

RIP RAP LANDING
HABITAT REHABILITATION AND ENHANCEMENT PROJECT
CALHOUN COUNTY, ILLINOIS
ENVIRONMENTAL MANAGEMENT PROGRAM
ST. LOUIS DISTRICT

FACT SHEET

I. LOCATION

The project will encompass Rip Rap Landing and Dog Island in Calhoun County, Illinois. The Illinois Department of Natural Resources (IDNR) manages the 2,214-acre site as a State Fish and Waterfowl Management Area. The area is a series of backwater lakes, sloughs, wetlands, and floodplain and bottomland forest. It lies along the left descending bank of Mississippi River Pool 25 between River Miles 267 and 260.5, near Mozier, Illinois (Fig. 1).

II. EXISTING RESOURCES

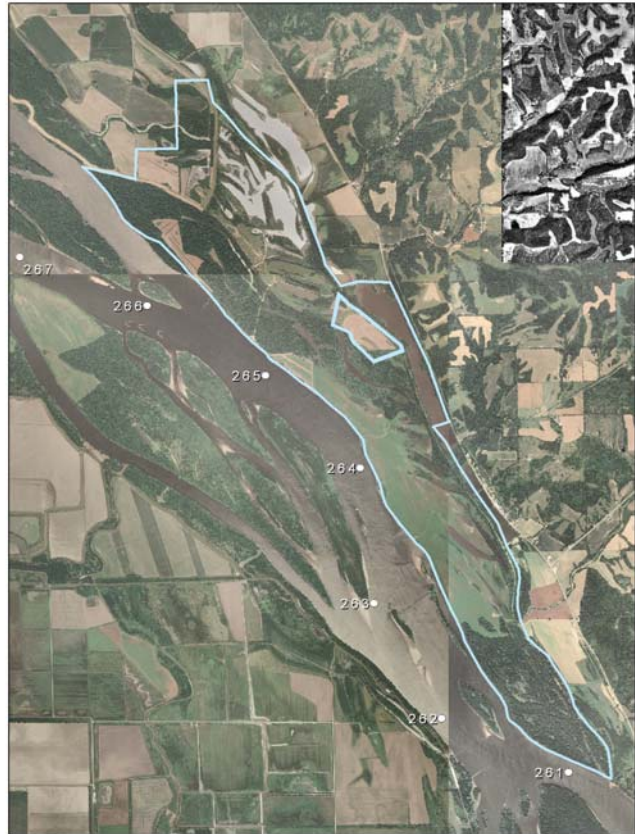
The state owns 1,775 acres of Rip Rap Landing and the 439-acre Dog Island complex is Corps General Plan (GP) land. According to the Habitat Needs Assessment (HNA 2000) land cover information, the project area consists of approximately 175 acres of open water; 540 acres of old agriculture fields; 1,100 acres of floodplain forest; and roughly 450 acres of wet meadows, scrub/shrub, and emergent and aquatic vegetation. Figure 1 shows a 2006 aerial photograph of the area and the project boundary.

III. PROBLEM IDENTIFICATION

The HNA has identified the need for creation or restoration of 10,500 acres of contiguous backwater habitat and 5,000 acres of isolated backwater habitat in Pools 14 – 26. Backwater habitats within Rip Rap Landing have been degraded due to sedimentation and lack of hydrological connection. Sedimentation has decreased depths along the lower portion of Sny Creek to approximately 2 feet. This has resulted in a loss of backwater fish habitat, property flooding, and little to no hydrologic connection between Sny Creek and adjacent backwater lakes. Most of the sedimentation along the lower portion of Sny Creek is hillside rather than river borne, except during major flood events.

The existing 10,000 gallon per minute (gpm) pump system cannot supply sufficient water for Rip Rap Landing. IDNR's purchase of 575 additional acres in 2001 and 2003 makes this pump even more inadequate. Without supplemental river water, Waverly Lake and other interior ponds go dry each year, and management capability on an additional 740 acres of isolated backwater habitat is limited.

Figure 1. Rip Rap Landing EMP project



IV. PROJECT GOALS

Maintain, Enhance, and Restore Wetland and Aquatic Habitat to Benefit Fisheries and Wetland Communities

- Increase acreage and functionality of isolated backwater habitat by improving water management capability through the installation of pumps and water control structures
- Improve backwater habitat by restoring connectivity and increasing the average depth of Sny Creek
- Reduce sedimentation in Sny Creek and adjacent wetlands

V. PROPOSED PROJECT

See Figure 2

The proposed project includes:

- Upgrading an existing 10,000 gpm pump to 15,000 gpm
- Installing a second 20,000 gpm pump to facilitate movement of sufficient river water to manage recently acquired interior wetlands
- Excavating lower Sny Creek from the northern boundary of Rip Rap Landing to the mouth near Dog Island to restore hydrologic connection to backwater lakes and improve fish habitat. Excavate to a bottom width of 20 feet and a total water depth at normal pool of 8 feet
- Installing three gated water control structures to enhance degraded wetlands through improved water management capability

VI. IMPLEMENTATION CONSIDERATIONS

Private property ownership interests likely exist within the project area. These interests will be taken into account during project development. During the preparation of the Definite Project Report, a letter will be obtained from Natural Resources Conservation Service reflecting the compatibility of the Wetlands Reserve Program lands with the proposed Environmental Management Program features. During plan formulation, the Corps will consider the potential effect on Rip Rap Landing of the proposed Navigation and Ecosystem Sustainability Program Pool 25 initiative to change pool control from hinge point to dam point.

VII. FINANCIAL DATA

The total estimated cost for this project is \$7,096,928.75. The portion of Sny Creek along Dog Island is on Corps-owned General Plan lands and the estimated cost of \$307,490.63 for dredging this portion of Sny Creek is 100% federal. All other project features are on state-owned lands. Accordingly, under the provisions of Section 906 (e) of the Water Resources Development Act 1986, as amended, the project's first costs are 65 % federal and 35 % non-federal. The state is seeking land, easement, rights-of-way, relocation, and disposal areas (LERRD) credits toward its 35 % cost-share. Current estimated LERRD credits exceed the 35% cost share. The state will receive LERRD credits not to exceed 35% of project costs. The project sponsor, IDNR, is responsible for operations, maintenance, repair, rehabilitation, and replacement costs. The estimated annual operations and maintenance cost is \$11,696.29.

VIII. STATUS

The project has been endorsed by the River Resource Action Team. The IDNR is the project sponsor.

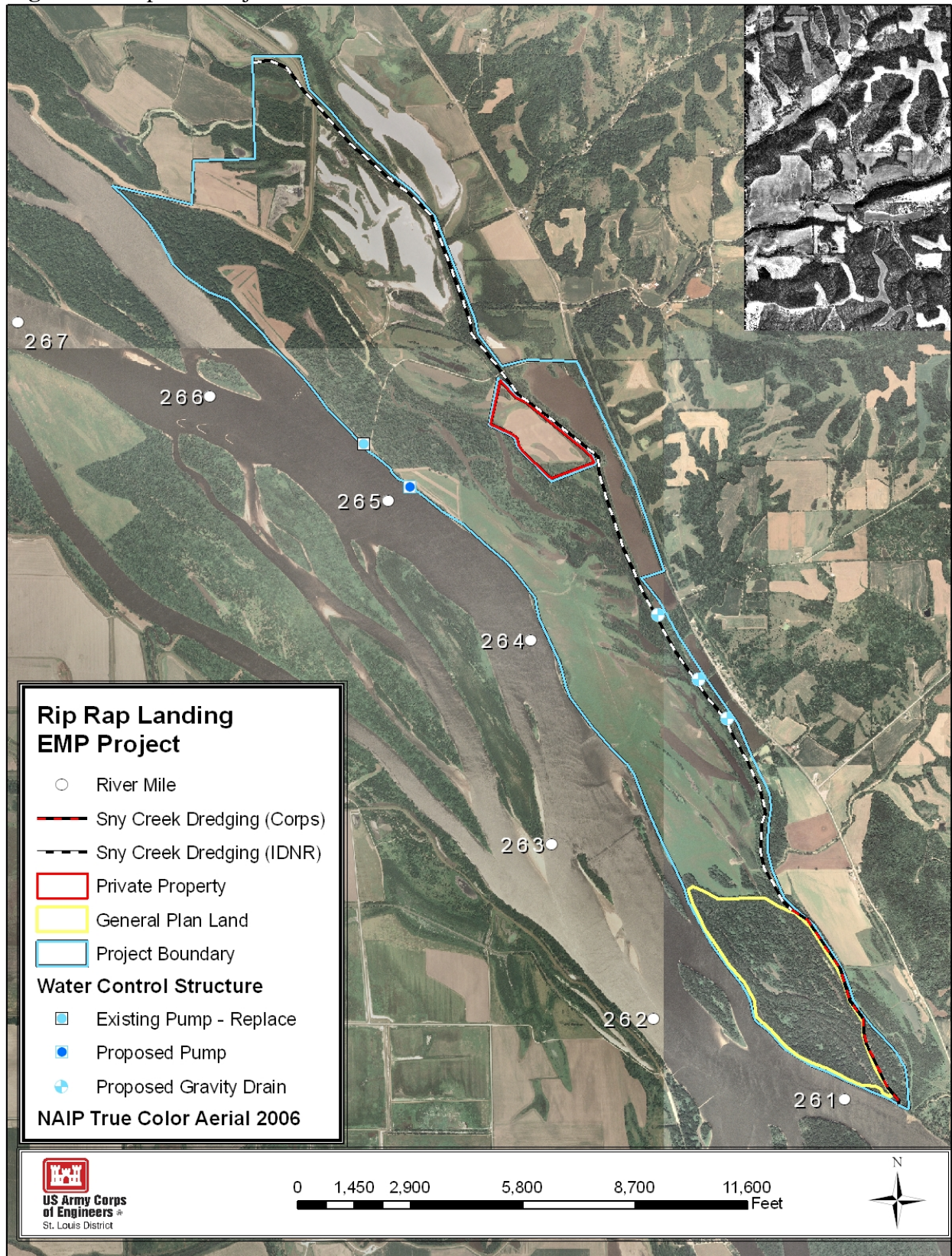
IX. POINT OF CONTACT

Brian Markert, EMP Program Manager, U.S. Army Corps of Engineers, St. Louis District, 314-331-8455,
brian.j.markert@mvs02.usace.army.mil

Richard J. Mollahan, Acting Manager Corps of Engineers Projects Section, IDNR, 217-785-8264,
rick.mollahan@illinois.gov

Neil Booth, Site Manager, IDNR, 618-376-3303, nbooth@dnrmail.state.il.us

Figure 2. Proposed Project Features





Illinois Department of Natural Resources

One Natural Resources Way • Springfield, Illinois 62702-1271
217.785.0075 • <http://dnr.state.il.us>

Rod R. Blagojevich, Governor

Sam Flood, Acting Director

September 14, 2007

Mr. Joseph P. Kellett
Deputy District Engineer for
Planning, Programs, and Project Management
U.S. Army Corps of Engineers
St. Louis District
1222 Spruce Street
St. Louis, Missouri 63103-2833

Dear Mr. Kellett:

The Illinois Department of Natural Resources (Department) supports the U.S. Army Corps of Engineers' (USACE) Rip Rap Landing Habitat Rehabilitation and Enhancement Project for ecosystem restoration on Rip Rap Landing and Dog Island, Calhoun County, Illinois. The project has the potential to help restore and enhance the structure and function of the degraded aquatic and wetland habitat complex. The proposed restoration may involve placement of water control structures, pump stations, sedimentation control berms, and dredging. This work would be accomplished under the authority of WRDA 1986 (Section 1103), as amended. The current total estimated costs of the project are \$7,096,928.75 and the annual operation and maintenance (O&M) costs are estimated to be \$11,696.29.

It is the Department's understanding that under the provisions of the USACE's Environmental Management Program, this project would be constructed at 100% federal cost for those portions of the project occurring on federal land and a cost share of 65% federal 35% state for those portions on state land. The state is seeking land, easement, rights-of-way, relocation, and disposal areas (LERRD) credits towards its 35% cost-share. Current LERRD estimates exceed the 35% cost share. The state will receive LERRD credits not to exceed 35% of project costs. As the project sponsor, the Department would be responsible for 100% of the O & M costs of the project. The Department's financial support would be dependent, of course, on total cost, appropriations authority, O & M responsibility, and benefits to the natural resources.

If additional information is needed, please contact Mr. Richard J. Mollahan at 217-785-8264.

Sincerely,

Sam Flood
Acting Director

c: Richard J. Mollahan



DEPARTMENT OF THE ARMY
ST. LOUIS DISTRICT, CORPS OF ENGINEERS
ROBERT A. YOUNG BUILDING - 1222 SPRUCE ST.
ST. LOUIS, MISSOURI 63103-2833

REPLY TO
ATTENTION OF

18 September 2007

CEMVS-PM-N

MEMORANDUM FOR: Commander, Mississippi Valley Division, ATTN: CEMVD-PD-SP
(Mr. Terry Smith), 1400 Walnut Street, P.O. Box 80, Vicksburg, MS 39181-0080

SUBJECT: Upper Mississippi River System-Environmental Management Program (UMRS-EMP), Rip Rap Landing, RM 260.5 - 267, Calhoun County, Illinois, Habitat Rehabilitation and Enhancement Project (HREP), Fact Sheet Approval

1. We have attached one electronic copy of the fact sheet with project site map and Illinois Department of Natural Resources Letter of Intent for the Rip Rap Landing HREP, RM 260.5 - 267, Calhoun County, Illinois, an element of the UMRS-EMP.
2. This project is being pursued at a cost share of 65% Federal 35% IDNR for those portions of the project on state lands (Rip Rap Landing) and 100% Federal for those portions on federally-owned lands (Dog Island). The state is seeking land, easement, rights-of-way, relocation, and disposal areas (LERRD) up to its 35 % cost-share (not to exceed). Current estimates indicate that LERRD credits will exceed the state's 35% cost share.
3. This transmittal is consistent with standing program implementation guidance (see HQUSACE memoranda dated 1 August 1986 and 12 May 2000, regarding UMRS-EMP implementation).
4. A Definite Project Report will be generated for this project.
5. If you have any questions, or need additional information, please contact Mr. Brian Markert, MVS Environmental Management Program Manager, at (314) 331-8455.

FOR THE COMMANDER:

Attached (1 copy)

A handwritten signature in black ink, appearing to read "Bruce Munholand".

BRUCE MUNHOLAND
Chief, Project Management Branch



DEPARTMENT OF THE ARMY
MISSISSIPPI VALLEY DIVISION, CORPS OF ENGINEERS
P.O. BOX 80
VICKSBURG, MISSISSIPPI 39181-0080

REPLY TO
ATTENTION OF:

CEMVD-PD-SP

NOV 21 2007

MEMORANDUM FOR Commander, St. Louis District, ATTN: CEMVS-PM-F

Subject: Upper Mississippi River System - Environmental Management Program (UMRS-EMP), Rip Rap Landing, RM 260.5-267, Calhoun County, Illinois, Habitat Rehabilitation and Enhancement Project (HREP), Fact Sheet Approval

1. Reference memorandum, CEMVS-PM-F, 18 September 2007, subject as above.
2. Subject fact sheet is approved, as revised, for continued HREP planning (encl 1).

A handwritten signature in black ink that reads "Charles B. Barton".

Encl

CHARLES B. BARTON
Chief, St. Louis/Rock Island/St. Paul
District Support Team