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AUG -4 2016

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**Final Natural Resource Restoration Plan
&
Environmental Assessment
for the
Ottawa River Assessment Area**

27 June 2016

Prepared by:

**U.S. Fish and Wildlife Service, Region 3
Ecological Services
4625 Morse Road, Suite 104
Columbus, OH 43230**

and

**Ohio EPA
Division of Environmental Response and Revitalization
Northwest District Office
347 N. Dunbridge Road
Bowling Green, OH 43402**



I certify this to be a true and accurate copy of the official documents as filed in the records of the Ohio Environmental Protection Agency.

By: [Signature] Date: 8-4-16



TRUSTEES: State of Ohio
Ohio Environmental Protection Agency
U.S. Department of the Interior
U.S. Fish and Wildlife Service

LEGAL AUTHORITY: Comprehensive Environmental Response, Compensation,
and Liability Act of 1980 (as amended), 42 U.S.C. § 9601, *et*
seq.
Federal Water Pollution Control Act (Clean Water Act) (as
amended), 33 U.S.C. § 1251, *et seq.*
Natural Resource Damage Assessment, 43 C.F.R. Part 11
National Environmental Policy Act, 42 U.S.C. §§4321-4347

RESPONSIBLE
FEDERAL AGENCY: Region 3, U.S. Fish and Wildlife Service

RESPONSIBLE
STATE AGENCY: Ohio Environmental Protection Agency

CONTACT: Archie L. Lunsey II
Manager
Division of Environmental Response and Revitalization
Northwest District Office
347 N. Dunbridge Road
Bowling Green, Ohio 43402

Deborah Millsap
NRDA Case Manager
U.S. Fish and Wildlife Service
4625 Morse Road, Suite 104
Columbus, Ohio 43230

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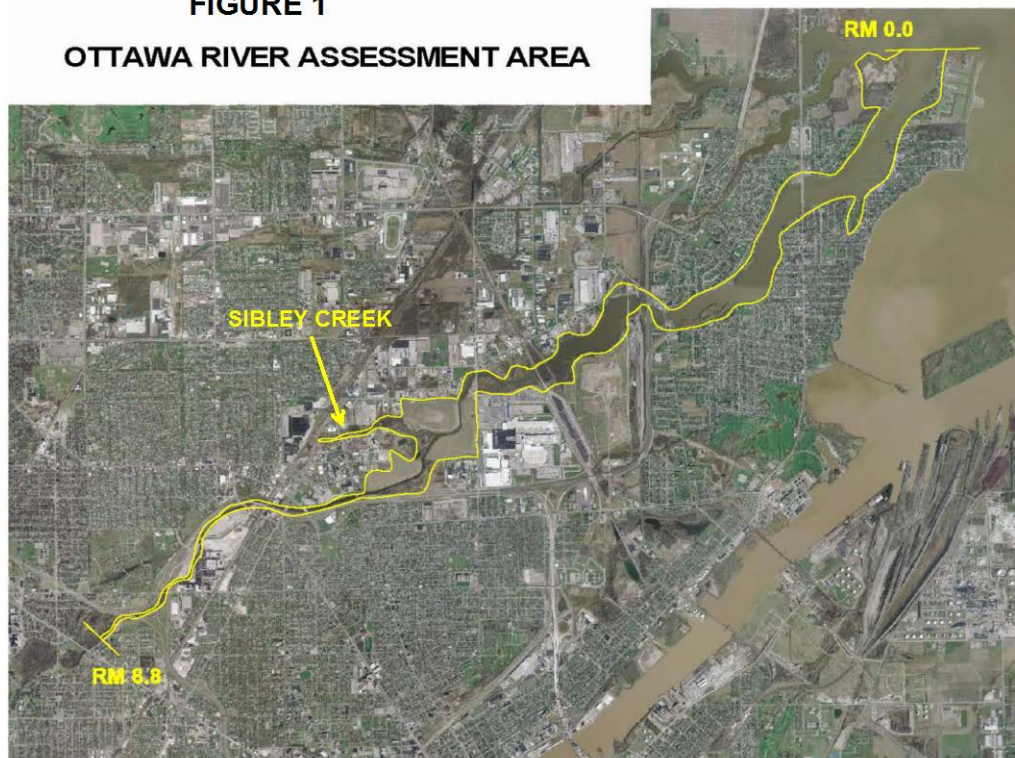
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SECTION 1

INTRODUCTION AND SUMMARY

This Final Restoration Plan (RP) and Environmental Assessment (EA) (collectively referred to as the RP/EA) has been prepared by the State and Federal natural resource Trustees to address natural resources injured and ecological services lost due to releases of hazardous substances to the Ottawa River Assessment Area (the Assessment Area). The Assessment Area means all portions of the following waterways, including sediment deposits that contain natural resources: (1) a segment of the Ottawa River, primarily located in Lucas County, Ohio, from River Mile 8.8 to River Mile 0, at the mouth of the Ottawa River, and (2) Sibley Creek. This Assessment Area is depicted on Figure 1.

FIGURE 1
OTTAWA RIVER ASSESSMENT AREA



The Comprehensive Environmental Response, Compensation and Liability Act, 42 U.S.C. § 9601, *et seq.* (CERCLA, or more commonly known as the federal “Superfund”

law) and the Federal Water Pollution Control Act, 33 U.S.C. § 1251, *et seq.* (more commonly known as the Clean Water Act or (CWA)) authorize States, Indian Tribes, and certain Federal agencies that have authority to manage or control natural resources, to act as “Trustees” on behalf of the public, to restore, rehabilitate, replace, and/or acquire natural resources equivalent to those injured by hazardous substance releases. The Department of the Interior’s Natural Resource Damage Assessments (NRDAs) regulations for CERCLA cases are set forth at 43 C.F.R Part 11.

The State of Ohio, represented by the Ohio Environmental Protection Agency (Ohio EPA) and the United States Department of the Interior (DOI), represented by the United States Fish and Wildlife Service (Service) (collectively, referred to as the Trustee Council) have worked together in a cooperative process to determine what is necessary to address natural resource injuries caused by releases of polychlorinated biphenyls (PCBs) and other hazardous substances in the Assessment Area.

The State of Ohio and the United States are in settlement negotiations with Potentially Responsible Parties (PRPs) in which the PRPs would implement various projects to in part, restore, replace, rehabilitate and/or acquire the equivalent of the natural resources injured at the Assessment Area and/or the services those resources provide. In addition to the PRP conducted restoration projects discussed below, the Trustees expect to recover funds to complete additional restoration projects. Future/Trustee implemented restoration projects will be selected consistent with the objectives and conclusions set forth in this Final RP/EA. This Final RP/EA describes the proposed PRP sponsored restoration projects and proposes those objectives and conclusions to guide the Trustees in selecting the future Trustee implemented restoration projects.

In summary, the purpose of this Final RP/EA is to present the Trustees’ Selected Alternative to accomplish the goal of restoring, rehabilitating, replacing and/or acquiring the equivalent of those natural resources and the services those resources provide that have been injured in the Assessment Area. The Trustees sought published notice of the draft RP/EA, offered an opportunity for public comments, and held a public meeting to explain and hear further comments regarding the draft RP/EA. The Trustees considered the public comments that were submitted on the Draft RP/EA and revised the RP/EA as appropriate.

Further, after consideration of the comments received and the environmental assessment prepared in the Draft RP/EA, the USFWS, on behalf of the Trustees, has issued a Finding of No Significant Impact (FONSI) for the Selected Alternative.

SECTION 2

PURPOSE AND NEED FOR RESTORATION

2.1 The Lower Ottawa River Watershed – History of Release

The Ottawa River begins southeast of Sylvania, Ohio at the junction of Ten Mile Creek and North Ten Mile Creek. From there it flows, generally south east, through the City of Toledo, to Maumee Bay (Lake Erie), entering Maumee Bay/Lake Erie approximately 2.3 miles north of the Maumee River in Monroe County Michigan. The City of Toledo, with a population of more than 250,000 is the only significant urban center in the watershed. Upstream of Toledo, land use is primarily agricultural with some residential development. There is substantial marina development near the confluence of the Ottawa River with Maumee Bay. Northern Maumee Bay is a protected shallow aquatic ecosystem, in the Western Basin of Lake Erie, with several islands and shallows supporting submergent and emergent vegetation. The combination of hydraulically connected wetlands near the Ottawa River, islands, and shallows in Maumee Bay, result in an area of significant natural resource value.

Decades of manufacturing activity and improper waste disposal practices have resulted in the release of hazardous substances to the Ottawa River and its watershed. Hazardous substances have migrated from landfills along the banks of the Ottawa River and from industrial facilities in the watershed, contaminating sediments, water, fish, and wildlife in the Ottawa River. The landfills and Sibley Creek, which were sources of hazardous substances to the Ottawa River, have been remediated under CERCLA and other authorities.

The Ottawa River Remedial Action (RA) was conducted through the Great Lakes Legacy Act (GLLA) by the U.S. Environmental Protection Agency's (EPA) Great Lakes National Program Office (GLNPO) and its non-federal partner, the Ottawa River Group (ORG), to remediate contaminated sediments from the Ottawa River and Sibley Creek in Toledo, Ohio. The remediation focused on a stretch of the river that was contaminated due to historical industrial discharges, wastewater and combined sewer overflow (CSO) releases. The ORG split the cost of the sediment cleanup 50-50 with EPA. At the time, the ORG consisted of a local consortium of Allied Waste Industries, Inc., Chrysler LLC, the city of Toledo, E.I. DuPont de Nemours and Company, GenCorp, Inc., Honeywell International, Inc., Illinois Tool Works, Inc., and United Technologies Corporation. The RA included environmental dredging of approximately 250,000 cubic yards (CY) of contaminated sediment from the Ottawa River at 33 separate dredge

management units (DMU). Fourteen sub-areas within these DMUs contained about 14,500 CY of sediment with TSCA-level concentrations of PCBs (greater than or equal to 50 ppm or milligrams per kilogram [mg/kg]). In addition, approximately 9,500 cubic yards of sediments were removed from Sibley Creek. Additional information on the GLLA RA can be found here:

<http://www.epa.gov/glnpo/sediment/legacy/ottawa/index.html>

2.2 Natural Resource Injuries

Injuries to surface water resources and biological resources have occurred. An estimated 724 acres of the Ottawa River and related riparian habitat have been contaminated by hazardous substances. Primary contaminants of concern in the Ottawa River included PCBs, metals (primarily lead) and polycyclic aromatic hydrocarbons (PAHs). Injured habitats include forested, submergent and emergent wetlands, as well as surface waters and sediments of the Ottawa River.

Toxic contaminants have wide ranging effects on aquatic and terrestrial life. Acute (short term) effects may include the death or reduced growth of plants, birds, fish and other animals. Chronic (long term) effects on aquatic life may include shortened lifespans, reproductive problems, population structures and changes in appearance or behavior. Many hazardous substances, including PCBs, are categorized as persistent, bio-accumulative, and toxic compounds. They degrade very slowly in the environment, accumulate in living things and concentrate in tissues as they are transferred up food chains. General information on potential effects of the hazardous substances detected can be found in the Agency for Toxic Substances and Disease Registry (ATSDR) fact sheets (www.atsdr.cdc.gov) and the U.S. EPA ECOTOX database (www.epa.gov/ecotox).

The Ottawa River has been of particular concern for regulatory agencies due to suspected contamination, possible health concerns and natural resource injuries for some time. Reports on specific injuries at the Assessment Area can be found at: <http://www.fws.gov/midwest/es/ec/nrda/Ottawa/index.html>

Additionally, several Ohio EPA water quality and related reports can be found at:

<http://epa.ohio.gov/portals/35/documents/ottawa91.pdf>

<http://epa.ohio.gov/portals/35/documents/ottawa96.pdf>

<http://epa.ohio.gov/portals/35/documents/Ottawa99.pdf>

<http://epa.ohio.gov/portals/35/documents/Aquablok.pdf>

<http://epa.ohio.gov/portals/35/documents/AquaBlok2001.pdf>

<http://epa.ohio.gov/portals/35/documents/OttawaRDura2002.pdf>

<http://epa.ohio.gov/portals/35/documents/OttawaRiver2007TSD.pdf>

Due to past contamination in the Ottawa River, contact and consumption advisories have been in place on parts of the Ottawa River since 1991. Details on the consumption advisories and their relationship to natural resource injuries can be found here:

<http://www.fws.gov/midwest/es/ec/nrda/Ottawa/documents/ottawarfishadvrpt8-31-09.pdf>

Given the bio-accumulative properties of PCBs and other contamination in the Assessment Area, evaluations of top predators were completed as part of the damage assessment of the Ottawa River. Of particular concern were fish eating birds that may migrate to and from the Ottawa River and use the area for nesting and foraging during large portions of the year.

In summary, injuries occurred to biological resources including their supporting ecosystems, surface water, and lost human use of those injured resources. Injuries are likely have occurred to fish-eating birds and migratory birds.

2.3 Authority and Legal Requirements

This Final RP/EA has been prepared jointly by Ohio EPA and the Service. Each of these Agencies is a designated natural resources Trustee under Section 107(f) of CERCLA, 42 U.S.C. § 9607(f), Section 311 of the CWA, 33 U.S.C. § 1321, and other applicable law, including Subpart G of the National Contingency Plan (NCP), 40 C.F.R. §§ 300.600-300.615. As a Trustee, each Agency is authorized to act on behalf of the public to assess natural resource injuries and recover damages for injuries to natural resources and losses of natural resource services attributed to releases of hazardous substances. The Federal Authorized Official (AO) is the DOI official that has been delegated the authority to act on behalf of the Secretary of the Department of the Interior to conduct a natural resource damage assessment and restoration. The AO is the Region 3 Regional Director for the Service, and represents the interests of the

Department, including all affected Bureaus. In accordance with 42 U.S.C. § 9607(f)(2)(B), the Director of Ohio EPA has been designated the natural resource Trustee of Ohio according to Ohio Governor John Kasich's letter dated June 30, 2011.

The purpose of the RP/EA is to consider alternative actions to restore, rehabilitate, replace, and/or acquire the equivalent of any natural resources injured and natural resource services lost as a result of releases of PCBs and other hazardous substances into the lower 8.8 miles of the Ottawa River, Sibley Creek and adjacent wetlands and related habitats in the Assessment Area, pursuant to applicable State and Federal laws and regulations. This document will also serve as the RP for implementing the selected Alternative as required under the CERCLA NRDA regulations.

Any restoration of natural resources under the CERCLA and CWA must comply with the National Environmental Policy Act (NEPA), as amended (42 U.S. C. §4321, et seq.), the Council on Environmental Quality regulations (40 CFR parts 1500-1508) and DOI's implementing NEPA regulations at 40 C.F.R. Part 6. In compliance with NEPA and its regulations, this Environmental Assessment (EA) summarizes the current environmental setting, describes the purpose and need for action, identifies alternative actions, assesses their applicability and environmental consequences, and summarizes opportunities for public participation in the decision making process. For the actions proposed in this EA, the appropriate context for considering potential significance of the actions is local, as opposed to national or worldwide.

The Alternative selected in the RP must be consistent with statutory mandates and regulatory procedures that specify that recovered damages are used to undertake feasible, safe, and cost-effective projects that address injured natural resources, consider actual and anticipated conditions, have a reasonable likelihood of success, and are consistent with applicable laws and policies.

2.4 Overview of NRDA and Restoration Process

DOI has adopted regulations under CERCLA and the CWA establishing procedures for assessing natural resource damages. The CERCLA NRDA regulations are codified at 43 C.F.R. Part 11.

As defined in the NRDA regulations, injury is an adverse biological, chemical, or physical effect on natural resources, such as death, decreased population, or lost services (e.g., fishing or hunting opportunities, ecosystem functions). Damages are the estimated dollar value of the injured resources. The objective of the NRDA process is to compensate the public through environmental restoration for injuries to natural resources that have been caused by releases of hazardous substances into the environment. Under Section 107(f)(1) of CERCLA, damage settlements can only be used to restore, rehabilitate, replace, and/or acquire the equivalent of trust resources injured, destroyed, or lost as a result of the release of hazardous substances. NRDA's can be performed using multiple approaches that quantify the injuries for which damages can be determined for the injuries. An alternate method includes habitat to habitat or resource to resource evaluations. Habitat equivalency analysis (HEA) or resource equivalency analysis (REA) are techniques based on a methodology used to determine compensatory projects for such resource injuries. The principal concept underlying the methods is that the public can be compensated for past losses of habitat resources or services through habitat replacement projects providing additional resources of the same type or quality. HEA was used in estimating the loss of the resources and services in the Assessment Area and to determine the size and scope of restoration projects required to adequately compensate the public.

Accordingly, this Final RP/EA has been developed to evaluate and, ultimately, select restoration projects designed to compensate the public for injuries that occurred to natural resources in the Assessment Area. The RP/EA is not intended to completely quantify the extent of restoration needed. Implementation of selected restoration projects will occur over a period of time, dependent upon the project type and the ability of the parties to complete the restorations.

The CERCLA NRDA regulations provide that restoration plans should consider ten factors when evaluating and selecting projects to restore or replace injured natural resources. The following factors will be used to select an Alternative and to compare projects within an Alternative. (See 43 C.F.R. § 11.82)

1. Technical feasibility.
2. The relationship of the expected costs of the Alternative to the expected benefits.
3. Cost-effectiveness.
4. The results of actual or planned response actions.

5. The potential for additional injury resulting from the proposed actions.
6. The natural recovery period.
7. Ability of the resources to recover with or without alternative actions.
8. Potential effects of the action on human health and safety.
9. Consistency with relevant Federal, State, and Tribal policies.
10. Compliance with applicable Federal, State, and Tribal laws.

As discussed, the selected Alternative must restore, rehabilitate, replace and/or acquire the equivalent of those natural resources injured by the discharge or release of PCBs and other hazardous substances into the Assessment Area.

Based on the recommendations of the Trustee Council and input from the public, the AO and Ohio Trustee has selected one of the Alternatives. The AO has determined, based on the facts and recommendations contained herein, and public comment, that the EA is adequate to support a Finding of No Significant Impact (FONSI), and that no Environmental Impact Statement (EIS) is required.

SECTION 3

RESTORATION ALTERNATIVES

3.1 Alternative A: No Action

The No Action Alternative, required by the National Environmental Policy Act (NEPA) consists of expected conditions under current programs pursued outside the NRDA process. It is the baseline against which other actions can be compared. If this Alternative were implemented, the Trustee Council would not initiate specific actions to restore injured natural resources or compensate the public for ongoing natural resource injuries caused by releases of hazardous substances into the environment. Existing environmental degradation not directly related to hazardous substance releases would continue to occur (land development, shoreline hardening, etc.), and perhaps worsen under Alternative A. The State and Federal agencies would continue to manage, conserve and protect the Ottawa River as outlined in current programs and regulations and within current budget constraints. The public would not be compensated for injuries to natural resources.

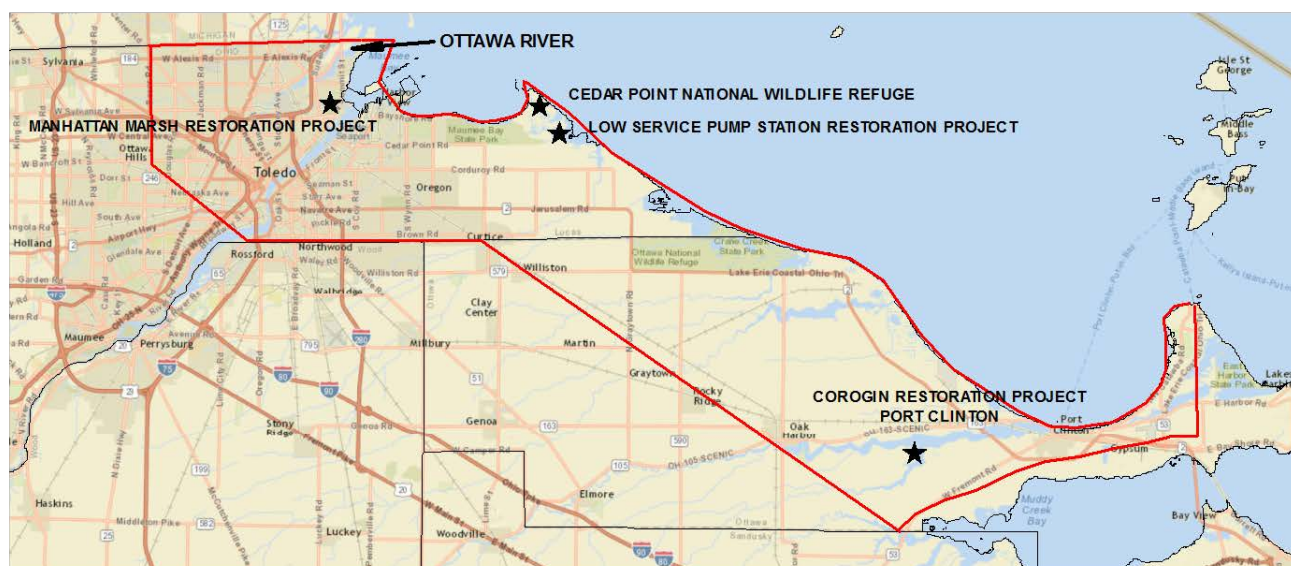
3.2 Alternative B: Natural Resource Based Restoration Inside the Western Lake Erie Basin and/or the Ottawa River (Selected Alternative)

CERCLA authorizes Trustees to replace and/or acquire natural resources equivalent to those injured by hazardous substance releases, in lieu of or in addition to, restoring or rehabilitating the injured natural resource.

Alternative B involves projects that would restore and replace injured and lost natural resources, while concurrently providing enhanced ecosystem and public use services to compensate for injuries caused by releases of hazardous substances. Because the ability to restore or preserve large and potentially healthy and diverse wetlands within the urban environment of the lower Ottawa River Watershed is extremely limited, Alternative B projects could be implemented within the Western Lake Erie Basin and/or the Ottawa River. See figure 2 for the Alternative B project area. Alternative B projects are focused on maintaining the important linkages between the physical, chemical and biological properties of the overall ecosystem and the services it provides. Specifically, the lower Ottawa River prior to development consisted of large coastal marshes that were hydraulically connected to Lake Erie. Many of the landfills responsible for contributing to the contamination within the lower Ottawa River were located in these large and sensitive wetlands. Alternative B projects include the following:

1. Restoration, reestablishment, and preservation of coastal marshes and wetlands in Western Lake Erie Basin and/or the Ottawa River.
2. Enhancement and preservation of riparian, wetland and upland habitat providing benefits to avian and fisheries resources in the Western Lake Erie Basin and/or the Ottawa River.
3. General improvement of aquatic habitat.

Figure 2: Alternative B: Natural Resource Based Restoration Inside the Western Lake Erie Basin and/or the Ottawa River



Each of these categories of projects is expected to improve and enhance the ecosystem to benefit injured natural resources. Concomitantly, these projects would benefit the public by enhancing active and passive outdoor recreational opportunities. These goals would be accomplished through the acquisition, restoration, and preservation of new and/or contiguous tracts of coastal marshes and other valuable habitat where feasible, which would be made available to the public for active and/or passive recreational use. This approach supports the goal of restoring, replacing and rehabilitating injured resources and enhancing outdoor recreational activities.

The Trustee Council anticipates that ecological priorities for all restoration project categories under Alternative B will be influenced primarily by the following key factors:

1. Relationship to injuries (restoration opportunities that address the habitat types, services, and values similar to those lost due to the release of hazardous substances are preferred).
2. Quality and size of restoration opportunities (projects with substantial ecological opportunities are preferred).
3. Ecological function/hydraulic connectivity (areas in the Western Lake Erie Basin and/or the Ottawa River are preferred).

4. Cost and cost-effectiveness (projects with lower cost per restored or replaced services or values are preferred).

Prior to the selection and implementation of any Site specific actions, the Trustees will review the specific projects to determine if any further work is required to comply with all applicable requirements (e.g., Historic Preservation Act, Endangered Species Act, Americans with Disabilities Act).

3.2.1 Wetland, Flood Plain, Riparian and Associated Upland Habitat Preservation, Reestablishment or Enhancement Projects

Restoration projects under this Alternative would concentrate on the need to preserve and enhance certain properties in the Western Lake Erie Basin and/or the Ottawa River which provide ecological services similar to those lost in the Assessment Area. Protection and restoration of Lake Erie coastal wetlands and associated riparian habitat and ecologically associated uplands would foster and promote increased spawning and nursery habitats and nesting and foraging opportunities for a wide variety of fish, birds and other wildlife. Such projects will also reduce erosion and resultant sediment, pesticide, and nutrient loading to Lake Erie. Restoration projects described in Alternative B would provide ecological functions similar to, but not necessarily the same as, those injured by hazardous substances.

Wetland, flood plain, riparian and ecologically associated upland protection and enhancement would help replace habitats that have been impaired or destroyed in the Assessment Area.

The Trustee Council's wetland, flood plain, riparian, and upland habitat reestablishment and enhancement strategy would include active restoration projects such as improving existing flood plain(s), establishing and/or preserving coastal and other wetlands, establishing interconnections between surface water and wetlands, and removing invasive plant species. Low impact techniques such as closing off drainage ditches, disrupting (or not repairing) drain tile systems and reestablishing wetland and flood plain plants and other native vegetation in order to reestablish natural characteristics that have been eliminated would also be utilized, as appropriate. The Trustee Council intends to target restoration of wetland, riparian, and upland habitats located in coastal areas, within flood plains and adjacent to existing valuable natural areas. Wetland, flood plain, riparian, and ecologically associated upland reestablishment and enhancement projects that will

improve water quality in Lake Erie (including reducing loadings of suspended sediments, nutrients, and pesticides) and provide habitat for biological resources are preferred.

3.2.1.1 Acquisition of Natural Areas

Alternative B recognizes the significance of preserving the riparian, coastal and other wetlands, flood plains and upland habitat of the Western Lake Erie Basin/Ottawa River watershed. To achieve this goal, the Trustee Council will focus its efforts on identifying, acquiring, and preserving parcels of land with the following attributes:

1. Coastal areas.
2. Areas with agricultural, commercial and/or residential development pressure.
3. Contiguous parcels.
4. Areas of high natural quality.

Areas with high natural quality or “natural areas” are those parcels of land that significantly contribute to the ecological qualities of the Western Lake Erie Basin and/or Ottawa River watershed. Public passive and active recreational activities improve with preserved and protected natural areas and through restoration of lost or injured resources.

The Trustee Council will select specific areas for preservation based upon the following criteria:

1. The ecological value of the habitat.
2. The ability to improve the habitat.
3. The ability to preserve the habitat.
4. The geographical and ecological diversity of the parcel(s).
5. The local and regional development plans.
6. The ability to find willing landowners and/or sellers.
7. The concerns and comments of the public.

Preservation of properties would be achieved through fee title purchase from willing land owners and/or through the purchase of conservation easements or the establishment of environmental covenants. Those properties that could be preserved in perpetuity will be considered a higher priority than those with fixed durations. Land acquired will be conveyed to individual State, Federal, or local governmental agencies, land trusts, or non-governmental conservation organizations following specific procedures and standards for each entity.

While the primary purpose of the preservation of land is to protect and preserve fish and wildlife habitats, portions of the acquired properties will likely be available to the public for passive and/or active recreational opportunities. The parcels may be available to serve as fishing spots, or for other activities such as wildlife viewing, hiking, or hunting.

3.2.1.2 Invasive Species Removal and Planting of Native Species

Restoration projects under Alternative B may include the replanting and reestablishment of native species on preserved or protected properties. Reestablishment efforts will focus on restoring natural areas that are in a somewhat degraded natural condition. Native species will be reestablished once non-native species have been removed and/or controlled. The removal of non-native species and planting of native species will enhance ecosystem function and, as a result, enhance the ecosystem functions provided to the natural resources and the public.

3.2.1.3 Avian Resource Enhancement Projects

The assessment process showed substantial injury to fish that are a food source for fish eating birds, and because of this, injury to fish eating birds has likely occurred in the Assessment Area. In light of this, the Trustees selected projects designed to increase habitat for a wide range of avian species including water fowl and other migratory birds. Projects in Alternative B will, therefore, focus on the following: (1) acquisition and improvement of tracts of land within Atlantic and Mississippi flyways with emphasis on the Western Lake Erie Basin, which will provide foraging, nesting, and loafing habitat for a wide range of avian species, and (2) restoration of certain existing wetlands along the Ottawa River and Western Lake Erie, which will provide improved foraging, nesting, and loafing areas for a wide range of avian species.

3.2.2 Fishery Resource Enhancement Projects

The abundance and diversity of fish species that once inhabited the Ottawa River is very different from the fishery currently observed due to anthropogenic effects, including effects of pollutants. The Trustees have, therefore, proposed projects designed to increase spawning and nursery habitat for a wide range of fish species. Projects in Alternative B will, therefore, focus on the following: (1) acquisition of tracts of land, including current and historical wetlands, within the Western Lake Erie Basin and/or the Ottawa River watershed, (2) establishment of hydrological connections between the wetlands and Lake Erie tributaries, which will provide significant spawning and nursery areas for fish.

3.3 Current Projects Supported by the Trustees

Three projects have been proposed by settling parties and are supported by the Trustees. Sections 3.2.4 through 3.2.6 describe the restorations that will in-part, compensate the public for injuries incurred in the Assessment Area. These three projects include all of the preferred alternative characteristics listed in section 3.2.1 above and score favorably using the selection criteria presented below (section 3.4). Additional projects will be selected using the criteria discussed in this RP/EA.

3.3.1 *ORG Restoration Project*

The ORG has purchased approximately 175 acres in Ottawa County, with the plan of restoring the property to include in part, coastal, connected emergent wetlands similar to those injured on the Ottawa River and to transfer the property to the United States with management by the Ottawa National Wildlife Refuge for long-term protection, maintenance, and enjoyment by the public. Similar to the habitats in and adjacent to the Ottawa River, the restoration project is located on the banks of the Portage and Little Portage Rivers. This area is included in the Western Lake Erie basin. The project will include reconnecting the majority of the agricultural fields to the Portage River, drain tile removal, installation of water control structures, and planting with native wetland species. The Trustees support this project as being direct replacement and acquisition of natural resources equivalent to those injured in the Assessment Area. In addition, acquiring property of such size and quality in the Ottawa River is highly unlikely given the development and urban nature of the lower Ottawa River.

3.3.2 *The City of Toledo Low Service Pump Station Restoration Project*

The first of two (2) restoration projects to be completed by the City of Toledo includes the restoration of “Toledo Low Service Pump Station.” This property comprises approximately 58 acres located in Lucas County at 1002 North Yondota Road, Curtice, Ohio, with latitude and longitude coordinates of latitude 41.674197 and longitude -83.309728. This property shares a border with the Cedar Point National Wildlife Refuge.

The City will enter into a long term access agreement with the U.S. Department of the Interior for at least 50 years and for up to 58 acres of the Property. The restoration will include:

1. Maintaining the acreage as wetland, forested wetland habitats, or other habitats as determined by the Refuge.
2. Transferring approximately 1 acre of the property to the United States with management by the Refuge for maintaining, repairing, or constructing new water control structures (e.g., dikes, levees) that have failed.
3. Maintaining native wetland plants through an invasive plant species control program.
4. Increasing wet meadow and wetland habitat through selected tree removal, producing open areas suitable for colonization by a federally threatened native plant species, the eastern prairie fringed orchid and state species of concern, the Kirtland’s snake and the Blanding’s turtle. All of these special interest species have been determined to use or have used the property in recent past. By improving the property, it is anticipated to better support these protected species.

3.3.3 *The City of Toledo Manhattan Marsh Restoration Project*

The second project to be completed by the City of Toledo is called the Manhattan Marsh.

Several properties would be consolidated into a total of approximately 70 acres located in North Toledo within the vicinity of and bounded in part by Bassett Street, Manhattan Boulevard and Suder Avenue. The restoration will consist of acquiring and maintaining the property as wetland and related habitat through removal of debris, refuse, and likely the installation of water control structures to support wetland habitats. Native plants will be maintained through an invasive plant species control program. The property will be transferred to Toledo Metro Parks for long term control and stewardship. Public use of the wetland and

related habitats will be increased via developed trails/walkways in sections the restored marsh and opening up viewing of the marsh by removing invasive species along the edges. Increased awareness of wetland habitat is likely due to the location of the wetland within the community, being adjacent to a senior living center on one side and Chase elementary school on another. It is likely students will experience the restored habitat first-hand as part of classes at the elementary school. The Trustees and City of Toledo recognize that the availability of such a large and potentially healthy and diverse wetland within the City of Toledo, or any large metropolitan area, is a rare and fortunate opportunity. The increased use of the restored marsh would offset, in part, lost recreational uses that have incurred along the Ottawa River.

3.4 Alternative C: Natural Resource Based Restoration Outside the Western Lake Erie Basin and Ottawa River Watershed

Alternative C involves projects of the type described in Alternative B, above. However, those projects would be implemented outside the Western Lake Erie Basin. Projects outside of the Western Lake Erie Basin would provide services similar to those in Alternative B, but may not benefit directly those species and populations injured by hazardous substance releases in the Ottawa River.

3.5 Alternatives B and C: Criteria and Priorities for Restoration Project Categories

Alternatives A, B and C were evaluated using the following seven (section 3.5.1 through 3.5.7) criteria. In addition, the three projects described above and future restoration projects will be similarly evaluated to ensure the appropriateness of the restoration.

3.5.1 *Technical Feasibility*

Projects that use reliable, proven methods are preferred to those that rely on experimental or untested methods. Other factors that can affect project success, such as validity of assumptions inherent to the project approach, will also be considered by the Trustee Council.

3.5.2 *Benefit Scope*

Restoration projects that provide a broad scope of measurable ecological benefits to large geographic areas and numerous fish or wildlife populations are favored over those that are focused on a limited set of benefits to a limited area or population. Restoration projects benefiting fish, wildlife species, and populations of the type known or believed to have been injured in the Assessment Area will be favored over those benefitting other species or populations. Restoration projects with a high ratio of expected ecological benefits to expected cost are preferred. Projects that provide natural resource services through protection and/or enhancement of the natural resources providing those services are preferred over projects designed solely to provide services. Projects that benefit more than one injured natural resource are expected to be given priority. Wherever possible, natural habitat functions that are self-sustaining and essential to maintain the habitat will be restored, enhanced and/or protected. If projects provide equal benefits, at equal costs, those closest with minimal operation and maintenance activities will be preferred.

3.5.3 *Quantifiable Benefits*

Projects expected to provide quantifiable benefits and likely to achieve success will have a higher priority than projects that do not. Restoration projects should include an evaluation of success and a monitoring component to determine the effectiveness of restoration actions in providing the public with similar services and values to those lost because of releases of hazardous substances into the environment. A timeline outlining the implementation and progression of the restoration project will be used by the Trustee Council to determine completion and success of the project. Overall success of the RP will depend upon success of each restoration project.

3.5.4 *Potential Adverse Effects to Natural Resources*

Preference will be given to projects that avoid or minimize additional natural resource injury or environmental degradation. The Trustee Council will require that requisite permits are obtained and comply with applicable regulations. All projects selected for implementation will be expected to comply with applicable and relevant laws, policies and regulations.

3.5.5 *Other Project Support*

Preference is expected to be given to projects or aspects of Trustee Council projects that are not already being implemented or have insufficient funding under other programs. Although the Trustee Council may use restoration planning efforts completed by other programs, preference is given to projects that would not otherwise be implemented without NRD restoration funds.

3.5.6 *Voluntary Land Acquisition/Easements*

Preservation of habitats through acquisition of land, Environmental Covenants, or Conservation Easements will only be from willing sellers or participants. Landowners are, and will be, under no obligation to sell land to the government agencies or other organizations associated with the Trustee Council. Neighbors adjacent to land purchased for preservation under this RP will retain all of their current rights to their land. Land acquisitions may be conducted by government agencies using settlement moneys, or directly by settling PRPs. The government agencies are required to pay fair market value for land purchased. Fair market value would be determined through established appraisal procedures.

3.5.7 *Tribal Cultural Resources*

The preservation or restorations of specific areas or resources that have appreciable cultural value to Indian tribes are important to the Trustee Council. A search of the Native American Consultant Database maintained by the National Park Service identified no Indian tribes with relevant interest in the ORG or City of Toledo restoration project areas.

3.6 *Selected Alternative*

The Trustee Council has selected Alternative B that includes the ORG and City of Toledo restoration projects. Natural resource based restoration outside the Western Lake Erie Basin (Alternative C) may provide services similar to those within the Western Lake Erie Basin. However, because of the distinct nature of Western Lake Erie and its tributaries (shallow, highly productive, warm water habitat), such projects would not benefit the same species assemblages that were injured in the Assessment Area. In addition, federal wildlife refuges, state wildlife areas in the Western Lake Erie Basin, as well as the City of

Toledo's location on the Ottawa River provide existing entities and infrastructure for highly cost effective long term operation of projects. The final decision on the selected Alternative has been made by the State of Ohio Trustee and the Federal AO based on recommendations from the Trustee Council staff and input from the public.

3.7 Summary of Alternative Actions

Table 1: Comparison of Alternatives A, B & C

Actions	Alternative A	Alternative B	Alternative C
	No Action	Natural Resource Based Restoration in the Western Lake Erie Basin and/or the Ottawa River (Selected Action)	Natural Resource Based Restoration Outside the Western Lake Erie Basin and/or Ottawa River Watershed
Restore, rehabilitate, replace and/or acquire the equivalent of natural resources injured from the release of hazardous substances into the environment and services those resources provide	No	Yes	Partial. Species assemblages would not be the same as those injured
Rehabilitate wetlands, flood plains, riparian and associated upland habitat	No	Yes	Yes
Improve aquatic habitat and near-shore habitat	No	Yes	Possibly
Provide for enhancement of abundance and diversity of self-sustaining fish populations	No	Yes	Partial. Species assemblages would be different from those injured
Preservation of wetlands, flood plain, riparian and associated upland habitat	No	Yes	Yes
Improve outdoor recreational opportunities/enhance public awareness	No	Yes	Yes

SECTION 4

AFFECTED ENVIRONMENTS

The terrestrial, wetland, and aquatic habitats of the Assessment Area support a wide diversity of birds, fish, and mammals, including many rare, threatened, and endangered species. The health of the ecosystem and the quality of its habitats are vital to the invertebrates, plants, fish, and wildlife of the area. Public uses and enjoyment of these resources also depend on the health and quality of these areas.

4.1 Physical Characteristics

The Assessment Area is located in northwestern Ohio in Lucas and Ottawa Counties. It includes the lower 8.8 miles of the Ottawa River. Figure 1, identifies the Assessment Area.

4.2 Affected Environments and Species

4.2.1 Habitat/Vegetation

The City of Toledo, with a population of more than 250,000 is the only significant urban center in the Assessment Area. There is extensive urban development along the Ottawa River in the City of Toledo, with substantial marina development near the confluence of the Ottawa River with Maumee Bay. However, there is still some undeveloped land in the lower reaches of the Ottawa River, including hydraulically connected wetland complexes within the City of Toledo. Habitat along the Lake Erie shoreline from Toledo to Port Clinton, Ohio is primarily agricultural, with some residential development.

There are several State Wildlife Areas and National Wildlife Refuges along the southern shoreline or a few miles inland of Lake Erie. These include Cedar Point National Wildlife Refuge, Ottawa National Wildlife Refuge, Magee Marsh State Wildlife area, Toussaint State Wildlife Area, Mallard Club State Wildlife Area, and the Metzger Marsh State Wildlife Area. These areas are managed primarily for waterfowl habitat and most include coastal wetlands hydraulically connected to Western Lake Erie, which provide spawning and nursery habitat for Western Lake Erie and tributary fish species.

4.2.2 Listed, Proposed, and Candidate Species

The Assessment Area and proposed restoration project locations fall within range of the Indiana bat, piping plover, and clubshell mussel, which are Federally-listed endangered species. In addition, the federally listed threatened native plant species, the eastern prairie fringed orchid and State species of concern, the Kirtland snake and the Blanding's turtle have been identified in the restoration boundaries. An endangered species is any species that is in danger of extinction throughout all or a significant portion of its range. A threatened species is likely to become endangered in the foreseeable future. A candidate species is a species for which the Service has sufficient information on their biological status and threats to propose listing them as endangered or threatened under the Endangered Species Act, but for which development of a proposed listing regulation is precluded by other higher priority listing activities.

The Federally-listed species discussed above are potentially present in the restoration area boundaries for both Alternative B and C. The following sections provide additional information on Federally-listed species.

4.2.2.1 Birds

Piping plover (*Charadrius melodus*) habitat includes sand or pebble beaches with sparse vegetation along the shore of Lake Erie. The piping plover was designated as endangered in the Great Lakes watershed in December 1985. The decline in piping plover populations has been linked to natural and human caused factors such as high water levels, eroding beaches, and commercial and residential beach front. Critical habitat for the piping plover was designated in 2001 at Headlands Dune in neighboring Lake County and Sheldon Marsh in north central Ohio's Erie County. Critical habitat is an area that is essential for the conservation of a threatened or endangered species that may require special management and protection.

The bald eagle (*Haliaeetus leucocephalus*) has been documented in Lucas and Ottawa counties. Bald eagles build large stick nests lined with soft materials such as grass, leaves, and Spanish moss. Nests are used for several years by the same pair of eagles, with the birds adding materials each year. The bald eagle was designated as endangered in the lower 48 states in March of 1967 due to declining populations resulting from chemical usage, shooting and persecution of individual birds, and the loss of nesting habitat due to development along the coast and near inland rivers and

waterways. After years of protection, decrease in chemical usage in the United States, and education against shooting eagles, there has been an increase in eagle populations. The bald eagle was reclassified as threatened in 1995. In 2007, the bald eagle was de-listed, but is still protected under various Federal statutes.

4.2.2.2 Mammals

The Indiana bat (*Myotis sodalis*) was designated as endangered throughout its range in March of 1967. Limestone caves are used for winter hibernation. The decline of this species has been attributed mainly to human disruption and commercialization of roosting caves. During the summer months, the bats roost in trees which have exfoliating bark, and dead or live trees with split tree trunks and/or branches, and cavities (that may be used as maternity or male roost areas). Stream corridors, riparian areas, and upland woodlots provide forage sites.

The northern long-eared bat (*Myotis septentrionalis*) (NLEB) was listed as threatened on May 4, 2015, under the Endangered Species Act (ESA) (87 Stat. 884, as amended; 16 U.S.C. 1531 *et seq.*). See, 80 Fed. Reg. 2371 (January 16, 2015). At this time, no critical habitat has been proposed for the NLEB. The entire state of Ohio is within the known range of the NLEB. During the summer, NLEBs typically roost singly or in colonies in cavities, underneath bark, crevices, or hollows of both live and dead trees and/or snags (typically ≥ 3 inches diameter breast height). Males and non-reproductive females may also roost in cooler places, like caves and mines. This bat seems opportunistic in selecting roosts, using tree species based on presence of cavities or crevices or presence of peeling bark. It has also been occasionally found roosting in structures like barns and sheds (particularly when suitable tree roosts are unavailable). They forage for insects in upland and lowland woodlots and tree lined corridors. During the winter, NLEBs predominately hibernate in caves and abandoned mine portals. Additional habitat types may be identified as new information is obtained. Therefore, if suitable NLEB habitat is present within the proposed project area, further coordination with the Service should occur to avoid potential project delays.

4.2.2.3 Aquatic Organisms

The clubshell mussel (*Pleurobema clava*) is a federally endangered species that was once found from Michigan to Alabama, and from Illinois to West Virginia. Extirpated from Alabama, Illinois and Tennessee, it occurs today in portions of only 12 streams. Reasons for its decline in the upper Ohio and Wabasha watersheds have been principally due to pollution from agricultural run-off and industrial wastes, and extensive

impoundments for navigation. These are thought to be also responsible for its decline elsewhere as well.

4.2.2.4 Reptiles

The eastern massasauga rattlesnake (*Sistrurus catenatus*) has now been proposed to Federal Candidate status in 1999. Destruction and modification of habitat is the main threat to this species. The massasauga is a small to medium-sized snake that inhabits various wetland types as well as dry, well-drained sandy uplands.

4.2.2.5 Plants

The eastern prairie fringed orchid (*Platanthera leucophaea*) is a federally threatened species that occurs in a wide variety of habitats, from mesic prairie to wetlands such as sedge meadows, marsh edges, even bogs. It requires full sun for optimum growth and flowering and a grassy habitat with little or no woody encroachment. A symbiotic relationship between the seed and soil fungi, called mycorrhizae, is necessary for seedlings to become established. These fungi help the seeds assimilate nutrients in the soil. Decline of this species is mainly due to the loss of habitat from the drainage and development of wetlands. Other reasons for the current decline include succession to woody vegetation, competition from non-native species and over-collection.

4.2.2.6 State-Listed Species

In addition to Federally-listed endangered and threatened species, the state of Ohio Department of Natural Resources Division of Natural Areas and Preserves maintains a database of rare plants and animals. The following general listing categories are used: (1) *endangered* - a native species or subspecies threatened with extirpation from the State: this danger may result from one or more causes, such as habitat loss, pollution, predation, interspecific competition or disease; (2) *threatened* - a species or subspecies whose survival in Ohio is not in immediate jeopardy, but to which a threat exists: continued or increased stress will result in its becoming endangered; and, (3) *species of concern* - a species or subspecies which might become threatened in Ohio under continued or increased stress, or a species or subspecies for which there is some concern but for which information is insufficient to permit an adequate status evaluation. In Lucas and Wood Counties, there are 80 endangered, 66 threatened, and 14 species

of special concern. Section 4.2.3 discusses some of these and other Ohio species. A complete list of listed species in Lucas and Wood counties can be found here:

<http://wildlife.ohiodnr.gov/portals/wildlife/pdfs/species%20and%20habitats/state-listed%20species/lucas.pdf>

<http://wildlife.ohiodnr.gov/portals/wildlife/pdfs/species%20and%20habitats/state-listed%20species/wood.pdf>

4.2.3 Other Fish and Wildlife Species

The following section provides a general list of fish and wildlife found in the Ottawa River as well as other tributaries to Western Lake Erie. The Ottawa River and Lake Erie shoreline between Toledo and Port Clinton, Ohio are located on both the Atlantic and the Mississippi flyways, with over three million ducks and geese using this corridor (see Figure 4). Many migratory bird species nest on the outer breakwalls and wetlands near the river and Lake Erie. These include, but are not limited to, the osprey (*Pandion haliaetus*), wood duck (*Aix sponsa*), Canada goose (*Branta canadensis*), common merganser (*Mergus merganser*), great blue heron (*Ardea herodias*), cliff swallow (*Hirundo pyrrhonta*), tree swallow (*Tachycineta bicolor*), Caspian tern (*Sterna caspia*), Forster's tern (*Sterna forsteri*), common tern (*Sterna hirundo*), mallard (*Anas platyrhynchos*), black duck (*Anas rubripes*), lesser scaup (*Aythya affinis*) and kingfisher (*Ceryle alcyon*). Numerous additional species of migratory neotropical songbirds inhabit the area seasonally. Smaller mammals likely to use the Ottawa River area include opossum (*Didelphis virginiana*), eastern cottontail rabbit (*Sylvilagus floridanus*), eastern chipmunk (*Tamias striatus*), woodchuck (*Marmota monax*), eastern gray squirrel (*Sciurus gireus*), red fox (*Vulpes fulva*), striped skunk (*Mephitis mephitis*), and raccoon (*Procyon lotor*).

Fish species in, or seasonally using the Ottawa River and other Western Lake Erie tributaries include, but are not limited to, least brook lamprey (*Lampetra aepyptera*), northern bigeye chub (*Notropis amblops*), rosyface shiner (*Notropis rubellus*), mimic shiner (*Notropis volucellus*), spottail shiner (*Notropis hudsonius*), emerald shiner (*Notropis atherinoides*), black redhorse (*Moxostoma duquesnei*), silver redhorse (*Moxostoma anisurum*), white sucker (*Catostomus commersoni*), rainbow darter (*Etheostoma caeruleum*), Johnny darter (*Etheostoma nigrum*), log perch (*Percina caprodes*), walleye (*Stizostedion vitreum*), yellow perch (*Perca flavescens*), white bass (*Morone chrysops*), smallmouth bass (*Micropterus dolomieu*), pumpkinseed (*Lepomis gibbosus*), white crappie (*Pomoxis annularis*), common carp (*Cyprinus carpio*), brown bullhead (*Ictalurus nebulosus*), alewife (*Alosa pseudoharangus*), rainbow smelt

(*Osmerus mordax*), freshwater drum (*Aplodinotus grunniens*), lake sturgeon (*Acipenser fulvescens*), coho salmon (*Oncorhynchus kisutch*) and Chinook salmon (*Oncorhynchus tshawytscha*). Rainbow smelt (*Osmerus mordax*), rainbow trout (*Oncorhynchus mykiss*), coho salmon (*Oncorhynchus kisutch*) and Chinook salmon (*Oncorhynchus tshawytscha*) are anadromous fish species. Great Lakes populations of lake trout (*Salvelinus namaycush*), yellow perch (*Perca flavescens*), lake sturgeon (*Acipenser fulvescens*), walleye (*Stizostedion vitreum*) and forage fish are nationally significant fish stocks pursuant to the Great Lakes Fish and Wildlife Restoration Act. A variety of reptile and amphibian species are potentially present in the area, including snapping turtle (*Chelydra serpentina*), green frog (*Rana clamitans*), and eastern milk snake (*Lampropeltis triangulum*) (U.S. FWS 2001).

Figure 3: North American Migration Flyways – Atlantic flyway through Wood, Lucas and Ottawa Counties, Ohio.



4.3 Land Use

Land use in the Western Lake Erie Basin/Ottawa River watershed is comprised of urban development along the shores of the Ottawa and Maumee Rivers and is primarily

agricultural along the Lake Erie shoreline from Toledo to Port Clinton, Ohio. The City of Toledo, with a population of more than 250,000 is largest Ohio urban center in the Western Lake Erie Basin/Ottawa River watershed. There is extensive urban development along the Ottawa River in the City of Toledo, with substantial marina development near the confluence of the Ottawa River with Maumee Bay. However, there is still significantly undeveloped land in the lower reaches of the Ottawa River, including hydraulically connected wetland complexes within the City of Toledo. Habitat along the Lake Erie shoreline from Toledo to Port Clinton, Ohio is primarily agricultural, with some residential development.

4.4 Cultural Resources

At least one historic archaeological site is located near the proposed ORG restoration project. The Two Rivers site, located at the confluence of the Portage and Little Portage Rivers, is designated as 33-ot-17 on the Ohio Archaeological Inventory. The site appears to be a significant representation of post 1400 A. D. habitation by Upper Mississippian peoples. There are likely additional sites within the area south of the Lake Erie shoreline. Archaeological sites and other cultural resources will be identified prior to restoration and applicable State and federal rules and regulations will be followed.

SECTION 5

ENVIRONMENTAL CONSEQUENCES

5.1 Alternative A: No Action

5.1.1 Habitat Benefits

Under Alternative A, no habitat would be restored, enhanced, or preserved beyond what the Trustees are currently doing within mandates, policies and restricted budgets. Loss of habitat due to development and other sources of environmental degradation not related to hazardous substance releases is expected to continue to occur. The public would not be compensated for injuries to natural resources from the releases of hazardous substances into the environment.

5.1.2 Biological Benefits

Fish and wildlife harmed by releases of hazardous substances into the environment would not be restored, rehabilitated, replaced and/or the equivalent acquired. Populations of fish and wildlife species that rely on wetlands for spawning and nurseries would not increase sufficiently to compensate for past losses.

5.1.3 Listed, Proposed, and Candidate Species

Negative effects to listed species would not be reduced under this Alternative.

5.1.4 Cultural Resources

Cultural resources would not be impaired.

5.1.5 Environmental Justice

Executive Order 12898, *Federal Actions to Address Environmental Justice in Minority Populations and Low-Income Populations* (59 Fed. Reg. 7629 (1994)), directs Federal agencies to incorporate environmental justice in their decision making process. Federal agencies are directed to identify and address as appropriate, any disproportionately high and adverse environmental effects of their programs, policies and activities on minority or low-income populations.

Under the No Action Alternative, wildlife viewing and environmental education opportunities would not improve through enhancement projects. While affluent individuals can afford to travel and pay for alternatives in other locations, low-income individuals are less capable of doing so.

5.1.6 Socioeconomic Effects

This Alternative would not result in any positive indirect improvement on the local economy. This Alternative would not result in additional lands that could provide increased recreational opportunities and related economic development in the area.

5.1.7 Cumulative Effects

If this Alternative was implemented, the public would not be compensated for injuries to natural resources. The exclusive reliance on regulations and policies do not necessarily provide for long term preservation of valuable wetland and upland habitats. The watershed of the Ottawa River includes many different habitats, such as flood plain forests, dry upland forests, emergent, submergent and forested wetlands. Open water fisheries exist in the Western Lake Erie basin. Birds use the shoreline along the Ottawa River and Western Lake Erie as migration corridor habitat. Injuries to these and other resources would continue due to historical and on-going development. No fishery resource enhancement projects would be implemented under the No Action Alternative, thus further impacting the fishery. The loss and degradation of coastal and riparian wetlands would contribute to the continued instability of the fish community in the Ottawa River and Western Lake Erie. The continued loss of habitat could also adversely affect migratory birds that use the area for resting grounds, and nesting area for those species that remain for the nesting season.

5.2 Alternative B: Natural Resource Based Restoration Inside the Western Lake Erie Basin and/or the Ottawa River (Selected Alternative)

5.2.1 Habitat Benefits

Preserving, restoring or enhancing riparian, wetland, flood plain and upland habitats along the southern shoreline of the Western Lake Erie Basin and the Ottawa River improves ecological functions that are essential for many fish and wildlife species. In addition, habitat restoration and preservation also improve public use and enjoyment of these resources. Benefits of aquatic and near-shore habitat improvements or enhancement would include improved water quality, reduced nutrient, sediment, and pesticide loadings, restored habitat for fish and wildlife species, and increased ecological productivity. Improving the quality of vegetation and habitat for fish and birds would provide similar, though not the same ecological functions, as those injured by hazardous substances. These and other long-term benefits outweigh any adverse effects associated with specific habitat restoration or enhancement methods.

Under Alternative B, there would be minimal short-term degradation of habitat due to the manipulation of soil required to complete wetland and aquatic habitat restoration and enhancement projects. Some injuries could occur if habitat is destroyed to construct trails, boat ramps, or other public use facilities. However, these same projects would also be directed to control and monitor human pressure on those resources.

5.2.2 Biological Benefits

The restoration alternatives would benefit many different species of fish and wildlife found in the area. Preservation, reestablishment and enhancement of wetland, flood plain, riparian, associated upland, and aquatic habitats would benefit such species as waterfowl, rails, terns, songbirds, osprey, mink, and beaver. Fishery resource enhancement projects would benefit species such as the northern pike, black redhorse, rock bass, and smallmouth bass leading to the development of a balanced, healthy fish community. Through the habitat quality improvement projects there would be an increase in shallow waters and beds of submergent and emergent vegetation providing habitat for migrating waterfowl, feeding areas for shorebirds, waterbirds, and many species of fish found in the area. There would be minimal negative effects to biological resources from human disturbance in relation to use of preserved areas and natural resource based public use projects. The public use projects would also protect and potentially minimize human disturbance to fish and wildlife by controlling human pressure on those resources.

5.2.3 Listed, Proposed, and Candidate Species

Federal and State-listed or endangered species would receive further protection and aid in the recovery of the species if this Alternative was implemented. Wetland, flood plain, riparian, associated upland and aquatic habitat preservation would most likely benefit bald eagles, eastern massasauga rattlesnake, eastern fringed orchid, Kirtland's snake, and Blanding's turtle. Although a no effect determination was made in regard to the Indiana bat and the northern long-eared bat, there is a potential for a positive effect once the restoration is complete. Protective measures (Appendix A) would be taken during implementation of any projects. Adherence to the restrictions should provide for no adverse effects on the listed species.

5.2.3.1 Birds

Bald eagle nesting and species that are prey to bald eagles could be directly or indirectly reestablished, enhanced, or preserved through the restoration alternatives. Alternative B could include protection or acquisition of habitat needed by the piping plover for nesting.

5.2.3.2 Mammals

The Indiana bat may use stream corridors or uplands restored or acquired under Alternative B. State-listed endangered species such as the black bear or the bobcat may use lands restored or acquired under Alternative B.

5.2.3.3 Reptiles

Populations of the federal candidate species eastern massasauga rattlesnake, and the State-listed (threatened) spotted turtle (*Chlemmys guttata*), have been affected by habitat fragmentation and encroachment throughout their range. These species may benefit from projects involving restoration of habitats such as wetlands and associated uplands.

5.2.3.4 Aquatic Organisms

The least brook lamprey, rosyface shiner, big eye chub, mimic shiner, and black redhorse are pollution sensitive State-listed declining species, which may return to the Ottawa River. Protection of riparian forests and aquatic resources will help maintain the presence of these species. The clubshell mussel and other mussel species (e.g., State-threatened black sandshell (*Ligumia recta*)) require clean waterways. Mussel populations may return to surrounding waterways once aquatic and near-shore habitat restoration projects improve overall water quality in the area.

5.2.3.5 Plants

The eastern prairie fringe orchid and other plants would benefit from habitat protection and improvement by implementing this alternative. The City of Toledo Low Service Pump Station project specifically targets habitat improvement and restoration for this species.

5.2.4 Cultural Resources

Projects covered under this document such as plugging drainage ditches, breaking drainage tile systems, stabilizing stream banks, acquiring wetlands, and development for public uses have the potential to affect properties meeting the criteria for the Natural

Register of Historic Places and other cultural resources. The Trustees are in the process of determining specific areas for wetland restorations, stream bank stabilization and land acquisition. When these project areas have been determined, and prior to making final decisions about these projects, the Field Supervisor, Columbus Ecological Field Office of the Service, will initiate consultation with the Ohio State Historic Preservation Officer and, with the assistance of the Service Regional Historic Preservation Officer, will complete the Section 106 (54 U.S.C. §306108) process as described in 36 Code of Federal Regulations Part 800.

5.2.5 Environmental Justice

Wetland, flood plain, riparian and upland preservation would involve transactions with willing landowners. No minority or low-income populations would be displaced or negatively affected in any way. While the primary purpose of the restoration of this land is for fish and wildlife, portions of the acquired properties may be used by the public for active and passive natural resource based recreational and educational activities, such as fishing and/or wildlife viewing. Aquatic habitat improvement would also enhance recreational opportunities in and around the Ottawa River. The Manhattan Marsh Project is a good example of these increased opportunities with its location near to lower income households and minority populations within the City of Toledo.

5.2.6 Socioeconomic Benefits

The overall quality of life for the surrounding communities would improve with the restoration of the area. Protection of wetlands, riparian, flood plains, and uplands would provide wildlife viewing, fishing and hunting, and help create positive economic growth on the local economy through the increase of travel and recreational opportunities. Aquatic habitat improvements or enhancements would provide more options for public enjoyment of natural resources.

Land acquisition procedures would involve transactions with willing sellers/land owners who would be paid fair market value. There would be little or no change on the market price or on landowners in the area who choose not to sell. There would be minimum effects on the local economy and tax base because the areas identified for preservation are currently undeveloped.

5.2.7 Elements Common to All Benefits

Other impairments to the ecosystem such as pollution associated with development would continue to affect the area where restoration projects would be implemented. These additional sources of habitat degradation may also inhibit the ability of the natural resources to fully recover or may act negatively on other restoration projects undertaken by the Trustee Council.

5.2.8 Cumulative Effects

Cumulative effects from habitat restoration or enhancement implemented under Alternative B including the Trustee supported projects would be a net positive influence on the region as a whole. Despite the existence of laws and regulations designed to minimize wetland and aquatic habitat losses, threats to wetlands and aquatic habitat from indirect sources, cumulative small scale injuries, or surrounding land use changes still exist. Partnering with various State and Federal programs (e.g., EPA's Section 319 Clean Water Act State Grants, National Coastal Wetlands Conservation Grants) that already contribute to improving the health of the ecosystems and watersheds will aid in restoring more habitats and increasing fish and wildlife populations.

Migratory birds would benefit from this Alternative because there would be more undisturbed areas for spring and fall migration resting and feeding stopovers, as well as nesting habitat for other bird species. This Alternative would contribute to the stabilization of fish communities by implementing appropriate fishery resource projects such as restoring fish spawning and nursery habitats.

5.3 Alternative C: Natural Resource Based Restoration Outside the Western Lake Erie Basin and/or Ottawa River

5.3.1 *Habitat Benefits*

Under this Alternative there would be improvement of habitats for fish and wildlife. However, those improvements would accrue to species and populations different from those injured at the Assessment Area. Habitat losses along the shoreline of the Western Basin of Lake Erie and the Ottawa River would likely continue.

5.3.2 *Biological Benefits*

Under this Alternative biological productivity would potentially be increased. However, the increases would involve species and populations different from those injured.

5.3.3 *Listed, Proposed, and Candidate Species*

Since specific projects outside the Western Lake Erie basin have not been identified, it is unknown if listed, proposed, or candidate species within the Assessment Area or Western Basin of Lake Erie would benefit from projects outside of those areas.

5.3.4 *Cultural Resources*

Projects covered under this document have the potential to affect properties meeting the criteria for the Natural Register of Historic Places and other cultural resources. With the exception of the CDM Property, specific project sites have not been determined. When these project areas have been determined, and prior to making final decisions about these projects, the Field Supervisor, Columbus Ecological Field Office of the Service, will initiate consultation with the Ohio State Historic Preservation Officer and, with the assistance of the Service's Regional Historic Preservation Officer, will complete the Section 106 (54 U.S.C. §306108) process as described in 36 CFR Part 800.

5.3.5 *Environmental Justice*

Land acquisitions and other activities would involve transactions with willing landowners. No minority or low-income populations would be displaced or negatively affected in any way. Provision of fishing piers and other structures could improve access for lower income individuals.

5.3.6 Socioeconomic Effects

The overall quality of life for the surrounding communities would improve with the restoration of the area. Augmentation of human use related services would help create positive economic impacts on the local economy.

5.4 Summary of Environmental Consequences for Each Alternative

Table 2: Comparison of Alternative A, B & C Environmental Consequences

Attributes	Alternative A No Action	Alternative B Natural Resource Based Restoration Inside the Western Lake Erie and/or Ottawa River (Selected Alternative)	Alternative C Natural Resource Based Restoration Outside the Western Lake Erie Basin and/or Ottawa River
Wetlands	Expected continued net loss of habitat	Increase of wetland habitat	Increase of wetland habitat outside the targeted area
Uplands associated with wetlands	Expected continued net loss of habitat	Increase of upland habitat associated with wetlands	Increase of upland habitat associated with wetlands outside the targeted area
Aquatic and near-shore habitat	Expected continued degradation and loss of habitat	Increase of aquatic habitat	Increase of aquatic habitat outside the targeted area
Fish resources	Expected populations would remain unbalanced for a greater length of time	Expected general increase diversity of fish community and populations	Expected general increase diversity of fish community and populations. Communities and population would be different from those injured
Wildlife resources	Expected continued harm and decrease of numbers	Expected general increase in populations	Expected general increase in populations. Populations would differ from those injured.
Listed threatened or endangered species	Expected negative impacts would continue	Expected to provide further recovery of species in the area	May, or may not assist recovery of species in the area of the Site
Cultural resources	N/A	Cultural resources protected	Cultural resources protected
Surface water	Expected to remain degraded due to nutrient loading and historic pollution in sediment	Expected general increase in surface water quality	Expected general increase in surface water quality
Environmental justice issues	No opportunities for increased quality of life	Expected increased quality of life in Ottawa and Lucas counties	Expected increased quality of life in Ottawa and Lucas counties
Socioeconomic issues	Expected local economy would remain the same or decrease due to continued injury without restoration	Local economy could potentially increase due to restoration	Expected local economy would remain the same or decrease due to continued injury without restoration
Recreational use Environmental education and resource enjoyment	No enhancement or increase of low impact recreational opportunities or environmental education	Increase opportunities for wildlife/bird viewing, fishing as well as enhancement of understanding of the ecosystem	Increase opportunities for wildlife/bird viewing, fishing as well as enhancement of understanding of the ecosystem, but outside of the injured area
Cumulative effects	Potential decrease in populations of migratory birds, continued degraded fishery and continued loss of wetland and associated upland habitat in the EA area	Expected increase populations of migratory birds and greater diversity in the fish community; some ecosystem functions are to be restored or compensated	Expected increase populations of migratory birds and greater diversity in the fish community; ecosystem functions in the area of injury would not be addressed

SECTION 6

CONSULTATION AND COORDINATION WITH THE PUBLIC AND OTHERS

6.1 National Historic Preservation Act Compliance

The Service's Project Leader for Columbus Ecological Services will provide the State Historic Preservation Officers with this Final RP/EA as part of the public review and comment process.

6.2 Endangered Species Act Compliance

This Final RP/EA complies with Section 7 of the ESA of 1973 as amended, 16 U.S.C. § 1531, *et seq.*, and its implementing regulation (50 C.F.R. 402) (Appendix A).

6.3 Public Participation

Public review of the Final RP/EA is an integral component of the assessment and restoration planning process. Through the public review process, the Trustees sought public comment on the actions proposed to restore injured natural resources or replace lost resource services. The Draft RP/EA was available for review and comment by the public. A public meeting was held to present the restoration actions proposed to compensate the public for injuries to those natural resources covered herein. Notice of the meeting date and time was published in the local newspaper.

SECTION 7

2016 TRUSTEE TEAM

Archie L. Lunsey II

Manager

Division of Environmental Response and Revitalization

Northwest District Office

347 N. Dunbridge Road

Bowling Green, Ohio 43402

Timothy J. Kern
Principal Assistant Attorney General
Ohio Attorney General Office
Environmental Enforcement Section
30 East Broad St. 25th Floor
Columbus, Ohio 43215-3400

Kimberly Gilmore
U.S. Department of the Interior - Office of the Solicitor
Three Parkway Center, Room 385
Pittsburgh, PA 15220

Deborah Millsap
NRDA Case Manager
Ohio Ecological Field Office
U S Fish and Wildlife Service
Columbus Ohio Field Office
4625 Morse Road, Suite 104
Columbus, Ohio 43230

Kimberly Rhoads
Staff Attorney
Ohio EPA's Office of Legal Services
50 W. Town St., Ste. 700
P.O. Box 1049
Columbus, OH 43216

Steven Ellis
Senior Counsel
U.S. Department of Justice
Environmental Enforcement Section
Patrick Henry Building
601 D Street, N.W.
Washington, D.C. 20004

Brian Tucker
NRD Coordinator
Ohio EPA, Division of Environmental Response & Revitalization
50 W. Town St., Ste. 700
P.O. Box 1049
Columbus, OH 43216

Ohio Environmental Protection Agency Approval of the
Final Natural Resource Restoration Plan & Environmental Assessment
for the Ottawa River Assessment Area

Approved:



Craig W. Butler, Director

Ohio Environmental Protection Agency

AUG 04 2016

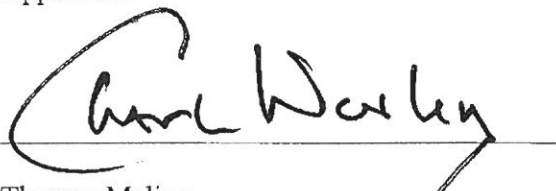
Date

**U.S. Department of the Interior Approval
of the
Final Natural Resource Restoration Plan & Environmental Assessment
for the Ottawa River Assessment Area**

In accordance with the U.S. Department of the Interior policy regarding documentation for natural resource damage assessment and restoration projects (521 DM 3), the Authorized Official for the Department must approve the final restoration plan.

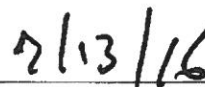
The Regional Director of Region 3 of the U.S. Fish & Wildlife Service is the Authorized Official for the Ottawa River Natural Resource Damage Assessment and approves the Final Natural Resource Restoration Plan & Environmental Assessment for the Ottawa River Assessment Area.

Approved:

A handwritten signature in black ink, appearing to read "Charles M. Wooley", is written over a horizontal line.

Thomas Melius
Regional Director
Midwest Region
U.S. Fish & Wildlife Service

Charles M. Wooley
Acting Regional Director

A handwritten date "2/13/16" is written in black ink above a horizontal line.

Date

Appendix A: Service Intra-Service Section 7 Biological Evaluation Form

Intra-Service Section 7 Biological Evaluation Form

Region 3

Originating Person: Deborah Millsap Date Submitted: 5/3/2016

Telephone Number: 614-416-8993 ex 14

For assistance with section 7 reviews, go to Region 3's Section 7 Technical Assistance website:
<http://www.fws.gov/midwest/endangered/section7/s7process/>

- I. Service Program and Geographic Area or Station
Name:
U.S. Fish and Wildlife Service, Ohio Ecological Services Field Office, Columbus, OH
- II. Location: Location of the project including County, State and TSR (township, section & range): Ottawa River NRDA site, Lucas and Ottawa Counties, Lake Erie Watershed, Ohio
- III. Species/Critical Habitat: List federally-listed, proposed, and candidate species or designated or proposed critical habitat that may occur within the action area:
- Indiana bat (*Myotis sodalis*) Endangered
 - Northern long-eared bat (*Myotis septentrionalis*) Threatened
 - Karner blue butterfly (*Lycaeides melissa samuelis*) Endangered
 - Kirtland's warbler (*Setophaga kirtlandii*) Endangered
 - Piping plover (*Charadrius melodus*) Endangered
 - Rayed bean (*Villosa fabalis*) Endangered
 - Red knot (*Calidris canutus rufa*) Threatened
 - Eastern massasauga rattlesnake (*Sistrurus catenatus catenatus*) Candidate
 - Bald eagle (*Haliaeetus leucocephalus*) Species of Concern
 - Eastern fringed orchid (*Platanthera leucophaea*) Threatened
 - Lakeside daisy (*Hymenoxys herbacea*) Threatened
 - Lake Erie watersnake (*Nerodia sipedon insularum*) Species of Concern

These species occur within Lucas and Ottawa Counties, though most occur outside of the project area. Only the bald eagle is known to occur within the project area. Due to the location, type of project proposed, and that the habitat impacted is extensively agricultural this project will have no effect on the Indiana bat, northern long-eared bat, Karner blue butterfly, Kirtland's warbler, piping plover, rayed bean, red knot, lakeside daisy, or Lake Erie watersnake. While it is unclear whether the eastern prairie fringed orchid occurs on-site, it is known to occur either within Bay Township or adjacent townships. The Ohio ESFO will be consulted to develop a restoration work plan that will avoid any negative impacts to these species (e.g., specifically the timing of restoration measures can be used to avoid impacts to the eastern prairie fringed orchid should they occur onsite).

- IV. Project Description: Describe the proposed project or action, including all conservation elements. If referencing other documents, prepare an executive summary. Include map and photos of site, if possible. (Attach additional pages as needed):

This a settlement of claims brought by U.S. FWS and Ohio EPA for injuries to natural resources in and

around the Ottawa River resulting from unpermitted releases of hazardous substances. The project will consist of acquisition, restoration, and protection of riparian and wetland habitat in the Lake Erie watershed. Properties have been and will be acquired from willing sellers and transferred to local public entities. Restoration will include controlling exotic species, planting native species, and restoring hydraulic connections of historically connected streams and wetlands with the Ottawa River and Maumee Bay/Lake Erie. All acquired properties will be protected by Environmental Covenants. Specific project plans are not available at this time.

V. Determination of Effects:

A. Description of Effects: Describe how the action(s) will affect the species and critical habitats listed in item III, including how Part IV conservation elements benefit or avoid adverse effects. Your rationale for the Section 7 determinations made below (VB.) should be fully described here.

The Restoration Plan involves converting an existing agricultural area into a wetland. This combined with the riparian, and aquatic habitat preservation would most likely benefit the species listed below which are found within the Ottawa River/Lake Erie watershed:

- Bald eagle (*Haliaeetus leucocephalus*) Species of Concern
- Eastern fringed orchid (*Platanthera leucophaea*) Threatened

Projects implemented through the Restoration Plan and Environmental Assessment are not likely to adversely affect federally listed species and critical habitat and are not likely to jeopardize candidate species because:

1. current habitat is almost extensively agricultural, thus is not suitable for listed species.
 2. the Service will develop a restoration plan. If the restoration plan is changed or avoidance measures cannot be adhered to for a particular project, the U.S. Fish and Wildlife Service will be coordinated with prior to conducting further work.
 3. EPFO surveys were conducted in June 2015 on the proposed restoration sites, no EPFO were located given the heavy growth of invasive plants. The proposed restoration will improve the habitat conducive for EPFO growth.
 4. minimization measures will be implemented for EPFO during the restoration implementation
 - in areas of potential habitat for EPFO the area will be surveyed sometime during the growing season when plants are easily observed, (June 15 to July 15) prior to activity starting. In areas of known populations follow up surveys should be conducted 3-5 years after extensive activities.
- For all potential habitat, extreme disturbance should be avoided. To avoid extreme disturbance: limit erosion and excavation. Tracked equipment should be used if possible.
- If excavation occurs, maintain topsoil in a separate area and return it to the surface when excavation is complete.
 - Prescribed burning should be conducted during plant dormancy between September 1 and April 1.
 - No mowing or herbicide applications should occur after May 1st and before August 31st

For EPFO the hydrology must be appropriate

- Any temporary dams must be removed if they negatively affect hydrology
- Topography must be returned to conditions to maintain appropriate hydrology

B. Determination: Determine the anticipated effects of the proposed project(s) on species and critical habitats listed in item III. Check all applicable boxes and list the species (or attach a list) associated with each determination. For assistance with making appropriate Section 7 determinations, go to Region

3's Section 7 Technical Assistance website:

<http://www.fws.gov/midwest/endangered/section7/s7process/>

Determination

No Effect: This determination is appropriate when the proposed project will not directly or indirectly affect (neither negatively nor beneficially) individuals of listed/proposed/candidate species or designated/proposed critical habitat of such species. No concurrence from ESFO required.

X

- Indiana bat (*Myotis sodalis*) Endangered
- Northern long-eared bat (*Myotis septentrionalis*) Threatened
- Karner blue butterfly (*Lycaeides melissa samuelis*) Endangered
- Kirtland's warbler (*Setophaga kirtlandii*) Endangered
- Piping plover (*Charadrius melodus*) Endangered
- Rayed bean (*Villosa fabalis*) Endangered
- Red knot (*Calidris canutus rufa*) Threatened
- Lakeside daisy (*Hymenoxys herbacea*) Threatened
- Lake Erie watersnake (*Nerodia sipedon insularum*) Species of Concern

May Affect but Not Likely to Adversely Affect: This determination is appropriate when the proposed project is likely to cause insignificant, discountable, or wholly beneficial effects to individuals and designated critical habitat. Concurrence from ESFO required.

X

- Eastern fringed orchid (*Platanthera leucophaea*) Threatened
- Bald eagle (*Haliaeetus leucocephalus*) Species of Concern

May Affect and Likely to Adversely Affect: This determination is appropriate when the proposed project is likely to adversely impact individuals of listed species or designated critical habitat of such species. Concurrence from ESFO required.

Not Likely to Jeopardize candidate or proposed species/critical habitat: This determination is appropriate when the proposed project is not expected to jeopardize the continued existence of a species proposed for listing or a candidate species, or adversely modify an area proposed for designation as critical habitat. Concurrence from ESFO required.

Likely to Jeopardize candidate or proposed species/critical habitat: This determination is appropriate when the proposed project is reasonably expected to jeopardize the continued existence of a species proposed for listing or a candidate species, or adversely modify an area proposed for designation as critical habitat. Concurrence from ESFO required.

Signature _____

Date _____

[Supervisor at originating office]

Reviewing Ecological Services Office Evaluation (check all that apply):

A. **Concurrence** ☒

Nonconcurrence

Explanation for nonconcurrence:

B. Formal consultation required _____

List species or critical habitat unit

C. Conference required _____

List species or critical habitat unit

Name of Reviewing ES Office Columbus Ecological Services Field Office

Megan Seymour 5/6/16

Signature

Jan Evers

Date

5-6-16

Appendix B: Transcript of April 7, 2016 Public Meeting on Draft RP/EA and
Written Comments Submitted to the Trustees

OHIO ENVIRONMENTAL PROTECTION AGENCY
INFORMATION SESSION & PUBLIC HEARING

Draft Ottawa River Restoration Plan
and Environmental Assessment

- - -

Date and Time: Thursday, April 7, 2016
6:00 p.m.

Place: Toledo City Council Chambers
One Government Center
401 South Erie Street
Toledo, Ohio

Reporter: Marie B. Fresch
Registered Merit Reporter
Notary Public, State of Ohio

PRESENT:

Ms. Darla L. Peelle, Hearing Officer
Ohio EPA
Public Interest Center

Mr. Brian Tucker, Ohio EPA
Division of Environmental and Response and Restoration

Ms. Deborah Milsap, U.S. Fish and Wildlife

Mr. Archie Lunsey, Ohio EPA
Division of Environmental and Response and Restoration

1 INFORMATION SESSION

2 Introduction by Darla L. Peelle.

3 Presentation by Brian Tucker.

4 - - -

5 PUBLIC HEARING

6 Comments accepted on the Record

7 Q&A held

8 - - -

9 MS. PEELLE: The purpose of
10 this public hearing is to accept comments on the
11 official record regarding the draft restoration plan and
12 environmental assessment for the Ottawa River in Toledo
13 issued by Ohio EPA and U.S. Fish and Wildlife Services,
14 referred to as joint trustees.

15 The restoration plan and environmental assessment
16 addresses natural resources injured and ecological
17 services lost due to releases of hazard substances to
18 the Ottawa River, and outlines the Trustees' preferred
19 alternative for restoration.

20 A public notice to announce the hearing and public
21 comment period regarding the draft restoration plan and
22 environmental assessment was published in the newspapers
23 in the area, such as the Toledo Blade, for instance.
24 This notice was issued in Ohio EPA's Weekly Review,
25 which is a publication that lists by county, all Agency

1 activities and actions taking place in the State of
2 Ohio.

3 All written and oral comments received as a part of
4 the official record will be reviewed by the Trustees
5 before making a final decision, before finalizing the
6 plan. Written comments must be received by the Trustees
7 by close of business on April 15, 2016. Comments
8 received after this date may be considered as time and
9 circumstances permit, but you will not be a part of the
10 official record for this hearing.

11 Written comments can be filed with us today or
12 submitted in writing to Archie Lunsey, Environmental
13 Manager, Ohio EPA, Northwest District Office, 347 North
14 Dunbridge Road, Bowling Green, Ohio, 43402, or via email
15 at Archie.Lunsey@epa.ohio.gov.

16 This information can also be found in the
17 presentation handout, and I would say comments can also
18 be addressed to Brian or to Deborah as well.

19 It's important for you to know all comments,
20 whether written or spoken, are given the same
21 consideration.

22 Questions and comments made during the hearing will
23 be responded to in a document known as a Response to
24 Comments. The Trustees, after taking into consideration
25 comments presented by you, the public, will make a final

1 decision.

2 Once the Trustees make a decision, information
3 about the decision and how to access the Response to
4 Comments, will be provided to those interested parties
5 who have signed in this evening or who are already on
6 the interested parties list.

7 This evening, individuals may testify only once and
8 they can speak for five minutes, so I ask that you use
9 your time wisely. Ohio EPA and the U.S. Fish and
10 Wildlife Services cannot interact with the speaker
11 during testimony other than to ask clarifying questions
12 to ensure that the record is as accurate as possible.

13 If you have questions that weren't responded to
14 earlier, then ask them on the record and they will be
15 responded to in writing in the Response to Comments.

16 If you would like to provide testimony, please
17 raise your hand. If you don't have a blue card and
18 would like to provide testimony, we can hand one of
19 those off to you.

20 As of this moment, the person wishing to provide
21 testimony is Lynn Sherman.

22 Please come forward to the microphone to be heard.
23 If you'll state and spell your name for the record.

24 MR. SHERMAN: Lynn Sherman,
25 L Y N N, S H E R M A N.

1 And, I sent some comments in to Mr. Lunsey already,
2 but my comments on the project are that you need to take
3 care of the sources of contamination first. I couldn't
4 hear very well with all that, you're saying that the
5 levels from your sampling were going down at some point,
6 whatever.

7 When the remediation was done at Dura, a partial
8 wall was put in. Doctor Rothman of the ERS, I believe,
9 recommended that that be the solution for the seepage of
10 the oil out from the side of Dura into the Ottawa River;
11 and it was the chemical pit that supplied most of that.

12 One of the sources of the material in the chemical
13 pit was from across the river, which is Textile Leather.
14 Textile Leather this past year has been torn down and
15 physically is not there.

16 I personally have already bid a project for the
17 second, it was the second project of seepage of PCPs and
18 THGs into the sub-basement of Textile Leather. So there
19 is something outside seeping in through the concrete.
20 That property needs to be properly addressed. And also
21 is connected to the unnamed tributary which also had a
22 lot of PCBs.

23 If you get rid of the PCBs, you'll get rid of a lot
24 of the long-term problems that we have in the Ottawa
25 River and in Lake Erie, with the feeding of PCBs through

1 the food chain up to Walleye to the point that we can
2 only eat, what, one or two Walleye a week, is I think
3 that's the limit; right, or wrong?

4 MS. PEELLE: We can't
5 respond.

6 THE WITNESS: Somewhere in
7 there.

8 Okay, so the point is, if you correct the leakage
9 first, then you can work on the rest of the restoration
10 part of that project. So my concerns are that, once
11 again, we're going to avoid the problem.

12 While Doctor Rothman was giving his presentation on
13 what he believes should have been the correct
14 remediation at Dura Landfill, I also from my experience,
15 people that I deal with, that the water in Dura Landfill
16 rises when the water comes up the Ottawa River from a
17 noreaster, and goes down when the water recedes out of
18 the Ottawa River. So, there is a connection between the
19 Ottawa River and Dura Landfill.

20 If you look at the Blade article, and there was a
21 Blade article way back in the 90s, I think, excellent,
22 excellent article. It shows you the different
23 renderings of Dura Landfill and how it was a swamp.
24 They didn't tear out the swamp; they just filled over
25 with the dike. So you have all the rivulets and

1 everything else connected to the Ottawa River that are
2 still there. So if you cut those off, you cut off
3 Textile Leather; now you can really do a remediation.

4 My comment. Thank you.

5 MS. PEELLE: All right, thank
6 you, Mr. Sherman.

7 Does anyone else wish to provide testimony or
8 comments, orally?

9 Mr. Shanklin.

10 THE WITNESS: Terry Shanklin,
11 I live in Toledo, [REDACTED] address.

12 I'm sitting here listening to how you folks are
13 cleaning up the Ottawa River. It seems that in our
14 history of Toledo and other parts of the country, it
15 seems that every time we had a waterway or a soft spot
16 or a swamp, we filled it in with garbage.

17 We're talking about the Dura. We're talking about
18 Hoffman Road. We've capped one of them. We've probably
19 capped the other one by Stickney, but you've had a map
20 of all the dumps in the City of Toledo and it's got two,
21 three hundred dumps.

22 It isn't just Textile Leather leaching into the
23 Ottawa River. Jeep used to have a fantastic dump right
24 there on 75. And the only thing saved them, when 75
25 expressway came through and buried it. There is still a

1 part in the corner that belonged to Jeep that has never
2 been tested, and I don't think Jeep will let you go in
3 there and test the thing, because it's full of crap.

4 Jeep buried everything in there but bodies and I
5 wouldn't doubt if there is bodies in there yet.

6 One item, one dump, is not going to stop pollution
7 going into the Ottawa River. The only thing that's
8 going to do it, I'm afraid, is time. There is so much
9 leaching in there, there is so much crap being dumped in
10 there over the years, and now we're going to try to go
11 after the people supposedly that dumped it. It ain't
12 going to fly, folks.

13 MS. PEELLE: Thank you,
14 Mr. Shanklin.

15 All right. Anyone else? I'm giving some last
16 opportunities here.

17 All right. My son-in-law is an auctioneer, so I
18 always use him for the closing. Your chances are going
19 once, going twice, all right.

20 The time is now 7:08 and this hearing is adjourned.
21 Thank you for coming this evening.
22 (Off the record).

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C E R T I F I C A T E

I, Marie B. Fresch, Registered Merit Reporter, and Notary Public in and for the State of Ohio, duly commissioned and qualified, do hereby certify that the statements of witnesses were taken by me in machine shorthand and were thereafter reduced to typewritten form by me and that the foregoing transcript is a true and accurate record of the statements so given by the witnesses and that this hearing was taken at the time and place specified in the foregoing caption.

I further certify that I am neither counsel for, related to, nor employed by any of the parties to the action in which this proceeding was taken; and, further, that I am not a relative or employee of any attorney or counsel employed by the parties hereto, nor financially interested, or otherwise, in the outcome of this action; and that I have no contract with the parties, attorneys, or persons with an interest in the action, as defined in Civil Rule 28(D).

IN WITNESS WHEREOF, I have hereunto set my hand and affixed my seal of office at Norwalk, Ohio, on the 14th day of April, 2016.

MARIE B. FRESCH, RMR
Notary Public, State of Ohio
My Commission expires: 10-9-2018

April 15, 2016

Mr. Archie Lunsey, DERR Manager
Ohio EPA, NWDO
347 N. Dunbridge Road
Bowling Green, OH 43402



Comments re: Draft Natural Resource Restoration Plan & Environmental Assessment for the Ottawa River Assessment Area, dated 9 February 2016.

Submitted by Partners for Clean Streams (PCS)

Please accept these comments and questions as part of the public comment period. Please include a response in the responsiveness summary when it is made available to the public and let me know when it is available. I would like to note that these questions and opinions are from Partners for Clean Streams, not the Maumee AOC Advisory Committee. While individuals on the Maumee AOC Advisory Committee or organizations who participate on the committee may submit their own comments, the Committee as a whole did not take a formal motion or vote on this subject and is not submitting comments.

PCS has the following comments and questions:

1. There is a dramatic difference in the number of acres injured and those proposed as part of the three restoration projects. According to Page 3 of the draft Restoration Plan, an estimated 724 acres of the Ottawa River and related riparian habitat have been contaminated by hazardous substances; however, in the preferred alternative, restoration is proposed on only 303 acres. The "goal [of the NRD process] is to make the environment and public whole for injuries to natural resources and natural resource services...(US FWS website)." This settlement proposes restoration of only 42% of the damaged acreage. This does not appear to replace the equivalent amount of the natural resources injured. How does this reduced restoration acreage make the public whole?
2. In PCS's opinion, more restoration should be done within the Area of Concern (AOC) and specifically within the Ottawa River watershed, including work within the mainstem itself (such as in stream fish habitat, fish baskets, floating islands, or other in stream work). There is only one small project in Ottawa River watershed. That project is not on the mainstem of the Ottawa River and only 128 acres, at most, of potential restoration are within the AOC when the documented injury was wholly within the AOC (using the most recent assessment area).

Water is Life! Help Sustain PCS... One drop at a time!

Partners For Clean Streams, Inc.
P.O. Box 203
Perrysburg, OH 43552
Office Phone: 419-874-0PCS (0727)
Cell Phone: 419-205-5588
E-Mail: PCS@PartnersForCleanStreams.org
Web: www.PartnersForCleanStreams.org



3. PCS would strongly encourage diversity in the type, function, and services provided in the restoration projects to better reflect the diverse and wide-ranging injuries documented. For instance, the preliminary assessment and restoration plan document injuries to the fish, turtle (i.e. consumption advisories), bird, and mammal populations; and to the habitat, which in the lower Ottawa River includes floating leaf emergent wetlands, coastal marsh/wetland, riparian vegetation, in stream sediment & and water chemistry. Yet all of the projects are very similar to each other with a limited focus primarily on the coastal marsh habitat, which may not compensate wholly for the diversity of habitat, wildlife, sediment and water chemistry injured over a lengthy period of time in the Ottawa River.
4. There is very little information on the project scope and environmental metrics that each project should achieve. This makes it very difficult to evaluate whether these projects will actually achieve restoration that would adequately compensate for the specific injuries that occurred. More detail is needed to effectively determine what these projects would need to be designed and managed for over both the short and long term in order to demonstrate that the PRPs had achieved the appropriate compensation and restoration. Simply purchasing property and holding it in public trust does not adequately restore the quality and services of the resources that were injured, as like for like and same for same. More detailed restoration plans should be developed prior to the consent decree and shared with the public.
5. One of the goals mentioned in the plan is for “establishment of hydrological connections between the wetlands and Lake Erie tributaries, which will provide significant spawning and nursery areas for fish.” Which project specifically provides this direct hydrologic connection between the project and Lake Erie tributaries so that the project area can serve as spawning and nursery areas for fish? How will these projects then contribute to diversifying, increasing, and providing healthy fish populations in the Ottawa River main stem?
6. In the plan it states, “the assessment process showed substantial injury to fish that are a food source for fish eating birds, and because of this, injury to fish eating birds has likely occurred in the Assessment Area”. There is a discussion of migratory birds but very little on residential fish eating birds, which I would assume would have longer exposure, more reliance on the impacted fish populations and therefore would potentially be injured as well. Which projects will provide restoration for residential fish eating birds, especially those species specifically dependant on the fish in the Ottawa River watershed?
7. In addition, how were both fish populations and bird populations who rely on benthic macro-invertebrates injured due to the extensive prior sediment contamination? Very low ICI & IBI scores were document by past Ohio EPA sampling. There is extensive



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Web: www.PartnersForCleanStreams.org



documentation noted in this plan on the contamination uptake and impacts to fish. How will these projects provide restoration for fish populations and macro invertebrate populations in the lower Ottawa River?



8. How will these proposed restoration projects specifically contribute to reducing or removing the contact and consumption advisories, which are documented injuries to the Ottawa River?
9. In the Final Draft Assessment Plan, it states that the lower Ottawa River suffered "The loss or impairment of recreational fishing and boating opportunities representing the lost human uses of injured biological resources." How will public use & recreation be assured when each project decides later, and may need additional financial resources, to make that happen? Why doesn't the settlement require public use and recreational use (not just public ownership) as part of the compensate for the human use services lost? Why isn't the cost for the infrastructure for recreational use, such as parking lots, signage, boat launches, elevated walkways, viewing/fishing platforms, etc, included in the settlement? The NRD guidance specifically provides for injuries to services, such as recreational, fishing, and other human use, to be compensated for in this process.
10. Please revise and update the project descriptions to accurately reflect acreages and scope of the PRP's contributions to each project (and not total acreage of the general area), especially for projects where work is already underway outside of the settlement, such as the purchases made by the Metroparks of the Toledo Area from the Lucas County Land Bank for Manahattan Marsh. It is my understanding that the Metroparks will be providing these corrections under separate cover.
11. When will baseline conditions be achieved?
12. Does the NRDA process and/or authority allow for settlement to be finalized before baseline conditions are documented as restored?
13. Where is the Restoration and Compensation Determination Plan (RCDP)? The Final Draft Assessment Plan lists this future document and states that a public comment period would be held on the RCDP as well. The NRDA regulations indicate that a Restoration and Compensation Determination Plan (RCDP) shall be prepared that lists a reasonable number of alternatives for restoration, rehabilitation, replacement, and/or acquisition of equivalent resources; selects one of the alternatives; gives the rationale for selecting that alternative; and identifies methodologies to be used to determine the cost of the selected alternative and the compensable value of 17 services lost to the public [43 CFR § 11.81 (a)(1)]. This document would have included important information that would inform the public of the other projects that were considered (or at least how many were initially

Water is Life! Help Sustain PCS... One drop at a time!

Partners For Clean Streams, Inc.
P.O. Box 203
Perrysburg, OH 43552
Office Phone: 419-874-0PCS (0727)
Cell Phone: 419-205-5588
E-Mail: PCS@PartnersForCleanStreams.org
Web: www.PartnersForCleanStreams.org



considered), the cost of the selected alternative, and the compensable value of services lost; all of which is missing from this document.



14. Where is the Damage Assessment? When will PED be released?
15. Page 5, Section 6 of the Pre-assessment screen for the Ottawa River and Maumee Bay lists specific potential PRPs and others may have been subsequently identified. Which PRPs are part of this settlement? Which remaining PRPs do the Trustees still expect to pursue settlement with? What PRPs have the Trustees already settled with and what will those settlement monies be spent on? If settlement monies are spent on restoration projects or future restoration projects are proposed and selected, will there be another public comment period?
16. From the public meeting, the restoration plan, and my familiarity with the projects, it appears as if property has already been purchased and some projects are already underway. This seems like "jumping the gun" and appears as if public input won't have any impact or be considered as meaningful to the process. Will the Trustees make any changes based on feedback from the public?

Thank you for your time and consideration.

Sincerely,

A handwritten signature in black ink that reads "Kristina Patterson". The signature is fluid and cursive.

Kristina Patterson, Executive Director

Partners For Clean Streams, Inc.
P.O. Box 203
Perrysburg, OH 43552
Office Phone: 419-874-0PCS (0727)
Cell Phone: 419-205-5588
E-Mail: PCS@PartnersForCleanStreams.org
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3-17-16

Archie Lunsey, Environmental Manager,
Division of Environmental Response and Revitalization Northwest District Office
347 N. Dunbridge Road
Bowling Green, Ohio 43402

RECEIVED

MAR 21 2016

OHIO E.P.A.
N.W.D.O.

Deborah Millsap
NRDA Case Manager Region 3
U.S. Fish and Wildlife Service 4625 Morse Road, Suite 104
Columbus, Ohio 43230 614-416-8993 extension 14

Ms Millsap and Mr. Lunsey,

I will attend the meeting on April 7, 2016. Prior to the meeting I would like to voice my opinions on the RP/EA.

The Proposal would be fine if the source of the PCBs and Toxic Chemicals leaching into the Ottawa River were stopped. The sources still exist. The Leaching still occurs. If from the Chrysler Plant to the mouth of the Ottawa River with Maumee Bay and the Lake all of the sediments to a depth that removed all of the PCBs and Toxic Chemicals, It would be re-contaminated by the leaching mainly from Dura Landfill, Stickney Landfill, and the Textile Leather sites.

The history and the drainage channels from Dura Landfill were well documented in a Series of Toledo Blade Articles at the beginning of the 1990s. I have a copy of these maps from the Blade that I used as overheads in training others how to look at old solid waste landfills that took industrial waste prior to RCRA regulations and how to investigate these sites. Stickney Landfill was not investigated to this depth but, what was done at Dura Landfill should be repeated. Mr. Rothman of URS that directed a 700' sheet pile cut-off wall be installed at Dura near an oil seep on the side wall down to the Ottawa River may have been needed. The wall did not cut off the stream beds that lie at the bottom of the river side dirt dike for Dura. When the water level of the Ottawa River rises when a Northeast wind blows the lake into the stream and river systems, the wells in the Dura Landfill rise.

The Textile Leather Plant was physically dismantled in 2015. To investigate the site it will now be necessary to work off old aerial photographs. Chemical wastes from Textile Leather was taken to Dura Landfill. The Liquid wastes were discharged to the "chemical pit" and garbage was dumped in the pit to "co-mingle" with the solid was soaking up the liquid chemical waste and then pushed up the landfill face for disposal. See the Dura Report. OEPA or the Lucas County Health Department (controlled solid waste landfill inspections prior to the formation of OEPA). These are all records that have been available to OEPA.

In the mid 1980s, a sales representative of Envirosafe Services of Ohio Inc. (Fondessy Enterprises Inc.) was on a sales bid with a number of other waste brokers. While outside touring the facility and the location of roll-off boxes and other wastes, the ESOI representative heard a rumble and out of a large pipe from one building into a roll-off that has rust holes in the bottom edge of the roll-off. All in the group turned and saw pieces of scrap and a clear fluid pour out into the roll-off which was one of the wastes we were bidding on. The clear liquid poured out the bottom of the roll off onto the ground. Then an overpowering smell of trichloroethylene solvent passed over the crowd.

Later, this author, working for an environmental remediation company in Canton, Ohio in 1990, bid a project for Textile Leather in Toledo, Ohio. They thought we were out of town firm and would be quiet. 2-3 years before this Bid, Textile Leather had PCB contamination of its sub-basement. OH Materials scabbled the concrete walls. Removed the PCB saturated concrete and then coated the wall with Thoro-seal (a concrete sealing paint). This remediation was done by OH Materials Inc. of Findlay. OEPA may be able to request these files from OH Materials as they were a Federal Emergency Contractor and required to keep their records. The 2-3 years later a bid went out again. The company I worked for in Canton,

Ohio received the RFP. I personally worked on the bid. It was in the subbasement of Textile Leather in Toledo, Ohio. It was to scabble the wall again and seal with Thorough Seal. The PCBs has come through the wall again. PCBs were commonly used to make ink presses make a mark without missing part of the stamp. It was used in Newspaper printing and other ink applications. Cleaning stamps was done by using TCE. PCBs do not easily move in soil. TCE moves easily in soil. Mix the two in waste and the TCE will dissolve the PCBs and help move them faster in soil and sand and gravel beds of old swamps.

As I have stated previously, Before we spend a lot of money on restoration, We should insure the "Current Continuing" sources of contamination are stopped. It requires an effort to seal Dura and Stickney landfills and then on the east side of the Ottawa River cutting off the Textile Leather Contaminated soil and the soil from the "Un - named Tributary. See Mr. Kinsley in NWDO.

It is technologically possible. Excavate sequentially using sheet piling to create a dry area, the contaminated sediments between these three contamination sources. Put in an HDPE liner then put in HDPE lines Concrete Rectangles (What is under our bridges in the country now.) or round Concrete pipes with the same cross sectional area as the Ottawa River for this length of the river. Seal the beginning and end with HDPE Flumes and you have by-passed three sources that can not be economically excavated and removed as there is no place to take it anyway.

If you do not stop the sources of contamination they will leak "like a Tea Bag" and contaminate the invertebrates, the crustaceans, the bi-valves, the insects, the fish and the humans that use this water resource called Lake Erie. The relatively small cost to stop the pollution immediately is the start of the RP/EA.

Please consider my comments and include them in the decision on where to start and not to assume that these sources have somehow miraculously stopped leaking. The market decided the Textile Leather property was not worth much when the Textile Leather Owners recently sold the property to the City of Toledo for Chrysler. The City of Toledo should have used "Eminent Domain" in the Brownfield Law and the liability would not now be theirs.

Respectfully,


Lynn Sherman


Entity: Ottawa Riv Health Advisory Zone Sediments, Toledo
Doc Type: Remediation Response
Doc Subtype: Plan
Program: Remedial Response
County: Lucas
Secondary ID: 348001747006

Appendix C: Trustees' Responses to Public Comments

27 June 2016

This section summarizes public comments received on the Draft Restoration Plan and Environmental Assessment (RP/EA), and provides the Trustees' responses to the comments. The Draft RP/EA was released to the public on February 29, 2016. Comments were received during the public comment period through April 15, 2016.

In total, four sets of comments were received on the draft RP/EA. The commenters were both private individuals and those representing organizations with an interest in the Ottawa River and the Western Lake Erie Basin watershed, including a comment from Partners for Clean Streams (PCS). Two sets of comments were received during the April 7, 2016 public meeting from private individuals, and two sets of written comments were received (one of the written commenters also provided oral comment during the public meeting).

The comments are either summarized or transcribed below. Copies of all original comments are provided in Appendix B of the Final RP/EA.

Comment Summary: *Two comments provided during the April 7, 2016 public meeting and one written comment expressed concern about the clean-up of the Ottawa River and of re-contamination issues by landfills and the Textileather industrial property leaching contaminants into the Ottawa River. The commenters further stated that the restoration activities should wait until the river is cleaned up. No statement was made either in support or against the selected Alternative.*

Response: Through Great Lakes Legacy Act (GLLA) activities, at a cost of about \$47 million, approximately 10,000 cubic yards (CY) of contaminated sediment were removed from Sibley Creek and another 240,000 CY of contaminated sediment were removed

from the Ottawa River with approximately 7,000 CY of Toxic Substances Control Act (TSCA) level sediment, dredged and placed in a TSCA licensed facility. This remedial action is also considered primary restoration of the injured resources of the Ottawa River. Other remedial actions, (e.g., capping leaking landfills along the river, PCB source removals) have eliminated known sources of PCBs and other hazardous substances from entering the river. Remedy effectiveness surveys were conducted by OEPA and USEPA in 2012 and 2015 to evaluate post-dredging sediment concentrations, fish tissue concentrations, fish health, and overall aquatic community health. The results indicate that the river is improving as expected and supports the return to baseline conditions estimate of approximately 2030. Baseline is defined as the condition that would have existed in the assessment or affected area had the discharge(s) not occurred. Other sites from where contaminants had migrated or leached to the Ottawa River had previously been cleaned up, and the Trustees have not detected a continuation of migration of contaminants into the River. In addition, as part of the GLLA project evaluation and prior to the sediment removal, a source control study was performed to ensure that sources to the Ottawa River were controlled and that the river would not become re-contaminated from past sources. Future releases, if they occur, will be evaluated as new releases are addressed under current environmental laws. The Trustees do not believe the Ottawa River will be re-contaminated from the sources that have been addressed through the GLLA remedial action and previous cleanup actions.

Concerns were voiced about the former Textileather Corporation site. USEPA is currently overseeing a cleanup action for the site, which includes as a preferred alternative, the removal of contaminated soil, removal of underground storage tanks, and installation of a storm water management system. These activities are not part of the Ottawa River NRDA case. They were required to address violations associated with the Resource Conservation and Recovery Act (RCRA) and aimed at cleaning up the property for beneficial reuse. Also, completed in 1998, soils from around the facility and sediments from an un-named tributary, which became Fraleigh Creek, were removed and capped to address PCB contamination from the Textileather property. No additional sources of PCBs are known at the former Textileather property and ongoing

and future contamination of the Ottawa River from sources related to Texileather is not expected

One written letter was received from PCS with multiple comments/questions.

Comment 1: *“There is a dramatic difference in the number of acres injured and those proposed as part of the three restoration projects. According to Page 3 of the draft Restoration Plan, an estimated 724 acres of the Ottawa River and related riparian habitat have been contaminated by hazardous substances; however, in the preferred alternative, restoration is proposed on only 303 acres. The ‘goal [of the NRD process] is to make the environment and public whole for injuries to natural resources and natural resource services... (US FWS website).’ This settlement proposes restoration of only 42% of the damaged acreage. This does not appear to replace the equivalent amount of the natural resources injured. How does this reduced restoration acreage make the public whole?”*

Response 1: The Trustees use a Habitat Equivalency Analysis (HEA) model to calculate the injury and the amount of restoration needed to compensate the public for injured trust resources. The Trustees used the HEA in this case to scale the injury and restoration projects until there is parity in the values. Different environments and habitats are not equal in size or quality; therefore, there is not a 1:1 relationship with number of injured acres used in the HEA and the number of acres restored by the restoration projects. In addition, as a result of the \$47 million primary restoration of the Ottawa River itself, conducted pursuant to the GLLA, the Trustees anticipate that the Ottawa River itself should return to baseline conditions by 2030. The restoration projects are designed to compensate the public for the period of time that the natural resources have been injured, so all other matters being equal, there would not be a 1:1 relationship. The Trustees also proportioned liability among the PRPs, so no one PRP is responsible for 100% of the damages.

Comment 2: *“In PCS’s opinion, more restoration should be done within the Area of Concern (AOC) and specifically within the Ottawa River watershed, including work within the mainstem itself (such as in stream fish habitat, fish baskets, floating islands, or other in stream work). There is only one small project in Ottawa River watershed. That project is not on the mainstem of the Ottawa River and only 128 acres, at most, of potential restoration are within the AOC when the documented injury was wholly within the AOC (using the most recent assessment area).”*

Response 2: The CERCLA NRDA Regulations provide ten factors to consider when evaluating or selecting among possible alternatives to restore, replace, or acquire the resource equivalent of injured resources (43 C.F.R. §11.82):

1. Technical feasibility
2. The relationship of the cost of the alternative to expected benefits
3. Cost effectiveness
4. The result of actual or planned response actions
5. The potential for additional injury resulting from the proposed action
6. The natural recovery period
7. Ability of the resources to recover with or without alternative actions
8. Potential effects of the action on human health and safety
9. Consistency with relevant federal and state policies
10. Compliance with relevant federal and state laws

Accordingly, following the completion of the primary restoration project at the Ottawa River itself, the GLLA project, the purpose of the selected Ottawa River natural resource restoration actions in the Restoration Plan is to use recovered damages in a manner consistent with these factors. The watershed is in a highly industrialized area so it is extremely difficult to find restoration projects that will meet these ten factors and also restore the equivalent natural resources. The Trustees evaluated many potential projects within the watershed; however, most did not compare well with the selected projects in meeting the above criteria, were not able to be protected through time, did

not provide enough or of similar types of benefit/habitat types, or were fragmented or too small in scale to be viable projects to compensate for the injury to trust resources. Notwithstanding the difficulty of finding potential restoration projects that meet the ten factors, the Trustees listed the Manhattan Marsh project, referred to indirectly by the commenter, as part of the Selective Alternative. The Manhattan Marsh Project is located near lower income households and minority populations within the City of Toledo and in the Ottawa River watershed. While the primary purpose of the restoration of this land is for fish and wildlife, portions of the acquired properties may be used by the public for active and passive natural resource based recreational and educational activities, such as fishing and/or wildlife viewing. Aquatic habitat improvement resulting from the primary restoration, the Ottawa River GLLA remediation project, would also enhance recreational opportunities in and around the Ottawa River.

Comment 3: *“PCS would strongly encourage diversity in the type, function, and services provided in the restoration projects to better reflect the diverse and wide-ranging injuries documented. For instance, the preliminary assessment and restoration plan document injuries to the fish, turtle (i.e., consumption advisories), bird, and mammal populations; and to the habitat, which in the lower Ottawa River includes floating leaf emergent wetlands, coastal marsh/wetland, riparian vegetation, in stream sediment & and water chemistry. Yet all of the projects are very similar to each other with a limited focus primarily on the coastal marsh habitat, which may not compensate wholly for the diversity of habitat, wildlife, sediment and water chemistry injured over a lengthy period of time in the Ottawa River.”*

Response 3: Section 107(f)(1) of the Comprehensive Environmental Response, Compensation and Liability Act (CERCLA) states money recovered for injury to natural resources can only be used to “restore, rehabilitate, replace, and/or acquire the equivalent” of trust resources injured, destroyed, or lost as a result of the release of hazardous substances. The natural resources injured at Ottawa are fish, invertebrates, migratory birds, their supporting ecosystems and the sediments and surface waters of

the River. Thus, restoration projects must focus upon restoring or replacing those injured resources. The Trustees believe that the selected Alternative B does address the long term benefits to the injured resources. All of the natural resource injuries relate to the River, so all of the projects have an ecological aquatic connectivity which include establishing connected wetlands, enhanced fish and invertebrate habitat, and riparian property acquisitions to ensure future watershed protection, erosion reduction and protection of water quality. In addition, the three specific projects selected in the RP/EA will restore and improve varied and diverse habitat types which include forested wetlands, connected and isolated wetlands, transitional upland/wet meadow, and riparian areas, all of which support a broad range of species and habitat services.

Comment 4: *“There is very little information on the project scope and environmental metrics that each project should achieve. This makes it very difficult to evaluate whether these projects will actually achieve restoration that would adequately compensate for the specific injuries that occurred. More detail is needed to effectively determine what these projects would need to be designed and managed for over both the short and long term in order to demonstrate that the PRPs had achieved the appropriate compensation and restoration. Simply purchasing property and holding it in public trust does not adequately restore the quality and services of the resources that were injured, as like for like and same for same. More detailed restoration plans should be developed prior to the consent decree and shared with the public.”*

Response 4: The Corogin property will not only be preserved but it will also be restored. Currently, the Corogin property consists of agricultural fields and a degraded forested wetland. Restoration will include removing drainage tiles, installing water control structures, and planting native wetland species. The degraded wetland will be restored by controlling and managing invasive species. The restored Corogin property will provide coastal wetlands (which are a highly valued type of wetland) and riparian areas with connectivity to the Portage and Little Portage Rivers near the confluence of

Lake Erie. This property will be a valued addition to the Ottawa National Wildlife Refuge because it is located along the Mississippi and Mid-Atlantic migratory bird flyways.

If the proposed settlement with the ORG is approved by the Trustees and the U.S. Department of Justice, the Trustees will attach to a proposed consent decree the Final Restoration Plan/EA, and Statement of Work (SOWs) for the proposed Corogin restoration project. The consent decree with attachments will be lodged with the U.S. district court for its approval. If the consent decree is approved by the court, it will require the ORG to provide work plans that will include detailed information such as design drawings, maps, descriptions of activities proposed to be undertaken to restore, in part, the equivalent of natural resources injured as a result of releases of hazardous substances into or within the Ottawa River Assessment Area, proposed schedules for implementation of such activities, and estimated costs of such activities. The work plans will be made public and will be available online. The same will be true for other future settlements for the Ottawa River Assessment Area that may be reached by the Trustees and with other potentially responsible parties.

Comment 5: *“One of the goals mentioned in the plan is for “establishment of hydrological connections between the wetlands and Lake Erie tributaries, which will provide significant spawning and nursery areas for fish.” Which project specifically provides this direct hydrologic connection between the project and Lake Erie tributaries so that the project area can serve as spawning and nursery areas for fish? How will these projects then contribute to diversifying, increasing, and providing healthy fish populations in the Ottawa River main stem?”*

Response 5: The three selected projects (*i.e.*, Manhattan Marsh, Low Service Pump Station, and ORG Restoration Project/former Corogin property) are hydrologically connected to Lake Erie. The proposed restoration activities would restore and/or increase coastal wetlands, riparian, and other habitat types. Of the three selected projects, the Corogin restoration will provide the most, new spawning and nurse areas

as farm fields will be converted to seasonal wetlands connected directly to the Portage and Little Portage Rivers. The other two projects will provide new and enhanced spawning and nursery areas by greatly reducing current areas of invasive species. This increase in spawning and nursery areas and improvements in the Ottawa River resulting from the sediment dredging, will contribute to diverse and increasing healthy fish populations within the Western Lake Erie Basin and may contribute to healthy fish populations within the Ottawa River.

Comment 6: *“In the plan it states, “the assessment process showed substantial injury to fish that are a food source for fish eating birds, and because of this, injury to fish eating birds has likely occurred in the Assessment Area”. There is a discussion of migratory birds but very little on residential fish eating birds, which I would assume would have longer exposure, more reliance on the impacted fish populations and therefore would potentially be injured as well. Which projects will provide restoration for residential fish eating birds, especially those species specifically dependent on the fish in the Ottawa River watershed?”*

Response 6: The GLLA (primary restoration) project resulted in the removal of approximately 250,000 cubic yards (CY) of PCB and other hazardous substances-contaminated sediment from the Ottawa River which will improve the quality of the water and ultimately the health of the fish and the residential fish eating (piscivorous) birds. Through cleaner sediments and lower body burdens of contaminants in fish, healthier predator/prey populations are expected in the Ottawa River. Additionally, restoration and preservation activities in coastal wetlands and riparian areas along the Ottawa and nearby rivers will increase fish diversity and numbers by providing additional and improved spawning and rearing habitat. Improved fish populations will also better support both residential and migratory piscivorous birds and animals.

Comment 7: *“In addition, how were both fish populations and bird populations who rely on benthic macro-invertebrates injured due to the extensive prior sediment*

contamination? Very low ICI & IBI scores were document by past Ohio EPA sampling. There is extensive documentation noted in this plan on the contamination uptake and impacts to fish. How will these projects provide restoration for fish populations and macro invertebrate populations in the lower Ottawa River?"

Response 7: The Trustees have determined that the sediment removal and proposed restoration projects will improve habitat for macro-invertebrates and many other organisms. Restored macro-invertebrate populations in turn support healthy fish populations and a diverse ecosystem. In addition, the proposed restoration projects will increase riparian and coastal wetland habitat for avian and fisheries resources in the Western Lake Erie Basin and be beneficial by providing nesting, foraging, and loafing habitat for a wide variety of avian species.

Comment 8: *"How will these proposed restoration projects specifically contribute to reducing or removing the contact and consumption advisories, which are documented injuries to the Ottawa River?"*

Response 8: The removal of contaminated sediment from the Ottawa River and Sibley Creek will improve the water quality and this will contribute to the possible removal of the contact and consumption advisories. The sediment removal, or primary restoration, followed by natural attenuation is the primary mechanism that will eventually lower the fish tissue and sediment concentrations to levels to allow changes in the contact and consumption advisories. The contact advisory could be modified or lifted in the near future. Work has started on determining what data are needed and how they will be collected to evaluate the need for the contact advisory. Changes in the fish consumption advisory will take more time given the persistent nature of PCBs. However, fish tissue levels have begun to decrease and will be evaluated over time with the goal of removing the "Do Not Eat" advisory for fish in the Ottawa River. The restoration activities of enhancement and preservation of riparian and wetland habitat will also provide some benefits to avian and biological resources in the Ottawa River.

However, the Ottawa River is located within an urban watershed and urban runoff will continue to be a factor in the quality of the river. As stated in 43 C.F.R. §11.82 (b)(iii), restoration activities are limited to those actions that would restore or rehabilitate the injured natural resource, or if not possible, restore and acquire equivalent natural resources capable of providing those services.

Comment 9: *“In the Final Draft Assessment Plan, it states that the lower Ottawa River suffered ‘The loss or impairment of recreational fishing and boating opportunities representing the lost human uses of injured biological resources.’ How will public use & recreation be assured when each project decides later, and may need additional financial resources, to make that happen? Why doesn’t the settlement require public use and recreational use (not just public ownership) as part of the compensate for the human use services lost? Why isn’t the cost for the infrastructure for recreational use, such as parking lots, signage, boat launches, elevated walkways, viewing/fishing platforms, etc, included in the settlement? The NRD guidance specifically provides for injures to services, such as recreational, fishing, and other human use, to be compensated for in this process.”*

Response 9: Combined with the primary restoration at the Ottawa River performed pursuant to the GLLA, the selected Alternative B projects address both restoration of injured natural resources and compensation for lost services (including human use) for those injured natural resources. The Fish and Turtle Health Advisories, for example, may likely be lifted in the future as contaminant levels decline and fish communities improve. The selected Alternative B will provide environmental, educational, and long term economic benefits to the community, through projects such as the Manhattan Marsh restoration. Section 107(f)(1) of the Comprehensive Environmental Response, Compensation and Liability Act (CERCLA) states that natural resource damage settlements can only be used to “restore, rehabilitate, replace, and/or acquire the equivalent” of trust resources injured, destroyed, or lost as a result of the release of hazardous substances. The primary natural resources injured in the Ottawa River are

the surface waters and sediments of the River, the fish, and avian resources. Thus, restoration projects must restore or replace those resources. Measuring services is a way to quantify injured natural resources. 43 C.F.R. §11.70(f). However, services are not separate from the natural resources and are not to be restored independently of the resource. See also, 58 Fed. Reg. 39328, 39339-39340 (July 22, 1993). In this case most of the lost services are ecological rather than human use. Potential projects such as building parking lots, signage, boat launches and/or elevated walkways, viewing/fishing platforms do not result in restoring the natural resources nor recovering the lost ecological services and are not necessarily cost effective. Additional information about the benefit to the public in general and to disadvantaged populations, specifically, is set forth in response to Comment 2.

Comment 10: *“Please revise and update the project descriptions to accurately reflect acreages and scope of the PRP’s contributions to each project (and not total acreage of the general area), especially for projects where work is already underway outside of the settlement, such as the purchases made by the Metroparks of the Toledo Area from the Lucas County Land Bank for Manahattan [sic] Marsh. It is my understanding that the Metroparks will be providing these corrections under separate cover.”*

Response 10: As discussed above, detailed information such as design drawings, maps, etc. cannot be provided until settlements are complete and the post-consent decree restoration workplans are drafted. The Lucas County Land Bank has been and will be working with the City of Toledo and the Metroparks in the property acquisition phase of the Manhattan restoration project. Discussions on potential future settlements are continuing, and, further details on the selected Manhattan Marsh project will be worked out in conjunction with such settlement discussions if the discussions are successful.

Comment 11: *“When will baseline conditions be achieved?”*

Response 11: The Trustees cannot precisely predict when baseline conditions will be achieved. However, the Trustees anticipate that baseline should be reached near 2030. This estimate takes into account the recovery trajectory based on continued natural attenuation following the remedial actions of dredging PCB contaminated sediment completed in 2012.

Comment 12: *“Does the NRDA process and/or authority allow for settlement to be finalized before baseline conditions are documented as restored?”*

Response 12: Yes. Calculating the amount of money (*i.e.*, damages) needed to compensate the public for injuries to natural resources contemplates that the money will be used to restore the injured resource(s) to baseline condition or when that is not possible, for replacing and/or acquiring the equivalent natural resources. 43 C.F.R. §11.83(a). There is no requirement that the Trustees wait until after baseline conditions are met in order to allow settlement.

Comment 13: *“Where is the Restoration and Compensation Determination Plan (RCDP)? The Final Draft Assessment Plan lists this future document and states that a public comment period would be held on the RCDP as well. The NRDA regulations indicate that a Restoration and Compensation Determination Plan (RCDP) shall be prepared that lists a reasonable number of alternatives for restoration, rehabilitation, replacement, and/or acquisition of equivalent resources; selects one of the alternatives; gives the rationale for selecting that alternative; and identifies methodologies to be used to determine the cost of the selected alternative and the compensable value of 17 services lost to the public [43 CFR § 11.81 (a)(1)]. This document would have included important information that would inform the public of the other projects that were considered (or at least how many were initially considered),*

the cost of the selected alternative, and the compensable value of services lost; all of which is missing from this document.”

Response 13: The Department of Interior (DOI) NRDA regulations are not mandatory and that includes the Restoration and Compensation Determination Plan (RCDP). 43 C.F.R. §11.10. This Final Ottawa River RP/EA selects Alternative B and provides the rationale for that selection. In addition, when negotiated settlements are reached during a natural resource damage assessment, there is no requirement to complete the assessment.

Comment 14: *“Where is the Damage Assessment? When will PED be released?”*

Response 14: As stated above, the DOI NRDA regulations are not mandatory. Because the Trustees are attempting to complete a project based settlement, a Type B assessment and a preliminary estimate of damages (PED) are not required by neither the regulations nor CERCLA. The Trustees and the PRPs are negotiating restoration-based settlements that will result in earlier restoration than if the settlements were purely monetary-based.

Comment 15: *“Page 5, Section 6 of the Pre-assessment screen for the Ottawa River and Maumee Bay lists specific potential PRPs and others may have been subsequently identified. Which PRPs are part of this settlement? Which remaining PRPs do the Trustees still expect to pursue settlement with? What PRPs have the Trustees already settled with and what will those settlement monies be spent on? If settlement monies are spent on restoration projects or future restoration projects are proposed and selected, will there be another public comment period?”*

Response 15: The Trustees settled through an administrative order with the Ohio Department of Transportation (ODOT). ODOT paid \$221,865.00 to the Trustees which will be used by the Trustees for restoration of injured natural resources. On October 14,

2015 a notice was published in the Federal Register for the proposed ODOT settlement, with a 30-day comment period for the public to provide comments on this settlement. (<https://www.gpo.gov/fdsys/pkg/FR-2015-10-14/html/2015-25992.htm>). Settlements with other PRPs have not been finalized. If those settlements are finalized, consent decrees will be lodged and there will be public comment periods for the consent decree following lodging. The Final Restoration Plan would be an attachment to the Consent Decrees. The Trustees cannot comment on whether or not they will pursue other PRPs.

Comment 16: *“From the public meeting, the restoration plan, and my familiarity with the projects, it appears as if property has already been purchased and some projects are already underway. This seems like ‘jumping the gun’ and appears as if public input won’t have any impact or be considered as meaningful to the process. Will the Trustees make any changes based on feedback from the public?”*

Response 16: Property under development pressure was purchased by parties negotiating settlement with the Trustees prior to settlement at their own risk. Money received in the settlements will be used for restoration or to reimburse the Trustees for their assessment costs. An amended restoration plan for any future restoration projects proposed to be financed by the recovered funds will be developed by the Trustees with adequate public notice and comment.

Appendix D: U.S. Department of Interior Approval, Environmental Action
Statement and Finding of No Significant Impact

FINDING OF NO SIGNIFICANT IMPACT

Restoration Plan and Environmental Assessment for the Ottawa River Assessment Area, Toledo, Lucas County, Ohio

The U.S. Fish and Wildlife Service (the "Service"), representing the U.S. Department of the Interior (DOI), is a cooperating agency pursuant to the National Environmental Policy Act (NEPA) for the final Restoration Plan and Environmental Assessment (RP/EA) for the Ottawa River Assessment Area Natural Resource Damage Assessment (NRDA). The Service and the Ohio Environmental Protection Agency (Ohio EPA) propose to implement restoration to benefit natural resources injured by the release of hazardous substances into and near the Ottawa River. The Service and Ohio EPA (the "Trustees") initiated an NRDA to assess damages under the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA), for natural resource injuries resulting from exposure to hazardous substances, primarily, PCBs.

The release of hazardous substances injured natural resources under the trusteeship of the Service and Ohio EPA, including but not limited to, surface water, migratory birds, fish, and their supporting ecosystems. The recovered natural resource damages compensate for these injuries to trust resources in or near the Ottawa River. Compensation will include preserving, rehabilitating, replacing, and acquiring equivalent natural resources at various locations within the Ottawa River and Western Lake Erie watershed, depending upon the availability and participation of willing landowners.

Under CERCLA, damages recovered from parties responsible for natural resource injuries are used to "restore, replace, rehabilitate and/or acquire the equivalent of the injured natural resources. *See*, 42 U.S.C. 9607(f)(1). Any funds used by the Federal Trustee (DOI) to implement restoration activities are subject to the requirements of NEPA, 42 U.S.C. 4321. Accordingly, the Trustees developed the RP/EA to identify restoration alternatives that address the resources injured and ecosystem services lost due to the release of hazardous substances, and to analyze the effects of those alternatives on the human environment. The RP/EA lists and describes three alternatives. The preferred alternative consists of preservation of wetlands, riparian corridors, adjacent uplands, and restoration of wetland habitat.

The acquisition and/or preservation of selected sites are an essential first step in meeting the Trustees' restoration goals. Selection of potential properties will be determined by participation of willing landowners. These actions will compensate for injuries to natural resources by preserving aquatic, wetland, riparian and upland habitat for affected natural resources including migratory birds and fish.

DETERMINATION

Based upon an environmental review and evaluation of the Final Restoration Plan and Environmental Assessment for the Ottawa River Assessment Area NRDA, I have determined that restoring, rehabilitating, replacing and/or acquiring the equivalent of injured resources within the natural resource damage assessment area as described under Alternative B in the Final RP/EA for the Ottawa River Assessment Area is not a major Federal action which would

significantly affect the quality of human environment within the meaning of Section 102(2)(c) of the National Environmental Policy Act of 1969, accordingly, an Environmental Impact Statement will not be prepared.


Reasons:

- 1 A number of federally listed threatened or endangered and candidate species would receive further protection and benefit through wetland, associated upland and aquatic habitat preservation and improvement. Specific restoration projects will be evaluated for impacts to federally listed species under section 7 of the Endangered Species act prior to implementation. Protective measures (Appendix A), which should provide for no adverse effects, would be taken during implementation of all projects.
- 2 Implementation of the proposed action may result in minimal short-term impacts to habitat due to physical manipulation needed to restore and enhance ecological systems. These projects would also protect and improve the quality of natural resources by restoring and enhancing wetland and aquatic habitat. All necessary permits will be obtained and regulations, policies and laws followed.
- 3 During preparation of the Restoration Work Plan for the restoration of the Corogin property from a farm field to connected wetlands, the Field Supervisor, Columbus Ecological Field Office and the contractor for the Responsible Party, will initiate consultation with the Ohio State Historic Preservation Officer and, with the assistance of the FWS Regional Historic Preservation Officer, will complete the Section 106 process as described in 36 Code of Federal Regulations Part 800. (Section 6.1)
- 4 Preservation of habitats through acquisition of land, Environmental Covenants, or Conservation Easements will only be from willing sellers or participants. Neighbors adjacent to land purchased for preservation under this restoration will retain all of their current rights to their land. Since habitat preservation would be through fee title or easements with willing sellers who would be paid fair market value, acquisition procedures would have little or no impact on the market price, or on landowners who choose not to sell.
- 5 A Notice of Availability was published in the local media outlets. Copies of the RP/EA were available for review at the offices of the Ohio Environmental Protection Agency (OEPA), Twinsburg, Ohio. The Restoration Plan and EA are available on the OEPA website. Comments were accepted from March 16, 2016 through April 15, 2016. A public meeting was held on April 6, 2016 in Toledo, Ohio. The Trustees gave a presentation on the restoration alternatives, and a formal question and answer period followed. Three written comments were considered during and after the comment period and have been addressed in the Final RP/EA. The public comments received did not identify any significant environmental issues or impacts. No written comments were received that required substantive modification of the RP/EA. As indicated in the RP/EA, the proposed alternative will have no or inconsequential effects on social,

economic, recreational, biological, and cultural resources. Conversely, over the long term, restoration projects are expected to benefit trust resources.

Supporting References:

1. Natural Resource Restoration Plan and Environment Assessment for the Ottawa River Assessment Area
2. Section 7 Endangered Species Consultation (Appendix B of Restoration Plan and EA)
3. Public Comments (Section 7 of Restoration Plan and Environmental Assessment for the Ottawa River Assessment Area)

ACTING 
Regional Director, FWS, Region 3

Date: 5/16/16

UNITED STATES FISH & WILDLIFE SERVICE

ENVIRONMENTAL ACTION STATEMENT

Within the spirit and intent of the Council of Environmental Quality's regulations for implementing the National Environmental Policy Act (NEPA) and other statutes, orders, and policies that protect fish and wildlife resources, the Trustees have established the following administrative record and have determined that the action of (describe action):

- ☐ is a categorical exclusion as provided by 516 DM 6, Appendix 1 and 516 DM 2, Appendix 1. No further documentation will therefore be made.
- ☒ is found not to have significant environmental effects as determined by the attached Environmental Assessment and Finding of No Significant Impact.
- ☐ is found to have significant effects, and therefore further consideration of this action will require a notice of intent to be published in the Federal Register announcing the decision to prepare an EIS.
- ☐ is not approved because of unacceptable environmental damage, or violation of Fish and Wildlife Service mandates, policy, regulations, or procedures.
- ☐ is an emergency action within the context of 40 CFR 1506.11. Only those actions necessary to control the immediate impacts of the emergency will be taken. Other related actions remain subject to NEPA review.

Other supporting documents (list):

☒ Environmental Assessment and FONSI

☒ Public comments

Jan Evers — 5-3-2016
Initiator Date
Lynn M Lewis 5/16/16
ARD Date

Charles M. Wooley 5/16/16
RD Date

Charles M. Wooley
Acting Regional Director