



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

10 JAN 13

MEMORANDUM FOR Commander, Rock Island District

SUBJECT: Review Plan Approval for the Peoria Riverfront
Development-Lower Two Islands Ecosystem Restoration Project

1. References:

a. Memorandum, CEMVR-PM-M, 21 December 2012, subject:
Review Plan (RP) Approval for the Peoria Riverfront Development-
Lower Two Islands Ecosystem Restoration Project-(encl 1).

b. Memorandum, CEMVD-RB-T, 14 January 2013, subject:
Review Plan for the Peoria Riverfront Development-Lower Two
Islands Ecosystem Restoration Project(encl 2).

c. EC 1165-2-214, 15 December 2012, subject: Water
Resources Policies and Authorities, Civil Works Review.

2. The enclosed RP for the Peoria Riverfront Development - Lower
Two Islands Ecosystem Restoration Project has been prepared in
accordance with EC 1165-2-214. The RP has been coordinated with
the Upper District Support Team and the Business Technical
Division, who concurred with the plan in reference b. of the
enclosed memorandum.

3. I hereby approve this RP, which is subject to change as
circumstances require, consistent with study development under
the Project Management Business Process. Subsequent revisions to
this RP or its execution will require new written approval from
this office. Non-substantive changes to this RP do not require
further approval. The District should post the approved RP to
its web site.

4. The MVD point of contact is Mr. Gabe Harris, CEMVD-PD-SP,
(601) 634-5926.

2 Encls

EDWARD E. BELK, JR., P.E., SES
Director of Programs



REPLY TO
ATTENTION OF

DEPARTMENT OF THE ARMY
CORPS OF ENGINEERS, ROCK ISLAND DISTRICT
PO BOX 2004 CLOCK TOWER BUILDING
ROCK ISLAND, ILLINOIS 61204-2004

DEC 21 2012

CEMVR-PM-M

MEMORANDUM FOR Commander, US Army Corps of Engineers, Mississippi Valley Division
(CEMVD-PD-SP/William G. Harris), PO Box 80, 1400 Walnut Street, Vicksburg, Mississippi
39181-0080

SUBJECT: Review Plan (RP) for the *Peoria Riverfront Development – Lower Two Islands
Ecosystem Restoration Project*

1. The RP (Encl 1) and the RP Checklist for Implementation Documents (Encl 2) for the subject Project are submitted for your review and approval. The RP includes P&S and Construction (implementation product). Electronic copies of the RP and the RP Checklist for Implementation Documents have been sent to Mr. William (Gabe) Harris, CEMVD-PD-SP.

2. The points of contact are Mr. Jim Homann, Project Manager, (309)794-5704, or e-mail: james.d.homann@usace.army.mil or Mr. Henry DeHaan, IL 519 Program Manager, (309)794-5853, or e-mail: henry.c.dehaan@usace.army.mil.

Gary R Maden

for MARK J. DESCHENES
COL, EN
Commanding

Encls (2)
as

Encl 1

REVIEW PLAN

**PEORIA RIVERFRONT DEVELOPMENT
LOWER TWO ISLANDS
ECOSYSTEM RESTORATION**

ROCK ISLAND DISTRICT

DECEMBER 20, 2012



**US Army Corps
of Engineers®**

REVIEW PLAN

PEORIA RIVERFRONT DEVELOPMENT
LOWER TWO ISLANDS
ECOSYSTEM RESTORATION

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1. PURPOSE AND REQUIREMENTS

A. Purpose. This document outlines the Review Plan (RP) for the design and construction of the *Peoria Riverfront Development, Lower Two Islands Ecosystem Restoration* (Project). The Project was authorized by Section 1001 of the Water Resource Development Act (WRDA) of 2007, which authorizes the Secretary to construct in accordance with the plans, subject to the coordination, as described in *Peoria Riverfront Development, Illinois Feasibility Study with Integrated Environmental Assessment* as signed by the Chief of Engineers 28 July 2003.

The Peoria Riverfront Development items to be reviewed are:

- **Plans.** Illinois River Basin, River Mile (RM) 164.2–165.7, Peoria Riverfront Development, Lower Islands (Stages I, II, III), East Peoria, Tazewell County, Illinois
- **Specifications.** Illinois River Basin, RM 164.2–165.7, Peoria Riverfront Development, Lower Islands (Stages I, II, III), East Peoria, Tazewell County, Illinois

B. Applicability. This RP satisfies the project review requirements contained in Engineering Circular 1165-2-214, Water Resources Policies and Authorities, Civil Works Review, 15 Dec 2012

C. References

- 1) Engineering Circular (EC) 1165-2-214, Water Resources Policies and Authorities, Civil Works Review, 15 Dec 2012
- 2) Director of Civil Works' Policy Memorandum #1, CECW-P, dated 19 January 2011
- 3) EC 1105-2-412, Assuring Quality of Planning Models, 31 March 2010
- 4) Engineering Regulation (ER) 1110-1-12, Quality Management, 30 September 2006
- 5) ER 1105-2-100, Planning Guidance Notebook, Appendix H, Policy Compliance Review and Approval of Decision Documents, Amendment #1, 20 November 2007
- 6) *Peoria Riverfront Development, Illinois (Ecosystem Restoration) with Environmental Assessment, Feasibility Report* March 2003
- 7) Peoria Riverfront Development Lower Two Islands Project Management Plan (P2# 110606), April 2011, as revised, May 2012
- 8) Design Agreement between the Department of the Army and the State of Illinois – Department of Natural Resources, 28 May 2011
- 9) USACE Quality Management System
- 10) District Quality Control Review, April 2011
- 11) EC 1105-2-410, Review of Decision Documents, CECW-CP, 22 August 2008
- 12) Sections 2034 and 2035 of the Water Resources Development Act of 2007, (P.L. 110-114)
- 13) Memorandum dated 14 January 2011, Subject: MVD Agency Technical Review on Implementation Documents.
- 14) 03501-MVD. MSC Review of Planning Products
- 15) 08502-MVD. Review Plans for Technical Products, 06 May 2011

2. REVIEW MANAGEMENT ORGANIZATION (RMO) COORDINATION

The RMO is responsible for managing the overall peer review effort described in this RP. The RMO for this Project is the Mississippi Valley Division (MVD). The MVD will coordinate and approve the RP and manage the Agency Technical Review. The approved RP will be available to the public as a supplement to the Project Fact Sheet. The Project is an environmental restoration project that does not pose any significant threat to life-safety if the project were to fail; therefore an Independent External Peer Review Type II – Safety Assurance Review is not required.

Requirements. This RP was developed in accordance with EC 1165-2-214, which establishes an accountable, comprehensive, life-cycle review strategy for Civil Works products by providing a seamless process for review of all Civil Works projects from initial planning through design, construction, and Operation, Maintenance, Repair, Replacement and Rehabilitation. It provides the procedures for ensuring the quality and credibility of U.S. Army Corps of Engineers (USACE) decision, implementation, and operations and maintenance documents and work products. The EC outlines three levels of review: District Quality Control, Agency Technical Review, and Independent External Peer Review.

1) District Quality Control (DQC). DQC is an internal review of basic science and engineering work products focused on fulfilling the project quality requirements defined in the Project Management Plan (to which this RP will ultimately be appended). Basic quality control tools include a Quality Management Plan (QMP) providing for seamless review, quality checks and reviews, supervisory reviews, Project Delivery Team (PDT) reviews, etc. It is managed in the home district. Quality checks may be performed by staff responsible for the work, such as supervisors, work leaders, team leaders, designated individuals from the senior staff, or other qualified personnel. However, they should not be performed by the same people who performed the original work, including managing/reviewing the work in the case of contracted efforts. Additionally, the PDT is responsible for a complete reading of any reports and accompanying appendices prepared by or for the PDT to assure the overall coherence and integrity of the report, technical appendices, and the recommendations before approval by the District Commander. The Major Subordinate Command (MSC)/District Quality Management Plans address the conduct and documentation of this fundamental level of review.

2) Agency Technical Review (ATR). ATR is an in-depth review, managed within USACE, and conducted by a qualified team outside of the home district that is not involved in the day-to-day production of the project/product. The purpose of this review is to ensure the proper application of clearly established criteria, regulations, laws, codes, principles and professional practices. The ATR team reviews the various work products and assure that all the parts fit together in a coherent whole. ATR teams will be comprised of senior USACE personnel, preferably recognized subject matter experts with the appropriate technical expertise such as regional technical specialists (RTS), and may be supplemented by outside experts as appropriate. To assure independence, the leader of the ATR team shall be from outside the home MSC.

3) Independent External Peer Review (IEPR). IEPR is the most independent level of review, and is applied in cases that meet certain criteria where the risk and magnitude of the proposed project are such that a critical examination by a qualified team outside of USACE is warranted. For clarity, IEPR is divided into two types; Type I is generally for decision documents and Type II is generally for implementation documents.

A Type II IEPR Safety Assurance Review SAR) shall be conducted on design and construction activities for hurricane and storm risk management and flood risk management projects, as well as other projects where potential hazards pose a significant threat to human life. This applies to new projects and to the major repair, rehabilitation, replacement, or modification of existing facilities. External panels will review the design and construction activities prior to initiation of physical construction and periodically thereafter until construction activities are completed. The review shall be on a regular schedule sufficient to inform the Chief of Engineers on the adequacy, appropriateness, and acceptability of the design and construction activities for the purpose of assuring that good science, sound engineering, and public health, safety, and welfare are the most important factors that determine a project's fate.

3. PROJECT INFORMATION

A. Project Description. Section 1001 of WRDA 2007 authorized the construction of the Project. The goal of the project is to dredge various locations in Peoria Lake at various depths in order to restore aquatic habitat diversity. The plan also included using dredge material to construct islands to protect aquatic habitat structures and restore river island habitat.

B. General Site Description. The Project area includes the Lower Peoria Lake area watershed on the Illinois River and tributaries between (RM) 162 and 167, which is in the vicinity of Peoria, located on the west side of the Illinois River, and East Peoria, located on east side of the Illinois River. The Two Lower Islands will be constructed on approximately 144 acres in shallow open water in the middle of Lower Peoria Lake on the northern border of Tazewell County, Illinois, Township 26N, and Range 4W. This Project will be on the east side of the navigation channel from RM 164.5 to 165.5, which is downstream of the McCluggage Bridge (U.S. Highways 24 and 150). Figure 3.1 shows the Project location and vicinity map. The design team will remain flexible with the project design based on lessons learned from the Upper Mid-Sized Island construction project.

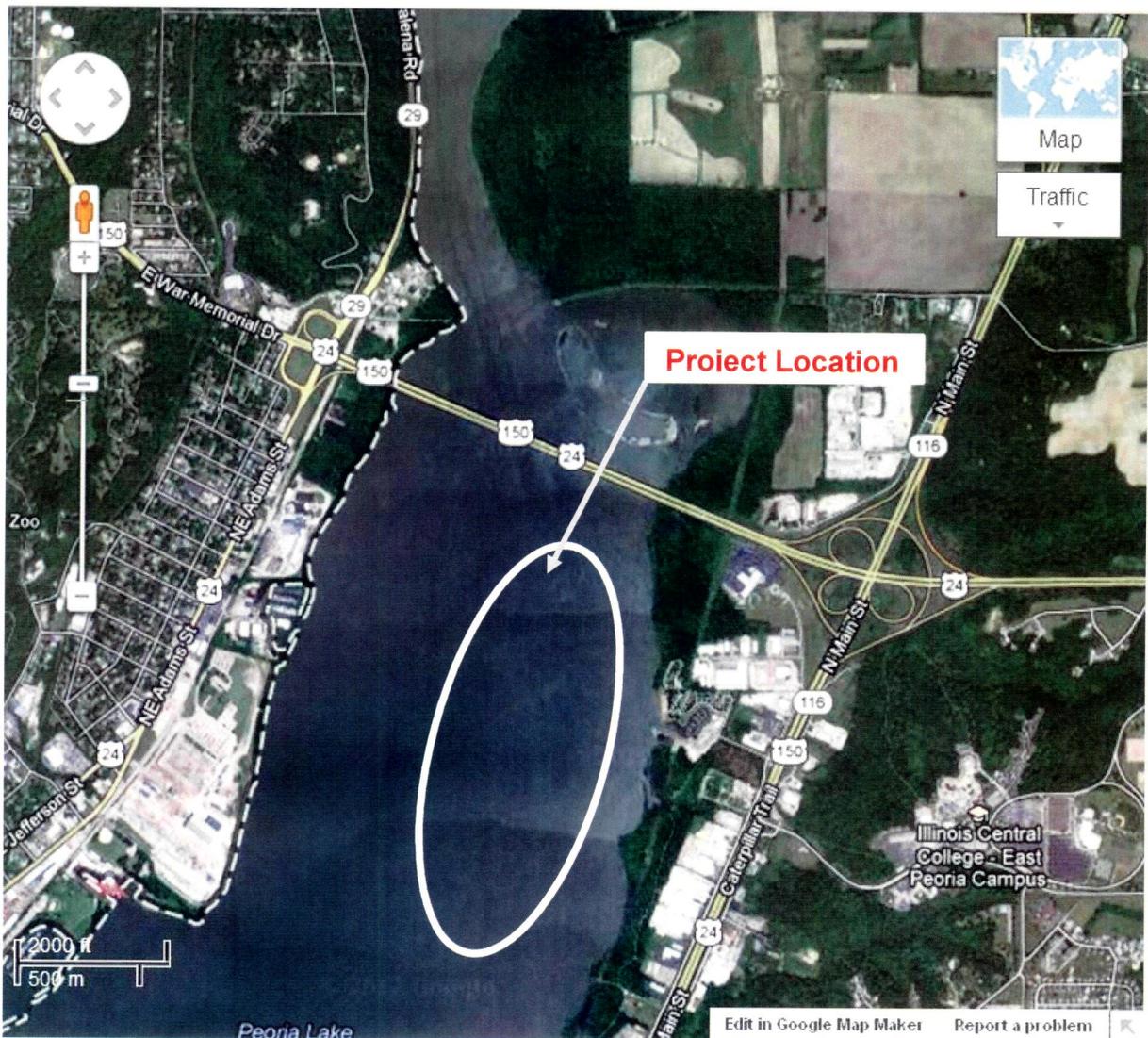


Figure 3.1 Peoria Riverfront Development Project Location Map

C. Recommended Plan. The recommended Project plan for the lower island stage includes dredging approximately 65 acres, including connecting channels and deeper holes to create depth diversity in the aquatic environment. The dredged material would be placed to create a pair of islands, 25 and 5 acres, which would add shoreline and terrestrial habitats and protect the newly restored aquatic habitats. A 3,700 foot flowing side channel between the two islands and rock jetties placed around the islands would further improve the aquatic habitat by providing structure and more edge areas. The Project would provide resting, nesting, and feeding areas for waterfowl and shorebirds and would reduce wave action in the Peoria Lake area enhancing and protecting aquatic habitat quality by lowering turbidity levels.

D. Factors Affecting the Scope and Level of Review. The Project design is not expected to rise to the level of complexity requiring extensive review. Project costs will be less than \$45 M. The Project does not pose a significant threat to human life and is not involved in storm or flood risk management. The public received an opportunity to comment on the Project during the feasibility phase and coordination efforts have continued with local stakeholders during design.

E. In-Kind Contributions. The Non-Federal Cost Share Sponsor for this Project is the State of Illinois-Department of Natural Resources. In-kind contributions will consist of LEERD credits and supplemental cash contributions.

4. DISTRICT QUALITY CONTROL REVIEW

All implementation documents (including supporting data, analyses, environmental compliance documents, etc.) shall undergo DQC. DQC is an internal review process of basic science and engineering work products focused on fulfilling the quality requirements defined in the Project Management Plan (PMP). The Rock Island District (MVR) will manage the DQC for the Project implementation documents. The review includes three sets of plans and specifications for three stages of construction. The DQC review will be conducted in accordance with the process outlined in the MVR PMP for the Project. In summary, the highlights of the DQC are:

- **Purpose:** Review of science and engineering work products
- **Managed By:** Design Manager
- **Performed By:** MVR Technical Team Members
- **Required For:** All work products, reports, evaluations, and assessments
- **Documentation:** DrChecks

The DQC will be completed in three phases to coincide with 3 stages of construction and will be complete in January 2013. Appropriation of construction funds is not anticipated in FY13; therefore, BCOE will not be scheduled until construction funds are appropriated.

5. AGENCY TECHNICAL REVIEW PLAN

A. General. ATR will be managed and performed outside of the MVR. There shall be appropriate coordination and processing through CoPs; relevant PCXs, and other relevant offices to ensure that a review team with appropriate independence and expertise is assembled and a cohesive and comprehensive review is accomplished. The ATR shall ensure that the product is consistent with established criteria, guidance, procedures, and policy. The ATR will assess whether the designs presented are technically correct and comply with published USACE guidance, and that the document explains the Project in a reasonably clear manner for construction. Members of the ATR team will be from outside the MVR.

B. Agency Technical Review Team (ATRT). The ATRT will be comprised of individuals that have not been involved in the development of the Plans and Specifications and will be chosen based on expertise, experience, and/or skills. The members will reflect the significant disciplines involved in the planning, engineering, design, and construction efforts. The ATRT members will be identified at the time the review is conducted and will be presented in Appendix B. General descriptions of ATR disciplines are as follows:

- **Geotechnical:** Team member will be experienced in the geotechnical field with knowledge in environmental projects.
- **Civil / Site:** Team member will have experience in dredging and material placement and knowledge of ecosystem enhancement projects.
- **Construction:** Team member will be experienced in construction methods and knowledge of construction for ecological purposes.
- **Hydraulics:** Team member will be experienced in civil works and related environmental projects and have an understanding of habitat unit evaluations.
- **Environmental:** Team member will be experienced in National Environmental Policy Act (NEPA) process and analysis, and have a biological or environmental background.

Other disciplines/functions involved in the Project included as needed with similar general experience and educational requirements.

C. Communication. The communication plan for the ATR is as follows:

1) The team will use DrChecks to document the ATR process. The Project Manager/Project Engineer will facilitate the creation of a project portfolio in the system to allow access by all PDT and ATRT members. An electronic version of the Plans and Specifications and any other significant and relevant information shall be provided to the ATRT at least one business day prior to the start of the comment period.

2) The PDT shall send the ATR Leader one hard copy of the Plans and Specifications and members shall download and print individual documents as necessary.

3) The PDT shall host an ATR kick-off meeting virtually or on-site to orient the ATRT during the first week of the comment period. If funds are not available for an on-site meeting, the PDT shall coordinate a virtual presentation meeting or at a minimum provide a presentation about the project, including photos of the site, for the team.

4) The ATR Leader shall ensure all responses have been entered into DrChecks and conduct a briefing to summarize comment responses to highlight any areas of disagreement.

5) A revised electronic version of all documents with comments incorporated shall be provided for use during back checking of the comments.

6) PDT members shall contact ATRT members or ATR Leader as appropriate to seek clarification of a comment's intent or provide clarification of information in the report. Discussions shall occur outside of DrChecks but a summary of discussions may be provided in the system.

7) Reviewers will be encouraged to contact PDT members directly via email or phone to clarify any confusion. DrChecks shall not be used to post questions needed for clarification.

D. Funding.

1) The PDT district shall provide labor funding by cross charge labor codes. Funding for travel, if needed, will be provided. The Project Manager/Project Engineer will work with the ATR Leader to ensure that adequate funding is available and is commensurate with the level of review needed. The current cost estimate for this review is \$50,000 (3 construction phases of Plans and Specifications). Any funding shortages will be negotiated on a case by case basis and in advance of a negative charge occurring.

2) The ATR Leader shall provide organization codes for each team members and a responsible financial point of contact (CEFMS responsible employee) for creation of labor codes.

3) Reviewers shall monitor individual labor code balances and alert the ATR Leader to any possible funding shortages.

E. Timing and Schedule.

1) Throughout the development of this product, the PDT will conduct seamless review to ensure project quality.

2) The ATR will be conducted on plans and specifications after the completion of DQC Review.

3) The PDT will hold a “page-turn” session to review the plans and specifications to ensure consistency across the disciplines and resolve any issues prior to the start of ATR.

4) The ATR process for these documents will follow the following timeline. The ATR of the plans and specifications is scheduled during the first and second quarter of FY 2013. All products produced for these milestones will be reviewed.

ATR Timeline

Task	Date
Stage I Comment Period Begin	03 Dec 2012
Kickoff Meeting	03 Dec 2012
Stage I ATR Comments Due	14 Dec 2012
Stage I PDT Responses Due	28 Dec 2012
Stage II Comment Period Begins	28 Dec 2012
Stage I Responses Backcheck	10 Jan 2013
Stage II ATR Comments Due	18 Jan 2013
Stage II PDT Responses Due	30 Jan 2013
Stage III Comment Period Begins	31 Jan 2013
Stage II Responses Backcheck	08 Feb 2013
Stage III ATR Comments Due	14 Feb 2013
Stage III PDT Responses Due	21 Feb 2013
Stage III Responses Backcheck	01 Mar 2013
Certification	05 Mar 2013

F. Review.

1) ATRT responsibilities are as follows:

a) Reviewers shall review the documents to confirm that work was done in accordance with established professional principles, practices, codes, and criteria and for compliance with laws and policy. Comments shall be submitted into DrChecks.

b) Reviewers shall pay particular attention to one’s discipline but may also comment on other

aspects as appropriate. Reviewers that do not have any significant comments pertaining to their assigned discipline shall provide a comment stating this.

c) Grammatical and editorial comments shall not be submitted into Dr Checks. Comments should be submitted to the ATR Leader via electronic mail or as a hard copy mark-up. The ATR Leader shall provide these comments to the Project Engineer.

d) Review comments shall contain these principal elements:

- a clear statement of the concern
- the basis for the concern, such as law, policy, or guidance
- significance for the concern
- specific actions needed to resolve the comment

e) The “Critical” comment flag in Dr Checks shall not be used unless the comment is discussed with the ATR Leader and/or the Project Engineer first.

2) PDT responsibilities are as follows:

a) The PDT shall review comments provided by the ATRT in Dr Checks and provide responses to each comment using “*Concur*, Non-Concur” or “For Information”. *Concur* responses shall state what action was taken and provide revised text from the documents if applicable. *Non-Concur* responses shall state the basis for the disagreement or clarification of the concern and suggest actions to negotiate the closure of the comment.

b) PDT members shall discuss any “non-Concur” responses prior to submission with the PDT and ATRT Leader.

G. Resolution.

1) Reviewers shall back check PDT responses to the review comments and either close the comment or attempt to resolve any disagreements. Conference calls shall be used to resolve any conflicting comments and responses.

2) A reviewer may close a comment if the comment is addressed and resolved by the response, or if the reviewer determines that the comment was not a valid technical comment as a result of a rebuttal, clarification, or additional information, or because the comment was advisory, primarily based on individual judgment or opinion, or editorial. If reviewer and responder cannot resolve a comment, it should be brought to the attention of the ATR Leader and, if not resolved by the ATR Leader, it should be brought to the attention of the Engineering Chief who will need to sign the certification. ATRT members shall keep the ATR Leader informed of problematic comments.

6. INDEPENDENT EXTERNAL PEER REVIEW PLAN

This restoration Project is a specifically-authorized environmental restoration project aimed at restoring Peoria Lake on the Illinois River Basin. The Project cost does not exceed \$45 million; there is no significant threat to human life; a review is neither requested by a State Governor of an affected state nor by the head of a Federal or state agency charged with reviewing the project; there is no significant public dispute regarding the economic or environmental cost or benefit of the project; the design is not based on novel methods or present complex challenges for interpretation, or contain precedent-setting methods or models, or present conclusions that are likely to change prevailing practices; preparation of the Environmental Assessment was completed as part of the feasibility report and an Environmental Impact Statement (EIS) was not required; therefore, this Project does not meet the IEPR requirements outlined in the Circular.

A. IEPR Type I. IEPR reviews may be required on USACE projects for both the decision (feasibility) and implementation (plans and specifications) documents. IEPR Type I reviews are conducted on decision documents and as the *Peoria Riverfront Development Project Feasibility Report* was fully approved under pre-EC-1165-2-214 review policies, a Type I review was not conducted on the feasibility decision document as part of the approval process in 2008 and is not applicable to this RP.

B. IEPR Type II – SAR. IEPR Type II, or SAR, reviews are conducted on implementation documents for projects where potential hazards created by the Project pose a significant threat to human life, the EC 1165-2-214 review policy requirement for conducting an SAR is mandatory. It is recommended that a Type II IEPR is not required. Denny Lundberg, MVR Chief of Engineering and Construction has signed a Memorandum for Record. Concurrence was also received by MVD chief of the Business Technical Division Bob Fitzgerald. The Memorandum for Record documentation is located in Appendix C.

7. POLICY AND LEGAL COMPLIANCE REVIEW

USACE projects are reviewed throughout the Project process for their compliance with law and policy. Guidance for policy and legal compliance reviews is addressed in Appendix H, ER 1105-2-100. These reviews culminate in determinations that the recommendations in the reports and the supporting analyses and coordination comply with law and policy, and warrant approval or further recommendation to higher authority by the MVD Commander. DQC and ATR augment and complement the policy review processes by addressing compliance with pertinent published Army policies, particularly policies on analytical methods and the presentation of findings in decision documents. The Project plans and specification implementation documents will complete a policy and legal compliance review as part of DQC and ATR.

8. REVIEW PLAN APPROVAL AND UPDATES

MVD is responsible for approving this RP. The RP is a living document and may change as the Project progresses. The District is responsible for keeping the RP up to date. Changes to the RP since the last MVD approval are documented in Appendix D, *Review Plan Revisions*. Significant changes to the RP (such as changes to the scope and/or level of review) should be reapproved by MVD following the process used for initially approving the plan. Significant changes may result in MVD determining that use of the 08502-MVD Review Plans for Technical Products is no longer appropriate. In these cases, a project-specific RP process will be prepared and approved in accordance with EC 1165-2-214. The approved RP will be available to the public as a supplement to the Project Fact Sheet.

9. PUBLIC PARTICIPATION AND REVIEW PLAN POINT-OF-CONTACT

Public questions and/or comments on this RP can be directed to the following point-of-contact:

- Jim Homann, Project Manager, CEMVR-PM-M, (309)794-5704, or e-mail: james.d.homann@usace.army.mil

APPENDIX A: PLANS AND SPECIFICATIONS

Project Delivery Team

Name	Role	Phone	Email
Henry De Haan	IL 519 Program Manager	309-794-5853	Henry.C.DeHaan@usace.army.mil
James Homann	Project Manager	309-794-5704	James.D.Homann@usace.army.mil
Marshall Plumley	Planner	309-794-5447	Marshall.B.Plumley@usace.army.mil
Anthony Heddleston	Environmental Engineer	309-794-5886	Anthony.D.Heddleston@usace.army.mil
Randall Kraciun	Biologist	309-794-5174	Randall.J.Kraciun@usace.army.mil
Thomas Kirkeeng	Hydraulic Engineer	309-794-5433	Thomas.A.Kirkeeng@usace.army.mil
Jason Appel	Real Estate Specialist	309-794-5489	Jason.C.Appel@usace.army.mil
	Contracting Officer		
James Ross	Cultural Resources	309-794-5540	James.S.Ross@usace.army.mil
Jody Schmitz	Specifications	309-794-5300	Jody.S.Schmitz@usace.army.mil
Garrett Mattila	Cost Engineer	309-794-5524	Garret.P.Mattila@usace.army.mil
Felix Castro	Geotechnical Engineer	309-794-5716	Felix.R.Castro@usace.army.mil
Jack McDaniel	Value Engineer	309-794-5452	Jack.McDaniel@usace.army.mil
DeWayne Diestelhorst	Construction	309-637-1321	DeWayne.D.Deistelhorst@usace.army.mil
Michael Edwards	Construction	309-794-5182	Michael.W.Edwards@usace.army.mil
Marc Miller	Customer – IL DNR	217-785-0075	Marc.Miller@illinois.gov
Debbie Bruce	Customer – IL DNR	217-782-6424	Debbie.Bruce@illinois.gov
Arthur Neal	Customer – IL DNR	217-785-4847	Arthur.Neal@Illinois.gov
	Customer - USFWS		

Agency Technical Review Team

Name	Discipline	Phone	Email
Jon Hendrickson	ATR Leader	651-290-5634	Jon.S.Hendrickson@usace.army.mil
Greg Fischer	Civil	651-290-5464	Russell.G.Fischer@usace.army.mil
Paul Madison	Geotechnical/Civil	651-290-5601	Paul.D.Madison@usace.army.mil
Scott Baker	Construction	651-290-5867	Scott.L.Baker@usace.army.mil
Elliott Stefanik	Environmental	651-290-5260	Elliott.L.Stefanik@usace.army.mil

Vertical Team

Name	Discipline	Phone	Email
Gabe Harris	District Support Team Lead	601-634-5926	Gabe.Harris@usace.army.mil

Planning Center Of Expertise, Ecosystem Planning

Name	Discipline	Phone	Email
Jodi K. Staebell	Program Manager, PCX Ecosystem Planning	309-794-448	Jodi.K.Staebell@usace.army.mil

APPENDIX B: ACRONYMS AND ABBREVIATIONS

Term	Definition
ASA(CW)	Assistant Secretary of the Army for Civil Works
ATR	Agency Technical Review
ATRT	Agency Technical Review Team
DQC	District Quality Control
DST	District Support Team
DX	Directory of Expertise
EA	Environmental Assessment
EC	Engineer Circular
EIS	Environmental Impact Statement
EO	Executive Order
ER	Engineer Regulation
FRM	Flood Risk Management
IEPR	Independent External Peer Review
HEP	Habitat Evaluation Procedures
HSI	Habitat Sustainability Index

Term	Definition
ITR	Independent Technical Review
MSC	Major Subordinate Command
MVD	Mississippi Valley Division
NEPA	National Environmental Policy Act
OEO	Outside Eligible Organization
PCoP	Planning Community of Practice
PCX	Planning Center of Expertise
PDT	Project Delivery Team
PL	Public Law
QMP	Quality Management Plan
QC	Quality Control
QM	Quality Management
RIT	Regional Integration Team
RTS	Regional Technical Specialist
SPD	South Pacific Division

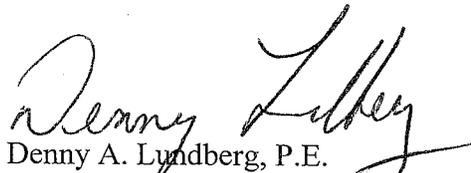
CEMVR-EC-D

MEMORANDUM THRU EC
FOR PM-M

SUBJECT: Peoria Riverfront Development Lower Two Islands Ecosystem Restoration, Type II IEPR Determination/APPENDIX C

1. Purpose: The purpose of this memorandum is to document the decision process and final determination of whether a Type II Independent External Peer Review is required for the subject project in accordance with USACE Civil Works Policy EC 1165-2-209, dated 31 Jan 2010. Paragraph 1 a. of Appendix E of EC 1165 -2 -209 requires type II IEPR be conducted for hurricane and storm risk management and flood risks management projects, as well as other projects where potential hazards pose a significant threat to human life.
2. Background: The Peoria Riverfront Development project is a specifically authorized ecosystem restoration project. The primary purpose of the Peoria Riverfront Development project is to dredge various locations in Peoria Lake at various depths in order to restore aquatic habitat diversity. Connecting channels are included to control future sediment movements. The plan also included using dredged material to construct islands to restore terrestrial habitat and aquatic habitat structure.
3. Risk Assessment. A qualitative risk assessment was performed to understand the probabilities and consequences of a project failure for during construction and post construction phase.
 - a. During Construction. The project involves dredging at off channel locations within Peoria Lake and construction of an island and a breakwater using geotextile containers. The containers will form the island perimeter and will then be filled with additional material. Riprap will be used to protect textile bags from damage and to create jetties for additional aquatic habitat. The design and specified construction sequencing reflect sufficient factors of safety to minimize the potential of failure during construction. The design and methods of construction are of standard practice in the industry and will not present unique challenges to a qualified contractor. Lessons learned from previous contracts at Peoria Riverfront Development Upper Island have been incorporated into this project. Contractor qualifications will be insured by the use of contracting acquisition methods. In the event a failure does occur during construction, the consequences will be minimal as the result of sediment movement. The resulting consequences will not pose a significant threat to human life.
 - b. After Construction. The probability of failure after the project is complete is unlikely. In the event a failure does occur after construction, the consequences will be minimal as sediment displacement occurs, and will not pose a significant threat to human life. The materials and method of construction are robust, resilient and redundant and minimize potential consequences
4. Conclusion. The subject project is not a hurricane and storm risk management or a flood risk management project; there is no significant threat to human life; the construction is conventional;

and the construction sequence does not involve design build or early contractor involvement. These factors support the determination that a Type II IEPR is not required.

A handwritten signature in black ink, appearing to read "Denny Lundberg". The signature is fluid and cursive, with the first name "Denny" and last name "Lundberg" clearly distinguishable.

Denny A. Lundberg, P.E.
Chief, Engineering & Construction Division

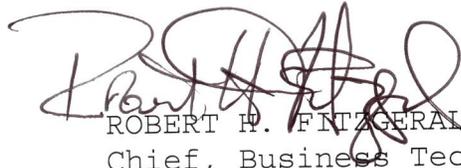
APPENDIX D: REVISIONS

Revision Date	Description of Change	Page/Paragraph Number
20 December 2012	Original	

MEMORANDUM FOR CEMVD-PD-SP (Charles Barton)

SUBJECT: Review Plan for the Peoria Riverfront
Development - Lower Two Islands Ecosystem Restoration Project

1. Reference memorandum, CEMVR-PM-M, 21 December 2012, subject as above.
2. This office concurs with subject Review Plan recommendations, however, future submissions should not list Agency Technical Review team members. The task of assigning these team members is reserved for the MSC staff. In addition, deadlines for reviews, at any level, should not be set to occur prior to approval of the Review Plan.
3. The RB-T point of contact is Mr. Will Bradley, 601-634-5644.


ROBERT H. FITZGERALD, P.E.
Chief, Business Technical
Division

Review Plan Checklist

For Implementation Documents

Date: 12/20/2012

Originating District: Rock Island District

Project/Study Title: Peoria Riverfront Development

District POC: Jim Homann, Project Manager, 309-794-5704

Please fill out this checklist and submit with the draft Review Plan when coordinating with the appropriate RMO. For DQC, the District is the RMO; for ATR of Dam and Levee Safety Studies, the Risk Management Center is the RMO; and for non-Dam and Levee Safety projects and other work products, MSC is the RMO; for Type II IEPR, the Risk Management Center is the RMO. Any evaluation boxes checked 'No' indicate the RP possibly may not comply with EC 1165-2-214 and should be explained. Additional coordination and issue resolution may be required prior to MSC approval of the Review Plan.

REQUIREMENT	REFERENCE	EVALUATION
1. Is the Review Plan (RP) a stand alone document?	EC 1165-2-214, Appendix B Para 4a	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
a. Does it include a cover page identifying it as a RP and listing the project/study title, originating district or office, and date of the plan?		a. Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
b. Does it include a table of contents?		b. Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
c. Is the purpose of the RP clearly stated and EC 1165-2-214 referenced?	EC 1165-2-214 Para 7a	c. Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
d. Does it reference the Project Management Plan (PMP) of which the RP is a component including P2 Project #?	EC 1165-2-214 Para 7a (2)	d. Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
e. Does it include a paragraph stating the title, subject, and purpose of the work product to be reviewed?	EC 1165-2-214 Appendix B Para 4a	e. Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
f. Does it list the names and disciplines in the home district, MSC and RMO to whom inquiries about the plan may be directed?*	EC 1165-2-214, Appendix B, Para 4a	f. Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
<p><i>*Note: It is highly recommended to put all team member names and contact information in an appendix for easy updating as team members change or the RP is updated.</i></p>		

<p>2. Documentation of risk-informed decisions on which levels of review are appropriate.</p>	<p>EC 1165-2-214, Appendix B, Para 4b</p>	<p>Yes <input checked="" type="checkbox"/> No <input type="checkbox"/></p>
<p>a. Does it succinctly describe the three levels of peer review: District Quality Control (DQC), Agency Technical Review (ATR), and Independent External Peer Review (IEPR)?</p> <p>b. Does it contain a summary of the CW implementation products required?</p> <p>c. DQC is always required. The RP will need to address the following questions:</p> <p>i. Does it state that DQC will be managed by the home district in accordance with the Major Subordinate Command (MSC) and district Quality Management Plans?</p> <p>ii. Does it list the DQC activities (i.e., 30, 60, 90, BCOE reviews, etc)</p> <p>iii. Does it list the review teams who will perform the DQC activities?</p> <p>iv. Does it provide tasks and related resource, funding and schedule showing when the DQC activities will be performed?</p> <p>d. Does it assume an ATR is required and if an ATR is not required does it provide a risk based decision of why it is not required? If an ATR is required the RP will need to address the following:</p> <p>i. Does it identify the ATR District, MSC, and RMO points of contact?</p> <p>ii. Does it identify the ATR lead from outside the home MSC?</p> <p>iii. Does it provide a succinct description of the primary disciplines or expertise needed for the review (not simply a list of disciplines)? If the reviewers are listed by name, does the RP describe the qualifications and years of relevant experience of the ATR team members?*</p>	<p>EC 1165-2-214 7a</p> <p>EC1165-2-214 Para 15</p> <p>EC1165-2-214 Para 15a</p> <p>EC1165-2-214 Para 8a</p> <p>EC 1165-2-214 Appendix B (1)</p> <p>EC 1165-2-214 Appendix B, 4g</p> <p>EC 1165-2-214 Appendix B Para 4c</p> <p>EC1165-2-214 Para 15a</p> <p>EC 1165-2-214 Para 7a</p> <p>EC 1165-2-214 Para 9c</p> <p>EC 1165-2-214 Appendix B 4g</p>	<p>a. Yes <input checked="" type="checkbox"/> No <input type="checkbox"/></p> <p>b. Yes <input checked="" type="checkbox"/> No <input type="checkbox"/></p> <p>i. Yes <input checked="" type="checkbox"/> No <input type="checkbox"/></p> <p>ii. Yes <input checked="" type="checkbox"/> No <input type="checkbox"/></p> <p>iii. Yes <input checked="" type="checkbox"/> No <input type="checkbox"/></p> <p>iv. Yes <input checked="" type="checkbox"/> No <input type="checkbox"/></p> <p>d. Yes <input checked="" type="checkbox"/> No <input type="checkbox"/></p> <p>i. Yes <input checked="" type="checkbox"/> No <input type="checkbox"/></p> <p>ii. Yes <input checked="" type="checkbox"/> No <input type="checkbox"/></p> <p>iii. Yes <input checked="" type="checkbox"/> No <input type="checkbox"/></p>

<p>iv. Does it provide tasks and related resource, funding and schedule showing when the ATR activities will be performed?</p> <p>v. Does the RP address the requirement to document ATR comments using Dr Checks?</p>	<p>EC 1165-2-214 Appendix C Para 3e</p> <p>EC 1165-2-214 Para 7d (1)</p>	<p>iv. Yes <input checked="" type="checkbox"/> No <input type="checkbox"/></p> <p>v. Yes <input checked="" type="checkbox"/> No <input type="checkbox"/></p>
<p><i>*Note: It is highly recommended to put all team member names and contact information in an appendix for easy updating as team members change or the RP is updated.</i></p>		
<p>e. Does it assume a Type II IEPR is required and if a Type II IEPR is not required does it provide a risk based decision of why it is not required including RMC/ MSC concurrence? If a Type II IEPR is required the RP will need to address the following questions:</p>	<p>EC1165-2-214 Para 15a</p>	<p>e. Yes <input checked="" type="checkbox"/> No <input type="checkbox"/></p> <p>(Type II IEPR not required for this project)</p>
<p>i. Does it provide a defensible rationale for the decision on Type II IEPR?</p>	<p>EC 1165-2-214 Para 7a</p>	<p>i. Yes <input type="checkbox"/> No <input checked="" type="checkbox"/></p>
<p>ii. Does it identify the Type II IEPR District, MSC, and RMO points of contact?</p>	<p>EC 1165-2-214 Appendix B Para 4a</p>	<p>ii. Yes <input type="checkbox"/> No <input checked="" type="checkbox"/></p>
<p>iii. Does it state that for a Type II IEPR, it will be contracted with an A/E contractor or arranged with another government agency to manage external to the Corps of Engineers?</p>	<p>EC 1165-2-214 Appendix B Para 4k (4)</p>	<p>iii. Yes <input type="checkbox"/> No <input checked="" type="checkbox"/></p>
<p>iv. Does it state for a Type II IEPR, that the selection of IEPR review panel members will be made up of independent, recognized experts from outside of the USACE in the appropriate disciplines, representing a balance of expertise suitable for the review being conducted?</p>	<p>EC 1165-2-214 Appendix B, Para 4k(1) & Appendix E, Para 1a & 7</p>	<p>iv. Yes <input type="checkbox"/> No <input checked="" type="checkbox"/></p>
<p>v. Does it state for a Type II IEPR, that the selection of IEPR review panel members will be selected using the National Academy of Science (NAS) Policy which sets the standard for "independence" in the review process?</p>	<p>EC 1165-2-214 Para 6b (4) and Para 10b</p>	<p>v. Yes <input type="checkbox"/> No <input checked="" type="checkbox"/></p>

<p>vi. If the Type II IEPR panel is established by USACE, has local (i.e. District) counsel reviewed the Type II IEPR execution for FACA requirements?</p> <p>vii. Does it provide tasks and related resource, funding and schedule showing when the Type II IEPR activities will be performed?</p> <p>viii. Does the project address hurricane and storm risk management or flood risk management or any other aspects where Federal action is justified by life safety or significant threat to human life?</p> <p><i>Is it likely? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/></i> <i>If yes, Type II IEPR must be addressed.</i></p> <p>ix. Does the RP address Type II IEPR factors?</p> <p>Factors to be considered include:</p> <ul style="list-style-type: none"> • Does the project involve the use of innovative materials or techniques where the engineering is based on novel methods, presents complex challenges for interpretations, contains precedent setting methods or models, or presents conclusions that are likely to change prevailing practices? • Does the project design require redundancy, resiliency and robustness • Does the project have unique construction sequencing or a reduced or overlapping design construction schedule; for example, significant project features accomplished using the Design-Build or Early Contractor Involvement (ECI) delivery systems. <p><i>Is it likely? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/></i> <i>If yes, Type II IEPR must be addressed.</i></p> <p>Does it address policy compliance and legal review? If no, does it provide a risk based decision of why it is not required?</p>	<p>EC1165-2-214 Appendix E, Para 7c(1)</p> <p>EC1165-2-214 Appendix E, Para 5a</p> <p>EC1165-2-214 Appendix E Para 2</p> <p>EC 1165-2-214 Para 14</p>	<p>vi. Yes <input type="checkbox"/> No <input checked="" type="checkbox"/></p> <p>vii. Yes <input type="checkbox"/> No <input checked="" type="checkbox"/></p> <p>viii. Yes <input type="checkbox"/> No <input checked="" type="checkbox"/></p> <p>ix. Yes <input checked="" type="checkbox"/> No <input type="checkbox"/></p> <p>g. Yes <input checked="" type="checkbox"/> No <input type="checkbox"/></p>
<p>3. Does the RP present the tasks, timing, and sequence of the reviews (including deferrals)?</p>	<p>EC 1165-2-214, Appendix B, Para 4c</p>	<p>Yes <input checked="" type="checkbox"/> No <input type="checkbox"/></p>

<p>a. Does it provide and overall review schedule that shows timing and sequence of all reviews?</p> <p>b. Does the review plan establish a milestone schedule aligned with the critical features of the project design and construction</p>	<p>EC 1165-2-214, Appendix C, Para 3g</p> <p>EC 1165-2-214, Appendix E, Para 6c</p>	<p>a. Yes <input checked="" type="checkbox"/> No <input type="checkbox"/></p> <p>b. Yes <input checked="" type="checkbox"/> No <input type="checkbox"/></p>
<p>4. Does the RP address engineering model certification requirements?</p>	<p>EC 1165-2-214, Appendix B, Para 4i</p>	<p>N/A</p>
<p>a. Does it list the models and data anticipated to be used in developing recommendations?</p> <p>b. Does it indicate the certification /approval status of those models and if certification or approval of any model(s) will be needed?</p> <p>c. If needed, does the RP propose the appropriate level of certification??? /approval for the model(s) and how it will be accomplished?</p>		<p>a. N/A</p> <p>b. N/A</p> <p>c. N/A</p>
<p>5. Does the RP explain how and when there will be opportunities for the public to comment on the study or project to be reviewed?</p>	<p>EC 1165-2-214, Appendix B, Para 4d</p>	<p>Yes <input checked="" type="checkbox"/> No <input type="checkbox"/></p>
<p>a. Does it discuss posting the RP on the District website?</p> <p>b. Does it indicate the web address, and schedule and duration of the posting?</p>		<p>a. Yes <input checked="" type="checkbox"/> No <input type="checkbox"/></p> <p>b. Yes <input checked="" type="checkbox"/> No <input type="checkbox"/></p>
<p>6. Does the RP explain when significant and relevant public comments will be provided to the reviewers before they conduct their review?</p>	<p>EC 1165-2-214, Appendix B, Para 4e</p>	<p>Yes <input checked="" type="checkbox"/> No <input type="checkbox"/></p>
<p>a. Does it discuss the schedule of receiving public comments?</p> <p>b. Does it discuss the schedule of when significant comments will be provided to the reviewers?</p>		<p>a. Yes <input checked="" type="checkbox"/> No <input type="checkbox"/></p> <p>b. Yes <input checked="" type="checkbox"/> No <input type="checkbox"/></p>
<p>7. Does the RP address whether the public, including scientific or professional societies, will be asked to nominate professional reviewers?*</p>	<p>EC 1165-2-214, Appendix B, Para 4h</p>	<p>Yes <input type="checkbox"/> No <input checked="" type="checkbox"/></p>

<p>a. If the public is asked to nominate professional reviewers then does the RP provide a description of the requirements and answer who, what, when, where, and how questions?</p> <p>* Typically the public will not be asked to nominate potential reviewers</p>		a. N/A
<p>8. Does the RP address expected in-kind contributions to be provided by the sponsor?</p>	EC 1165-2-214, Appendix B, Para 4j	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
<p>a. If expected in-kind contributions are to be provided by the sponsor, does the RP list the expected in-kind contributions to be provided by the sponsor?</p>		a. Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
<p>9. Does the RP explain how the reviews will be documented?</p> <p>a. Does the RP address the requirement to document ATR comments using Dr Checks and Type II IEPR published comments and responses pertaining to the design and construction activities summarized in a report reviewed and approved by the MSC and posted on the home district website?</p> <p>b. Does the RP explain how the Type II IEPR will be documented in a Review Report?</p> <p>c. Does the RP document how written responses to the Type II IEPR Review Report will be prepared?</p> <p>d. Does the RP detail how the district/PCX/MSD and CECW-CP will disseminate the final Type II IEPR Review Report, USACE response, and all other materials related to the Type II IEPR on the internet?</p>	<p>EC 1165-2-214, Para 7d</p> <p>EC 1165-2-214 Appendix B Para 4k (14)</p> <p>EC 1165-2-214 Appendix B Para 4k (14)</p> <p>EC 1165-2-214 Appendix B Para 5</p>	<p>Yes <input checked="" type="checkbox"/> No <input type="checkbox"/></p> <p>a. Yes <input checked="" type="checkbox"/> No <input type="checkbox"/></p> <p>b. N/A</p> <p>c. N/A</p> <p>d. N/A</p>
<p>10. Has the approval memorandum been prepared and does it accompany the RP?</p>	EC 1165-2-214, Appendix B, Para 7	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>