

## FINDING OF NO SIGNIFICANT IMPACT

## VALLEY CREEK FEASIBILITY STUDY INTEGRATED FEASIBILITY REPORT AND ENVIRONMENTAL ASSESSMENT BESSEMER AND BIRMINGHAM, ALABAMA

The U.S. Army Corps of Engineers, Kansas City District (Corps) has conducted an environmental analysis in accordance with the National Environmental Policy Act of 1969, as amended. The final Integrated Feasibility Report and Environmental Assessment (IFR/EA) dated DATE OF IFR/EA, for the Valley Creek Feasibility Study addresses flood risk management opportunities and feasibility in the area of Bessemer and Birmingham, Alabama. The final recommendation is contained in the report of the Chief of Engineers, dated DATE OF CHIEF'S REPORT.

The Final IFR/EA, incorporated herein by reference, evaluated various alternatives that would reduce flood risk in the study area. The recommended plan is the National Economic Development (NED) Plan and includes:

- The recommended plan includes two overbank detention basins each with an inlet weir, containment berm, and outlet structure. Detention Area 1 (VD1) comprises approximately 10.0 acres on the left overbank of Valley Creek downstream of Center Street. Detention Area 2 (VD2) comprises 19.8 acres on left overbank downstream of Princeton Parkway. Recreation features to include trails are incorporated in the plan. Site preparation includes acquiring necessary lands, easements, and right of ways; performing necessary relocations; procuring proper disposal location or locations; demolition and disposal of necessary material including material generated from clearing, grubbing, or stripping necessary vegetation.
- Compensatory mitigation for fish and wildlife impacts resulting from the loss of 5.6 acres (4.3 average annual habitat units) of bottomland hardwood forest would be achieved by purchasing 5.0 bottomland hardwood credits at the Big Sandy Mitigation Bank. The compensatory mitigation analysis is included in Appendix H of the Final IFR/EA.

In addition to a "no action" plan, 13 alternative plans were evaluated as part of the initial array and four final array alternatives were evaluated. The alternatives included a plan with three overbank detention areas, the recommended plan with two overbank detention areas, and a plan that included channel modification, bridge modifications, and a buyout within the 2-year floodplain of approximately 79 properties. The plan formulation for the study is described in Chapter 4.0 of the Final IFR/EA.

For all alternatives, the potential effects were evaluated, as appropriate. A summary assessment of the potential effects of the recommended plan are listed in Table 1:



	Table 1: Summary of Potential Effects of the Recommended Plan			
	Insignificant effects	Insignificant effects as a result of mitigation*	Resource unaffected by action	
Hydrology and Hydraulics	$\boxtimes$			
Climate	$\boxtimes$			
Geology and Soils	$\boxtimes$			
Water Quality/Aquatic Habitat	$\boxtimes$			
Wetlands and Waters of the U.S.	$\boxtimes$			
Terrestrial Habitat	$\boxtimes$			
Fish and Wildlife	$\boxtimes$			
Threatened/Endangered species/critical habitat	$\boxtimes$			
Air quality	$\boxtimes$			
Hazardous, toxic & radioactive waste	$\boxtimes$			
Public Health and Safety	$\boxtimes$			
Floodplains	$\boxtimes$			
Land Cover and Land Use	$\boxtimes$			
Socio-economics	$\boxtimes$			
Transportation	$\boxtimes$			
Environmental justice	$\boxtimes$			
Prime and Unique Farmland			$\boxtimes$	
Cultural Resources	$\boxtimes$			
Recreation	$\boxtimes$			
Aesthetics	$\boxtimes$			

## Table 1: Summary of Potential Effects of the Recommended Plan

All practicable and appropriate means to avoid or minimize adverse environmental effects were analyzed and incorporated into the recommended plan. Best management practices (BMPs) as detailed in the IFR/EA will be implemented, if appropriate, to minimize impacts. BMPs necessary to prevent water quality related impacts are detailed in Appendix G of the Final IFR/EA.

The recommended plan will result in unavoidable adverse impacts to 5.6 acres (4.3 average annual habitat units) of bottomland hardwood forest. To mitigate for these unavoidable adverse impacts, the U.S. Army Corps of Engineers will purchase 5.0 bottomland hardwood credits at the Big Sandy Mitigation Bank.

Public review of the draft IFR/EA and FONSI was completed on 1 July 2020. No comments were submitted during the public review period. IF STATE AND AGENCY REVIEW (SAR) IS REQUIRED, INCLUDE THE FOLLOWING SENTENCES. A 30-day state and agency review of the Final IFR/EA was completed on DATE SAR PERIOD ENDED. PICK OPTION BASED ON RESULTS OF STATE AND AGENCY REVIEW.

Pursuant to section 7 of the Endangered Species Act of 1973, as amended, the U.S. Army Corps of Engineers determined that the recommended plan may affect but is not likely to adversely affect the following federally listed species or their designated critical habitat: Indiana



bat, gray bat, northern-long-eared bat, and watercress darter. The U.S. Fish and Wildlife Service (FWS) concurred with the Corps' determination on 18 June 2020

Pursuant to section 106 of the National Historic Preservation Act of 1966, as amended, the U.S. Army Corps of Engineers determined that historic properties may be adversely affected by the recommended plan. The Corps and the Alabama Historical Commission, State Historic Preservation Office entered into a Programmatic Agreement (PA), dated 9 February 2021. All terms and conditions resulting from the agreement shall be implemented in order to minimize adverse impacts to historic properties.

Pursuant to the Clean Water Act of 1972, as amended, the discharge of dredged or fill material associated with the recommended plan has been found to be compliant with section 404(b)(1) Guidelines (40 CFR 230). The Clean Water Act Section 404(b)(1) Guidelines evaluation is found in Appendix G of the IFR/EA.

A Clean Water Act Section 401 water quality certification would be obtained from the Alabama Department of Environmental Management prior to construction. Construction of the detention basins would not likely have a measurable effect on water quality or aquatic habitat within Valley Creek. BMPs would be implemented during and following construction to reduce potential negative effects to water quality.

All applicable environmental laws have been considered and coordination with appropriate agencies and officials has been completed.

Technical, environmental, economic, and cost effectiveness criteria used in the formulation of alternative plans were those specified in the Water Resources Council's 1983 <u>Economic and Environmental Principles and Guidelines for Water and Related Land Resources</u> <u>Implementation Studies.</u> All applicable laws, executive orders, regulations, and local government plans were considered in evaluation of alternatives. Based on this report, the reviews by other Federal, State and local agencies, Tribes, input of the public, and the review by my staff, it is my determination that the recommended plan would not cause significant adverse effects on the quality of the human environment; therefore, preparation of an Environmental Impact Statement is not required.

Date

Travis J. Rayfield, PE, PMP Colonel, Corps of Engineers District Commander