APPENDIX A: SUPPORTING FIGURES
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Figure 1. Predicted FWP TN Concentrations at the end of 20 Days (Year 0 and 50 Conditions)

Scenarios were run for the same 20-day period with continuous inflow from the diversion, normal tides and no rainfall.

The average TN concentrations for the Mississippi River for January 1 through August 31 is 2.21 mg/L.

*Delft3D Water Quality Modeling results by FTN Associates on December 12, 2020. Results are preliminary and subject to change.
Figure 2. Predicted FWP TP Concentrations at the end of 20 Days (Year 0 and 50 Conditions)

Scenarios were run for the same 20-day period with continuous inflow from the diversion, normal tides and no rainfall.

The average TP concentrations for the Mississippi River for January 1 through August 31 is 0.25 mg/L.

*Delft3D Water Quality Modeling results by FTN Associates on December 12, 2020. Results are preliminary and subject to change.
Figure 3. Predicted FWP Salinity Concentrations at the end of 20 Days (Year 0 and 50 Conditions)

Salinity*

Scenarios were run for the same 20-day period with continuous inflow from the diversion, normal tides and no rainfall.

*Delft3D Water Quality Modeling results by FTN Associates on December 12, 2020. Results are preliminary and subject to change.
Figure 4. Conceptual Model of Algal Blooms as they occur in Seawater

- Runoff
- Nutrient loading
- Atmospheric deposition
- Solar energy
- Nutrient cycling
- Nutrient release
- Toxic substance formation
- Organic precipitation
- Sedimentation
- Denser seawater
- Microorganisms (bacteria)
Figure 5. Percent of River Water in Lake Maurepas at 20 Days

WSLP Environmental Mitigation - Percent of River Water in Lake Maurepas at 20 Days

- Estimated Percentage of Mississippi River water in the water column at the end of 20 days of 2,000 cfs continuous river re-introduction flow

Legend:
- <10
- 10-20
- 20-30
- 30-40
- 40-50
- >50

Planning Area
Diversion Influence Area
Proposed Construction Area
WSLP Alignment
Waterways
Parishes

US Army Corps of Engineers
New Orleans District
Figure 6. Past, Present and Future Projects in the Deltaic Plain
Figure 7. Proposed Pine Island Mitigation Site (Swamp restoration)
Figure 8. Proposed St. James Mitigation Site (Swamp restoration)

*approximately 1,245 total acres of swamp habitat would be created. These acreages could change based on cultural surveys.
Figure 9. Proposed Boat Launch Relocation
Figure 10. Habitats found in the planning area
Figure 11. Scenic rivers found in the planning area

Legend
- Scenic Rivers
- Impact Area

Tchefuncte River and its Tributaries
Bayou Chinchuba
Bayou LaCombe
Bayou St. John *Historic and Scenic River
Bayou Bienvenue
Bayou Dupre

Tangipahoa River
Bayou Trepagnier
Bayou Labranche

Blind River
Bayou Des Allemands

Bayou Liberty
West Pearl River
Pirogue Bayou
Bashman Bayou

Lake Borgne Canal (Violet Canal)

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