



DEPARTMENT OF THE ARMY  
CORPS OF ENGINEERS, NORTHWESTERN DIVISION  
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CENWD-RBT

16 OCT 2014

MEMORANDUM FOR Commander, Kansas City District (CENWK-PM-MO/Christine Hendzlik)

SUBJECT: Review Plan (RP) Approval for Baltimore Bottom Shallow Water Habitat Restoration

1. References:

- a. RP Approval for Baltimore Bottom Shallow Water Habitat Restoration
- b. EC 1165-2-214 Civil Works Review, 15 December 2012.

2. Reference 1.a. above has been prepared in accordance with reference 1.b. above.

3. The RP has been coordinated with the Business Technical Division, Northwestern Division, U.S. Army Corps of Engineers, which is the Review Management Organization for the plan. The Review Plan includes District Quality Control and Agency Technical Review.

4. I hereby approve this RP, which is subject to change as circumstances require, consistent with the study development process and the Project Management Business Process. Subsequent revisions to this RP or its execution will require written approval from this office.

5. For further information, please contact Mr. Douglas Putman, P.E. at (503) 808-3883.

Encl

  
JOHN S. KEM  
BG/USA  
Commanding

## MEMORANDUM FOR RECORD

SUBJECT: Baltimore Bottom Shallow Water Habitat Restoration Review Plan Packet

**1. Purpose.** To document review details of the Baltimore Bottom MRRP Project in accordance with the Missouri River Recovery Program (MRRP) Master Review Plan, approved 15 December 2012.

**2. Project Information.**

**Name:** Baltimore Bottom (Big Muddy Refuge Sites)

**Location:** Lafayette County, MO

**P2 Number:** 395637

**Current Total Project Cost:** The estimated total project cost is \$10 million.

**3. Project Description.**

Baltimore Bottom is located in Lafayette County, Missouri, on the right descending bank of the Missouri River between river miles 297.0 to 300.1. The site is owned by the US Fish and Wildlife Service (USFWS), Big Muddy Refuge. Additionally, the Natural Resources Conservation Service (NRCS) has a permanent Wetland Reserve Program (WRP) easement on a portion of the property. Current management of the site includes a farm lease on a portion of the property inside of the Hodge levee, and natural succession of vegetation within the WRP tracts. Additionally, shallow water excavations were performed along the river bank in 2004 consisting of 8 bank notches. As part of the effort to restore native aquatic habitats along the Missouri River, especially for the endangered pallid sturgeon, the USFWS and NRCS has agreed to allow the Corps of Engineers to construct a series of flow through chutes across the Baltimore Bottom Site. Funding for the project is to be 100% Missouri River Recovery.

The Kansas City District has constructed several flow-through chutes on the Missouri River as part of the MRRP, and has designed and constructed several grade control structures, diversion structures, and chute closure structures as part of the MRRP and the BSNP. The methods and materials used to design and construct this project are not innovative. There are no impacts or modifications to structures which involve potential life safety risks. The project does not involve the production of decision documents, and does not meet the mandatory IEPR triggers and does not warrant IEPR based on risk informed analysis. The Kansas City District considered the risks and determined that an ATR is the appropriate level of review for the Jameson Island Mitigation Site project.

**4. Risk Informed Decision.** The Kansas City District has determined that an **Agency Technical Review (ATR)** is required for this project.

**5. Agency Technical Review Details**

**a. Schedule.**

Review Milestone	Review Products	Date Planned
65% ATR review	Draft PIR	Jun 2014
95% ATR review	PIR, Plans and Specifications, Design Documentation Report	Dec 2014
ATR Certification	PIR, Plans and Specifications, Design Document Report	Feb 2015

b. Costs.

Review Milestone	#reviewers/total hours	Approximate cost/hr	Totals
65% ATR review	7/84	\$110	\$9,240
95% ATR review	7/84	\$110	\$9,240
ATR Certification	7/56	\$110	\$6,160
ATR Expenses (travel etc)	\$0		\$0
<b>Total ATR costs</b>			<b>\$24,640</b>

c. Project Delivery Team (PDT) Roster.

PDT Roster				
Name	Discipline	District	email	Phone
	Project Manager	NWK		
	Planning/ Biologist	NWK		
	Cultural Resources	NWK		
	Water Quality	NWK		
	Civil Design	NWK		
	Geotechnical Design	NWK		
	Cost Estimating	NWK		
	GIS	NWK		
	River Engineering	NWK		

d. ATR Team Roster\*.

Agency Technical Review (ATR) Team				
Name	Discipline/Role	District/Agency	email	Phone
	ATR Lead, NEPA, Biological, Environmental	MVP		
	Planning	MVP		
	Water Quality	MVS		
	Archeology, Cultural	MVS		
	Hydraulics/ Hydrology	MVS		
	Geotech	MVS		
	River engineering	MVS		

\*See Table 1 of the MRRP Master Review Plan for the required discipline expertise.

**e. Review Plan Points of Contact.**

<b>Contact</b>	<b>Role</b>	<b>Title</b>	<b>Office/District/Division</b>	<b>Phone</b>
	Project Manager	Project Manager	CENWK-PM-MO	
	RMO - Point of contact	Technical Review Program Manager	NWD	

**6. Security Policy.** Before posting to the websites for public review of this Review Plan Supplement, it may be necessary to remove names and contact information for Corps employees to comply with security policies.

This Review Plan has been prepared in accordance with the Missouri River Recovery Program (MRRP) Master Review Plan, approved 15 December 2012.