

## DEPARTMENT OF THE ARMY

NORTH ATLANTIC DIVISION, US ARMY CORPS OF ENGINEERS FORT HAMILTON MILITARY COMMUNITY BROOKLYN, NEW YORK 11252-6700

**CENAD-PD-PP** 

DEC 1 4 2012

MEMORANDUM FOR Commander, New York District, ATTN: CENAN-PL

SUBJECT: Review Plan Approval for Hudson-Raritan Estuary, Lower Passaic River, New Jersey Feasibility Report

- 1. The attached Review Plan for the subject study has been prepared in accordance with EC 1165-2-209, Civil Works Review Policy.
- 2. The Review Plan has been coordinated with the Ecosystem Planning Center of Expertise of the Mississippi Valley Division, which is the lead office to execute this plan. For further information, contact Ms. Jodi Creswell at 309-794-5448. The Review Plan includes independent external peer review.
- 3. I hereby approve this Review Plan, which is subject to change as study circumstances require, consistent with study development under the Project Management Business Process. Subsequent revisions to this Review Plan or its execution will require new written approval from this office.

Encl

KENT D. SAVRE Colonel, EN

Commanding

# **REVIEW PLAN**

# Hudson-Raritan Estuary, Lower Passaic River, New Jersey Feasibility Report

**New York District** 

MSC Approval Date: <u>August 2007</u>
Last Revision Date: <u>November 2012</u>



## **REVIEW PLAN**

# Hudson-Raritan Estuary, Lower Passaic River, New Jersey Feasibility Report

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#### 1. PURPOSE AND REQUIREMENTS

**a. Purpose.** This Review Plan defines the scope and level of peer review for the HRE-Lower Passaic Ecosystem Restoration Feasibility Report.

#### b. References

- Engineering Circular (EC) 1165-2-209, Civil Works Review Policy, Change 1, 31 Jan 2012
- EC 1105-2-412, Assuring Quality of Planning Models, 31 Mar 2011
- Engineering Regulation (ER) 1110-1-12, Quality Management, 30 Sep 2006
- ER 1105-2-100, Planning Guidance Notebook, Appendix H, Policy Compliance Review and Approval of Decision Documents, Amendment #1, 20 Nov 2007
- PMP for study, November 2003
- New York District Quality Management Plan
- c. Requirements. This review plan was developed in accordance with EC 1165-2-209, 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 (OMRR&R). The EC outlines four general levels of review: District Quality Control/Quality Assurance (DQC), Agency Technical Review (ATR), Independent External Peer Review (IEPR), and Policy and Legal Compliance Review. In addition to these levels of review, decision documents are subject to cost engineering review and certification (per EC 1165-2-209) and planning model certification/approval (per EC 1105-2-412).

## 2. REVIEW MANAGEMENT ORGANIZATION (RMO) COORDINATION

The RMO is responsible for managing the overall peer review effort described in this Review Plan. The RMO for decision documents is typically either a Planning Center of Expertise (PCX) or the Risk Management Center (RMC), depending on the primary purpose of the decision document. The RMO for the peer review effort described in this Review Plan is the Ecosystem Restoration PCX at Mississippi Valley Division (MVD).

The RMO will coordinate with the Cost Engineering Directory of Expertise (DX) to ensure the appropriate expertise is included on the review teams to assess the adequacy of cost estimates, construction schedules and contingencies.

#### 3. STUDY INFORMATION

- a. Decision Document. The study is the HRE-Lower Passaic, NJ, Feasibility Report. The purpose of the Feasibility Report is to document project evaluations and facilitate acceptance of the study conclusions and recommendations by the sponsor, public, state and local agencies, and the Federal government. The study will recommend implementation of ecosystem restoration opportunities at multiple sites within the Lower Passaic River Basin in response to the study authority. Following headquarters approval, the next step is Congressional authorization for implementation. The Feasibility Report will be accompanied by an Environmental Assessment.
- b. Study/Project Description. The study area is broadly situated within the Hudson Raritan Estuary, an estuary of national significance. The Study Area for the Lower Passaic River, NJ, is located in the New Jersey counties of Essex, Bergen, Hudson, and Passaic. The seventeen-mile study area is bounded to the south by Newark Bay and to the north by the Dundee Dam. The Lower Passaic River is a federally authorized navigation channel; however it has not been maintained to the authorized depth since the 1950s above river mile (RM) 2 and 1983 below RM 2.

The study area has experienced extensive habitat loss as a result of elevated levels of chemical contaminants in surface waters and sediments, particularly Dioxins, PCBs, PAHs, and mercury. The historic industrial uses from Paterson, the cradle of the industrial revolution, to modern-day Newark have resulted in discharges of waste products with significant deposition of these hazardous materials on the bottom, with detrimental changes to existing habitat. This material poses a serious risk to human health and loss of ecosystem services. The degradation of the river has discouraged private sector investment in the area.

A reconnaissance study was authorized by a resolution of the Committee on Transportation and Infrastructure of the United States House of Representatives, adopted 15 April 1999, to determine the feasibility of environmental restoration and protection related to water resources and sediment quality within the New York and New Jersey Port District, including but not limited to creation, enhancement, and restoration of aquatic, wetland, and adjacent upland habitats. Engineering solutions are available to meet ecosystem restoration goals and objectives, such as improvements in fish, wildlife, and benthic habitat values. The Lower Passaic study area falls within the larger Hudson-Raritan Estuary study area, as such, the HRE Reconnaissance Report includes Lower Passaic.

The FCSA was signed in June 2003, with the New Jersey Department of Transportation, the non-Federal sponsor. The Corps and the non-Federal sponsor are working in partnership with the EPA under WRDA and CERCLA Superfund authority, and trustees NJDEP, USFWS, and NOAA, as well as NGOs, other resource agencies, and local stakeholders to develop a plan for remediation and restoration of the study area. As part of a joint effort to develop a comprehensive plan, the Remedial Investigation/Feasibility Study has already conducted significant work on existing conditions and assessments based on physical, chemical and biological field sampling, navigation usage studies, pilot study of environmental dredging, bathymetric surveys, aerial photography, GIS mapping, and other data collection. Currently this area has been designated an Urban River Restoration Initiative (URRI) pilot project in 2003.

Early action remediation alternatives (e.g., capping and dredging actions with several dredged material management options) have been developed for comparison and evaluation by the EPA. A draft Focused Feasibility study was prepared by USEPA in June 2007 for the early remedial action of

the lower 8.2 miles of the Lower Passaic River. The revised final Focused Feasibility Study (USEPA) was provided for agency review in October 2012 and will be release to the public in spring 2013. The USACE Feasibility Report, which addresses the restoration component of the study, is scheduled for completion in 2015. USACE and USEPA are coordinating their actions so that restoration will be recommended first for "clean" sites not requiring remedial action, and subsequently for other sites after they are remediated by USEPA. The next action for the USACE's component of the Feasibility Study is a re-scoping Charette, scheduled for January 2013. The restoration study is between the Alternatives Milestone stage and the Tentatively Selected Plan.

## c. Factors Affecting the Scope and Level of Review.

- This will not be a highly controversial study, as the resource agencies and members of the public all support ecosystem restoration in the Lower Passaic River Basin. Implementation of the Lower Passaic River project will provide National Ecosystem Restoration benefits to the Nation, in terms of habitat units. There is no influential scientific information presented in this study, as the study is essentially a larger scale ecosystem restoration study, recommending alternatives on sites within the Lower Passaic River Basin.
- The risks of this project occur mostly in the implementation phase, where risk of not receiving federal and non-federal funds would drive the costs of the project higher and delay the implementation and receipt of benefits to the environment. The risks of the project not performing as designed would result in those environmental restoration improvements not being realized and the Lower Passaic River would retain the existing poor aquatic habitat quality and water quality. These risks of non-performance may be mitigated through adaptive management.
- There are no significant threats to human life or safety as the alternatives mainly involve restoration of fresh and salt marsh grasses and earth moving. The purpose of the project does not involve storm damage reduction or flood risk management and there is no expectation from any stakeholder that the implementation of this project would provide any storm damage protection. As per the Deputy Chief, Engineering Division, New York District "The alternatives to be analyzed for the ecosystem restoration measures for the Lower Passaic River will not be designed to increase potential flood risk from its existing condition. The alternatives identified are traditional/routine in nature and the use of or unique or innovation, technology, materials or construction methodologies are not envisioned or anticipated and does not pose a significant threat to human life."
- There has not been a request by the Governor of an affected state for a peer review by independent experts;
- There has not been any significant public dispute as to the size, nature, effects, or the projected economic or environmental benefits of the project, only the timing, with our non-Federal partners and stakeholders interested in accelerating implementation of the project.
- The alternatives identified in this ecosystem restoration study would be designed in such a way
  as they would be self-sustaining. The redundancy, resiliency and/or robustness discussion does
  not apply to this ecosystem restoration study, as the purpose of this study is to bring natural
  restoration to the Lower Passaic River.
- **d. In-Kind Contributions.** Products and analyses provided by non-Federal sponsors as in-kind services are subject to DQC, ATR, and IEPR. . NJDOT has conducted in-kind services including field sampling,

initial restoration planning and municipality outreach. This information will be included in the draft Feasibility Study Report package.

#### 4. DISTRICT QUALITY CONTROL (DQC)

All decision 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 project quality requirements defined in the Project Management Plan (PMP). The home district shall manage DQC. Documentation of DQC activities is required and should be in accordance with the Quality Manual of the District and the home MSC.

- a. Documentation of DQC. District Quality Control will be documented through the use of a Quality Control Report, which is managed in Dr Checks and signed by the members performing the DQC as well as the Division Chiefs of the major technical offices responsible for producing this DQC report. This report will include the printout of all comments from Dr Checks.
- **b. Products to Undergo DQC.** DQC will be conducted on the Report Synopsis, and the draft and final Feasibility Reports.
- c. Required DQC Expertise. The expertise of the DQC review team will consist of Section Chiefs and subject matter experts or regional technical specialists in the fields of Plan Formulation, NEPA compliance, Engineering Design and Analysis as well as Real Estate.

#### 5. AGENCY TECHNICAL REVIEW (ATR)

ATR is mandatory for all decision documents (including supporting data, analyses, environmental compliance documents, etc.). The objective of ATR is to ensure consistency with established criteria, guidance, procedures, and policy. The ATR will assess whether the analyses presented are technically correct and comply with published USACE guidance, and that the document explains the analyses and results in a reasonably clear manner for the public and decision makers. ATR is managed within USACE by the designated RMO and is conducted by a qualified team from outside the home district that is not involved in the day-to-day production of the project/product. ATR teams will be comprised of senior USACE personnel and may be supplemented by outside experts as appropriate. The ATR team lead will be from outside the home MSC.

a. **Products to Undergo ATR.** ATR will be conducted on the Report Synopsis and associated documents, and the draft and final Feasibility Reports (including NEPA and supporting documentation), and Final Report (including NEPA and supporting documentation).

### b. Required ATR Team Expertise.

ATR Team Members/Disciplines	Expertise Required
ATR Lead	The ATR lead should be a senior professional with extensive experience in preparing Civil Works decision documents and conducting ATR. The lead should also have the necessary skills
	and experience to lead a virtual team through the ATR process.  The ATR lead may also serve as a reviewer for a specific discipline (such as planning, economics, environmental resources, etc).

Planning	The Planning reviewer should be a senior water resources planner with experience in the plan formulation process. The reviewer
	should be familiar with evaluation of alternative plans for
	ecosystem restoration projects in urban settings.
Economics	The economics reviewer should be able to evaluate the
	appropriateness of cost effectiveness and incremental cost
	analysis (CE/ICA), using IWR-Planning Suite, as applied to dollar
	costs and ecosystem restoration benefits. The reviewer should
	also have experience with National Ecosystem Restoration
	analysis procedures.
Environmental Resources	The Environmental Resources Reviewer should have particular
	knowledge of ecosystem restoration, including the methods used
	to evaluate benefits, and should also be familiar with all National
	Environmental Policy Act (NEPA) requirements. The reviewer
	should have experience in wetland ecology of urban regions,
	preferably experience in the densely populated mid-Atlantic or
	Northeast.
Cultural Resources	If required, the Cultural Resources reviewer will be familiar with
	Section 106 requirments, and Corps of Engineers practices and
	ERs. Formulation will attempt to avoid culturally sensitive areas.
Hydrology	The Hydrology reviewer will have a thorough understanding of
	hydrologic transport models, including point source and surface
	area run-off inputs, for the analysis of sediment and pollutant
	movements within the river system.
Civil Engineering	The civil engineering reviewer should have experience with
	engineering analysis and design of wetland restoration or related
	projects in urban areas.
Cost Engineering	Team member will be familiar with cost estimating for similar
	projects using MII. Team member will be a Certified Cost
	Technician, Certified Cost Consultant, or Certified Cost Engineer.
	A separate process and coordination is also required through the
	Walla Walla District DX for cost engineering.
Real Estate	The real estate reviewer will be familiar with the Corps of
	Engineers ER on Real Estate.
Hazardous, Toxic and Radioactive	The HTRW reviewer will be familiar with HTRW investigations and
Waste (HTRW)	Corps of Engineers practices and ERs.

- c. Documentation of ATR. DrChecks review software will be used to document all ATR comments, responses and associated resolutions accomplished throughout the review process. Comments should be limited to those that are required to ensure adequacy of the product. The four key parts of a quality review comment will normally include:
  - The review concern identify the product's information deficiency or incorrect application of policy, guidance, or procedures;
  - The basis for the concern cite the appropriate law, policy, guidance, or procedure that has not be properly followed;

- The significance of the concern indicate the importance of the concern with regard to its
  potential impact on the plan selection, recommended plan components, efficiency (cost),
  effectiveness (function/outputs), implementation responsibilities, safety, Federal interest,
  or public acceptability; and
- The probable specific action needed to resolve the concern identify the action(s) that the reporting officers must take to resolve the concern.

In some situations, especially addressing incomplete or unclear information, comments may seek clarification in order to then assess whether further specific concerns may exist.

The ATR documentation in DrChecks will include the text of each ATR concern, the PDT response, a brief summary of the pertinent points in any discussion, including any vertical team coordination (the vertical team includes the district, RMO, MSC, and HQUSACE), and the agreed upon resolution. If an ATR concern cannot be satisfactorily resolved between the ATR team and the PDT, it will be elevated to the vertical team for further resolution in accordance with the policy issue resolution process described in either ER 1110-1-12 or ER 1105-2-100, Appendix H, as appropriate. Unresolved concerns can be closed in DrChecks with a notation that the concern has been elevated to the vertical team for resolution.

At the conclusion of each ATR effort, the ATR team will prepare a Review Report summarizing the review. Review Reports will be considered an integral part of the ATR documentation and shall:

- Identify the document(s) reviewed and the purpose of the review;
- Disclose the names of the reviewers, their organizational affiliations, and include a short paragraph on both the credentials and relevant experiences of each reviewer;
- Include the charge to the reviewers;
- Describe the nature of their review and their findings and conclusions;
- Identify and summarize each unresolved issue (if any); and
- Include a verbatim copy of each reviewer's comments (either with or without specific attributions), or represent the views of the group as a whole, including any disparate and dissenting views.

ATR may be certified when all ATR concerns are either resolved or referred to the vertical team for resolution and the ATR documentation is complete. The ATR Lead will prepare a Statement of Technical Review certifying that the issues raised by the ATR team have been resolved (or elevated to the vertical team). A Statement of Technical Review should be completed, based on work reviewed to date, for the AFB, draft report, and final report. A sample Statement of Technical Review is included in Attachment 2.

### 6. INDEPENDENT EXTERNAL PEER REVIEW (IEPR)

IEPR may be required for decision documents under certain circumstances. 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. A risk-informed decision, as described in EC 1165-2-209, is made as to whether IEPR is appropriate. IEPR panels will consist of independent, recognized experts from outside of the USACE in the appropriate disciplines, representing a balance of areas of expertise suitable for the review being conducted. There are two types of IEPR:

- Type I IEPR. Type I IEPR reviews are managed outside the USACE and are conducted on project studies. Type I IEPR panels assess the adequacy and acceptability of the economic and environmental assumptions and projections, project evaluation data, economic analysis, environmental analyses, engineering analyses, formulation of alternative plans, methods for integrating risk and uncertainty, models used in the evaluation of environmental impacts of proposed projects, and biological opinions of the project study. Type I IEPR will cover the entire decision document or action and will address all underlying engineering, economics, and environmental work, not just one aspect of the study. For decision documents where a Type II IEPR (Safety Assurance Review) is anticipated during project implementation, safety assurance shall also be addressed during the Type I IEPR per EC 1165-2-209.
- Type II IEPR. Type II IEPR, or Safety Assurance Review (SAR), are managed outside the USACE and are conducted on design and construction activities for hurricane, storm, and flood risk management projects or other projects where existing and potential hazards pose a significant threat to human life. Type II IEPR panels will conduct reviews of the design and construction activities prior to initiation of physical construction and, until construction activities are completed, periodically thereafter on a regular schedule. The reviews shall consider the adequacy, appropriateness, and acceptability of the design and construction activities in assuring public health safety and welfare.
- a. Decision on IEPR. Type I IEPR will be conducted on the draft feasibility report for this study. Although the study is neither controversial nor precedent setting, nor does it have highly significant national importance, the total project cost (given a programmatic authority) would exceed the \$45M threshold and therefore, Type 1 IEPR is required. Type II IEPR is not warranted, as this is an ecosystem restoration study and little to no threat to human life or safety is at risk if the project fails. The consequences of non-performance on project economics would mean that the region and nation do not realize the level of National Ecosystem Restoration benefits that this project would provide.
- **b. Products to Undergo Type I IEPR.** The draft feasibility report and environment assessment are the products reviewed for the Type I IEPR.
- c. Required Type I IEPR Panel Expertise. The expertise represented on the Type I IEPR panel is shown in the table below. Please note that additional disciplines, such as HTRW, Real Estate, or Cultural Resources, are not anticipated for IEPR, because the Tentatively Selected Plan will be formulated to avoid sensitive areas with regard to HTRW, Real Estate, or Cultural Resources or restoration actions would be implemented following remediation by USEPA if necessary.

<b>IEPR Panel Members/Disciplines</b>	Expertise Required
Economics	The Panel Member should have a degree in economics or a related field and should be able to evaluate the appropriateness of cost effectiveness and incremental cost analysis (CE/ICA), as applied to dollar costs and ecosystem restoration benefits, and preferably familiar with the Corps of Engineers tool for CE/ICA called IWR-Planning Suite. Panel member should also have experience with National Ecosystem Restoration analysis

	procedures.
Environmental	The Panel Member should have at minimum a Masters Degree in ecology or biology. Panelist should have particular knowledge of ecosystem restoration and should also be familiar with all National Environmental Policy Act (NEPA) requirements. Panel Member should have experience in wetland ecology of urban regions, preferably experience in the densely populated mid-Atlantic or Northeast.
Civil Engineering	The Panel Member should have degrees in civil engineering and have demonstrated experience in performing cost engineering/construction management for all phases of ecosystem restoration or related projects. Team member should be familiar with similar projects across US and related Cost Engineering. Experience in associated contracting procedures, total cost growth analysis and related cost risk analysis is desired. Panel member should be familiar with construction industry and practices used in wetland restoration.
Civil Works Planning	The Panel Member should have a degree in planning or a related field and should have experience in the plan formulation process. Panelist should be familiar with evaluation of alternative plans for ecosystem restoration projects. Familiarity with USACE standards and procedures is required.

- d. Documentation of Type I IEPR. The IEPR panel will be selected and managed by an Outside Eligible Organization (OEO) per EC 1165-2-209, Appendix D. Panel comments will be compiled by the OEO and should address the adequacy and acceptability of the economic, engineering and environmental methods, models, and analyses used. IEPR comments should generally include the same four key parts as described for ATR comments in Section 4.d above. The OEO will prepare a final Review Report that will accompany the publication of the final decision document and shall:
  - Disclose the names of the reviewers, their organizational affiliations, and include a short paragraph on both the credentials and relevant experiences of each reviewer;
  - Include the charge to the reviewers;
  - Describe the nature of their review and their findings and conclusions; and
  - Include a verbatim copy of each reviewer's comments (either with or without specific attributions), or represent the views of the group as a whole, including any disparate and dissenting views.

The final Review Report will be submitted by the OEO no later than 60 days following the close of the public comment period for the draft decision document. USACE shall consider all recommendations contained in the Review Report and prepare a written response for all recommendations adopted or not adopted. The final decision document will summarize the Review Report and USACE response. The Review Report and USACE response will be made available to the public, including through electronic means on the internet.

#### 7. POLICY AND LEGAL COMPLIANCE REVIEW

All decision documents will be reviewed throughout the study 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 home MSC 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.

## 8. COST ENGINEERING DIRECTORY OF EXPERTISE (DX) REVIEW AND CERTIFICATION

All decision documents shall be coordinated with the Cost Engineering DX, located in the Walla Walla District. The DX will assist in determining the expertise needed on the ATR team and Type I IEPR team (if required) and in the development of the review charge(s). The DX will also provide the Cost Engineering DX certification. The RMO is responsible for coordination with the Cost Engineering DX.

#### 9. MODEL CERTIFICATION AND APPROVAL

EC 1105-2-412 mandates the use of certified or approved models for all planning activities to ensure the models are technically and theoretically sound, compliant with USACE policy, computationally accurate, and based on reasonable assumptions. Planning models, for the purposes of the EC, are defined as any models and analytical tools that planners use to define water resources management problems and opportunities, to formulate potential alternatives to address the problems and take advantage of the opportunities, to evaluate potential effects of alternatives and to support decision making. The use of a certified/approved planning model does not constitute technical review of the planning product. The selection and application of the model and the input and output data is still the responsibility of the users and is subject to DQC, ATR, and IEPR (if required).

EC 1105-2-412 does not cover engineering models used in planning. The responsible use of well-known and proven USACE developed and commercial engineering software will continue and the professional practice of documenting the application of the software and modeling results will be followed. As part of the USACE Scientific and Engineering Technology (SET) Initiative, many engineering models have been identified as preferred or acceptable for use on Corps studies and these models should be used whenever appropriate. The selection and application of the model and the input and output data is still the responsibility of the users and is subject to DQC, ATR, and IEPR (if required).

**a. Planning Models.** The following planning models are anticipated to be used in the development of the decision document:

b.

Model Name and Version	Brief Description of the Model and How It Will Be Applied in the Study	Certification / Approval Status
IWR-PLAN	This is the approved, certified model developed by IWR that will be used to evaluate alternatives.	Certified
Environmental	The details of the environmental benefits model(s) to be used	Unknown at

Benefits model (like	are still being developed. In the plan formulation of the Lower	this time.
EPW) – to be	Passaic River, we are using the plan formulation method of	
determined on site	analysis developed for the Hudson-Raritan Estuary Feasibility	
specific basis	Study, which was approved by HQ in January 2010. This	
	method allows us to use a GIS-based approach to identify	
	conceptual-level project alternatives on individual sites within	
	the watershed. These sites are then compared to the	
	ecological restoration goals set for the Lower Passaic River	
	watershed and conceptual levels costs as developed as well.	
	This process allows us to present BCR-like results for the entire	
	watershed. As a site is then identified by the non-Federal	
	sponsor for implementation, we would proceed to developing	
	site-specific detailed alternatives and impacts, using an IBI or	
	other suitable habitat evaluation model and comparing the	
	results through the use of IWR-Plan. At this point in the study,	
	the sponsors have just identified the sites they would like us to	
	focus on for the purpose of the detailed feasibility-level	
	analyses. So, we haven't yet done the work to figure out which	
	ecological model would be used for that purpose. As we	
	initiate the site-specific data collection, we will identify	
	possible benefit model(s) and update the review plan	
<u> </u>	accordingly.	

**c. Engineering Models.** The following engineering models are anticipated to be used in the development of the decision document:

Model Name and Version	Brief Description of the Model and How It Will Be Applied in the Study	Approval Status
TBD		

#### **10. REVIEW SCHEDULES AND COSTS**

- a. ATR Schedule and Cost. The first feasibility study product to undergo ATR is the Tentatively Selected Plan package, which will occur in FY 2014 at a cost of \$40,000; the Draft Feasibility Report review will occur in FY 2015 at a cost of \$25,000; and the Final Feasibility Report review will occur in FY 2016 at a cost of \$25,000.
- b. Type I IEPR Schedule and Cost. To be determined.
- c. Model Certification/Approval Schedule and Cost. To be determined.

#### 11. PUBLIC PARTICIPATION

Members of the public have provided comments on this study at public meetings and information sessions held throughout the study development. Additional public participation will occur with the release of the draft report to the public for their review and comment. The final decision document,

associated review reports, will be made available to the public through the use of the District's Web site and mailing of notices that information is available to interested parties and stakeholders.

#### 12. REVIEW PLAN APPROVAL AND UPDATES

The North Atlantic Division Commander is responsible for approving this Review Plan. The Commander's approval reflects vertical team input (involving district, MSC, RMO, and HQUSACE members) as to the appropriate scope and level of review for the decision document. Like the PMP, the Review Plan is a living document and may change as the study progresses. The home district is responsible for keeping the Review Plan up to date. Minor changes to the review plan since the last MSC Commander approval are documented in Attachment 3. Significant changes to the Review Plan (such as changes to the scope and/or level of review) should be re-approved by the MSC Commander following the process used for initially approving the plan. The latest version of the Review Plan, along with the Commanders' approval memorandum, should be posted on the Home District's webpage. The latest Review Plan should also be provided to the RMO and home MSC.

#### 13. REVIEW PLAN POINTS OF CONTACT

Public questions and/or comments on this review plan can be directed to the following points of contact:

- Jason Shea, Chief, Watershed Section, New York District, (917) 790-8727
- Clifford Jones, North Atlantic Division Planning and Policy Community of Practice Team Leader, (347) 370-4514
- Sue Ferguson, NAD Regional Program Manager, ECO-PCX, (615) 736-7192

## **ATTACHMENT 1: TEAM ROSTERS**

Lower Passaic River Basin Ecosystem Restoration Feasibility Study PDT, ATR, Vertical Team POCs.

# PDT Members

NAME	OFFICE	PHONE	EMAIL
Lisa Baron	CENAN-PP-H	917-790-8306	Lisa.A.Baron@usace.army.mil
Olivia Cackler	CENAN-PL-F	917-790-8705	Olivia.N.Cackler@usace.army.mil
Jason Shea	CENAN-PL-F	917-790-8727	Jason.A.Shea@usace.army.mil
Diana Kohtio	CENAN-PL-E	917-790-8619	Diana.M.Kohtio@usace.army.mil
Peter Weppler	CENAN-PL-E	917-790-8634	Peter.M.Weppler@usace.army.mil
Steven Weinberg	CENAN – EN	917-790-8391	Steven.R.Weinberg@usace.army.mil
Michael Morgan	CENAN-EN	917-790-8629	Michael.J.Morgan@usace.army.mil
Gail Woolley	CENAN-EN	917-790-8246	Gail.S.Woolley@usace.army.mil
David Andersen	CENAN-RE	917-790-8456	David.C.Andersen@usace.army.mil

## ATR Team Members

NAME	OFFICE	PHONE	EMAIL
TBD			
TBD			
TBD			

# Vertical Team Members

NAME	OFFICE	ROLE	PHONE	EMAIL
Thomas J.	Plan Formulation, NAN	Chief	917-790-8602	Thomas.J.Hodson@usace.army.mil
Hodson				
Leonard J.	Environmental Analysis,	Chief	917-790-8702	Leonard.Houston@usace.army.mil
Houston	NAN			
Frank	Civil Resources Branch,	Chief	917-790-8266	Frank.A.Santangelo@usace.army.mil
Santangelo	NAN			
Anthony	Civil Works Program and	Chief	917-790-8208	Anthony.Ciorra@usace.army.mil
Ciorra	Project Management			
	Branch, NAN			
Sue	<b>CELRN Plan Formulation</b>	ECO-	615-736-7192	Sue.L.Ferguson@usace.army.mil
Ferguson		PCX		
		Lead		
Clifford	CENAD Planning CoP	MSC	347-370-4514	Clifford.S.Jones@usace.army.mil
Jones	Team Lead	Lead		
Roselle	CENAD Environmental	MSC	347-370-4562	Roselle.E.Henn@usace.army.mil
Henn	Team Lead			
Catherine	NAD-RIT	HQ	202-761-1379	Catherine.M.Shuman@usace.army.mil
Shuman		RIT		
		Lead		

#### ATTACHMENT 2: SAMPLE STATEMENT OF TECHNICAL REVIEW FOR DECSION DOCUMENTS

## COMPLETION OF AGENCY TECHNICAL REVIEW

The Agency Technical Review (ATR) has been completed for the <a href="https://example.com/nv-10/2016/by-13/2016">https://example.com/nv-10/2016/by-13/2016

<u>Name</u>	Date
ATR Team Leader	
Office Symbol/Company	
SIGNATURE	
Name	Date
Project Manager	24.0
Office Symbol	
SIGNATURE	
Name	Date
Architect Engineer Project Manager <sup>1</sup>	Date
Company, location	
Company, rocaron	
SIGNATURE	
<u>Name</u>	Date
Review Management Office Representative	
Office Symbol	
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CERTIFICATION OF AGENCY T Significant concerns and the explanation of the resolution are as f their resolution.	
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Only needed if some portion of the ATR was contracted

## **ATTACHMENT 3: REVIEW PLAN REVISIONS**

Revision Date	Description of Change	Page / Paragraph Number
November 2012	Update to format of review plan	All

# **ATTACHMENT 4: ACRONYMS AND ABBREVIATIONS**

<u>Term</u>	<u>Definition</u>	<u>Term</u>	<u>Definition</u>
AFB	Alternative Formulation Briefing	NED	National Economic Development
ASA(CW)	Assistant Secretary of the Army for Civil Works	NER	National Ecosystem Restoration
ATR	Agency Technical Review	NEPA	National Environmental Policy Act
CSDR	Coastal Storm Damage Reduction	0&M	Operation and maintenance
DPR	Detailed Project Report	ОМВ	Office and Management and Budget
DQC	District Quality Control/Quality Assurance	OMRR&R	Operation, Maintenance, Repair, Replacement and Rehabilitation
DX	Directory of Expertise	OEO	Outside Eligible Organization
EA	Environmental Assessment	OSE	Other Social Effects
EC	Engineer Circular	PCX	Planning Center of Expertise
EIS	Environmental Impact Statement	PDT	Project Delivery Team
EO	Executive Order	PAC	Post Authorization Change
ER	Ecosystem Restoration	PMP	Project Management Plan
FDR	Flood Damage Reduction	PL	Public Law
FEMA	Federal Emergency Management Agency	QMP	Quality Management Plan
FRM	Flood Risk Management	QA	Quality Assurance
FSM	Feasibility Scoping Meeting	QC	Quality Control
GRR	General Reevaluation Report	RED	Regional Economic Development
Home District/MSC	The District or MSC responsible for the preparation of the decision document	RMC	Risk Management Center
HQUSACE	Headquarters, U.S. Army Corps of Engineers	RMO	Review Management Organization
IBI	Index of Biotic Integrity	RTS	Regional Technical Specialist
IEPR	Independent External Peer Review	SAR	Safety Assurance Review
ITR	Independent Technical Review	USACE	U.S. Army Corps of Engineers
IWR	Institute for Water Resources	WRDA	Water Resources Development Act
LRR	Limited Reevaluation Report		
MSC	Major Subordinate Command		