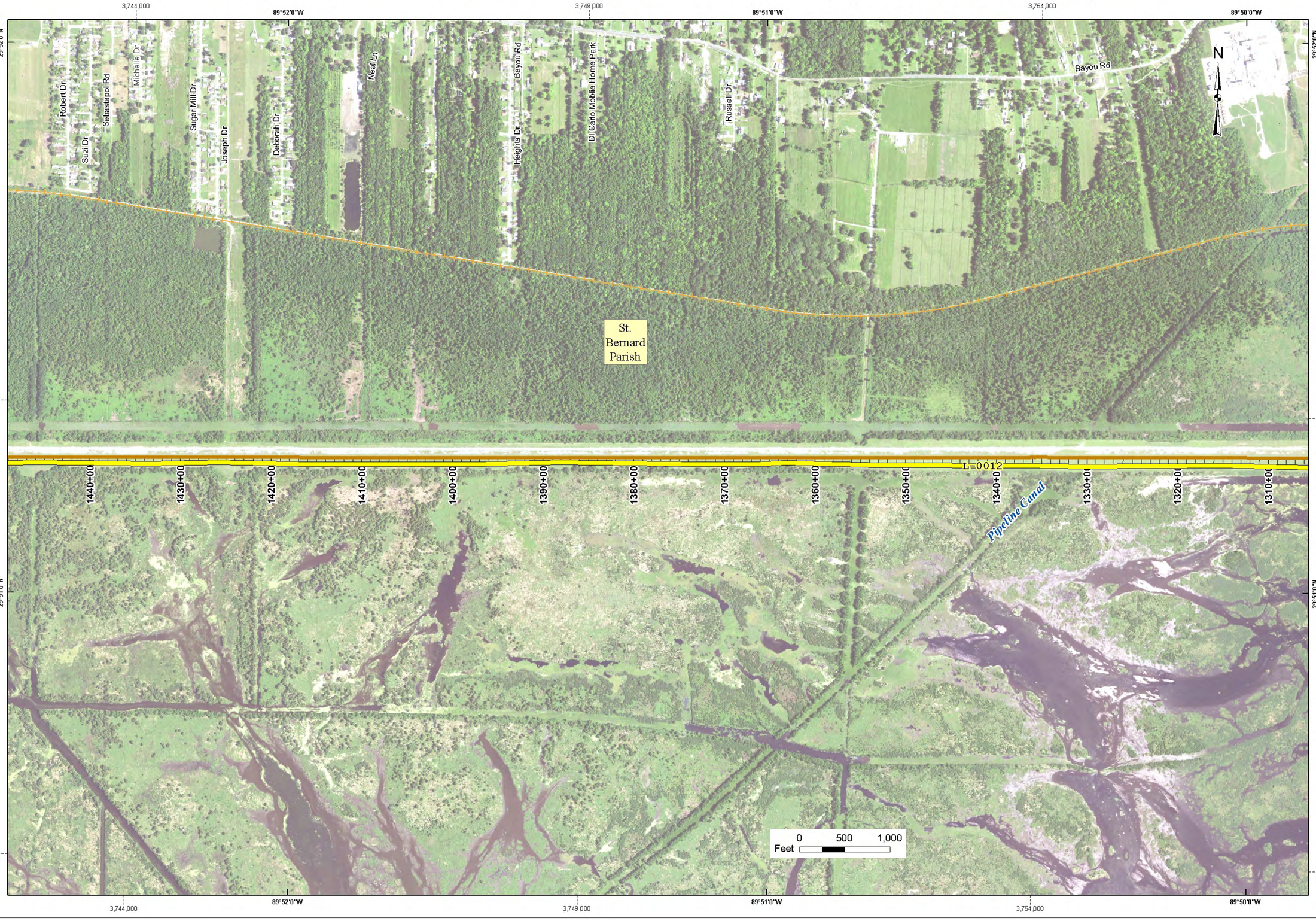

U.S. ARMY CORPS OF ENGINEERS
NEW ORLEANS DISTRICT
Engineering Office

EGIS

Legend

Flood Control Segments
- LBL1

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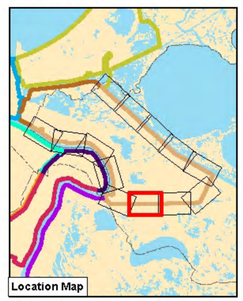

O&M Routine Inspection

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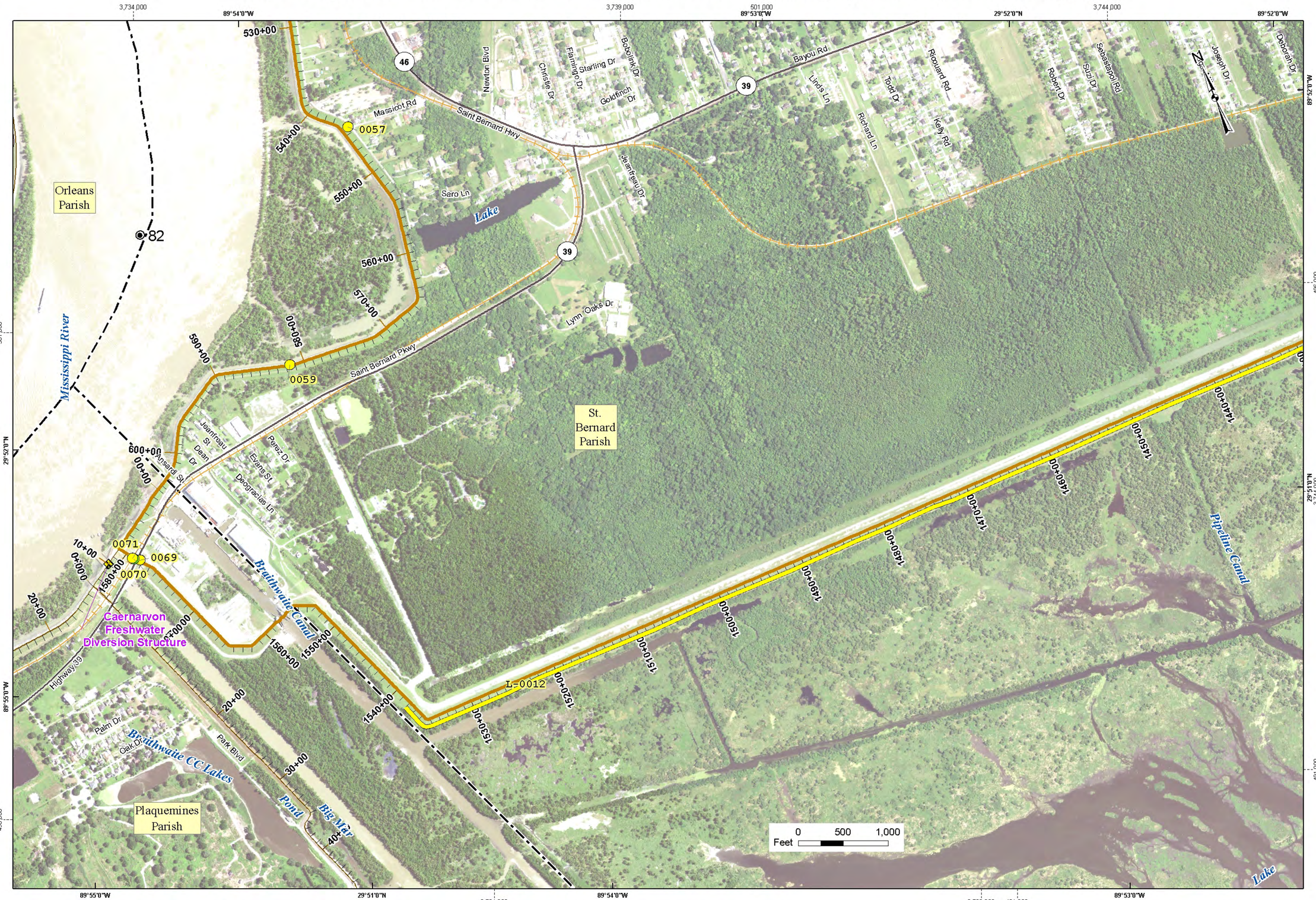

U.S. ARMY CORPS OF ENGINEERS
NEW ORLEANS DISTRICT
Engineering Office

EGIS

Legend

Flood Control Segments
- LBL1

Inspection Points
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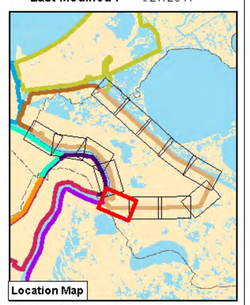
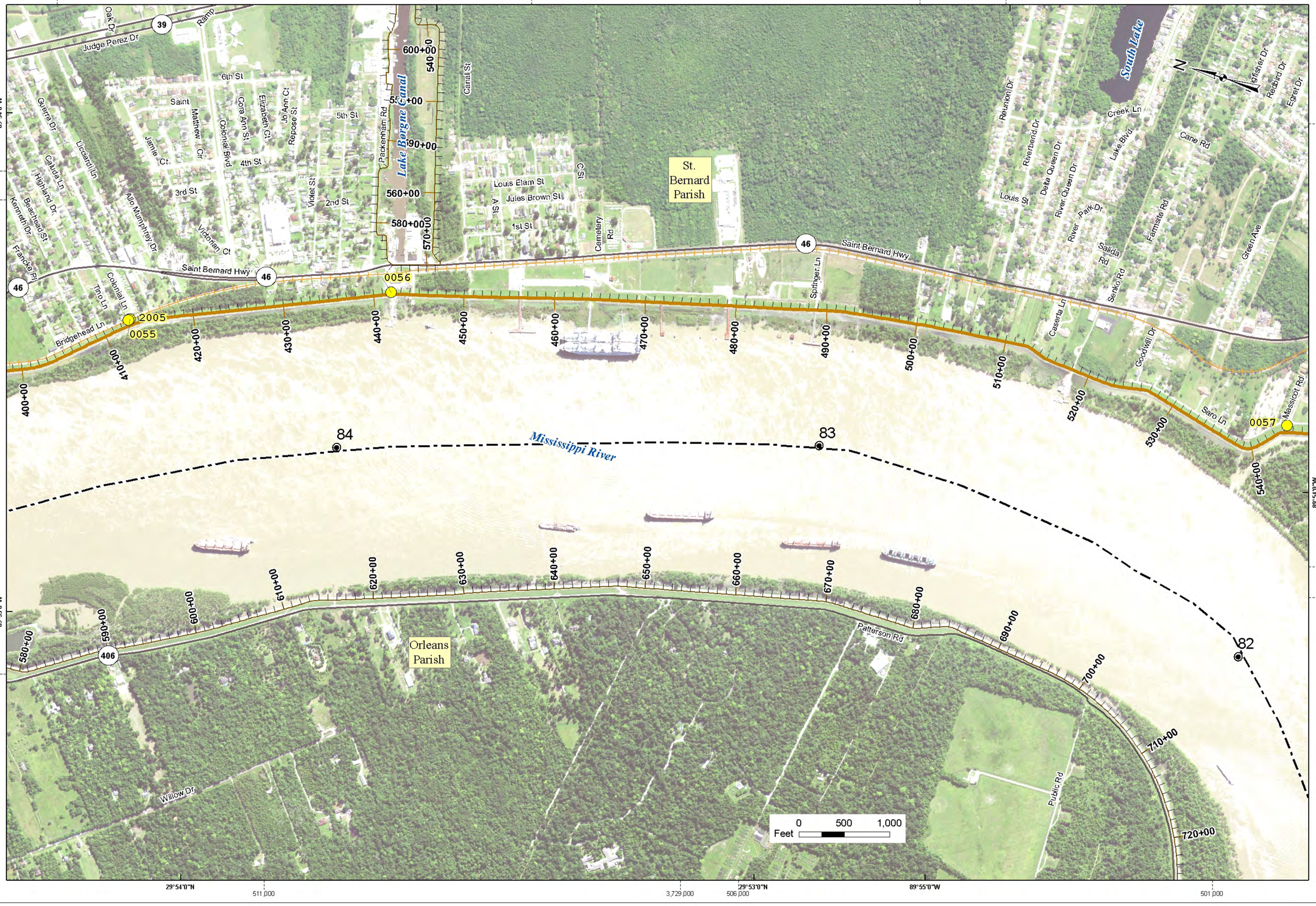


O&M Routine Inspection

LBL1 - Lake Borgne LD
- New Orleans East Bank

Job ID No. EGIS 13-006-005-2017

Lake Borgne LD - New Orleans East Bank 2017 routine inspection (LBL1_2017_a)



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NEW ORLEANS DISTRICT
Engineering Office

EGIS

Legend

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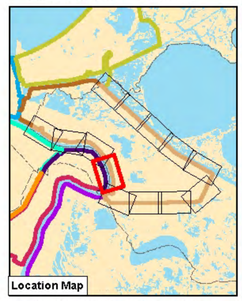

O&M Routine Inspection

LBL1 - Lake Borgne LD - New Orleans East Bank

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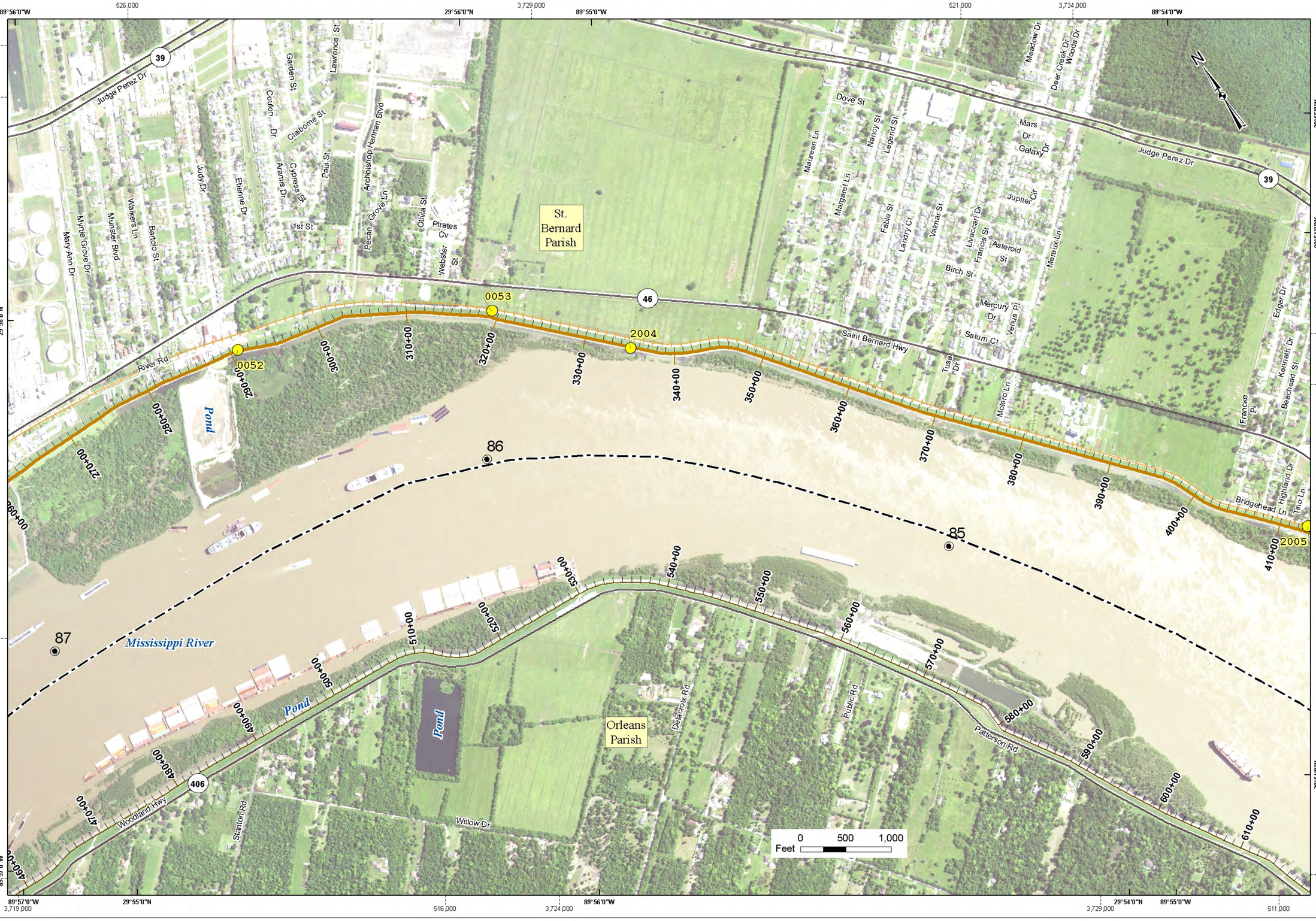

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NEW ORLEANS DISTRICT
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EGIS

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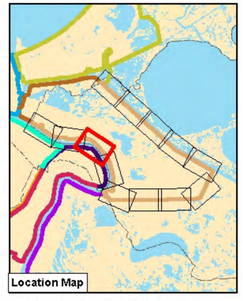

O&M Routine Inspection

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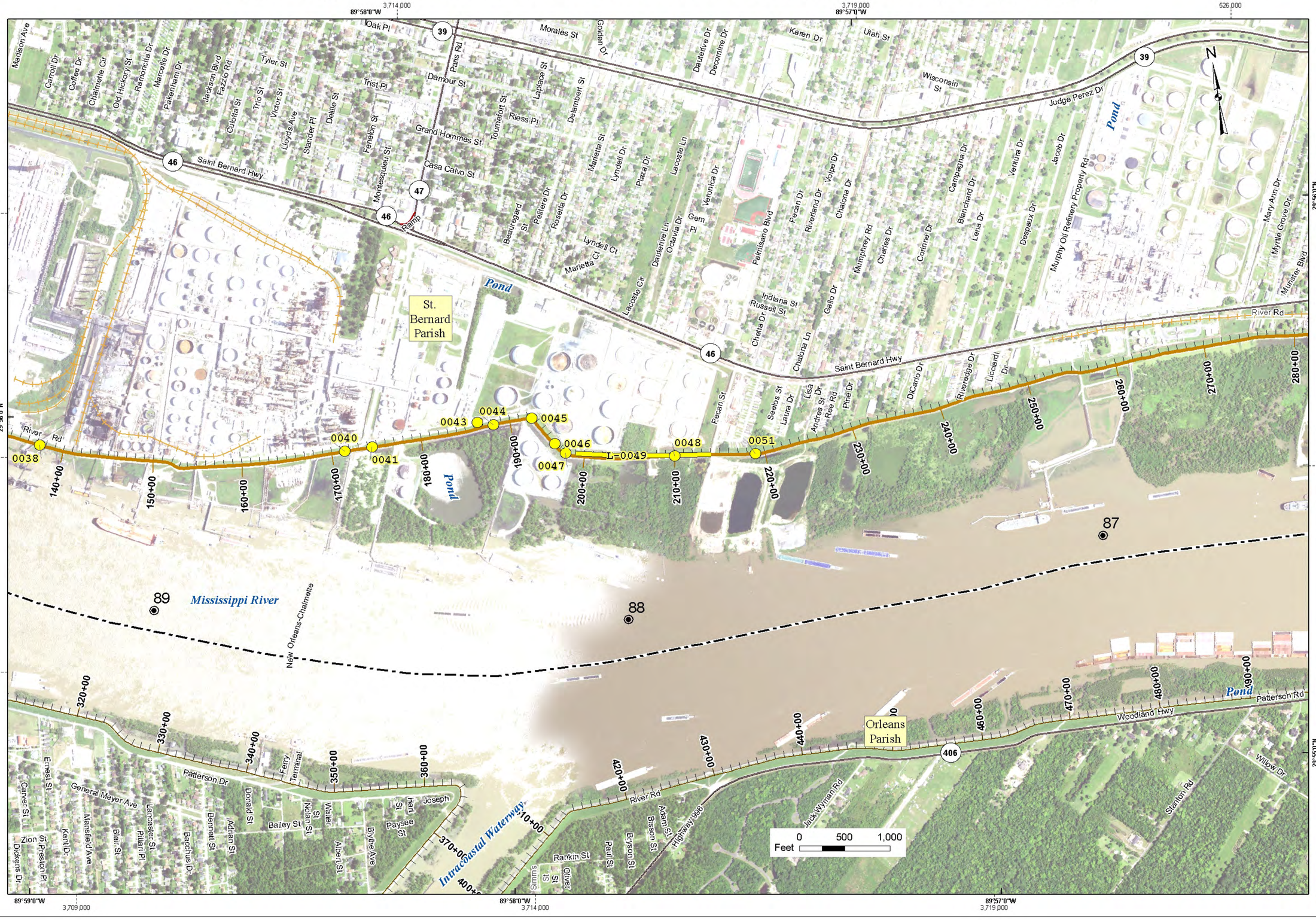

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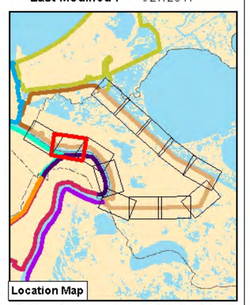

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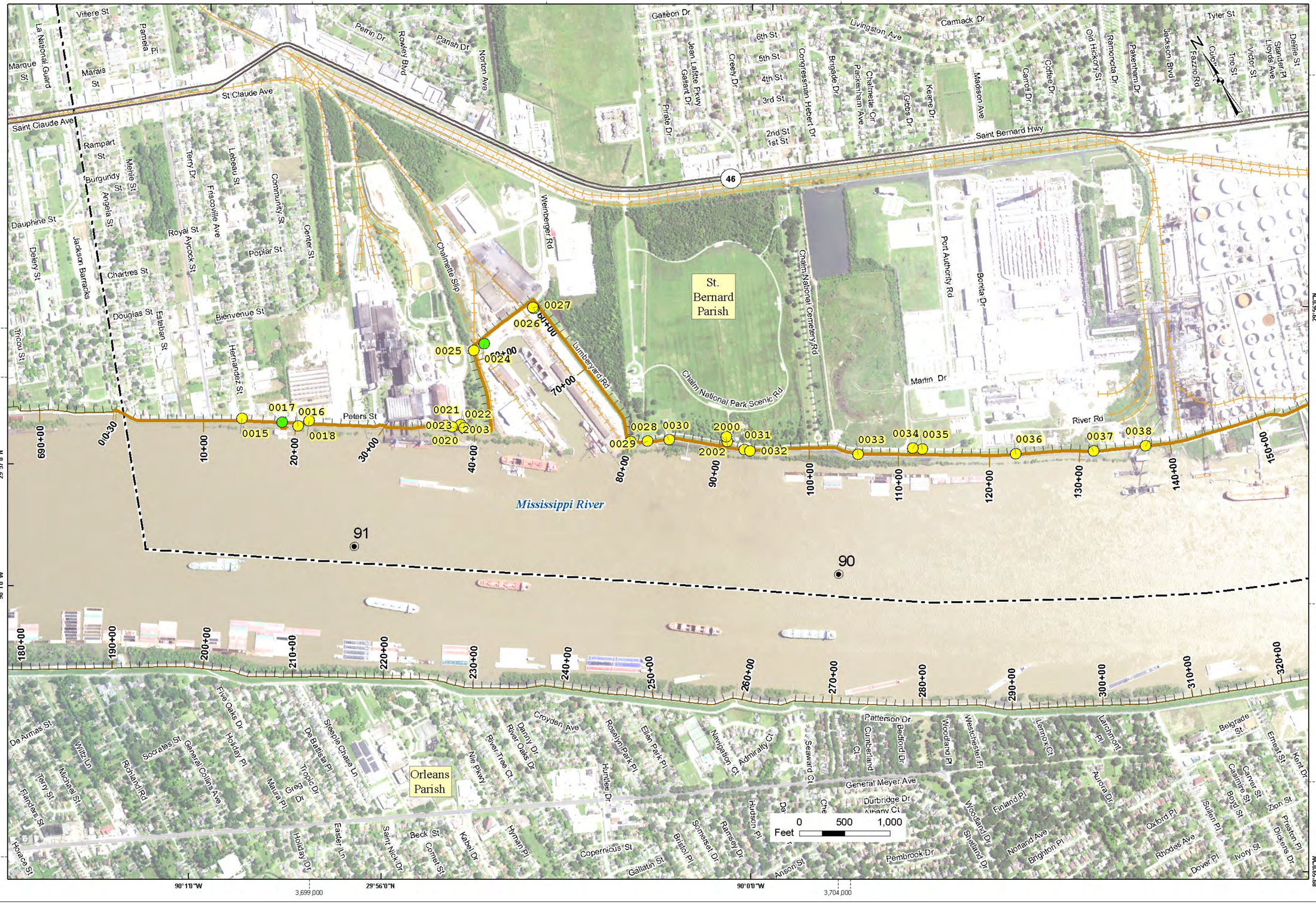

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NEW ORLEANS DISTRICT
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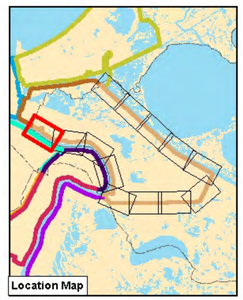

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