Appendix J
Cost Estimate Summary

WALLA WALLA COST ENGINEERING MANDATORY CENTER OF EXPERTISE

COST AGENCY TECHNICAL REVIEW

CERTIFICATION STATEMENT

For Project No. 145444

MVS – Piasa and Eagle's Nest Islands
Habitat Rehabilitation and Enhancement Project

The Piasa and Eagle's Nest Islands Habitat Rehabilitation and Enhancement Project, as presented by St Louis District, has undergone a successful Cost Agency Technical Review (Cost ATR), performed by the Walla Walla District Cost Engineering Mandatory Center of Expertise (Cost MCX) team. The Cost ATR included study of the project scope, report, cost estimates, schedules, escalation, and risk-based contingencies. This certification signifies the products meet the quality standards as prescribed in ER 1110-2-1150 Engineering and Design for Civil Works Projects and ER 1110-2-1302 Civil Works Cost Engineering.

As of February 1, 2018, the Cost MCX certifies the estimated total project cost:

FY2018 Project First Cost: $26,746,000
Fully Funded Amount: $28,258,000

It remains the responsibility of the District to correctly reflect these cost values within the Final Report and to implement effective project management controls and implementation procedures including risk management through the period of Federal Participation.

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FOR: Michael P. Jacobs, PE, CCE
Chief, Cost Engineering MCX
Walla Walla District

COST ESTIMATE SUMMARY

GENERAL

The goal of this HREP is to restore and improve the quality and diversity of aquatic and island ecosystem resources within the project area. The objectives identified to meet this goal are to:

- Restore depth (> 8 feet) and increase velocity over existing conditions to improve sediment transport and geomorphic processes within Piasa Chute.
- Increase the depth and connectivity between the Piasa Backwater and the Mississippi River, as measured by acres of deep water habitat (> 5 feet) and number of days connected.
- Increase the spatial coverage of islands, as measured in acres.

The tentatively selected plan for the Piasa and Eagle's Nest Island project consists of multiple features to restore and improve the ecosystem resources by implementation of the following project features:

- Dredge Piasa Chute
- Dredge Piasa Island Backwater
- Construct islands with excavated material and stone protection
- Construct river training structures

Implementation of the TSP would increase the quality and quantity of ecosystem resources and meet the needs for a large variety of native aquatic species. Establishing connectivity between Piasa Island Backwater and main channel would contribute to overwintering fish habitat as well as feeding areas for migratory wildlife; providing bathymetric diversity and flow within Piasa Chute would provide important side channel habitat within Pool 26; and restoring historic islands would allow the Project Area to realize the highest benefit to fish and wildlife. The Project outputs are also consistent with the goals and objectives of the Upper Mississippi River Restoration Program.

All Project measures would be located on Federally-owned lands, and waters are in Federal ownership. Lands are managed by the St. Louis Corps of Engineers' Rivers Project Office (e.g., forest monitoring, bat surveys), with some management in partnership with the Illinois Department of Natural Resources (e.g., migratory wildlife and fish); responsibility for the operation, maintenance, rehabilitation, replacement, and repair of the Project would be the responsibility of ILDNR.

BASIS OF COST ESTIMATE

The cost estimate has been prepared based on current concept designs and specific site information available to date. Pricing data was developed from recent contract estimates for similar projects in the St. Louis Area. This estimate will be considered the basis for the Current Working Estimate and considers all phases of the project.

CONTINGENCIES

The Abbreviated Risk Analysis process indicated an approximate 26% contingency based on associated project risks.

PLANNING, ENGINEERING AND DESIGN (PED)

Planning, engineering and design costs are based on historical data of similar projects in the St. Louis District. Recommended percentages by the cost MCX were taken into consideration as well.

CONSTRUCTION MANAGEMENT

Construction Management costs are based on historical data of similar projects in the St. Louis District. Recommended percentages by the cost MCX were taken into consideration as well.