

Wetlands Assimilation Pre-Design Project Central Wetlands Unit



General Overview of Project

Restoration of <1,000 to potentially >30,000 acres of wetlands within the CWU to be achieved by:

- The use of treated effluent from New Orleans East Bank Sewage Treatment Plant and smaller plants in St. Bernard Parish to supply nutrients and fresh water.
- Some target wetland areas require fill placement.
- The establishment of a cypress-tupelo swamp habitat in restored areas.

Central Wetlands Unit Layout



Alternatives Evaluated

- Evaluated 12 different scenarios with most having multiple subsets
- Estimated costs for scenarios ranged from slightly under \$1 million to over \$65 million
- Recommended proceeding with 4 alternatives under current funding levels (4D, 8, 9, and 12)
- Made recommendation on 2 other alternatives as more funding became available

Restoration Scenario 4D

- Discharge of 6 MGD from East Bank plant into **A2**
- Scenario 4D cost:.....\$7.2M

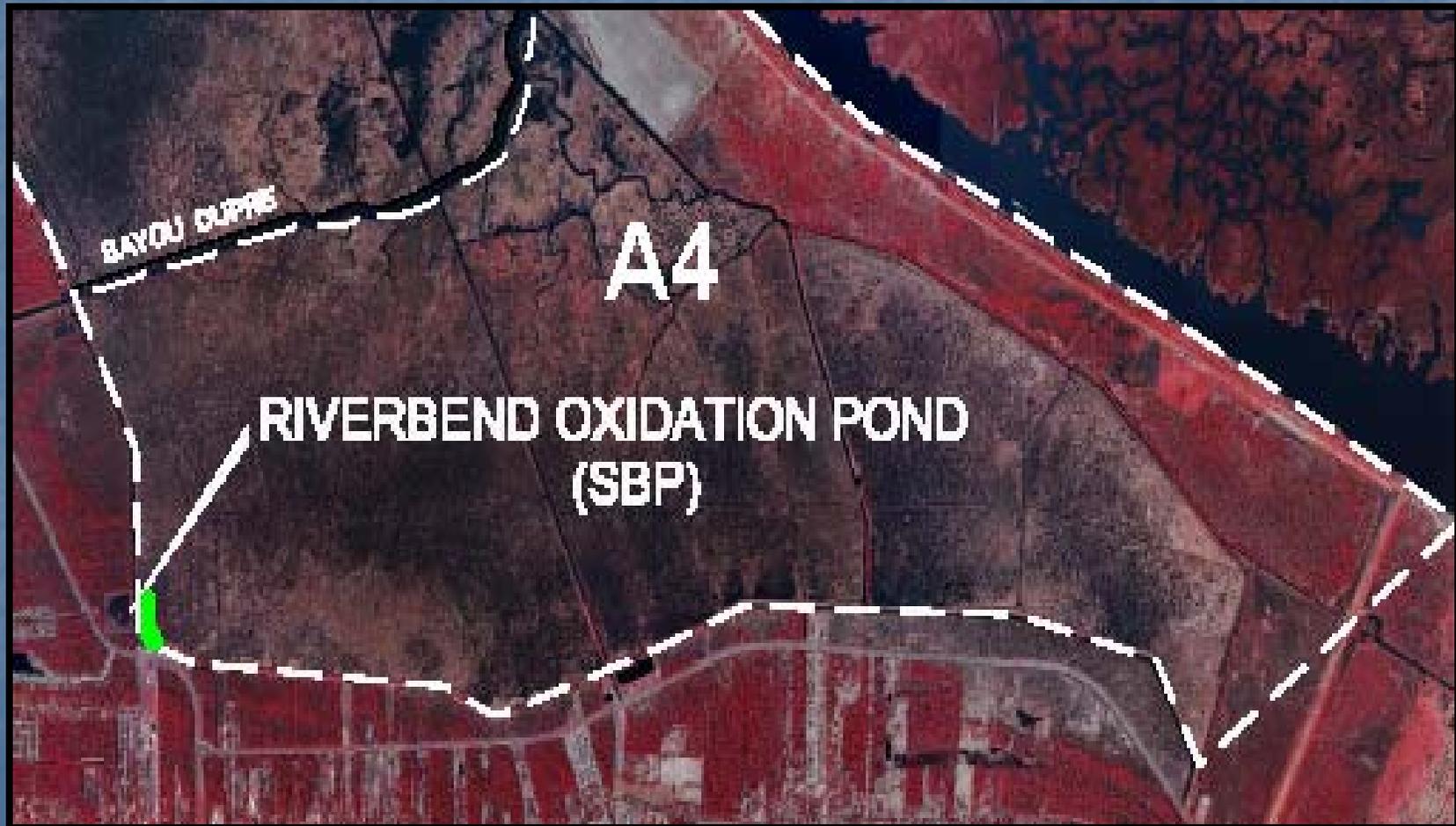
Scenario 4D Discharge Diagram:



Restoration Scenario 8

- Discharge of 1 MGD from Riverbend Oxidation Pond into **A4**.
- Benefit to 350 wetland acres
- No fill required; Planting to 400m
- Requires modifications to Riverbend facility to produce quality effluent.
- Scenario 8 cost:.....\$4.3M
 - Cost minus pond modifications.....\$800,000

Scenario 8 Discharge Diagram:



Restoration Scenario 9

- Discharge of 6 MGD from Munster POTW into **A3**
- No fill required; Planting to 200m
- Scenario 9 cost:.....\$3.8M

Scenario 9 Discharge Diagram:

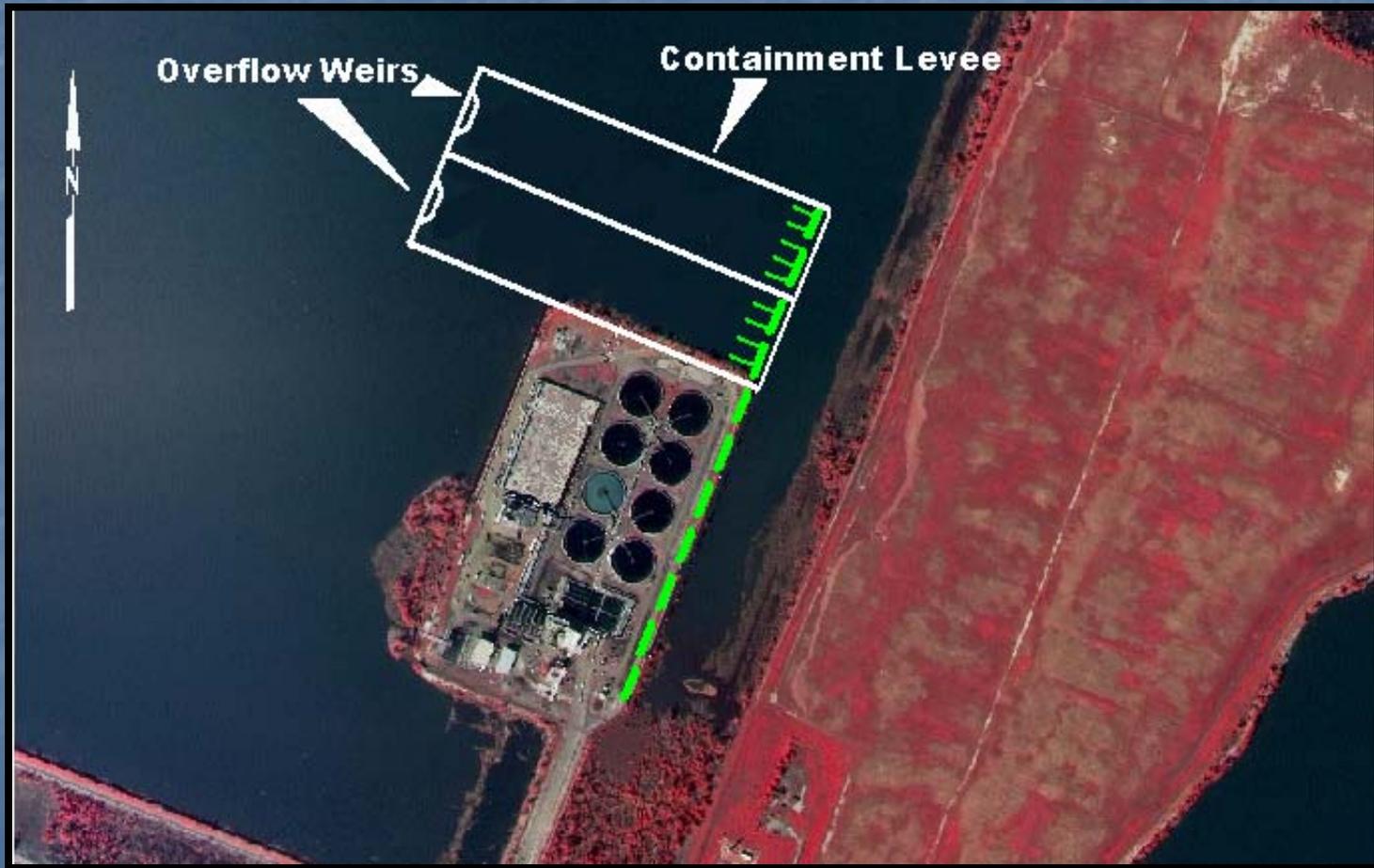


Restoration Scenario 12

Demonstration Project

- Demonstration scale project using 0.12 MGD effluent from EBSTP
- Discharge into a 20 acre area, divided into two sections
- Two sections used to evaluate performance of biosolids vs. non-biosolids addition
- Both sections receiving ferrate disinfected effluent
- Cost of Demonstration Scenario 12:...\$2.8 M

Demonstration Project Diagram



Restoration Scenario 10

- Continuation of scenario 4D throughout A2
- Discharge of 12 MGD total (6 added to 4D)
- Requires additional filling and planting throughout A2
- Cost: \$6.7 M

Scenario 10 – Distribution System



Restoration Scenario 11

- Discharge of 32 MGD from EBSTP into **A2** and **A3** (to Munster).
- Filling as required in A2, Planting to 200 meters in A2 and A3.
- Scenario 11 cost:.....\$23M

Scenario 11 – Distribution System



CIAP Fundable Projects

