

**FINDING OF NO SIGNIFICANT IMPACT
 CATEGORICAL PERMISSIONS
 SECTION 408 ALTERATIONS TO EXISTING
 U.S. ARMY CORPS OF ENGINEERS CIVIL WORKS PROJECTS
 33 U.S.C. SECTION 408
 MONTANA
 January 2017**

The Omaha District receives numerous requests each year from private, public, tribal, or other federal entities to alter civil works projects. To date, as requests are received, they are evaluated on a case-by-case basis using a nine-step process outlined in Engineering Circular (EC) 1165-2-216, Policy and Procedural Guidance for Processing Requests to Alter US Army Corps of Engineers (USACE) Civil Works Project Pursuant to 33 USC 408. Under this process, USACE determines if the alteration would be injurious to the public interest or impair the usefulness of the USACE project. To expedite review and approval, EC 1165-2-216 states that USACE districts can develop categorical permissions to streamline the processing of alterations that are similar in nature and have minor impacts to the environment.

In accordance with the National Environmental Policy Act (NEPA), the President’s Council on Environmental Quality (CEQ) implementing regulations, and CEQ guidelines for Effective Use of Programmatic NEPA Reviews, a Programmatic Environmental Assessment (Programmatic EA) has been prepared. The purpose of this Programmatic EA is to evaluate the environmental and socio-economic effects of proposed alterations, categorized as categorical permissions that have been developed by the Omaha District. The attached Programmatic EA considers a suite of reasonably foreseeable categorical permissions that fall within the Omaha District’s Civil Works boundaries within the state of Montana.

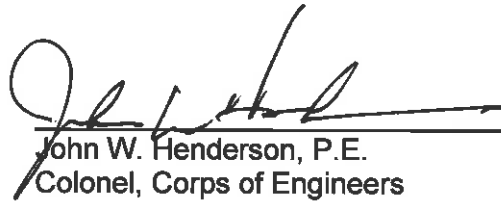
Two alternatives were considered: Alternative 1 (No Action Alternative) and Alternative 2 (Develop and use Categorical Permissions in order to expedite review), the Preferred Alternative. A list of the Categorical Permissions is provided below. The Programmatic EA and comments received from the resource agencies were used to determine whether the proposed action would require the preparation of an Environmental Impact Statement (EIS). All environmental, social, and economic factors relevant to the proposal were considered in this Programmatic EA. The analysis verifies that the effects of these categorical permissions, both individually and cumulatively will have similar and minor effects to the environment. The preferred alternative is in compliance with applicable environmental statutes.

Categorical Permissions	
Placing electrical, fiber optic, water, sanitary or drainage pipe utilities under a levee	Replacing drainage structures
Abandoning drainage structures	Removing drainage structures
Construction of bike trails on top of a levee	Installing relief wells
Abandoning relief wells	Installing pump stations
Repairing pump stations	Modifying drainage structures
Performing geotechnical explorations	Placing new riprap
Temporary staging areas and working pads for material and equipment	Installing fences
Installing utility poles	Removing existing utility poles
Replacing highway/street bridges	Placing sanitary, water, or drainage pipes up and over a levee

Categorical Permissions Continued	
Repairing/paving streets	Installing temporary channel crossings
Abandoning pipe or conduit	Placing monitoring monuments

It is my finding, based on the Programmatic EA that the proposed federal activity will not have any significant adverse impacts on the environment or USACE civil works projects and will not constitute a major federal action significantly affecting the quality of the human environment. Therefore, an EIS does not need to be prepared.

Date: 03 MAR 17



John W. Henderson, P.E.
Colonel, Corps of Engineers
District Commander



US Army Corps of Engineers
Omaha District

**PROGRAMMATIC ENVIRONMENTAL ASSESSMENT
&
FINDING OF NO SIGNIFICANT IMPACT**

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January 2017

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1. Introduction

The United States Army Corps of Engineers (USACE), Northwestern Division (NWD), Omaha District (NWO) has constructed civil works projects within its boundaries in the state of Montana to include federal flood risk reduction projects (e.g., levees and channel modifications) located in rural and urban areas. These civil works projects are constructed by USACE and turned over to a non-federal sponsor to operate and maintain per agreement with USACE. The Corps of Engineers has a congressionally mandated responsibility to ensure that the federally constructed flood risk reduction projects are appropriately operated and maintained. No improvement shall be passed over, under, or through walls, levees, improved channels or floodways, nor shall any excavation or construction be permitted within the limits of the project right of way (ROW), nor shall any change be made in any feature of the works without prior approval of the USACE.

Each year, NWO receives numerous requests from private, public, tribal, or other federal entities (requesters) to alter federally-constructed civil works projects. In 2015, NWO received 141 requests to alter federal flood risk reduction projects. When requests are received, they are evaluated on a case-by-case basis to determine if the proposed alteration would be injurious to the public interest or impair the usefulness of the USACE project. Engineering Circular (EC) 1165-2-216, titled *Policy and Procedural Guidance for Processing Requests to Alter US Army Corps of Engineers Civil Works Projects Pursuant to 33 USC 408*, provides guidance to process requests, also called Section 408 requests, and is available at [http://www.publications.usace.army.mil/USACEPublications/Engineer Circulars/tabid/16426/u31387q/323136/Default.aspx](http://www.publications.usace.army.mil/USACEPublications/Engineer%20Circulars/tabid/16426/u31387q/323136/Default.aspx).

To help expedite the submittal, review, and approval process, EC 1165-2-216 also states that USACE districts can develop categorical permissions to cover potential alterations that are similar in nature and have minor to negligible impacts.

In order to address the potential environmental impacts of implementing categorical permissions for Section 408 alterations as required under the National Environmental Policy Act (NEPA) of 1969, as amended (42 U.S. Code [USC] 4321 *et. seq.*); the President's Council on Environmental Quality (CEQ) Regulations (40 Code of Federal Regulations [CFR] 1500 – 1508) (CEQ, 1992); and the U.S. Army Corps of Engineers' Engineer Regulation (ER) 200-2-2 (33 CFR 230) (USACE, 1988), NWO has prepared this Programmatic Environmental Assessment (EA).

This Programmatic EA assesses the overall environmental effects of proposed actions that involve multiple individual projects, a large geographical area, or a suite of combined projects as described in the CEQ (2014) guidelines for *Effective Use of Programmatic National Environmental Policy Act (NEPA) Reviews*. If it is determined that a proposed Section 408 alteration would have more than a minor to negligible adverse effect, the alteration would not be considered a categorical permission and would therefore not fall under the scope of this Programmatic EA. In this case, a separate EA or Environmental Impact Statement (EIS) would need to be prepared.

This Programmatic EA will be reviewed on a regular basis to ensure compliance with applicable laws and regulations, and to ensure that circumstances have not changed that would impact the analysis and conclusions reached in this document.

1.1 33 USC Section 408 Authority and Guidance

The authority to grant permission for temporary or permanent alterations to federally-authorized civil works projects is contained in Section 14 of the River and Harbors Act of 1899, codified at 33 U.S.C. Section 408, titled *Taking possession of, use of, or injury to harbor or river improvements*. It states:

“It shall not be lawful for any person or persons to take possession of or make use of for any purpose, or build upon, alter, deface, destroy, move, injure, obstruct by fastening vessels thereto or otherwise, or in any manner whatever impair the usefulness of any sea wall, bulkhead, jetty, dike, levee, wharf, pier, or other work built by the United States, or any piece of plant, floating or otherwise, used in the construction of such work under the control of the United States, in whole or in part, for the preservation and improvement of any of its navigable waters or to prevent floods, or as boundary marks, tide gauges, surveying stations, buoys, or other established marks, nor remove for ballast or other purposes any stone or other material composing such works: Provided, That the Secretary of the Army may, on the recommendation of the Chief of Engineers, grant permission for the temporary occupation or use of any of the aforementioned civil works when in his judgment such occupation or use will not be injurious to the public interest: Provided further, That the Secretary may, on the recommendation of the Chief of Engineers, grant permission for the alteration or permanent occupation or use of any of the aforementioned civil works when in the judgment of the Secretary such occupation or use will not be injurious to the public interest and will not impair the usefulness of such work.”

Specific USACE guidance for implementation of 33 USC Section 408 is provided in EC 1165-2-216. EC 1165-2-216 is only applicable to alterations proposed within the lands and real property interests of USACE projects. EC 1165-2-216 defines the use of the terms “alteration” and “alter” as any action by an entity other than USACE that builds upon, alters, improves, moves, occupies, or otherwise affects the usefulness or the structural or ecological integrity of a USACE project. The entity or individual requesting permission to alter the USACE project, hereafter referred to as the requestor, is responsible for acquiring all other needed permissions,

authorizations, and permits. This includes any permits needed from the USACE Regulatory Program, specifically Section 10 of the Rivers and Harbors Act (for the construction of any structure in or over any navigable water of the United States) and 404 of the Clean Water Act (for the discharge of dredged or fill material into navigable water of the United States).

Generally, when a Section 408 request for alteration is proposed, a nine-step procedure, as outlined in EC 1165-2-216, is followed. This procedure is scalable to be commensurate with the scope of the requested alteration. Not all the steps will be applicable to every Section 408 request. In simple cases, such as those that are applicable to this Programmatic EA, the steps may be combined or occur simultaneously. The duties contained within the nine-step procedure are shared among the USACE, the requester, and/or the non-federal sponsor as identified below:

- 1) Pre-coordination. Early coordination between the USACE, the requestor, and the non-federal sponsor is recommended to identify potential issues, focus efforts, minimize costs, and protect sensitive information.
- 2) Written request. The requester shall provide a written request to the USACE to initiate the Section 408 process. The written request shall include: a) a complete project description, b) a statement indicating if a Section 10/404/103 permit will also be pursued, c) information regarding if credit under Section 221 of the Flood Control Act of 1970 is being sought, d) a statement of whether use of federally-owned real property or property owned by the non-federal sponsor will be required, and e) a written statement from the non-federal sponsor endorsing the proposed alteration. This information is used by the USACE to determine documentation and approval requirements.
- 3) Required documentation. The USACE works with the requestor to obtain information necessary to determine whether the proposed alteration would impair the usefulness of the project or be injurious to the public interest. Such information includes: a) technical analysis and design, b) hydrologic and hydraulics system performance analysis, c) environmental compliance, d) real estate requirements, e) Executive Order 11988 considerations— induced development in the floodplain, f) review plan, if determined necessary, g) operation and maintenance requirements, and h) other information as deemed appropriate to complete the evaluation.
- 4) District-led Agency Technical Review (ATR). The USACE identifies the appropriate subject matter experts to conduct an ATR to ensure the requirements set forth in EC 1165-2-216 have been met. The ATR makes the following determinations: a) impair the usefulness of the project determination, b) injurious to the public interest determination, c) legal and policy compliance determination.
- 5) Summary of Findings. Upon completion of the district review and demonstration of environmental compliance, the USACE district develops a Summary of Findings that provides rationale and conclusions for recommending approval or denial of the Section 408 request;
- 6) USACE Division review (if required). The Division will review the Summary of Findings for policy compliance and legal sufficiency, quality assurance and completeness; identification of conflicts with ongoing studies, and confirmation of the need for USACE

Headquarters review and decision review. Division will provide comments to the District to address, deny, or recommend approval of the request to USACE Headquarters.

7) USACE Headquarters review (if required). USACE Headquarters conducts a policy compliance review, and comments will be provided to the Division to be addressed or a memorandum of final decision will be signed along with the Finding of No Significant Impact (FONSI) or Record of Decision (ROD) as applicable if the request is granted;

8) Notification. The District Commander is responsible for providing a written notification to the requestor for a Section 408 request, regardless of the decision level, and

9) Post-permission oversight. The USACE district may develop procedures for monitoring construction activities and for post-construction inspections to ensure the alteration was completed accordingly. The requester will provide as-built drawings and Operations and Maintenance (O&M) Manual updates.

With this Programmatic EA in place, the nine-step procedure may be streamlined for a Categorical Permitted alteration by completing Step 1, which is recommend but optional; Steps 2 and 3 are combined; Step 4; Steps 5 and 8 are combined; and Step 9. The required documentation in Step 3 is reduced for a Categorical Permitted alteration with no need for a review plan or full environmental assessment because these items would already be satisfied. Steps 6 and 7 would not apply. Subsequently, the USACE could process Categorically Permitted Alteration requests more quickly by using the attached Record of Environmental Consideration to ensure compliance.

1.2 Scope of the Programmatic Environmental Assessment

The Omaha District's area of responsibility for civil works projects covers a wide geographic area and includes the states of Nebraska, Iowa, North Dakota, South Dakota, Wyoming, Colorado, Montana, Missouri, and Minnesota (Figure 1). The scope of this Programmatic EA is limited to federally-constructed flood risk reduction projects within the state of Montana. Per EC 1165-2-216, the scope of the analysis for Section 408 reviews is limited to the ROW of USACE projects and those adjacent areas that are directly or indirectly affected by the alteration. If a proposed alteration is part of a larger project that extends beyond the USACE project boundaries, the Omaha District would determine what portions or features of the larger project USACE has control or responsibility over to warrant inclusion as part of the evaluation, as described in EC 1165-2-216. Requests to modify projects other than federal flood risk reduction projects will be evaluated on a case-by-case basis.

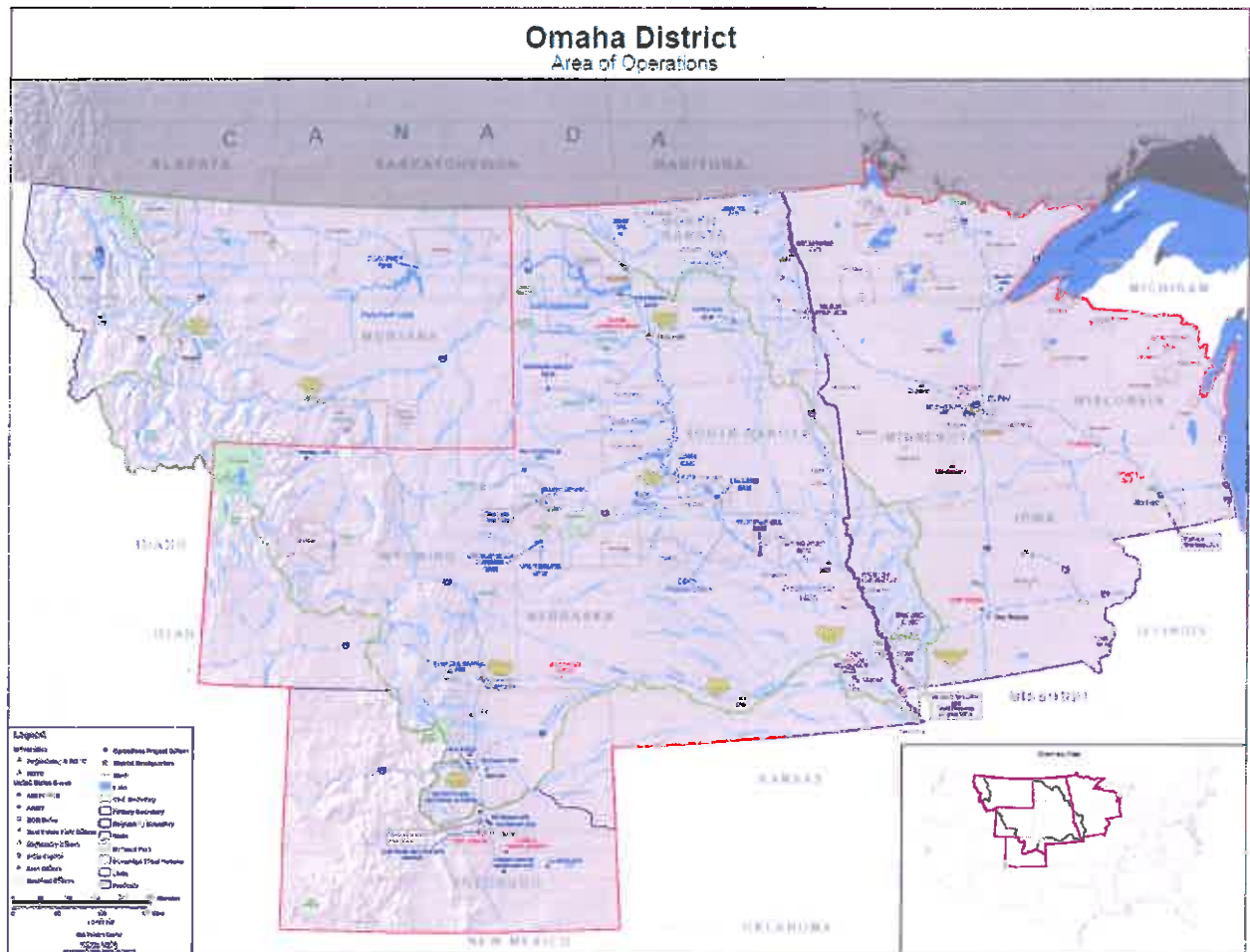


Figure 1. The Geographic Range of the U.S. Army Corps of Engineers' Omaha District

Note: The green line outlines the civil works boundary, the red line outlines the military boundary, and the purple line outlines the regulatory boundary.

2. Purpose and Need

The Omaha District receives numerous requests each year to review proposed alterations to USACE-constructed civil works projects. NWO received 141 requests to alter federally-constructed flood risk reduction projects in 2015 alone. The majority of the requests are for relatively minor alterations such as geotechnical borings, horizontal directional drilling for the placement of utility lines, protecting slopes, and altering interior drainage pipes. These activities tend to be similar in nature and have similar (minor to negligible) impacts.

Engineering Circular 1165-2-216 states that USACE districts have the ability to develop categorical permissions for compliance with Section 408 to cover potential alterations that are similar in nature and that have similar impacts. This aligns with guidance from CEQ concerning development of programmatic NEPA reviews for multiple actions that are similar in nature

(CEQ, 2014). At the same time, a programmatic document allows for a more comprehensive evaluation of potential environmental impacts that may result from numerous alterations within NWO. The purpose of this document is to utilize categorical permissions as described in EC 1165-2-216 to cover potential alterations that are similar in nature and have similar impacts (minor to negligible) in order to expedite the review and approval process.

3. Alternatives

National Environmental Policy Act regulations indicate to some extent the scope of alternatives to be considered in all EAs and EISs. These include the No-Action Alternative, Preferred Alternative, and other “reasonable” alternatives. These regulations also generally set the scope for a Programmatic EA by directing agencies to group activities together. For this Programmatic EA, only two reasonable alternatives, the No-Action Alternative and the Preferred Alternative, were considered, since the only viable options are to continue processing proposed Section 408 alteration requests on a case-by-case basis or utilize an approved list of categorical permissions, as outlined in this Programmatic EA, to expedite the Section 408 review process.

3.1 Alternative 1 – No Action

The No-Action Alternative would not result in the development of categorical permissions. All requests to alter USACE projects would be evaluated on a case-by-case basis to determine if the alteration would be injurious to the public interest or impair the usefulness of the USACE civil works project. This alternative would not meet the purpose and need of expediting requests that are similar in nature and have similar impacts; however, this alternative has been retained in this Programmatic EA in order to provide a baseline for comparison with the Preferred Alternative.

3.2 Alternative 2 – Utilize a List of Approved Categorical Permissions to Expedite the Section 408 Review and Approval Process (Preferred Alternative)

Under the Preferred Alternative, a list of approved categorical permissions would be utilized in order to expedite the review process for Section 408 requests to alter USACE civil works projects. All Section 408 requests must meet general and engineering requirements as well as environmental conditions established by USACE. General and engineering requirements include:

- a. Design and construction specifications must be signed and sealed by a registered Professional Engineer and, if applicable, a registered Geologist from the state of Montana.
- b. Proposed alterations must not negatively impact typical performance, inspections, operations, and maintenance of the USACE project.
- c. Proposed alterations must not adversely impact any flood-fighting operations that may be conducted at the USACE project.

- d. Proposed alterations must not result in any increase in operation and maintenance costs to the government.

If the above general and engineering requirements are met, the proposed alteration would not be expected to impair the usefulness of the USACE project. In addition to meeting the above requirements, Section 408 requests must meet environmental conditions which include:

- a. Proposed alterations must not adversely affect threatened or endangered species, including their critical habitat, in accordance with the Endangered Species Act.
- b. Proposed alterations must not result in the 'take' of any migratory birds as defined by the Migratory Bird Treaty Act.
- c. Proposed alterations must not result in the transfer of any invasive species to new locations.
- d. Proposed alterations requiring a Section 404 Permit must be within the limits of an applicable Nationwide or Regional General Permit.
- e. Proposed alterations must incorporate Best Management Practices (BMPs) to control storm water runoff or any point source discharges in accordance with required National Pollutant Discharge Elimination System (NPDES) permits.
- f. Proposed alterations must not encourage additional development within the floodplain.
- g. Proposed alterations must not adversely affect any cultural resources and must be in compliance with Section 106 of the National Historic Preservation Act.
- h. Proposed alterations must meet other conditions as described in Chapter 5, Environmental Consequences.

If the above environmental conditions are met and the proposed alteration has only a negligible or minor impact to the environment, then the alteration would be considered not injurious to the public interest. If a proposed alteration does not meet the above environmental conditions or results in more than negligible or minor impacts to the environment, then a stand-alone environmental assessment, potentially including mitigation for impacts, or an environmental impact statement would be prepared.

The list of categorical permissions in this Programmatic EA, described below, was developed based on past experience that showed the construction of these types of alterations met the above general and engineering requirements and were not injurious to the project. The categorical permissions also met the environmental conditions and the impacts to the environment were considered negligible to minor. By developing an approved list of categorical permissions in which detailed environmental analysis is not required, the Preferred Alternative meets the purpose and need for expedited review and approval of Section 408 requests to alter USACE civil works projects.

1) Placing Electrical, Fiber Optic (Internet, Phone, and Cable), Water, Sanitary, or Drainage Pipe Utilities under a Levee (Note: The placement of gas lines will require a more detailed review and will not be considered a categorical permission.)

- Open Cut – Within the project ROW levee embankment material is removed and then replaced according to design criteria for placement of the utility.
 - Horizontal Directional Drill – A pit is excavated on either side of the levee, usually outside the project ROW, and then pressure and drilling fluids are used to place the utility under the levee embankment/channel section.
 - Jack and Bore – A pit is excavated on either side of the levee, usually outside the project ROW (in agricultural fields or in urban locations), and then the utility is mechanically placed under the surface.
- 2) Replacing Drainage Structures**
- The existing structures are demolished and a new structure is constructed per USACE design criteria. All work typically remains within the project ROW.
- 3) Abandoning Drainage Structures**
- Grout is placed inside an existing pipe and gatewell structure (to an elevation above the top invert of the pipe inside the gatewell) to fill all voids.
- 4) Removing Drainage Structures**
- An existing structure is demolished and replaced with compacted fill material.
- 5) Constructing a Bike Trail on top of a Levee (Including Rest Stations)**
- Gravel surfacing, concrete, or asphalt is placed on top of the existing levee crest. Placement of any material cannot degrade the authorized level of flood protection.
- 6) Installing Relief Wells**
- A hole is bored into the earth’s surface some distance away from the landside toe of the levee and a relief well is then installed.
- 7) Abandoning Relief Wells**
- Existing relief wells are grouted full and then abandoned per State and other applicable requirements.
- 8) Installing Pump Station**
- A pump structure is constructed on the landside of the levee near a water feature (ditch or channel).
- 9) Repairing Pump Station**
- Components of the pump station (pump, electrical controls, etc.) may be repaired or replaced or the entire pump station itself may be replaced.
- 10) Modifying Existing Drainage Structures**
- Slip lining – Slip lining, a trenchless method for repairing structural or environmental damages to a pipe, is completed by installing a smaller “carrier pipe” into the larger “host pipe” grouting the annular space between the two pipes, and sealing the ends.
- 11) Performing Geotechnical Explorations**
- Geotechnical explorations, for the purpose of determining the soundness of the civil works project, may be performed on the levee crest, riverside berms, and/or landside berms by using borings, Cone Penetration Tests (small probe pushed into the ground), or Multi-Electrode Electrical Resistivity Tests (cable and shallow depth probes placed on the levee crest or levee cross section).
- 12) Placing New Riprap**

- New riprap is placed on the channel slope, levee embankment, around bridge piers and outfall structures for erosion control.
- 13) **Temporary Staging Areas and Working Pads for Material and Equipment**
- Temporary staging areas or working pads are set up for materials and/or equipment within the project ROW. This also includes levee crests or berms that are used as haul roads. The impacted area will need to be repaired to pre-construction conditions.
- 14) **Installing Fences**
- Fences that are designed to not impede wildlife migrations can be installed on the project ROW or up and over a levee. Access gates can be included.
- 15) **Installing Utility Poles**
- Utility poles are erected within the project ROW, but not on the levee section.
- 16) **Removing Existing Utility Poles**
- Existing utility poles are removed and the holes are backfilled with compacted material and/or grout.
- 17) **Replacing Highway/Street Bridge**
- Bridges may be removed or replaced. Levee tie-ins may be impacted with the removal of the bridge embankment and placement of bridge piers near the levee embankment or within the channel limits.
- 18) **Placing Sanitary, Water, or Drainage Pipes Up and Over the Levee**
- A pipe is placed on top of the levee crest, embankment material is added to cover the pipe, and the top of the levee is surfaced to accommodate vehicles. Levee side slopes also will have additional embankment material placed to cover the pipe.
- 19) **Repairing/Paving Streets**
- Construction of new street paving or repair of existing paving that is placed on the levee section or up and over the levee section. Typical work includes milling existing paving and placing new paving.
- 20) **Installing Temporary Channel Crossings**
- Temporary culverts are installed with riprap placed around and on top of the structure located within the flow line of a channel. Crossing provides access for construction equipment to move from one bank to another. A hydraulic no-rise analysis must be provided.
- 21) **Abandoning Pipe or Conduit**
- A pipe or conduit within the levee is either completely removed or abandoned by grouting.
- 22) **Placing Monitoring Monuments**
- Monuments (e.g., carsonite posts or brass caps) are constructed on the project to survey and monitor for movement typically due to nearby construction or marking the location of sub-grade features.

It should be noted that this Programmatic EA is specific to work completed on levees and other flood risk reduction projects for which USACE has an interest per the Public Law (PL) 84-99 Rehabilitation Program. The PL 84-99 program consists of federal flood risk reduction projects

owned, operated, and maintained by non-federal sponsors. Although USACE does not have any real estate interest on these projects, USACE does maintain a federal interest in these projects since the program provides rehabilitation assistance for damages caused during high-water events. This Programmatic EA does not address the following activities since they have already been determined to be categorically excluded under NEPA per Corps Engineering Regulation 200-2-2 (33 CFR 230.9):

(a) Activities at completed Corps projects which carry out the authorized project purposes. Examples include routine operation and maintenance actions, general administration, equipment purchases, custodial actions, erosion control, painting, repair, rehabilitation, replacement of existing structures and facilities such as buildings, roads, levees, groins and utilities, and installation of new buildings utilities, or roadways in developed areas.

(b) Minor maintenance dredging using existing disposal sites.

(c) Planning and technical studies which do not contain recommendations for authorization or funding for construction, but may recommend further study. This does not exclude consideration of environmental matters in the studies.

(d) All Operations and Maintenance grants, general plans, agreements, etc., necessary to carry out land use, development and other measures proposed in project authorization documents, project design memoranda, master plans, or reflected in the project NEPA documents.

(e) Real estate grants for use of excess or surplus real property.

(f) Real estate grants for Government-owned housing.

(g) Exchanges of excess real property and interests therein for property required for project purposes.

(h) Real estate grants for rights of way which involve only minor disturbances to earth, air, or water: (1) minor access roads, streets and boat ramps, (2) minor utility distribution and collection lines (fiber optic lines, power lines, water lines, and irrigation lines/intakes), (3) removal of sand, gravel, rock, and other material from existing borrow areas, (4) oil and gas seismic and gravity meter survey for exploration purposes, and (5) storm water intakes.

(i) Real estate grants of consent to use Government-owned easement areas (applicable only to consents that do not impair the usefulness of the Government-owned easement).

(j) Real estate grants for archeological and historical investigations compatible with the Corps' National Historic Preservation Act responsibilities.

(k) Renewal and minor amendments of existing real estate grants evidencing authority to use Government-owned real property.

(l) Reporting excess real property to the General Services Administration for disposal.

(m) Boundary line agreements and disposal of lands or release of deed restrictions to cure encroachments.

(n) Disposal of excess easement interest to the underlying fee owner.

(o) Disposal of existing buildings and improvements for off-site removal.

(p) Sale of existing cottage site areas.

(q) Return of public domain lands to the Department of the Interior.

(r) Transfer and grants of lands to other Federal agencies.

(s) Oil and Gas Development. Examples include geotechnical investigations, seismic and gravity meter surveys, biological/cultural resource surveys, decommissioning/abandonment of wells/pipelines, reclamation activities, and repurposing existing pipelines. Currently, NWO does not use this categorical exclusion due to extraordinary circumstances. As such, these oil/gas development projects cannot be excluded from NEPA nor considered a categorical permission.

4. Existing Conditions

This section contains a description of relevant resources that could be impacted by each alternative. The important resources described in this section are those recognized by laws, executive orders, regulations, and other standards of National, state, or regional agencies and organizations; technical or scientific agencies, groups, or individuals; and the general public. In order to assess the environmental consequences of alternatives, the existing conditions or affected environment of the proposed study area must be known. Due to the broad nature of this Programmatic EA and the large span of completed USACE civil works projects within the state of Montana, the affected environmental resources are addressed collectively by two means: regionally and individually. Regional resources (i.e., air quality, cultural resources, recreation, terrestrial vegetation, threatened and endangered species, and wildlife) are somewhat similar throughout the state of Montana while individual or project-specific resources (i.e., water quality, aquatic species, noise, wetlands and threatened and endangered species) vary based on the project site.

Resources that were considered, but not carried forward because no adverse impacts were identified included: climate and meteorology (no measureable effect on climate would occur from the proposed project due to the minor construction footprint and duration), hazardous waste (these areas would always be avoided so no impacts would arise), and prime farmlands (lands occupied by the USACE civil works projects are currently under-going a differing use and are not farmable, thus, no impacts to farmlands would occur).

4.1 Existing Regional Conditions for Montana

4.1.1 Air Quality

Federal air quality policies are regulated through the Clean Air Act. In accordance with this act, the U.S. Environmental Protection Agency (EPA) has established National Ambient Air Quality Standards (NAAQS) for criteria pollutants considered harmful to public health and the environment. The criteria pollutants include carbon monoxide, lead, nitrogen dioxide, ozone, sulfur dioxide, and particulate matter. The EPA is required to designate counties or air basins as in attainment or nonattainment for each criteria pollutant. Attainment means that an area is meeting or is below a given safe standard set by the EPA for the particular criteria pollutants. If an area is in nonattainment (the levels of a particular pollutant exceed EPA standards) the state must develop an implementation plan to achieve compliance. Once in compliance with the NAAQS, the area becomes a maintenance area.

The EPA has issued regulations addressing the applicability and procedures for ensuring that federal activities comply with the Clean Air Act. The EPA Final Conformity Rule requires federal agencies to ensure that federal actions in designated nonattainment or maintenance areas conform to an approved or promulgated state implementation plan or federal implementation plan to ensure that a federal action would not cause a new violation of the NAAQS, contribute to any increase in the frequency or severity of violations of existing NAAQS, or delay the timely attainment of any NAAQS or other attainment milestones. If a project results in a total net increase in pollutant emissions that is less than the applicable *de minimis* threshold established in 40 CFR 93.153(b), detailed conformity analyses are not required. The air quality in Montana is good with all counties in attainment with the NAAQS for all criteria pollutants except for Cascade County.

Cascade County is in non-attainment for carbon monoxide and designated as a “Not Classified” County. A Not Classified county means that the county was designated non-attainment for a criteria pollutant (in this case, carbon monoxide) as of the date of enactment of the Clean Air Act Amendments of 1990 and there currently is not sufficient data to determine whether or not the county is meeting the carbon monoxide standard.

Carbon monoxide (CO) is a colorless, odorless gas emitted from the combustion processes. Nationally and, particularly in urban areas, the majority of CO emissions to ambient air come from mobile sources. CO can cause harmful health effects by reducing oxygen delivery to the body's organs (like the heart and brain) and tissues. At extremely high levels, CO can cause death.

4.1.2 Cultural Resources

Cultural resources are a broad pattern of material and non-material sites or objects that represent contemporary, historic, and pre-historic human life, ways, or practices. River floodplains usually contain a variety of cultural resource types that span from the earliest Native American inhabitants of North America to the present. Common cultural resource sites include prehistoric Native American archeological sites, historic archeological sites, ship wrecks, and structures such as bridges and buildings. Projects involving Federal land, funds, or permitting are subject to compliance with the National Historic Preservation Act of 1966 (NHPA).

The NHPA (Public Law 89 80-655), as amended, and other applicable laws and regulations require Federal agencies to take into account the effects of their undertakings on significant cultural resources within the proposed undertaking's area of potential effect (APE). Typically, these studies require archival searches and field surveys to identify if any cultural resources are present. When significant sites are recorded, efforts are made to avoid the resources, minimize adverse effects, and preserve the site(s) in place. If any significant sites cannot be avoided and would be adversely impacted, an appropriate mitigation plan would be implemented to recover data that would be otherwise lost due to the undertaking. The civil works project areas have been previously disturbed during original construction of the project and, as such, likely do not contain subsurface cultural resources. The original levees and their component structures are in

some cases over 50 years old and hence may be evaluated for eligibility to be listed on the National Register of Historic Places (NRHP). However, due to periodic substantial alterations, repairs, and replacements, they will in all likelihood lack:

“The quality of significance in American history, architecture, archeology, engineering, and cultural as present in districts, sites, buildings, structures, and objects that *possess integrity* of location, design, setting, materials, workmanship, feeling, and association, and...”

Specifically under Criterion C:

“... That *embody the distinctive characteristics* of a type, period, or method of construction, or that represent the work of a master, or that possess high artistic values, or that represent a significant and distinguishable entity whose components may lack individual distinction.”

Undertakings such as taking borings, installing posts or poles, horizontal directional drilling for the placement of utility lines, protecting slopes, and installing small structures such as outbuildings and drainage pipes or any of the actions enumerated in Section 3.2, are unlikely to impact eligible historic properties. Potential exceptions may exist, such as the repair or replacement of unique or rare historic bridges.

4.1.3 Recreation

The Federal Water Project Recreation Act of 1965, as amended, declares that recreation and fish and wildlife enhancement be given full consideration as purposes of federal water development projects. The Land and Water Conservation Fund Act of 1965 (LWCFA), as amended, assists in preserving, developing, and assuring accessibility to outdoor recreational resources.

The recreational resources associated with civil works projects generally consist of hiking and biking trails that are located on the levee crown or in the project’s ROW. If project sites contain recreational resources that are LWCFA facilities (national natural treasures such as parks, protected forests, and wildlife areas), coordination with the National Park Service would be required to ensure a conversion does not occur to the feature.

4.1.4 Terrestrial Vegetation

Most of the civil works projects described in this Programmatic EA consist of levees and other flood control structures. During construction of these projects, existing habitat was cleared, the project was built, and then the area was planted with a uniform stretch of brome grass. During operation and maintenance activities on the completed projects, the brome grass is regularly mowed to prevent the establishment of trees, minimize wildlife usage that may cause adverse effects to the project, and provide ease of inspection in order to quickly identify deficiencies and allow for expedited repairs. In some areas, native vegetation has been planted adjacent to levees but never on levees themselves. As stated, trees are not allowed to grow on the projects or within the projects’ ROW, which is generally 15 feet on either side. Although the projects are located in both urban and rural areas, the terrestrial vegetation on the projects remain the same;

regularly mowed brome grass. In limited instances, native vegetation was planted on seepage berms.

4.1.5 Wildlife

The Fish and Wildlife Coordination Act of 1958, as amended, recognizes the vital contribution of wildlife resources to the Nation and requires equal consideration and coordination of wildlife conservation with water resources development programs. The Migratory Bird Treaty Act of 1918 established a federal prohibition against pursuing, hunting, taking, capturing, killing, possessing, offering for sale, purchasing, delivering, shipping, transporting, exporting, or attempting any of these activities with any migratory bird, part, nest, or egg.

Because the majority of the civil works projects covered under this Programmatic EA consist of levees and improved channels with limited terrestrial vegetation (i.e., regularly mowed brome grass and lack of trees), wildlife use is limited. Wildlife in close association with the projects generally includes species accustomed to human presence and disturbance. Mammals common to these areas include white-tailed deer, eastern cottontail rabbit, raccoon, fox squirrel, and opossum. Common birds include blue jays, robins, mourning doves, cardinals, swallows, and sparrows. Raptors likely use these areas for hunting and resting but no nesting activity occurs due to the lack of trees.

For those civil works projects that are located in more rural areas, habitat adjacent to the brome-grass expanses would likely consist of agricultural or wild/undisturbed lands. Because of the diminished human presence in these areas, wildlife likely to be found adjacent to the civil works projects include threatened and endangered species, bald eagles, migratory birds not typically seen in urban and park-like settings, and mammals such as bobcat, cougar, and fox.

4.1.6 Threatened and Endangered Species

The Endangered Species Act of 1973 (ESA), as amended, provides for the conservation of species listed as endangered and threatened throughout all or a significant portion of their range, and provides for the conservation of the ecosystems on which they depend. As habitat loss is the primary threat to most imperiled species, the ESA allows designation of specific areas as critical habitat.

The following threatened and endangered species are known to occur in the state of Montana and subsequently could be found near the civil works projects described in this Programmatic EA. Following the discussion of threatened and endangered species, Table 4-1 on page 24 provides a summary of the threatened and endangered species in the State of Montana that have the potential to occur at individual civil works project sites.

4.1.6.1 Interior least terns and piping plovers (*Sterna antillarum athalassos*) and piping plover (*Charadrius melodus*) nest on unvegetated or sparsely vegetated sandbars in river channels and occasionally along the shorelines of sandpits. The nesting season for the least tern and piping plover is from late May to mid-August. Channel constrictions and obstructions that disrupt

natural flows and influence sandbar complexes in the river limit potential habitat for these birds (Figures 2 and 3, respectively).

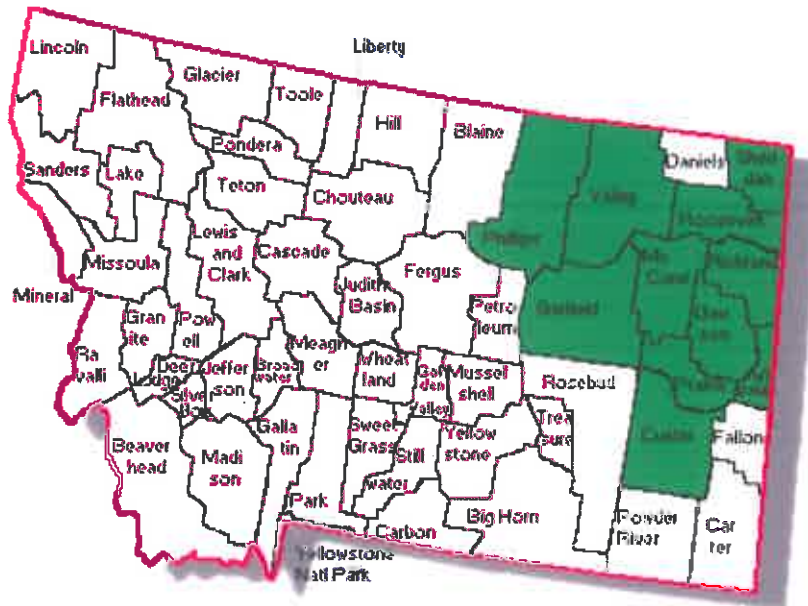


Figure 2. Estimated Current Range of Interior Least Tern (Courtesy of dyimaps.net)

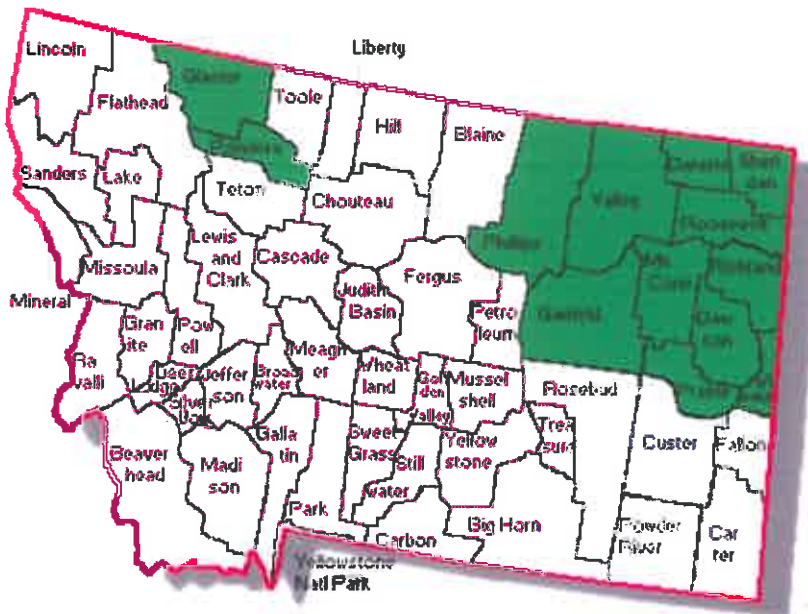


Figure 3. Estimated Current Range of Piping Plover (Courtesy of dyimaps.net)

4.1.6.2 Yellow-billed Cuckoo (*Coccyzus americanus*) use wooded habitat with dense cover and water nearby, including woodlands with low, scrubby, vegetation, overgrown orchards, abandoned farmland, and dense thickets along streams and marshes. Nests are often placed in willows along streams and rivers, with nearby cottonwoods serving as foraging sites (Figure 4).

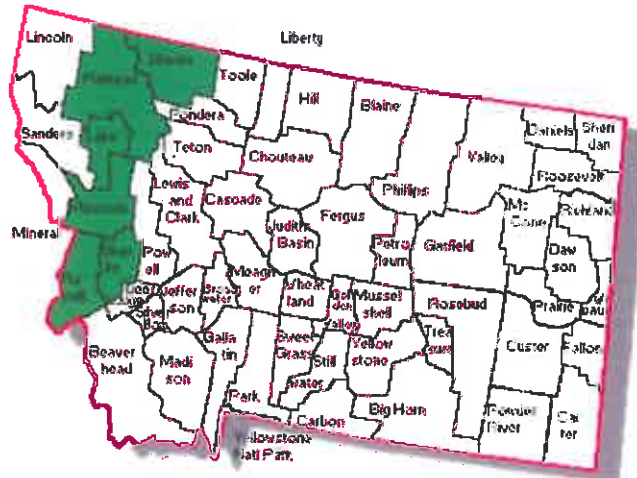


Figure 4. Estimated Current Range of Yellow-billed Cuckoo (Courtesy of dyimaps.net)

4.1.6.3 Rufa Red knot (*Calidris canutus rufa*) is a medium-sized shorebird. This species travels up to 9,300 miles twice a year in search of suitable habitat and food. Rufa red knot breed in the arctic and after chicks fledge, migrate to southern Chile and Argentina to winter. Rufa red knot feed on plant seeds, grass shoots, invertebrates, small snails, and crustaceans. Rufa red knot use edge waters as stop-over or resting habitat during their long migrations. However, Rufa red knot prefer migration corridors along the Atlantic coast and are faithful to those specific sites. Thus, Rufa red knot would be considered extremely rare visitors to the project sites (Figure 5).

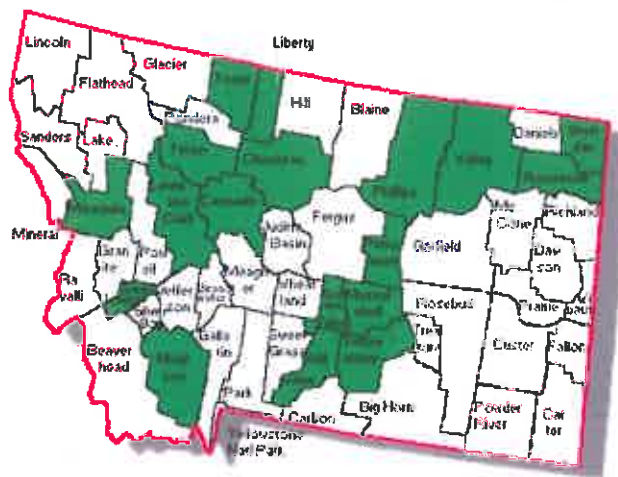


Figure 5. Estimated Current Range of Rufa Red Knot (Courtesy of dyimaps.net)

4.1.6.4 Whooping crane (*Grus Americana*) prefer open sand and gravel bars or very shallow water in rivers and lakes. Migrating cranes make frequent stops along banks and sandbars to feed and rest during their migration (Figure 6).

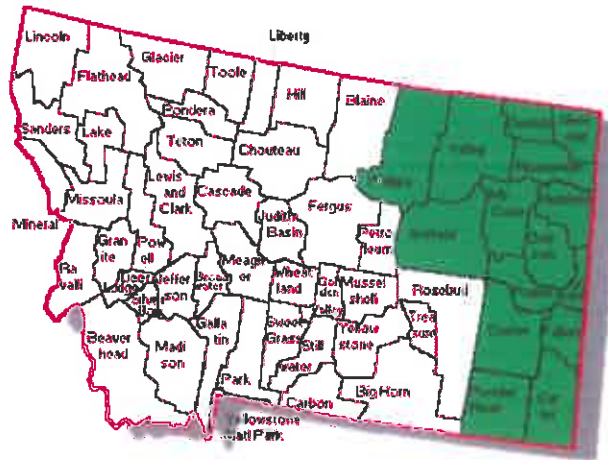


Figure 6. Estimated Current Range of Whooping Crane (Courtesy of dyimaps.net)

4.1.6.5 Pallid sturgeon (*Scaphirhynchus albus*) are typically bottom dwellers in rivers with swift, turbid, and free flowing waters. Pallid sturgeon are adapted for living close to the bottom of large, shallow rivers with sand and gravel bars. Pallid sturgeon are associated with diverse aquatic habitats and are found in large-river ecosystems that provide a diverse array of floodplains, backwaters, chutes, sloughs, islands, sandbars, and main channel waters. Fish are the preferred food of pallid sturgeons, although aquatic insect larvae are also consumed in earlier life stages (Figure 7).

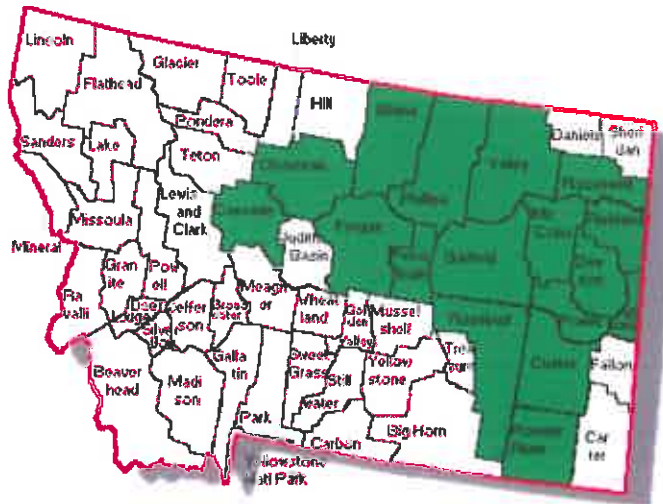


Figure 7. Estimated Current Range of Pallid Sturgeon (Courtesy of dyimaps.net)

4.1.6.6 White Sturgeon (*Acipenser transmontanus*) is a land-locked species in Montana restricted to approximately the 167.7 River Mile (RM) area of the Kootenai River extending from Kootenai Falls, Montana, located 31 river miles below Libby Dam, Montana, downstream through Kootenay Lake to Corra Linn Dam at the outflow from Kootenay Lake in British Columbia. These sturgeon spawn in the Kootenai River and spend part of their life in Kootenay Lake in British Columbia (Figure 8).



Figure 8. Estimated Current Range of White Sturgeon (Courtesy of dyimaps.net)

4.1.6.7 Bull Trout (*Salvelinus confluentus*) have specific habitat requirements that appear to influence their distribution and abundance. They need cold water to survive, so they are seldom found in waters where temperatures exceed 59 to 64 degrees Fahrenheit. They also require stable stream channels, clean spawning and rearing gravel, complex and diverse cover, and unblocked migratory corridors. Bull trout exhibit two forms: resident and migratory. Resident bull trout spend their entire lives in the same stream/creek. Migratory bull trout move to larger bodies of water to overwinter and then migrate back to smaller waters to reproduce. Bull trout prey on invertebrates and small fish (Figure 9).

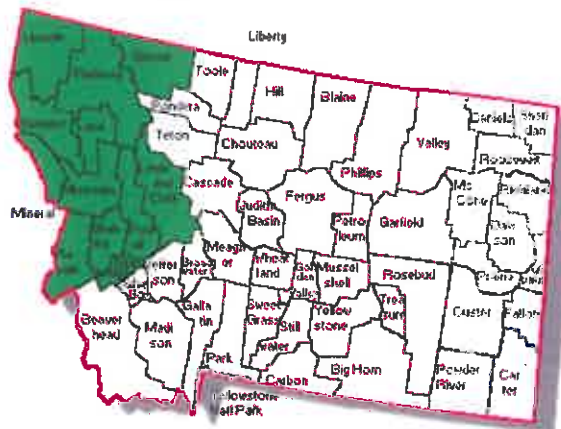


Figure 9. Estimated Current Range of Bull Trout (Courtesy of dyimaps.net)

4.1.6.8 Black-Footed Ferret (*Mustela nigripes*) is one of the most endangered mammals in North America. Black-footed ferrets once ranged throughout the Great Plains. Black-footed ferret populations declined drastically in the 1900s, primarily because of the eradication of prairie dogs – their main source of food. The decrease of prairie dog numbers is a result of habitat loss, disease, and purposeful elimination because of grazing conflicts with livestock and feeding on winter wheat crops. Black-footed ferrets also rely on prairie dog burrows for protection and cover (Figure 10).

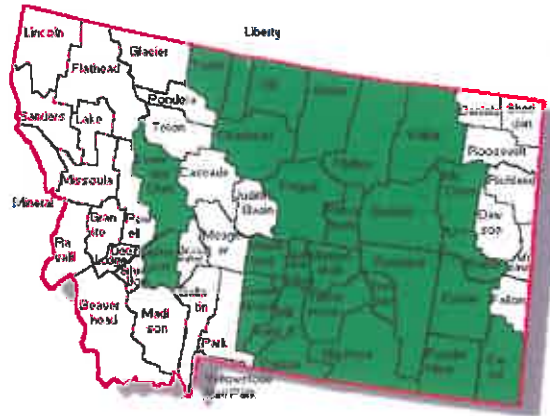


Figure 10. Estimated Current Range of Black-footed Ferret (Courtesy of dyimaps.net)

4.1.6.9 Northern long-eared bats (*Myotis septentrionalis*) roost behind loose pieces of bark, within cavities and crevices of live and dead trees, and occasionally in structures like barns and buildings during the summer months. They emerge at dusk to forage on insects and return to their roosts before dawn. In the winter months, northern long-eared bats hibernate in caves and in mines. In the spring and fall months, northern long-eared bats migrate in large numbers between their summer and winter habitats (Figure 11).

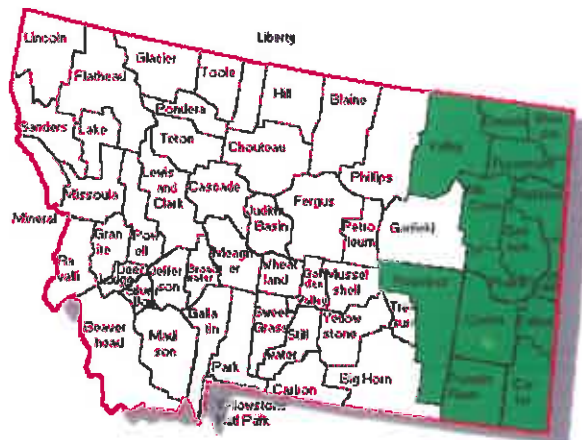


Figure 11. Estimated Current Range of Northern Long-eared Bat (Courtesy of dyimaps.net)

4.1.6.10 Grizzly Bear (*Ursus arctos horribilis*) can be found in woodlands, forests, alpine meadows and prairies. They prefer large tracts of undisturbed habitat in riparian areas along rivers and streams with minimal human presence (Figure 12).

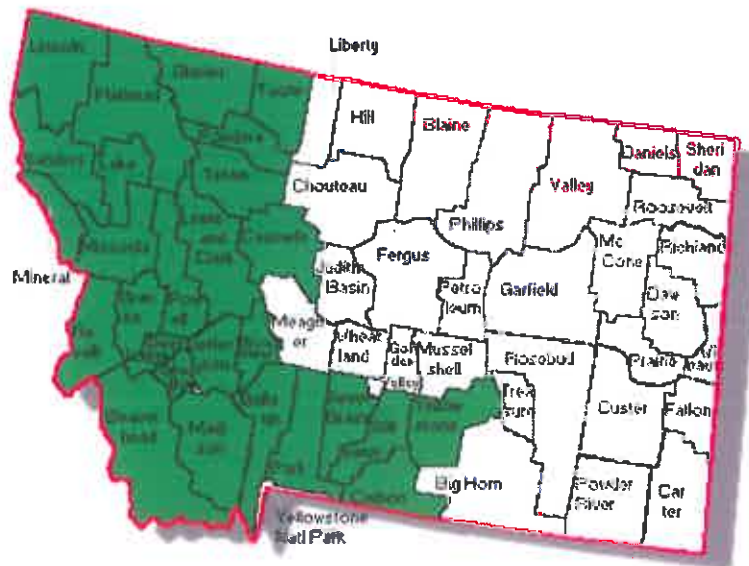


Figure 12. Estimated Current Range of Grizzly Bear
(Courtesy of dyimaps.net)

4.1.6.11 Canada Lynx (*Lynx canadensis*) inhabits moist boreal forests that have cold, snowy winters and a high-density snowshoe hare prey base (Figure 13).

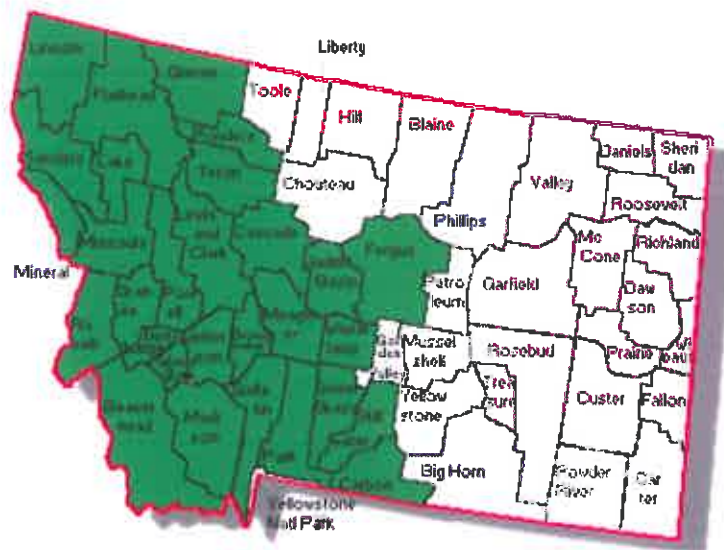


Figure 13. Estimated Current Range of Canada Lynx
(Courtesy of dyimaps.net)

4.1.6.12 Spalding's Catchfly (*Silene spaldingii*) is found predominantly in the Pacific Northwest bunchgrass grasslands and sagebrush-steppe, and occasionally in open-canopy pine stands. Occupied habitat in Montana includes the Intermontane Valleys of northwestern Montana. All green portions of the plant (foliage, stem, and flower bracts) are covered in dense sticky hairs that frequently trap dust and insects, giving this species the common name 'catchfly.' Plants emerge in mid-to late-May. Flowering typically occurs from mid-July through August, but may occasionally continue into October (Figure 14).

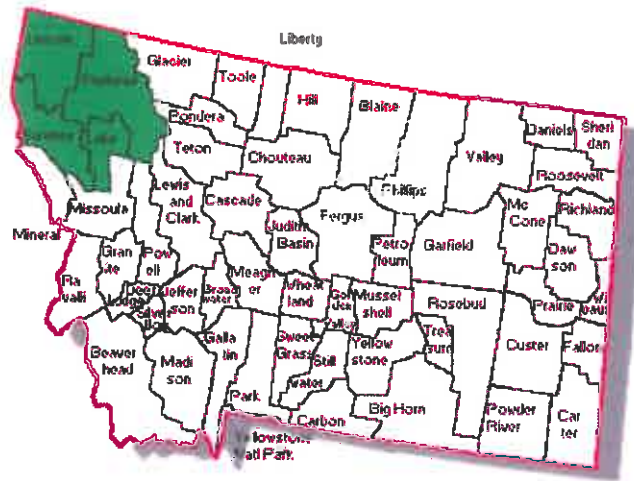


Figure 14. Estimated Current Range of Spalding's Catchfly (Courtesy of dyimaps.net)

4.1.6.13 Water Howellia (*Howellia aquatilis*) has extensively branched, submerged or floating stems and narrow, linear, alternate (sometimes opposite) leaves. Water howellia usually flowers in May and June, with small trumpet-shaped blooms at or above the water surface. Water howellia reproduces only by seed which germinates when ponds dry during fall. The plant grows in areas that were once associated with glacial potholes and former river oxbows that flood in the spring, but usually dry at least partially by late summer. It is often found in shallow water (1-2 meters) and on the edges of deep ponds that are partially surrounded by deciduous trees such as black cottonwood and aspen (Figure 15).



Figure 15. Estimated Current Range of Water Howellia
(Courtesy of dyimaps.net)

4.1.6.14 Ute Ladies'-tresses (*Spiranthes diluvialis*) are usually found growing in the cobbly sand, shingly sand, gravelly sand or sandy loam of wet meadows, stream or lake margins, abandoned stream meanders, riparian sandbars and sub-irrigated springs and seeps. Occasionally it may grow in moist swales. It avoids the shade of woody shrubs and trees, especially *Tamarix*-dominated sites, and prefers open, sunny forb / graminoid-dominated (i.e., grass like) habitats instead. This orchid depends on natural stream processes and probably on the type of nomadic grazing typical of native ungulates (i.e., large mammals such as deer). Urbanization has eliminated this species throughout its range. Heavy recreational use of riparian habitats can result in trampled plants. Weed infestations are a serious threat to Ute ladies'-tresses. This species has a very low reproductive rate, which makes it even more vulnerable to the above threats (Figure 16).



Figure 16. Estimated Current Range of Ute Ladies'-Tresses
(Courtesy of dyimaps.net)

4.1.6.15 Designated critical habitat is not present for any of the federally-listed threatened or endangered species within areas containing completed civil works projects. Since the existing projects are within areas that were previously disturbed by construction and are now regularly disturbed (operation and maintenance activities), additional investigations for threatened or endangered species' critical habitat on USACE civil works project sites are not necessary under this Programmatic EA.

Critical habitat may be located in areas adjacent to the USACE civil works projects or designated at a date in the future. To ensure designated critical habitat is not adversely modified or destroyed by actions taken to construct categorically permitted alterations, informal consultation with the U.S. Fish and Wildlife Service (USFWS) would occur on a case-by-case basis.

Table 4-1. Threatened and Endangered Species in the State of Montana and Potential Occurrence at Individual Civil Works Project Sites. (An "X" indicates potential occurrence at that site).

Flood Protection Project	Pallid Sturgeon	Black-footed Ferret	Northern Long-eared Bat	Whooping Crane	Interior Least Tern	Piping Plover	Rufa Red Knot	Grizzly Bear	Canada Lynx
Forsyth	X	X	X						
West Glendive	X		X	X	X	X			
Glasgow	X	X	X	X	X	X	X		
Malta	X	X		X	X	X	X		
Havre		X							
Great Falls	X						X	X	X
Vaughn	X						X	X	X
Saco	X	X		X	X	X	X		

Note: The yellow-billed cuckoo, white sturgeon, bull trout, Spalding's catchfly, water howellia, and Ute ladies'-tresses do not occur in any of the counties where the civil works project sites occur.

4.1.7 Floodplains

Floodplains along the rivers in Montana have been substantially altered over the past century. In many areas, flood control, bank stabilization, and channelization of rivers have either completely or partially removed the connectivity of the rivers with their floodplain. The majority of floodplains are now used for either agriculture or urban development. It is expected that over time, more agricultural areas will be converted to urban/suburban uses, as urban populations continue to grow.

4.2 Existing Site-Specific Conditions

For the site-specific project areas, water quality, aquatic species, noise, wetlands, and threatened and endangered species are discussed on an individual basis.

4.2.1 Water Quality

Individual states have jurisdiction for managing water quality within their states. Section 303(d) of the Clean Water Act requires each state to identify water for which existing required pollution controls are not stringent enough to meet state water quality standards as well as to identify the beneficial uses of that water. States are also required to establish total maximum daily loads (TMDLs) for these waters (see 40 CFR 130.7). In Montana, the Montana Department of Environmental Quality maintains and updates (every two years) a Water Quality Integrated Report for all surface waters in the state. The report can be downloaded at http://deq.mt.gov/Portals/112/Water/wqpb/cwaic/Reports/IRs/2016/Draft_2016_IR.pdf.

4.2.2 Aquatic Species

The Fish and Wildlife Coordination Act of 1958, as amended, was established to provide protection to fish and wildlife when federal actions result in the control or modification of a natural stream or waterbody.

Montana's rivers and streams support a diverse population of fish that feed, breed, and shelter on a year-round basis. Over 86 species have been reported in numerous surveys and much overlap in species composition is noted within Montana's watersheds. Native species include bigmouth buffalo, blue sucker, brassy minnow, brook stickleback, bull trout, Artic grayling, burbot, channel catfish, creek chub, emerald shiner, fathead minnow, flathead chub, freshwater drum, goldeye, Iowa darter, lake chub, lake trout, lake whitefish, largescale sucker, longnose dace, mountain sucker, mountain whitefish, northern pike, northern pikeminnow, northern redbelly dace, paddlefish, peamouth, pearl dace, plains minnow, pygmy whitefish, redbelly shiner, river carpsucker, sand shine, sauger, shorthead redhorse, shorthead sculpin, shortnose gar, sicklefin chub, smallmouth buffalo, spoonhead sculpin, stonecat, trout-pearch, white sturgeon, white sucker, and western silvery minnow.

4.2.3 Noise

Noise is defined as unwanted sound that interferes with normal activities or in some way reduces the quality of the environment. Across the civil works project area in Montana, the level of ambient noise varies considerably depending on the amount of development in a given area. In agricultural areas, which are typically open, noise may carry for some distance. Noise sources in agricultural areas are predominantly natural and include wind, weather, and wildlife sounds with occasional sounds from farm machinery. Traffic from highways and other roadways also are a common source of background noise. Seasonally, noise produced from farming activities creates levels of noise similar to the types of noises produced by some construction activities.

In urban and residential areas, road traffic is the major source of noise with other noises coming from construction and industrial sources. The most noise sensitive areas in urban environments include parks, recreational areas, and businesses. Areas with a high sensitivity to noise, such as residences, schools and day care facilities, hospitals, places of worship, and libraries occasionally occur adjacent to USACE civil works projects.

Sources of noise in or around areas further removed from urban development may include recreational boating, hunting, and other human activities (e.g., ATVs). Isolated and even more remote areas have a greater potential to contain desirable habitat for fish and wildlife including threatened and endangered species (e.g., less human disturbance therefore less noise).

4.2.4 Wetlands

The Clean Water Act (CWA) of 1977, as amended; Executive Order 11990 of 1977, Protection of Wetlands; Coastal Zone Management Act of 1972, as amended; and the Estuary Protection Act of 1968 collectively provide protection to valuable natural resources such as wetlands. Generally, wetlands in the project areas consist primarily of freshwater forested/shrub wetlands and freshwater emergent wetlands located in the floodplains of rivers and their tributaries or along the riverside and landside toes of levees where hydrology is favorable. In many cases, as a result of flooding, water features, such as new channels, have been created on the floodplains where no such features previously occurred. These areas could be considered jurisdictional waters of the United States (water bodies that are regulated by the USACE under Section 404) and could therefore, be protected under the CWA. For each site-specific project, the National Wetlands Inventory (NWI) database was consulted to determine the type and location of wetlands that occur in the project area where the proposed Section 408 alteration might take place. It should be noted that these maps may no longer be accurate due to the habitat-shaping process associated with high water events. Thus, on-site investigations and delineations would be conducted in these areas to identify, map, and ensure protection of the resources that fall under protection of Section 404 of the CWA.

4.2.5 Threatened and Endangered Species

A description of the threatened and endangered species that regionally occur within the state of Montana was provided above in Section 4.1.6 of the Existing Conditions. The threatened and endangered species that may occur site-specifically near each civil works project are discussed individually below.

4.3 USACE Civil Works Projects in Montana (2 Projects)

4.3.1 Yellowstone River (2 Projects)

4.3.1.1 Forsyth Flood Control Project, Yellowstone River Basin, Forsyth, Montana

Location: The project is located on the right descending bank of the Yellowstone River in Forsyth, Rosebud County, Montana (Figure 17).

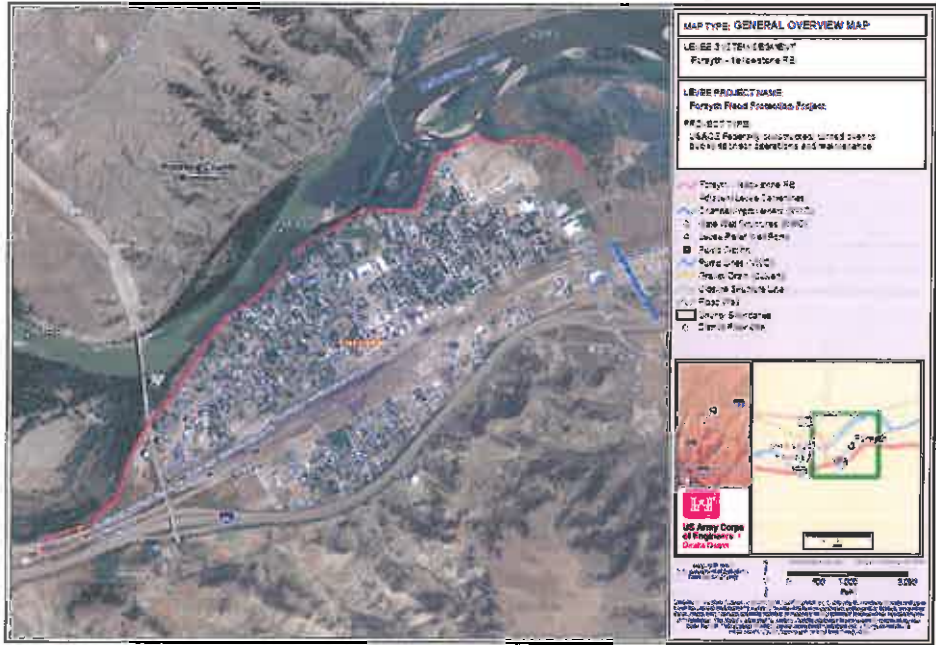


Figure 17. Forsyth - Yellowstone River Right Bank

Project Features: The Forsyth Flood Control Project consists of a rolled earthen levee, a concrete retaining wall and flood wall, sod, drainage structures, sluice gates, flap gates, a manual pedestal lift, painting, and sandbag enclosures (Figures 18 and 19).



Figure 18. Forsyth Levee (Blue Line) as seen from Oak Street and 1st Avenue West



Figure 19. Forsyth Levee (Blue Line) as seen from 15th Avenue

4.3.1.2 West Glendive Flood Control Project, Yellowstone River Basin West, Glendive, Montana

Location: The federal project is located on the left descending bank of the Yellowstone River in West Glendive. A non-federal levee is located on the right descending bank in Glendive, Dawson County, Montana (Figures 20 and 21).



Figure 20. West Glendive - Yellowstone River Left Bank



Figure 21. Glendive - Yellowstone River Right Bank (Non-federal levee)

Project Features: The West Glendive Flood Protection Project consists of a system of levees totaling 8,880 feet, a 1,100-foot long diversion channel, drainage structures, rock protection, sod, fencing, and crushed rock surfacing (Figures 22 and 23).



Figure 22. Typical View of the West Glendive Levee as seen from Highway 94



Figure 23. Typical View of the Non-Federal Glendive Levee as seen from Highway 335

Existing Conditions:

Water Quality: The beneficial uses of the Yellowstone River in the project area include aquatic life and agricultural use. These sections of the Yellowstone River are listed as a Category 4C waterbody, which designates the waterbody as being impaired by a non-pollutant. The cause of the impairment is a fish-passage barrier/dam. No development of a TMDL is required. These sections of the Yellowstone River also are designated as a Use Class B-3, which states the waterbody is suitable for drinking, culinary, and food-processing purposes after conventional treatment; for bathing, swimming, and recreation; for growth and propagation of non-salmonid fishes and associated aquatic life, waterfowl and furbearers; and for agricultural/industrial water supply.

Aquatic Species: Aquatic species in the Yellowstone River are numerous and include channel catfish, smallmouth and largemouth bass, sauger, arctic grayling, longnose sucker, mountain sucker, longnose dace, speckled dace, mountain whitefish, mottled sculpin, redbside shiner, cutthroat trout, rainbow trout, brown trout, lake trout, and lake chub.

Noise: Sources of noise include urban disturbances such as automobiles, construction, and industry.

Wetlands: The USFWS NWI Database revealed freshwater emergent wetlands along the two civil works projects.

Threatened and Endangered Species: Pallid sturgeon, black-footed ferret, and northern long-eared bat are known to occur in Rosebud County, Montana. Interior least tern, piping plover, whooping crane, pallid sturgeon and northern long-eared bat are known to occur in Dawson County, Montana. The Yellowstone River, with its shifting sandbars and big river features, makes it possible for pallid sturgeon, interior least tern, and piping plover to occur within close proximity to where proposed alterations would occur. Adjacent riparian habitats along these civil works project make it possible for northern long-eared bat to occur in close

proximity to where alterations would occur. Adjacent agricultural lands make it possible for whooping crane to occur in close proximity to where alterations would occur. The lack of prairie dogs and their burrows in the West Glendive project area makes black-footed ferrets unlikely to occur here.

4.3.2 Cherry Creek and Milk River (3 Projects)

4.3.2.1 Glasgow Flood Control Project, Milk River, Glasgow Montana

Location: The Glasgow Flood Control Project is located on the left descending bank of the Milk River and the left descending bank of Cherry Creek in Glasgow, Valley County, Montana (Figure 24).

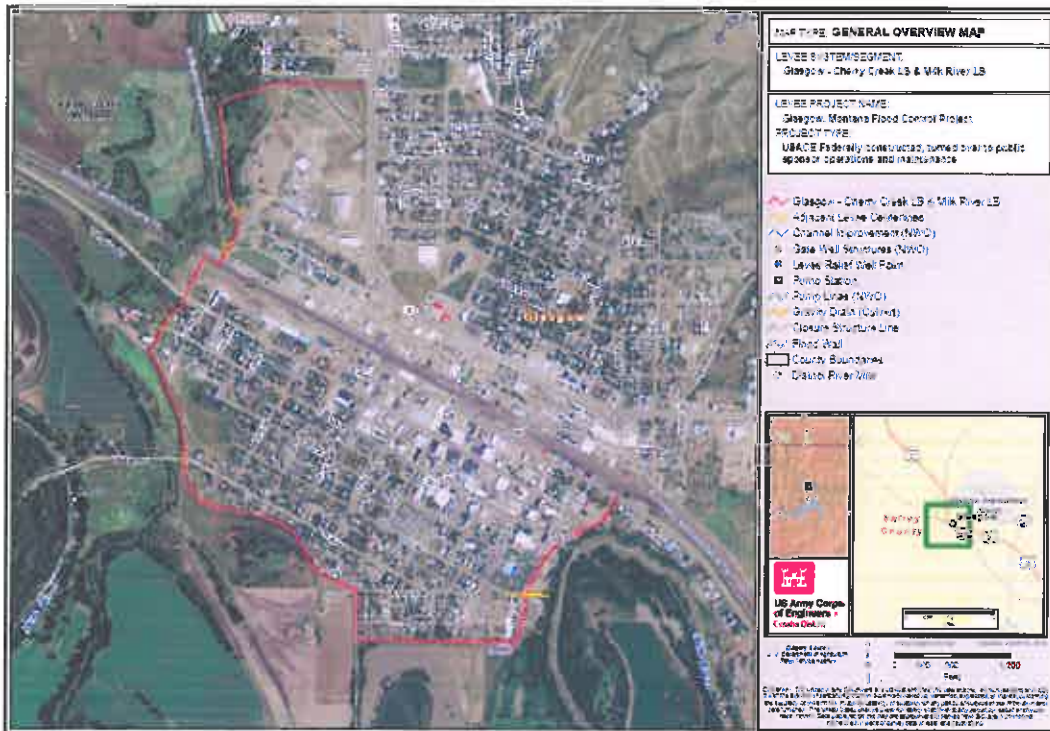


Figure 24. Glasgow - Cherry Creek Left Bank and Milk River Left Bank

Project Features: The Glasgow Flood Protection Project consists of a 12,325-foot long earthen levee, improved channels in the Cherry Creek and Milk River, road and street raises, sod, riprap, ramps and turnouts, bar gates and fencing, drainage structures, sluice gates and flap gates, and painting (Figure 25).



Figure 25. Typical Glasgow Levee Conditions as seen from 6th Avenue

4.3.2.2 Milk River Flood Protection Project, Malta, Montana

Location: The Milk River Flood Protection Project is located on the right descending bank of the Milk River in Malta, Phillips County, Montana (Figure 26).

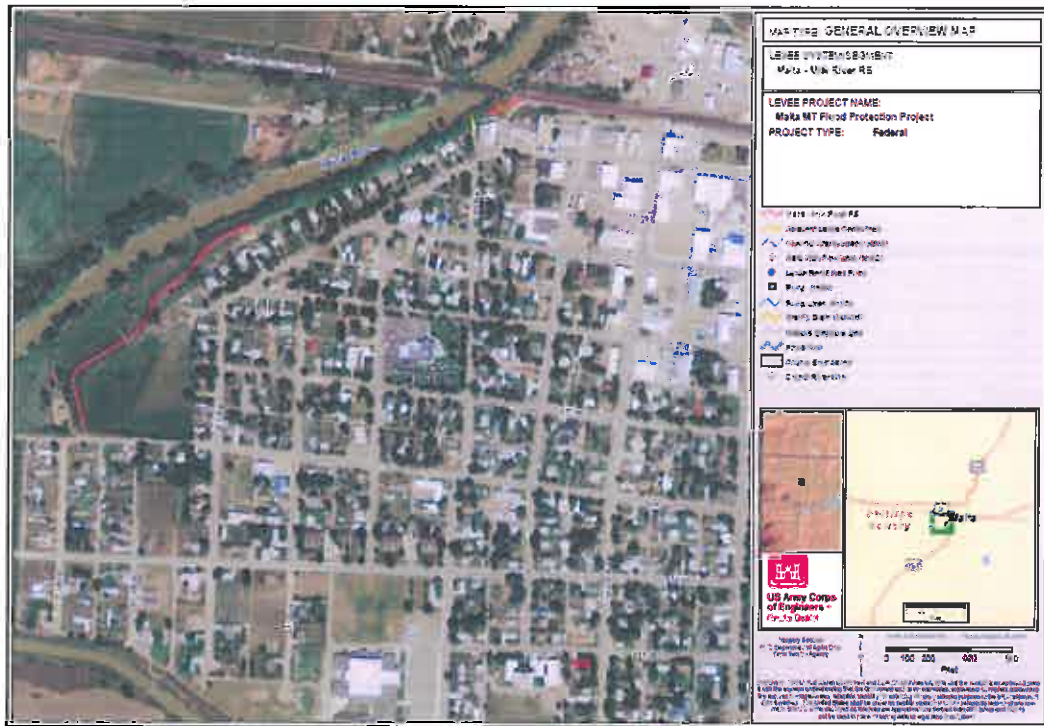


Figure 26. Malta - Milk River Right Bank

Project Features: The Milk River Flood Protection Project consists of 1,914 feet of earthen levee with crushed rock surfacing and sod banks, a 1,265-foot floodwall, drainage structures, a temporary closure structure, drainage ditches, ramps, and fencing and gates.

4.3.2.3 Milk River Havre Flood Protection Project Milk River Unit Montana 1980.

Location: This project is located north of Havre, in Hill County, Montana on both banks of the Milk River (Figures 27 and 28).

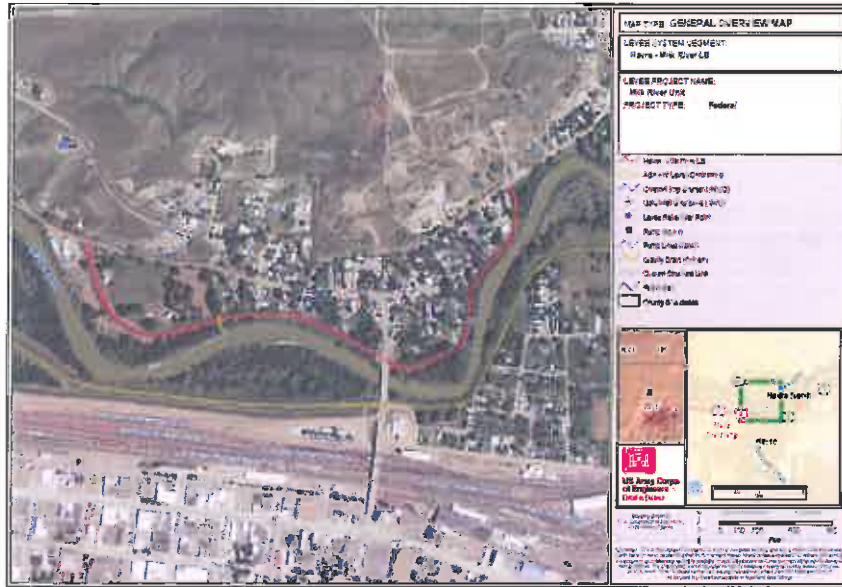


Figure 27. Havre - Milk River Left Bank



Figure 28. Havre - Milk River Right Bank

Project Features: This project consists of two earthen levees - one levee is one mile in length and the other is 2.9 miles in length. Features include sod and surfacing, 5,300 feet of rock riprap bank protection, two pumping stations, drainage structures, two sandbag closure structures, a channel cut-off, and several utility lines (sewer and gas) that pass through the levees (Figures 29, 30, and 31).



Figure 29. Havre Levee as seen from the 7th Avenue North Bridge (Left Bank)



Figure 30. Typical Milk River Conditions as seen from the 7th Avenue North Bridge



Figure 31. Havre Levee as seen from the 7th Avenue North Bridge (Right Bank)

Existing Conditions:

Water Quality: The beneficial uses of the Milk River in the project areas include agricultural use, drinking water, and recreation. These sections of the Milk River are listed as a Category 5 waterbody, which designates the waterbody as having one or more applicable beneficial uses that are impaired or threatened, and a TMDL is required to address the factors causing the impairment or threat. The causes of the impairment are due to *E. coli* (from agriculture activities), lead (from a dam or impoundment), and mercury (from an unknown source). These sections of the Milk River also are designated as a Use Class B-3, which states the waterbody is suitable for drinking, culinary, and food-processing purposes after conventional treatment; for bathing, swimming, and recreation; for growth and propagation of non-salmonid fishes and associated aquatic life, waterfowl and furbearers; and for agricultural/industrial water supply. Cherry Creek was not listed in Montana's Final Water Quality Integrated Report. No information for Cherry Creek is available.

Aquatic Species: Aquatic species in the Milk River include smallmouth bass, catfish, sturgeon, walleye, sauger, yellow perch, western silvery minnow, sculpin, brassy minnow, mountain whitefish, and northern pike.

Noise: Sources of noise include urban and rural disturbances such as automobile traffic, construction, industry, farm machinery, and natural sounds.

Wetlands: The USFWS NWI Database revealed only one emergent wetland along the civil works project in Glasgow, Montana although others are expected along the toe of the civil works project due to favorable hydrology. The NWI Database did not reveal wetlands along the other two civil works projects (Malta and Havre) although wetlands likely occur at the toe of these facilities due to favorable hydrology.

Threatened and Endangered Species: Interior least tern, piping plover, Rufa red knot, whooping crane, pallid sturgeon, black-footed ferret and northern long-eared bat are known to occur in Valley County, Montana. Interior least tern, piping plover, Rufa red knot, whooping crane, pallid sturgeon, and black-footed ferret are known to occur in Phillips County, Montana. The Black-footed ferret is the only listed species known to occur in Hill County, Montana. Due to the lack of big river features (diverse velocities and shifting sand bars) in the Milk River and Cherry Creek, interior least tern, piping plover, and pallid sturgeon are not found in association with these civil works projects. Agricultural lands in close proximity to these civil works projects could provide resting and loafing areas for whooping crane and Rufa red knot. Dense riparian areas in close proximity to these civil works projects could provide northern long-eared bats with roosting areas. The lack of prairie dogs and their burrows in this area makes black-footed ferrets unlikely to occur here.

4.3.3 Sun River (2 Projects)

4.3.3.1 Great Falls, Montana Flood Protection Project

Location: The project is located on the left descending bank of the Sun River in west Great Falls, Cascade County, Montana (Figure 32).

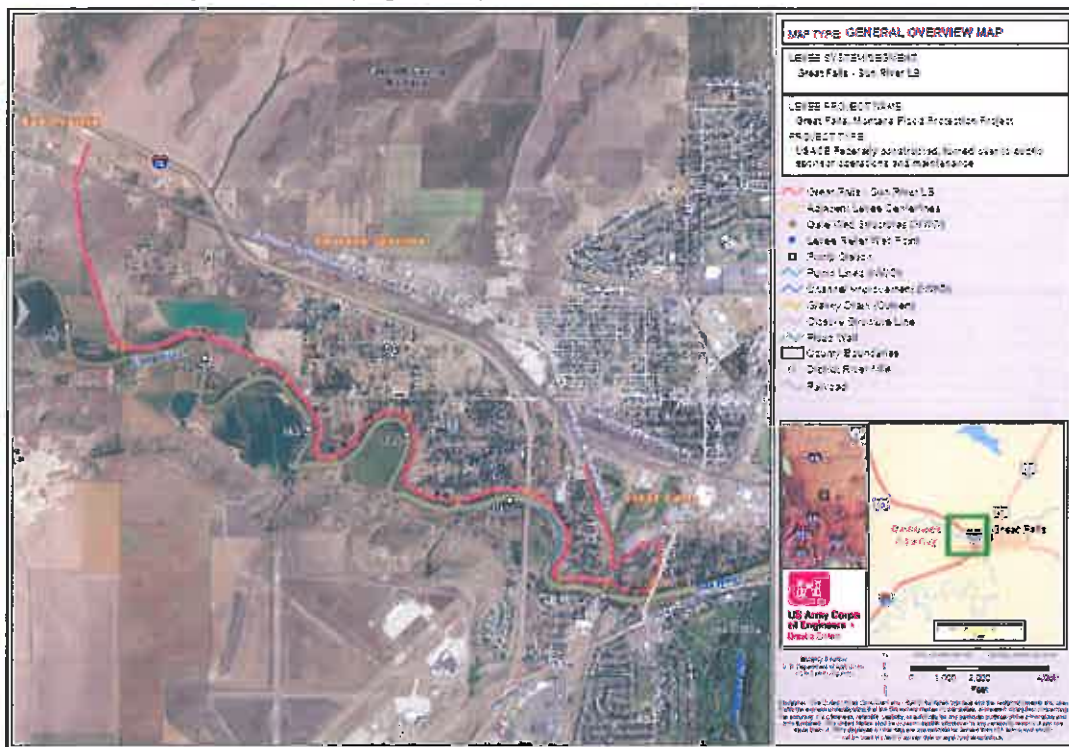


Figure 32. Great Falls - Sun River Left Bank

Project Features: The Great Falls Flood Protection Project consists of a 29,100-foot long levee, a 2,850-foot long tie-back levee, drainage conduits, a collector ditch and interceptor

embankment, a relocated channel, bank protection (sod and riprap), sandbag closures, bar gates and fencing, levee surfacing, and drainage structures (Figures 33 and 34).



Figure 33. Great Falls Levee along the Sun River as seen from the Interstate 15 Bridge



Figure 34. The Great Falls Levee as seen from Central Avenue West

4.3.3.2 Vaughn, Montana Flood Control Project Sun River

Location: The project is located on the left descending bank of the Sun River and extends up the right descending bank of Muddy Creek in Vaughn, Cascade County, Montana. The majority of the levee is flanked on both sides by agricultural land (Figure 35).

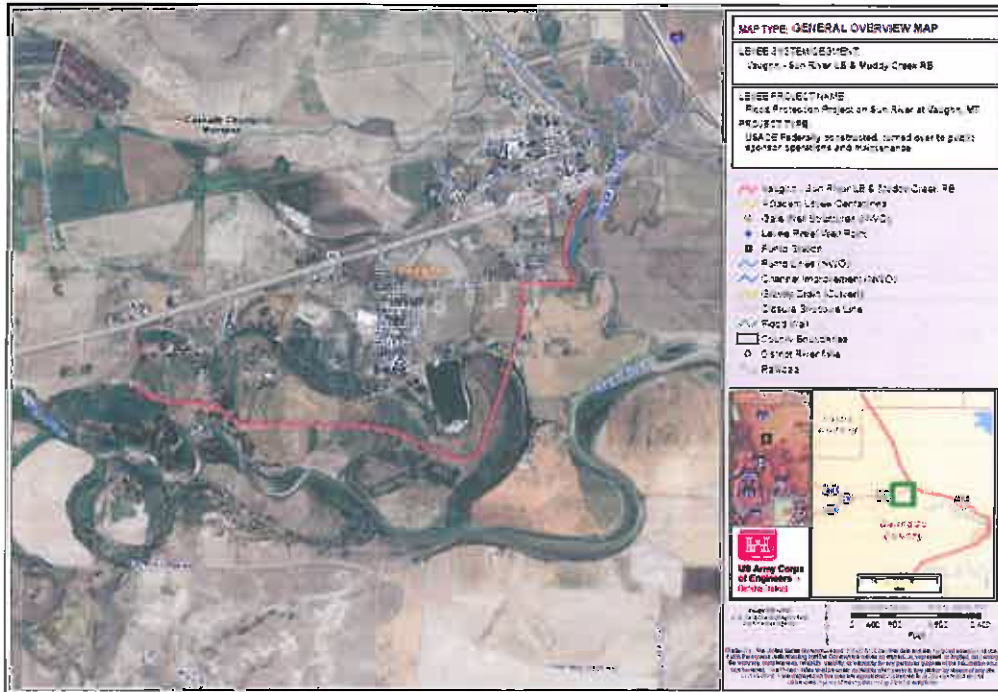


Figure 35. Vaughn - Sun River Left Bank and Muddy Creek Right Bank

Project Features: The Vaughn Flood Control Project consists of a 13,100-foot long earthen levee, sod, raised roads, drainage and irrigation structures, minor channel improvements, rock protection, fencing and bar gates, and levee surfacing (Figures 36 and 37).



Figure 36. Vaughn Levee as seen from U.S. Highway 89



Figure 37. The Sun River as seen from U.S. Highway 89

Existing Conditions:

Water Quality: The beneficial uses of the Sun River include aquatic life, agricultural use, drinking water, and recreation. This section of the Sun River is listed as a Category 4A waterbody, which designates the waterbody as having TMDLs in place to address all identified threats or impairments. Causes of impairments for which TMDLs have been completed include total nitrogen (from agricultural activities), flow regime alterations (from channelization), total phosphorus (from irrigated crop production), and sedimentation/siltation/total suspended solids (from rangeland grazing). This section of the Sun River also is designated as a Use Class B-3, which states the waterbody is suitable for drinking, culinary, and food-processing purposes after conventional treatment; for bathing, swimming, and recreation; for growth and propagation of non-salmonid fishes and associated aquatic life, waterfowl and furbearers; and for agricultural/industrial water supply.

The beneficial uses of Muddy Creek include aquatic life, agricultural use, drinking water, and recreation. This section of Muddy Creek is listed as a Category 4A waterbody, which designates the waterbody as having TMDLs in place to address all identified threats or impairments. Causes of impairments for which TMDLs have been completed include total nitrogen (from agricultural activities), total phosphorus (from channel erosion), salinity (from habitat modifications), sedimentation/siltation, selenium, sulfates, increased water temperature, and total dissolved solids (from streambank modification and destabilization). This section of Muddy Creek also is designated as a Use Class I, which states the goal of the waterbody is to fully support the following uses: drinking, culinary, and food processing purposes after conventional treatment; bathing, swimming, and recreation; growth and propagation of fishes and associated aquatic life, waterfowl and furbearers; and agricultural/industrial water supply.

Aquatic Species: Aquatic species in the Sun River have been diminished although it does include rainbow trout, cutthroat trout, brook trout, and brown trout. Muddy Creek is virtually uninhabitable by trout because of extremely high silt levels.

Noise: Sources of noise include urban and rural disturbances such as automobile traffic, construction, industry, farm machinery, and natural sounds.

Wetlands: The USFWS NWI Database revealed no wetlands along these civil works projects as the areas are continually disturbed by agricultural practices. It is likely, however, that farmed wetlands occur within the areas due to favorable hydrology at the toes of the civil works projects.

Threatened and Endangered Species: Rufa Red knot, pallid sturgeon, Grizzly bear, and Canada lynx are known to occur in Cascade County, Montana. Due to the lack of big river features (diverse velocities and shifting sand bars) in the Sun River and Muddy Creek, pallid sturgeon are not found in association with these civil works projects. Adjacent agricultural lands may provide resting habitat for Rufa red knot. The on-going agricultural practices and continued human presence would prohibit use of these areas for grizzly bear and Canada lynx.

4.3.4 Beaver Creek

Name: Saco Flood Control Project, Milk River, Saco, Montana

Location: The project is located on the left descending bank of Beaver Creek, Phillips County, Montana (Figure 38).

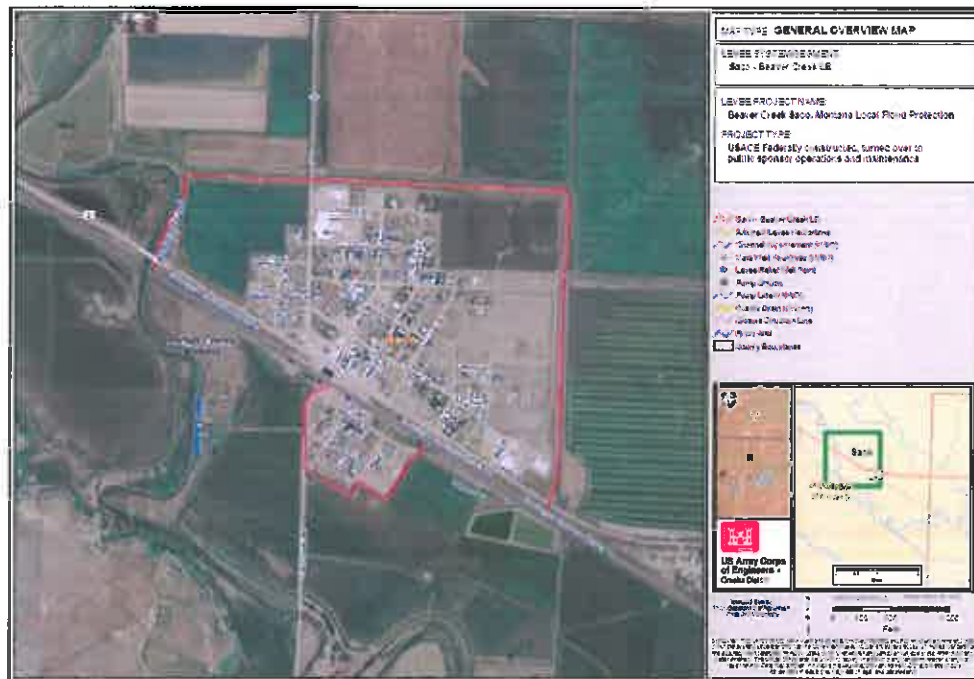


Figure 38. Saco - Beaver Creek Left Bank

Project Features: The project consists of a system of earthen levees that operate in conjunction with the railroad embankment and encompass the town. The north levee is 1,065 feet long, runs east for 4,695 feet, and meets with the south levee that is 3,140 feet long. Other features include ramps, access roads, and turnouts; sod; channel improvements; inlet and outlet ditches; drainage structures pipes; mechanical equipment; and gates and fencing.



Figure 39. Saco Levee adjacent to Beaver Creek as seen from the U.S. Route 2 Bridge

Existing Conditions:

Water Quality: The beneficial uses of Beaver Creek in the project area include aquatic life, agricultural use, drinking water, and recreation. This section of Beaver Creek is listed as a Category 5 waterbody, which designates the waterbody as having one or more applicable beneficial uses impaired or threatened, and a TMDL required to address the factors causing the impairment or threat. The causes of the impairment are due to iron (from channelization), lead (from natural sources), mercury (from unknown sources), and flow regime alterations that result in sedimentation, siltation, and increased water temperature. This section of Beaver Creek also is designated as a Use Class B-1, which states the waterbody is suitable for drinking, culinary, and food-processing purposes after conventional treatment; for bathing, swimming, and recreation; for growth and propagation of salmonid fishes and associated aquatic life, waterfowl and furbearers; and for agricultural/industrial water supply.

Aquatic Species: Aquatic species in Beaver Creek include smallmouth bass, catfish, sturgeon, walleye, sauger, yellow perch, sculpin, and northern pike.

Noise: Sources of noise include rural disturbances such as light automobile traffic, farm machinery, and natural sounds.

Wetlands: The USFWS NWI Database revealed scattered freshwater emergent wetlands along the civil works project in Saco, Montana.

Threatened and Endangered Species: Interior least tern, piping plover, Rufa red knot, whooping crane, pallid sturgeon, and black-footed ferret are known to occur in Phillips County, Montana. Due to the lack of big river features (diverse velocities and shifting sand bars) in Beaver Creek, interior least tern, piping plover, and pallid sturgeon are not found in association with this civil works project. Agricultural lands in close proximity to this civil works project could afford limited resting and loafing areas for whooping crane and Rufa red knot. Lack of riparian areas in proximity to this civil works project likely limits northern long-eared bat roosting areas. The lack of prairie dogs and their burrows in this area make black-footed ferrets unlikely to occur here.

5. Environmental Consequences

This chapter presents the environmental effects of the No Action Alternative (Alternative 1) and the Preferred Alternative (Alternative 2). The impact analysis contained within this Programmatic EA was developed based on past experience. Past experience showed that the environmental analysis on these types of projects had environmental impacts that were minor to negligible. Upon approval of this Programmatic EA, all future Section 408 requests will undergo an initial review to ensure compliance with applicable laws and that the proposed alteration fits within the scope of the Programmatic EA. If it is determined that the proposed request to alter a USACE civil works project would result in impacts greater than minor to negligible as described in this EA, a stand-alone EA or EIS would be prepared for that request. Examples of instances where a proposed Section 408 alteration request would result in impacts greater than minor or negligible to the environment and, subsequently require a stand-alone EA or EIS would include:

1. Any proposed alteration that may adversely affect any threatened or endangered species in accordance with the Endangered Species Act.
2. Any proposed alteration that would result in the 'take' of migratory birds as defined in the Migratory Bird Treaty Act.
3. Any proposed alteration that would result in the transfer of any invasive species to new locations.
4. Any proposed alteration that would require an individual Clean Water Act Section 404 permit.
5. Any proposed alteration that would exceed state water quality standards.
6. Any proposed alteration that would encourage additional development within the floodplain.

7. Any proposed alteration that may adversely affect any cultural resources or not be in compliance with Section 106 of the National Historic Preservation Act.

8. Any proposed alteration that would have more than negligible to minor vegetative impacts to grasslands or treed areas.

9. Any proposed alteration that would result in any impacts to federal mitigation areas and/or lands specified as ecosystem restoration areas.

10. Any proposed alteration that does not use Horizontal Directional Drilling (HDD), Jack and Bore and/or overhead utility construction when crossing a wetland or other Waters of the U.S.

11. Any proposed alteration that requires off-site tree clearing activities that have a connected use to the civil works project and does not complete the clearing within the winter months when neither nesting migratory birds nor listed bats are in the area.

This section presents the effects of each of the alternatives on the existing resource. Impacts are quantified whenever possible.

“Significance” has been analyzed in this document in terms of both context (sensitivity) and intensity (magnitude and duration):

- Magnitude
 - a. No Impact – there is no effect to the resource.
 - b. Negligible – there is no discernible impact to the resource in the project area, but the resource is likely affected due to human presence.
 - c. Minor – there are noticeable impacts to the resource in the project area, but the resource is still mostly functional.
- Duration
 - a. Short term – temporary effects caused by the construction and/or implementation of a selected alternative. Note: Because this Programmatic EA identifies those Section 408 alterations that can be categorically permitted, there are no instances in which the duration of the impact would be long term as a long-term impact could be deemed more than minor.

5.1 Alternative 1 - No Action

Under the No-Action Alternative, Section 408 categorical permissions would not be developed. All requests to alter USACE projects would continue to be evaluated on a case-by-case basis with the preparation of an individual EA or EIS to determine if the alteration would be injurious to the public interest or impair the usefulness of the USACE project.

5.2 Alternative 2 - Utilize a List of Categorical Permissions to Expedite the Section 408 Review and Approval Process (Preferred Alternative)

Under Alternative 2, the list of categorical permissions identified in this Programmatic EA would be adopted and a streamlined review and approval process would be conducted.

5.2.1 Detailed Description of Environmental Impacts Associated with Construction of the Categorical Permissions

5.2.1.1 Noise

Construction of some of the categorical permissions could be accomplished with a small work crew and the use of hand tools. In those instances, no discernible noise would be generated. However, in other cases, proposed alterations would require the use of heavy construction equipment. The operation of heavy construction equipment would result in a discernible increase in noise at the project sites. The noise may cause wildlife species to leave or avoid the area. To avoid or minimize construction-related noise impacts on sensitive wildlife species, preconstruction surveys may be required to determine if sensitive species are located in the vicinity of the proposed alteration, at staging areas, or within borrow areas. Coordination with the USFWS would be implemented if sensitive species are identified and a determination is made that construction-related noise could affect the sensitive species. Measures recommended by the USFWS to minimize noise impacts to sensitive species may then be required, and could include establishing an appropriate buffer area around the identified species' location, enforcing temporal restrictions on construction activities, and/or establishing access restrictions on construction personnel and vehicles.

Additionally, noise from the operation of construction equipment could create a disturbance that disrupts individuals engaged in recreational activities or those participating in day-to-day activities in noise-sensitive areas (hospitals, churches, residences). Construction-related noise could reduce the recreational enjoyment of individuals by diminishing the peaceful atmosphere that nature provides or by scaring fish and wildlife away from the area where the recreationalist might be fishing, hunting, or wildlife viewing. Construction-related noise also could irritate individuals in noise-sensitive areas by interfering with their resting, worshipping, and normal day-to-day activities. To reduce construction-related noise, Best Management Practices (BMPs) would be implemented. BMPs would include avoiding idling heavy construction equipment when not immediately needed to reduce noise during the daylight hours, and not operating heavy construction equipment during the hours between sunset and sunrise to limit noise when most individuals are resting. Upon completion of the construction, noise would cease and thus no long-term impacts are anticipated.

Overall, the construction-related noise from implementation of categorically permitted alterations would be considered minor and short-term. Construction-related activities would be conducted only during daylight hours when other noise-generating activities regularly occur (traffic, agricultural practices, and airplanes) and, thus, it would blend into other normal daytime

sounds. Not idling construction equipment and implementing measures recommended by the USFWS would help minimize noise impacts on the surrounding environment. Fish and wildlife displaced from the area during construction could return to the area once construction is completed as no long-term noise is anticipated. Based on the above analysis, noise generated during the proposed categorically permitted Section 408 alterations would not be considered significant.

5.2.1.2 Air Quality

The operation of construction equipment would result in slight and temporary increases in particulate matter in the immediate area of where the construction equipment was operating. The increase in particulate matter would stem from equipment exhaust and dust generated from the movement of the construction equipment. Best Management Practices, such as avoiding idling construction equipment when not immediately needed and wetting or otherwise preparing the construction site prior to and during construction activities, would be implemented to reduce dust and adverse air quality impacts. The construction-related increases in particulate matter would cease upon completion of the proposed alteration and no long-term adverse air quality impacts would occur. As such, with the implementation of BMPs, the minor input of particulate matter to the environment generated during construction of the categorically permitted Section 408 alterations would not be considered significant as no NAAQS for criteria pollutants would be exceeded.

5.2.1.3 Water Quality

Construction of some categorically permitted alterations could impact water quality by increasing sediment loads in waterways adjacent to where construction is occurring. Increased sediment impacts water quality by increasing turbidity. Turbidity can reduce the aesthetic quality of a waterbody by making the water appear cloudy or murky and, thereby impact recreation. Turbidity can harm fish and other aquatic species by reducing food supplies, degrading spawning beds, and affecting gill function. Turbidity also can reduce sunlight penetration in the water, which reduces photosynthesis of aquatic plants, and in turn reduces the amount of dissolved oxygen in the aquatic environment. Sediment absorbs heat, so turbidity can raise the surface water temperature and impact species accustomed to colder water environments. Sediments can add nutrients such as nitrogen and phosphorus to the water and cause unexpected algae growth. When the algae die and decompose, dissolved oxygen is used, which adversely impacts dissolved oxygen uptake by aquatic species. Alterations that require earth-moving activities such as shaping and grading levee slopes and placing rock riprap are examples of how sediment can enter the waterway and increase turbidity. Eroding soil from bare construction sites is another way sediments could reach the adjacent waters. To minimize water quality impacts caused by increased sediments, BMPs such as using hay bales and silt fences would be employed around the construction site to minimize sediment movement from bare areas and during earth-moving operations. Following construction, all bare areas not otherwise hard-surfaced, would be planted with native vegetation to help hold sediments in place.

Gas, oil, and other fluids leaking from ill-maintained construction equipment are examples of pollutants that may enter the waterway and impact water quality. Construction fluids can enter the waterways in two ways: directly from dripping machinery or indirectly if spilled on the ground and carried to the waterway by overland storm flows. Petroleum products do not dissolve in water and can stick to everything from sediments to wildlife. Petroleum products are toxic to wildlife and plants and if introduced to the aquatic environment, can cause death. To minimize water quality impacts caused by gas, oil, and other fluids, BMPs such as ensuring construction equipment used on site is properly maintained to prevent leakage and is power-washed with at least 140 degree water at an approved wash site to remove grease, oil, and noxious plant and animal species and parts before entering the proposed construction site.

Additionally, the construction representative would ensure that he/she complies with requirements related to stormwater discharges from construction activities. This would include obtaining a National Pollutant Discharge Elimination System (NPDES) permit if more than one acre of ground would be disturbed as part of the overall project and preparing a stormwater pollution prevention plan. The construction representative also would be required to obtain a CWA Section 401 Water Quality Certification to ensure that no state water quality standards would be exceeded. These conditions, when implemented, would greatly limit the amount of sediment and pollutants that could enter area waterways. Activities that meet the conditions of the identified BMPs, requirements, and permits do not usually result in more than minor impacts to water quality because the potential contaminants are removed from the site prior to entrance, contained on site, and/or have minimal exposure to the waterway. As such, any minor input of pollutants would not significantly impact water quality or result in significant impacts to related uses such as aquatic life, recreation, agricultural water supply, aesthetics, public drinking water, or industrial water supply.

5.2.1.4 Wetlands

Construction of categorical permissions would employ horizontal directional drilling, jack and bore, or overhead utility construction as first choices when encountering wetlands. These actions would result in no impact to wetlands as the activities would avoid the wetlands by traversing under or over them. However, in the event that open cutting is used, construction equipment could inadvertently introduce fill into the wetland or impact the clay lining that retains water within the wetland during the construction activity. If fill is introduced into a wetland or the clay lining is impacted, the wetland's ability to function normally could be impacted. Thus, when open-cutting is proposed, NWO would ensure that any impacts to the wetlands from construction activities are kept to a minimum and fall within the limits of a Nationwide or Regional General Permit. Since it has been determined that Nationwide and Regional General Permits have minimal individual and cumulative adverse effects, the proposed method would not result in significant adverse impacts to wetlands. If impacts do not fall within the scope of a Nationwide or Regional General Permit, then a supplemental or stand-alone NEPA document would be required.

In some instances, bore pits may need to be constructed off of USACE civil works boundaries in order to provide appropriate space to conduct the horizontal directional drilling. In these instances, an assessment of that area would occur to ensure that bore pit construction would have no adverse impacts to wetlands above that allowed under a Nationwide or Regional General Permit. If it can be demonstrated that no impacts to wetlands occur from the offsite bore pit construction, or the offsite bore pit construction would result in impacts that fall within the limits of a Nationwide or Regional General Permit, the proposed alteration would fall within the guidelines of a categorical permission and the impacts would not be considered significant.

5.2.1.5 Terrestrial Vegetation

The vegetation that covers civil works project areas consists of either non-native species (fescue, brome or rye grasses) that are regularly maintained (mowed) or native grass species that are left in a more natural state. On levees, which are designed to hold back water, non-native species (i.e., brome grass) that are regularly maintained are preferred in order to provide uniformity along the course of the levee to allow levee inspectors to easily determine if any deficiencies are present. The regular maintenance of vegetation also keeps trees from growing on the levee so that their roots do not have an opportunity to destroy the integrity of the levee. Seepage berms, which are constructed landside of the levee, are not designed to hold back water but rather designed to provide weight behind the levee to help control under-seepage flows and keep those flows from ‘boiling up’ near the toe of the levee. Because seepage berms do not require the same level of inspection or performance as levees, native grasses are sometimes planted on these features and left in a natural state to provide habitat for wildlife.

During construction of categorically permitted Section 408 alterations, vegetation may need to be cleared or grubbed to provide a workable surface area for construction of the alteration; to provide staging areas for construction equipment, supplies, and/or vehicles; or to provide areas for bore pit construction when horizontal directional drilling is proposed. To ensure that alterations do not result in more than negligible to minor impacts on vegetation, any degradation to terrestrial vegetation shall be repaired to its pre-construction condition. Thus, following construction, any disturbed area not otherwise hard-surfaced would be replanted with vegetation that existed prior to the disturbance unless the disturbed area contained weedy species. In cases where weedy species were impacted, native vegetation or non-native grasses would be replanted depending upon the location of the disturbed area (i.e., on levees non-native grasses would be planted, on seepage berms native vegetation would be used). As such, no significant impacts to vegetation are anticipated.

When lands outside of the civil works boundaries are needed to construct categorically permitted alterations, they are considered ‘linked’ to the categorical permission. For linked areas (other than agricultural or urban areas) where vegetation, especially trees, would need to be cleared or grubbed, a pre-construction survey would need to be conducted prior to the disturbance. To determine the significance of the disturbance, results of the pre-construction survey would need to be shared with the USFWS to determine if listed species would be adversely affected. Depending on the outcome, a separate EA or EIS may need to be prepared.

5.2.1.6 Fish and Wildlife

The operation of heavy construction equipment and/or the presence of construction crews may adversely impact fish and wildlife. Adverse impacts to fish and wildlife could result from vibrations in the ground and water caused by the operation of the heavy equipment, noise from the operation of the heavy equipment, and/or visual disturbances caused by the motion of the heavy equipment and/or work crews. These impacts would be short-term and occur only during the construction period. Once construction was completed, ambient conditions would return, thus, these impacts are not considered significant.

Water quality impacts to fish and wildlife could result during construction. The potential for localized increases in turbidity from construction-related activities could interfere with the feeding, breeding, or sheltering activities of many species. However, because most rivers and streams in Montana are located in areas that consist of easily erodible soils, short-term increases in turbidity occur naturally in these drainages during storm events. Because of this, most of the native fish and wildlife species within the region are tolerant of short-term increases in turbidity; therefore, impacts are not considered significant.

Because USACE project areas have been heavily disturbed in the past from previous construction of the projects and continue to be disturbed on a continuous basis from operation and maintenance activities, they are not known to contain any unique habitat for wildlife that is not available in other nearby locations. It is expected that fish and wildlife that associate with the USACE civil works project areas would simply move to other habitat in nearby locations during construction activities. Thus, the construction-related impacts to fish and wildlife would be considered minor and not significant. Following construction, any disturbed areas not otherwise hard-surfaced (e.g., rip rapped banks), would be re-planted with vegetation that existed prior to the construction activity unless it was weeds or other noxious vegetation that was removed. In these instances, native vegetation or brome grasses would be planted depending on where the revegetation was to occur (i.e. seepage berms vs. levee banks). Thus, the impact to fish and wildlife from construction activities that temporarily impact vegetation would be considered short term and not significant.

In order to avoid impacts to fish and wildlife during borrow operations, any borrow material that may be needed for repairs would need to be obtained from commercial sources or agricultural lands. Similarly, any excess soil material removed from the proposed project site would need to be spoiled in commercial areas or in agricultural lands. Borrow/spoil operations that use commercial or agricultural sites have been determined to be non-significant in past environmental assessments conducted by the NWO. If, however, borrow material would be obtained from or spoiled at locations other than commercial sources or agricultural lands, a separate EA or EIS may need to be prepared.

5.2.1.7 Migratory Birds

Although the provisions of the Migratory Bird Treaty Act (MBTA) are applicable year-round, most migratory bird nesting activity within Montana typically ranges between April 15 through

July 15 for passerines (song birds) and February 1 to July 31 for raptors. During this period, trees and grasslands with nests containing eggs, young, or adult birds engaged in nesting activities are considered active and shall be avoided. It should be noted here that some migratory birds nest outside of the periods identified above.

Construction of categorically permitted alterations has the potential to disturb nesting migratory birds. Noise and ground vibrations from construction equipment, visual movement of construction equipment and/or work crews, and/or the removal of trees or grasses containing active nests could interfere with migratory bird nesting.

To minimize impacts to nesting migratory birds, grass and tree clearing would be scheduled to occur within the winter months when migratory birds are not present. If clearing of grasses and trees is proposed to occur during the primary nesting season or at any other time that may result in the 'take' of nesting migratory birds, a qualified biologist would need to conduct a pre-construction field survey of the affected habitats to determine the presence or absence of nesting migratory birds. If nesting migratory birds are present, no grass or tree clearing would occur until the young birds have left the nest. If no nesting migratory birds are present, the proposed clearing of grass and trees may proceed as planned. In the event that pre-construction surveys have been conducted, no migratory bird nesting activities have been discovered, construction has begun, and an occupied nest of a species protected by the MBTA is then observed, construction would be stopped and consultation with the USFWS initiated to ensure compliance with the MBTA. Construction would not re-start until consultation has been completed and the possibility of impacting nesting migratory birds has passed. With implementation of these minimization and avoidance measures, the potential adverse impacts associated with the categorically permitted alterations would not be considered significant on migratory birds.

5.2.1.8 Bald and Golden Eagles

The bald eagle has been de-listed from the Endangered Species Act, but continues to be protected under the Bald and Golden Eagle Protection Act (BGEPA), the MBTA, and the Lacey Act -16 U.S.C. § 701, May 25, 1900. The BGEPA prohibits anyone, without a permit issued by the Secretary of the Interior, from "taking" bald eagles, including their parts, nests, or eggs. The Act defines "take" as "pursue, shoot, shoot at, poison, wound, kill, capture, trap, collect, molest or disturb." This definition also includes impacts that result from human-induced alterations initiated around a previously used nest site during a time when eagles are not present; if, upon the eagle's return, such alterations agitate or bother an eagle to a degree that interferes with or interrupts normal breeding, feeding, or sheltering habits, and causes injury, death or nest abandonment.

Because large trees that are used by eagles are not allowed to grow on USACE flood damage reduction projects, it is likely eagles would not be encountered on the proposed project sites. However, eagles in active nests in the "line-of-sight" of the proposed alteration could be disturbed by the noise and movement of construction equipment and construction personnel.

Thus, eagle nest surveys may be required prior to the initiation of construction in order to determine eagle presence/absence, particularly if construction is slated to occur during February 1 to July 31.

To avoid construction-related disturbances to any nesting bald eagles and their young, USFWS guidelines would be followed. These guidelines include maintaining a buffer zone of at least 660 feet between the project and any active nest, or restricting construction to the August through late-December time frame when bald eagles are not nesting. The size and shape of effective buffers may vary depending on the topography and other ecological characteristics surrounding the nest site and would be established following any eagle survey if necessary. The variations in buffer zones serve to minimize visual and auditory impacts associated with human activities near nest sites.

All eagle nest surveys shall be conducted by a qualified biologist if the proposed alterations are to take place within the active nesting season of bald eagles. A stand-alone NEPA document may need to be prepared if nesting eagles are identified in the proposed project area and the proposed minimization measures would prove to be ineffective. However, if no eagles are discovered, the alterations may proceed. With implementation of the eagle minimization and avoidance measures, the adverse construction-related impacts associated with the categorically permitted alterations would not be considered significant on nesting eagles.

5.2.1.9 Threatened and Endangered Species

With the majority of the civil works projects being located in areas where human-induced disturbances occur on a continual basis, the likelihood of encountering an endangered or threatened species is minor. However, for the civil works projects located in more remote areas that experience less human-induced disturbances, the likelihood of encountering endangered or threatened species increases.

Impacts to endangered and threatened species in the more remote areas would generally result from construction-related noise and human presence during construction. Noise and human presence could cause disruptions to the normal behavioral activities of the endangered or threatened species. Causing species to leave their nesting sites, interrupting their feeding activities, and/or causing species to avoid the area are some examples of disrupting normal behavioral activities. When an effect to listed species is anticipated, an effect determination must be made and coordination with the USFWS conducted. As such, this Programmatic EA also acts as a Biological Assessment for Endangered Species Act compliance.

5.2.1.9.1 No Effect Determinations.

Black-footed ferret prefer locations near prairie dog towns, which do not occur in project areas where the categorical permissions would be conducted. As such, the categorical permissions would have no effect on black-footed ferret.

Canada Lynx prefer moist boreal forests that have cold, snowy winters and a high-density snowshoe hare prey base. These requirements do not occur at or adjacent to the civil works project in Montana. As such, the categorical permissions would have no effect on Canada lynx.

Grizzly bear prefer large tracts of undisturbed habitat in riparian areas along rivers and streams with minimal human presence. These requirements do not occur at or adjacent to the civil works project in Montana. As such, the categorical permissions would have no effect on grizzly bear.

5.2.1.9.2 May Affect, but Not Likely to Adversely Affect Determinations.

For species with a “may affect, but not likely to adversely affect” determination, the USACE would consult with the USFWS on a case-by-case basis prior to construction of any categorically permitted alteration to ensure the effect determinations made here remain valid. Consultation with the USFWS would be triggered during review of individual categorically permitted alterations as noted in the attached Record of Environmental Consideration (Appendix B). Consultation with the USFWS would ensure compliance with the Endangered Species Act.

Whooping cranes may be found migrating through the project areas, feeding along banks and sandbars of rivers, or resting in agricultural fields adjacent to the civil works projects described in this Programmatic EA. Migrations occur during two times of the year: April to May and September to November. If alterations are occurring at the project sites when this species is present, construction-related noise and human presence could interrupt the migration, feeding, resting, or sheltering activities of this species. Thus, the categorically permitted alterations may affect whooping cranes. The following conservation measure is proposed to avoid potential adverse effects.

Whooping Crane Conservation Measure: To avoid potential adverse effects to whooping cranes, work would be scheduled outside of the migration season to the extent possible. However, if work must be scheduled during their migration seasons, surveys would be conducted each morning prior to the start of construction to determine presence or absence of whooping cranes in the project vicinity. If whooping cranes are sighted, no work would be conducted until the birds have vacated the area. If no whooping cranes are sighted, construction may proceed as planned.

Interior least terns may be found feeding or nesting on barren to sparsely vegetated sandbars along rivers, at sand and gravel pits, or on lake shorelines adjacent to the civil works projects described in this Programmatic EA. Nesting for this species occurs from late April through August. If categorically permitted alterations are proposed to occur when this species is in close proximity to the proposed project site (close proximity is considered 2,640 feet as stated in the *2011 USACE Emergent Sandbar Habitat Programmatic Environmental Impact Statement*), construction-related noise and human presence could interfere with the feeding, breeding, or sheltering of this species. Thus, the categorically permitted alterations may affect interior least terns. The following conservation measure is proposed to avoid potential adverse effects.

Interior Least Tern Conservation Measure: Should construction of any categorically permitted alteration be proposed during the April through August time frame and in counties containing this species, a pre-construction survey would be conducted. If the species is identified feeding or initiating nesting activities, no work would be conducted until the species has vacated the area. If no interior least terns are spotted, the proposed action may proceed as planned.

Piping plovers may be found feeding or nesting near wetlands, along lakeshores, or along sandbars adjacent to civil works projects. Nesting for this species occurs from late April through August. If categorically permitted alterations are proposed to occur at a project site when this species is in close proximity (close proximity is considered ½ mile), construction-related noise and human presence may interfere with the feeding, breeding, or sheltering of this species. Thus, the categorically permitted alterations may affect piping plover. The following conservation measure is proposed to minimize potential adverse effects.

Piping Plover Conservation Measure: Should any categorically permitted alteration be proposed during the April through August time frame in counties containing this species, a pre-construction survey would be conducted. If the species is identified and is feeding or initiating nesting activities, no work would be conducted until the piping plover has vacated the area. If no piping plover are spotted, the proposed project may continue as planned.

Rufa red knot travel up to 9,300 miles, twice a year, in search of suitable habitat and food. Because Rufa red knot prefer migration corridors along the entire Atlantic coast and are faithful to those specific sites, they would be considered extremely rare visitors to the civil works project sites in Montana. Proposed construction and maintenance activities may affect the species normal feeding and resting activities and cause to species to avoid the area. Thus, the categorically permitted alterations may affect this species. The following conservation measure is proposed to minimize potential adverse effects.

Rufa Red Knot Conservation Measure: Should any categorically permitted alterations be proposed during the spring and/or fall migration and stopover periods, in counties containing this species, a pre-construction survey would be conducted. If the species is identified, no work would be conducted until the Rufa red knot has vacated the area. If no Rufa red knot are spotted, the proposed project may continue as planned.

Northern long-eared bats are found behind loose pieces of bark, within cavities and crevices of live and dead trees, and occasionally in structures like barns during the summer months. In the winter months, northern long-eared bats hibernate in caves and in mines. In the spring and autumn months, northern long-eared bats migrate between their summer and winter homes. Because northern long-eared bats do not seek a specific tree species or forest community to roost (rather selecting trees with loose or exfoliating bark), the northern long-eared bat may be found within forested communities adjacent to the civil works projects described in this Programmatic EA but not within the USACE project ROW since trees are regularly removed as a maintenance requirement.

In some cases, clearing of the trees adjacent to the USACE ROW may be required to establish staging areas or to construct bore pits for horizontal directional drilling activities. In these instances, the areas outside of the USACE ROW would be considered “linked” to the categorically permitted alteration, and any potential adverse impacts occurring in those linked areas would be considered within the scope of the alteration. Clearing trees in linked areas may affect northern long-eared bats if they happen to be roosting in the trees when the trees are removed. Additionally, the removal of trees may affect the bat by incrementally removing ideal roosting habitat. To ensure adverse effects to bats that occur in linked areas are minimized, the following conservation measures would be required.

Northern Long-eared Bat Conservation Measures: All tree clearing needed as part of any categorically permitted alteration in linked areas shall be conducted within the winter months when the bats are in hibernation. Additionally, the proposed removal of trees would be coordinated with the USFWS to determine if the amount of trees proposed for removal or the location of trees proposed for removal could rise to a level of an adverse effect.

Pallid sturgeon may be found feeding, breeding, or sheltering in deep and shallow waters of the main channel and tributaries of the Yellowstone River. If categorically permitted alterations are proposed to occur at the project when this species is present, construction-related noise, vibrations in the water, and human presence could interfere with the feeding, breeding, or sheltering of this species and cause the pallid sturgeon to leave the area of disturbance. However, once construction has ceased, it is believed that pallid sturgeon would return to the area to again carry on with its normal activities. Thus, the categorically permitted alterations may affect this species. The following conservation measures are proposed to minimize potential adverse effects.

Pallid Sturgeon Conservation Measures: Best management practices would be implemented to reduce overland flows, erosion, and sediment from impacting water quality in the immediate area of the alteration. Additionally, in-water construction would not occur during the species’ spawning migrations (April – June) in areas where this species is known to occur.

5.2.1.9.3 May Adversely Modify or Destroy Critical Habitat.

Designated critical habitat is not present at any of the civil works projects described in this Programmatic EA for any of the federally-listed threatened or endangered species. Since the existing projects are within areas that were previously disturbed (construction) and are now regularly disturbed (operation and maintenance activities), no future potential is likely to designate critical habitat on USACE civil works project lands.

However, there is the potential to inadvertently modify or destroy designated critical habitat that occurs on lands located adjacent to USACE lands if the areas designated as critical habitat receive stormwater runoff containing sediments and/or pollutants from construction activities or staged materials. Thus, BMPs that limit stormwater runoff (e.g., hay bales and silt fences) would be implanted to avoid adverse modification or destruction of any adjacent sensitive habitats. It

should be noted that direct modification or destruction of critical habitat on adjacent lands would not be authorized under this Programmatic EA and would be subject to an additional assessment under NEPA.

5.2.1.10 Cultural Resources

The Omaha District's Cultural Resources Specialist (pers. comm., August 26, 2015) stated that provided the alterations are confined to the footprint of the previous construction (the existing civil works project), the alteration would have "No Potential to Affect Historic Properties."

The original levees and their component structures are in some cases over 50 years old and hence may be evaluated for eligibility to be listed on the National Register of Historic Places (NRHP). However, due to substantial alterations, repairs and replacements they typically do not *possess integrity* and do not *embody the distinctive characteristics* under Criterion C of the National Register Criteria for Evaluation.

In the event of an unanticipated discovery of cultural resources, the work shall be halted immediately and a district archeologist shall be notified. The work shall not be continued until the area is inspected by a staff archeologist. If he or she determines that the discovery requires further consultation, the Montana State Historic Preservation Office will be notified.

If the categorically permitted alteration requires activities to occur outside of the footprint of the previous construction (staging areas, bore pits, borrow sites, etc.) additional site assessments for cultural resources would need to be made. Note that in these cases, a separate or tiered NEPA document also may need to be prepared.

5.2.1.11 Floodplains

Construction of the categorical permissions listed in this Programmatic EA would not result in additional development in the floodplain or encourage additional occupancy and/or modification of the floodplain on the lands or real property interests of USACE projects. They would not result in any increases in water elevations during flood events. Requirements of Executive Order 11988 – Floodplain Management, would be followed. If these requirements are not met, then the request to alter a USACE project would not be allowed under this programmatic environmental assessment. If greater than minor impacts to floodplain management were identified during the preparation of any tiered environmental assessment, a separate stand-alone NEPA document would need to be prepared.

5.2.2 Categorical Permissions that have No to Negligible Environmental Impacts

During review of the list of Section 408 alterations that qualify for categorical permissions and taking into consideration the above impacts that could occur during construction of the alterations, USACE noted that the proposed alterations could be combined into groups of alterations that would have similar impacts on the environment.

For example, the proposed categorical permissions listed below would have no impact on air quality, water quality, wetlands, threatened and endangered species, fish, or cultural resources. The below-listed categorical permissions would result in negligible impacts to terrestrial habitat because the disturbed area would be returned to pre-construction condition following the alteration or would have negligible impact to wildlife as the species may be startled during construction or human presence and avoid the area until the disturbance has ended. These conclusions were made based on the fact that the alteration would require a very small project footprint, only minimal human presence, and a slight generation of noise in the area during the alteration. These alterations include (and are numbered according to the list generated under Alternative 2 above):

- 3) Abandonment of Drainage Structures
- 5) Bike Trail on Top of Levee (including rest stations)
- 7) Abandonment of Relief Wells (Filled in-place)
- 9) Repair of Pump Station
- 11) Geotechnical Explorations
- 14) Fences
- 15) Installation of Utility Poles
- 16) Removal of Existing Utility Poles
- 22) Placement of Monitoring Monuments

5.2.3 Categorical Permissions that have Minor Environmental Impacts to Water and Terrestrial Resources

The next set of alterations would result in minor disturbances to water or channel banks. The impacts to water resources would be minimized with Best Management Practices and would not exceed the limits of a Nationwide or Regional General Permit. The alterations identified below would have minor and short-term impacts on air quality (from the operation of construction equipment), water quality (slight increases in turbidity within the immediate area of construction), wetlands (within Nationwide or Regional General Permit limits), threatened and endangered species primarily to pallid sturgeon and Topeka shiner due to turbidity increases (beneficial effect) and construction-related vibrations causing the fish to temporarily leave the area (minor affect), fish (similar effects as with pallid sturgeon), wildlife (causing the species to temporarily leave the area), terrestrial habitat (minor disturbances during construction that would be remedied by returning the area to pre-construction conditions), and noise (slight and temporary increases from construction operations). As with all categorical permissions, the chances of encountering a cultural resource is extremely low due to the fact that the alteration would occur on previously disturbed ground. However, should a cultural resource be encountered during construction, all work would cease until the area was inspected by a cultural resource specialist and a right to proceed was granted. These alterations include (and are numbered according to the list generated under Alternative 2 above):

- 8) Installation of Pump Station

- 12) Riprap Placement
- 17) Highway/Street Bridge Replacement
- 20) Temporary Channel Crossing

5.2.4 Categorical Permissions that have Minor Environmental Impacts to Terrestrial Resources Only

The remaining Section 408 alterations would result in minor impacts to air quality (from the operation of construction equipment), wetlands (within Nationwide or Regional General Permit limits), threatened and endangered species [terrestrial species from construction-related noise causing the species to temporarily leave the area (minor affect)], wildlife (causing the species to temporarily leave the area, any tree removal would be coordinated to occur outside of migratory bird nest season and bat roosting), terrestrial habitat (minor disturbances during construction that would be remedied by returning the area to pre-construction conditions), and noise (slight and temporary increases from construction operations). As with all Section 408 alterations, the chances of encountering a cultural resource is extremely low due to the fact that the alteration would occur on previously disturbed ground. However, should a cultural resource be encountered during construction, all work would cease until the area was inspected by a cultural resource specialist and a right to proceed was granted. These alterations include (and are numbered according to the list generated under Alternative 2 above):

- 1) Utilities under the Levee
- 2) Replacement of Drainage Structures
- 4) Removal of Drainage Structures
- 6) Installation of Relief Wells
- 10) Modification of Existing Drainage Structures
- 13) Staging Areas (materials and equipment)
- 18) Pipes Up and Over Levee (sanitary, water, drainage)
- 19) Street Paving/Repair
- 21) Pipe or Conduit Abandonment

6. Cumulative Impacts

The combined incremental effects of human activity are referred to as cumulative impacts (40CFR 1508.7). While these incremental effects may be insignificant on their own, accumulated over time and from various sources, they can result in serious degradation to the environment. The cumulative impact analysis must consider past, present, and reasonably foreseeable actions in the study area. The analysis also must include consideration of actions outside of the Corps, to include other state and federal agencies. As required by the National Environmental Policy Act, the Corps has prepared the following assessment of cumulative impacts related to the categorical permissions being considered in this Programmatic EA.

Past, Present, and Reasonably Foreseeable Projects

Past actions included the construction of the civil works project sites. In addition, many residential subdivisions and commercial properties have been constructed on the landside of the civil works sites. Agricultural land has been developed on both sides at many of the civil works project sites. The construction of all these facilities has greatly altered the historic aquatic and terrestrial environment.

Present actions at the civil works project sites include the current operation and maintenance of the project by the USACE and non-federal sponsors. The entire civil works project sites are regularly maintained, which limits the establishment of terrestrial and aquatic habitat from forming, and also results in an on-going human presence. In addition, portions of the projects are regularly used for recreation, which results in steady human disturbances. Alterations to civil works projects are being conducted in multiple states across the entire District. Alterations made in one state could affect environmental resources located in another state if the impact in the first state causes species to permanently relocate to other areas. These activities have an incremental and continuing adverse impact on the aquatic and terrestrial environment.

The anticipated alterations of civil works projects would continue to have an incremental adverse impact on the environment although it is believed the impacts would not be significant over time since the alterations would occur to existing constructed facilities and fish and wildlife associated with these projects could return to the area when construction has completed. Other future actions associated with the civil works project sites could include the potential for construction of residential and commercial developments, and transportation improvements since the areas on the landside of the USACE civil works project would be better protected from floods. This would most likely come at the expense of agricultural lands and would increase human presence and their associated disturbances. These impacts, which are out of the scope of this Programmatic EA, could have more than a minor cumulative adverse impact on the environment if not properly mitigated.

7. Compliance with Environmental Statutes

Bald and Golden Eagle Protection Act, 16 U.S.C. Sec. 668, 668 note, 669a-668d. In compliance. This Act prohibits the taking or possession of and commerce in bald and golden eagles, with limited exceptions for the scientific or exhibition purposes, for religious purposes of Indian Tribes, or for the protection of wildlife, agriculture or preservation of the species. The proposed categorical permitted alterations would have no adverse effects on bald eagles as trees suitable for nesting do not occur on the civil works project sites described in this Programmatic EA. For linked projects, no clearing or grubbing activities would be allowed within the January 31 through August 31 timeframe if an active nest is in line-of-sight of the clearing. In addition, a survey would be conducted not more than five days prior to the commencement of clearing and grubbing operations to ensure no active nests are within 660 feet of the proposed clearing. If an active nest is found within the 660-foot area, no clearing would occur until the USFWS and the

Montana Fish, Wildlife and Parks have been notified and information on how to proceed has been obtained.

Clean Air Act, as amended, 42 U.S.C. 185711-7. et seq. In compliance. Air quality is not expected to be significantly impacted to any measurable degree by the proposed action.

Clean Water Act (CWA), as amended. (Federal Water Pollution Control Act) 33 U.S.C. 1251. et seq. In compliance. Regulatory requirements for the placement of dredged or fill material into waters of the United States is mandated by the CWA under Section 404. The Corps authorizes this permit. Categorically permitted alterations must not exceed the limits of a Nationwide or Regional General Permit. Since it has been determined that Nationwide and Regional General Permits have minimal individual and cumulative adverse effects, the proposed categorically permitted alterations would not result in significant adverse impacts to wetlands.

The Omaha District Regulatory Office coordinated with the Montana Department of Environmental Quality during preparation of the Nationwide and Regional General Permits to ensure compliance with Section 401 of the CWA. Results of that coordination concluded with issuance of a “blanket” Water Quality Certification that was “tied to” the Nationwide and Regional General Permits.

Comprehensive Environmental Response Compensation and Liability Act (CERCLA). In compliance. Typically CERCLA is triggered by (1) the release or substantial threat of a release of a hazardous substance into the environment; or (2) the release or substantial threat of a release of any pollutant or contaminant into the environment which presents an imminent threat to the public health and welfare. To the extent such knowledge is available, 40 CFR Part 373 requires notification of CERCLA hazardous substances in a land transfer. Areas containing hazardous waste would always be avoided and are not subject to this Programmatic EA.

Endangered Species Act, as amended, 16 U.S.C. 1531, et seq. In compliance. The USFWS was contacted via email on September 8, 2015 during preparation of the DRAFT PEA and asked to provide comment. On October 8, 2015, the USFWS responded via email and provided comments. Those comments were incorporated into the DRAFT PEA. On July 6, 2016, a second email was sent to the USFWS to inform them that the final DRAFT EA was available for agency and public comment. The Corps requested the USFWS review the DRAFT document and provide any additional comments. No additional comments were received.

Environmental Justice (E.O. 12898). In compliance. Federal agencies shall make achieving environmental justice part of their mission by identifying and addressing, as appropriate, disproportionately high and adverse human health or environmental effects of their programs, policies, and activities on minority populations and low-income populations in the United States. The categorically permitted alterations do not disproportionately impact minority or low-income populations.

Farmland Protection Policy Act (Subtitle I of Title XV of the Agriculture and Food Act of 1981), effective August 6, 1984. In compliance. Compliance with this act also satisfies the requirements set forth in Council on Environmental Quality (CEQ) Memorandum of August 11, 1980, *Analysis of Impacts on Prime or Unique Agricultural Lands in Implementing NEPA*. No prime farmland would be converted to a different use as a result of this proposed action.

Federal Water Project Recreation Act, as amended, 16 U.S.C. 460-1(12), et seq. In compliance. Categorically permitted alterations may temporarily impact recreational use until such time as construction was complete. In the long-term, no changed recreational use of the civil works projects would occur.

Fish and Wildlife Coordination Act, 16 U.S.C. 661 et seq. In compliance. As stated above, the USFWS was contacted on multiple occasions and comments provided by the USFWS were incorporated into the DRAFT PEA during its preparation.

Floodplain Management (E.O. 11988). In compliance. The categorically permitted alterations would occur on previously constructed civil works projects and no betterments would be authorized. No change in area floodplains would result.

Migratory Bird Treaty Act of 1918 as amended, 16 U.S.C. 703-711, et seq. In compliance. The MBTA is the domestic law that affirms, or implements, the United States' commitment to four international conventions with Canada, Japan, Mexico and Russia for the protection of shared migratory bird resources. The MBTA governs the taking, killing, possession, transportation, and importation of migratory birds, their eggs, parts and nests. The take of all migratory birds is governed by the MBTA's regulation of taking migratory birds for educational, scientific, and recreational purposes and requiring harvest to be limited to levels that prevent over utilization. Executive Order 13186 (2001) directs executive agencies to take certain actions to implement the act. The Corps will avoid impacts to migratory birds, and their nests, during categorically permitted alterations by ensuring the removal of any trees associated with the alteration is conducted within the winter months before the arrival of migrating birds.

National Environmental Policy Act (NEPA), as amended, 42 U.S.C. 4321, et seq. In compliance. This programmatic environmental assessment has been prepared for the proposed action and satisfies the NEPA requirement. An Environmental Impact Statement is not required.

National Historic Preservation Act, as amended, 16 U.S.C. 470a, et seq. In compliance. In a personal communication (August 26, 2015) with the Omaha District's cultural resources staff, the Planning Section was informed that provided the categorically permitted alterations are confined to the footprint of the previously cleared Area of Potential Effect, the categorically permitted alterations would have No Potential to Affect Historic Properties. In a second communication with the cultural resources staff, dated February 18, 2016, the Planning Section was informed that levees and their component structures that are 50 years or older are not eligible for listing on the National Register of Historic Places because the continual alterations,

repairs, and replacements that occur to these structures reduce the quality of their significance in American history, architecture, archeology, engineering, and culture.

There is always potential for an unanticipated discovery of cultural resources during construction activities. In the event that historic resources are uncovered, work would be halted immediately and a District archeologist would be notified. The work will not be restarted until the area has been inspected by a District archeologist and an order to proceed is given. If the District archeologist determines that the resources require further consultation, he or she will notify the Montana State Historic Preservation Office.

Noise Control Act of 1972, 42 U.S.C. 4901 et seq. In compliance. While there will be a minor noise disturbance from construction during the categorically permitted alterations, there will be no long-term noise disturbances associated with this alterations.

Protection of Wetlands (E.O.11990). In compliance. The proposed categorically permitted alterations must fall within the limits of a Nationwide or Regional General Permit. Since it has been determined that Nationwide and Regional General Permits have minimal individual and cumulative adverse effects, no significant impacts to wetlands or waters of the U.S. are anticipated.

Rivers and Harbors Act, 33 U.S.C. 401, et seq. In compliance. A Section 10 permit is not required for Corps projects.

Watershed Protection and Flood Prevention Act, 16 U.S.C. 1101, et seq. In compliance. The contractor is required to prepare an erosion and sedimentation control plan (Plan) prior to the start of construction. Best Management Practices to minimize erosion and sedimentation need to be identified in the Plan and then implemented.

Wild and Scenic Rivers Act, 16 U.S.C. 1271, et seq. This Act preserves the outstanding natural, cultural, and recreational values in a free-flowing condition for the enjoyment of present and future generations. No impacts to wild and scenic rivers are anticipated as no civil works projects are located on wild and scenic designated segments of the Missouri River.

8. Public Involvement and Agency Coordination

8.1 Public Involvement

In accordance with NEPA, a 30-day review period of this draft Programmatic EA was provided via a Notice of Availability on the Omaha District's website at:
<http://www.nwo.usace.army.mil/Missions/CivilWorks/Planning/PlanningProjects.aspx>

Public comments received included: No public comments were received.

8.2 Agency Coordination

The following agencies were contacted via email to solicit comment and input on the proposed Programmatic EA. Please see Appendix A.

- U.S. Fish and Wildlife Service
- Montana Fish, Wildlife & Parks
- NWO Cultural Resources staff
- U.S. National Park Service
- U.S. Environmental Protection Agency

Comments received included:

U.S. Fish and Wildlife Service: The USFWS was contacted via email on September 8, 2015 during preparation of the DRAFT PEA and asked to provide comment. On October 8, 2015, the USFWS responded via email and provided comments. Those comments were incorporated into the DRAFT PEA. On July 6, 2016, a second email was sent to the USFWS to inform them that the final DRAFT EA was available for agency and public comment. The Corps requested the USFWS review the DRAFT document and provide any additional comments. No additional comments were received.

Montana Fish, Wildlife & Parks: The Montana Fish, Wildlife, & Parks did not respond.

Cultural Resources: In a personal communication (August 26, 2015) with the Omaha District's cultural resources staff, the Planning Section was informed that provided the categorically permitted alterations are confined to the footprint of the previously cleared Area of Potential Effect, the categorically permitted alterations would have No Potential to Affect Historic Properties. In a second communication with the cultural resources staff, dated February 18, 2016, the Planning Section was informed that levees and their component structures that are 50 years or older are not eligible for listing on the National Register of Historic Places because the continual alterations, repairs, and replacements that occur to these structures reduce the quality of their significance in American history, architecture, archeology, engineering, and culture.

U.S. National Park Service: The U.S. National Park Service did not respond.

U.S. Environmental Protection Agency: In a July 26, 2016 Letter, the U.S. Environmental Protection Agency stated that they had concerns with categorical permissions numbers 1 and 12. Specifically, for categorical permission number 1, it was stated that gas pipelines (and other hazardous liquid pipelines) should be excluded from the list because these types of pipelines are more likely to require special design considerations (e.g., valve placement and enhanced erosion protection) to protect water resources. **Response:** Noting that gas lines would require a more detailed analysis to ensure they have no significant impacts on the environment, they have been removed from the list of categorical permissions.

For categorical permission number 12, it was stated that riprap placement should be limited to repairing and replacing existing riprap, or that a condition be included that requires new riprap placement be limited in scope to that authorized within the limits of a Nationwide Permit.

Response: As stated in the environmental conditions on page 7 of this EA, proposed alterations requiring a Section 404 Permit must be within the limits of an applicable Nationwide or Regional General Permit.

9. Preparer

This Programmatic EA and the associated FONSI were prepared by Mr. Matthew D. Vandenberg (Environmental Resource Specialist). The address of the preparer is: U.S. Army Corps of Engineers, Omaha District; PM-AC, 1616 Capitol Avenue, Omaha, Nebraska 68102.

Prepared By: Matthew D. Vandenberg
Matthew D. Vandenberg
Environmental Resources Specialist

Date: Jan. 3, 2017

Approved By: Eric Laux
Eric Laux
Chief, Environmental Resources and Missouri
River Recovery Program Plan Formulation Section

Date: 1/10/17

**Appendix A
Agency Coordination**

PROGRAMMATIC ENVIRONMENTAL ASSESSMENT

**CATEGORICAL PERMISSIONS
SECTION 408 ALTERATIONS TO EXISTING
U.S. ARMY CORPS OF ENGINEERS
CIVIL WORKS PROJECT
33 U.S.C. SECTION 408
MONTANA**

January 2017



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION 8

1595 Wynkoop Street
Denver, CO 80202-1129
Phone 800-227-8917
www.epa.gov/region08

JUL 26 2016

Ref: 8EPR-N

U.S. Army Corps of Engineers, Omaha District
CENWO-PM-AC
Attn: Section 408 EA
1616 Capitol Avenue
Omaha, NE 68102-4901



www.dhahmng2@usace.army.mil

Re: Programmatic Environmental Assessment: Categorical Permissions Section 408 Alterations to Existing Civil Works Projects

Dear Sir or Madam:

We have reviewed the draft Programmatic Environmental Assessments and Finding of No Significant Impacts: Categorical Permissions, Section 408 Alterations to Existing U.S. Army Corps of Engineers Civil Works Projects for the states of Colorado, Montana, North and South Dakota, and Wyoming, dated June 2016. We have two recommendations to reduce potential environmental impacts for projects that may be authorized under the categorical permissions. Our comments are provided for your consideration pursuant to our responsibilities and authority under Section 102(2)(C) of the National Environmental Policy Act (NEPA) and Section 309 of the Clean Air Act.

The environmental assessments analyze the environmental effects of projects utilizing the proposed list of categorical permissions (Alternatives 2) and the no action alternative. The proposed list of categorical permissions is generally activities that will have minor environmental impacts. However, categorical permission numbers 1 and 12 should be modified to further limit the use of the permissions to construction activities that routinely have only minor impacts.

Permission 1) Placing Electrical, Fiber Optic (Internet, Phone, Cable), Gas, Water, Sanitary, or Drainage Pipe Utilities under a Levee

We recommend that the permission 1 be changed to:

- Exclude gasoline and other hazardous liquid pipelines. These types of pipelines are more likely to need project specific environmental analyses to protect water resources and special design considerations such as valve placement and enhanced erosion protection.

- Clarify the term "gas" pipe utilities. Based on the context of the permission it appears that gas means "natural gas" pipelines such as local gathering and distribution lines. We recommend that the permission also exclude natural gas transmission lines, which are larger and are at higher pressures.

Permission 12) Placing New Riprap

- New riprap is placed on the channel slope, levee embankment, around bridge piers and outfall structures for erosion control.

We recommend that permission 12 be limited to repairing and replacing riprap. Another possibility would be to limit new areas of riprap, such as the 200 foot limitation in the Section 404 of the Clean Water Act Nationwide Permit (NWP) Number 3, Maintenance. In addition the NWP specifies "The placement of new or additional riprap must be the minimum necessary to protect the structure or to ensure the safety of the structure. Any bank stabilization measures not directly associated with the structure will require a separate authorization from the district engineer."

Thank you for the opportunity to provide comments on the draft Programmatic Environmental Assessments for Categorical Permissions for Section 408 Alterations to Civil Works Projects. If further explanation of our comments is desired, please contact me at (303) 312-6704, or your staff may contact Dana Allen at (303) 312-6879 or by email at allen.dana@epa.gov.

Sincerely,



Philip S. Strobel
Director, NEPA Compliance and Review Program
Office of Ecosystems Protection and Remediation

From: Vandenberg, Matthew D NWO
To: "david_hurd@nps.gov"
Subject: Review and Comment on Environmental Assessments - Intermountain Region (UNCLASSIFIED)
Date: Friday, July 08, 2016 12:44:00 PM
CLASSIFICATION: UNCLASSIFIED

Mr. Hurd:

The Corps of Engineers has prepared several final draft programmatic environmental assessments (EA) for developing categorical permissions under Title 33, U.S. Code 408 of the Rivers and Harbors Act of 1899 (Section 408) and those are currently available for review and input.

The draft programmatic EAs evaluate the environmental impacts of allowing certain routine alterations to be permitted at federally-constructed civil works projects within the Omaha District's civil works boundary (Montana, North Dakota, South Dakota, Wyoming, Colorado, Nebraska and Iowa).

Please navigate to <http://www.nwo.usace.army.mil/Media/News-Releases/Article/821771/public-input-sought-onproposed-list-for-expediting-routine-alterations-at-dist/> and scroll through the list to find the Draft programmatic EAs specific to your areas of concern.

Comments must be postmarked or received no later than August 1, 2016.

Project Contact: Matt Vandenberg - - matthew.d.vandenberg@usace.army.mil

Thank you for your attention to this request for input.

Matthew D. Vandenberg
Environmental Resources Specialist
Omaha District, US Army Corps of Engineers
1616 Capitol Avenue
Omaha, Nebraska 68102
402/995-2694
CLASSIFICATION: UNCLASSIFIED

From: Vandenberg, Matthew D NWO

To: "strobels.philip@epa.gov"; "allen.dana@epa.gov"; "nicholas_chevance@nps.gov"; "jodi_bush@fws.gov"; "annam@mt.gov"

Subject: FW: Agency input sought on Environmental Assessment for routine alterations at District civil works projects (Section 408) (UNCLASSIFIED)

Date: Wednesday, July 06, 2016 10:12:00 AM

CLASSIFICATION: UNCLASSIFIED

Team:

A final draft programmatic environmental assessment (EA) for developing categorical permissions under Title 33, U.S. Code 408 of the Rivers and Harbors Act of 1899 (Section 408) is currently available for review and input.

The draft programmatic EA evaluates the environmental impacts of allowing certain routine alterations to be permitted at federally-constructed civil works projects within the Omaha District's civil works boundary (Montana, North Dakota, South Dakota, Wyoming, Colorado, Nebraska and Iowa).

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Comments must be postmarked or received no later than August 1, 2016.

Project Contact: Matt Vandenberg - - matthew.d.vandenberg@usace.army.mil

Thank you for your attention to this request for input.

Matthew D. Vandenberg
Environmental Resources Specialist
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1616 Capitol Avenue
Omaha, Nebraska 68102
402/995-2694

CLASSIFICATION: UNCLASSIFIED

From: Berglund, Jeff
To: Vandenberg, Matthew D NWO
Subject: [EXTERNAL] Fwd: Programmatic Environmental Assessment and ESA Affect Determinations
Date: Thursday, October 08, 2015 2:02:26 PM
Attachments: [effectsmatrix.pdf](#)

Didn't go through on the first attempt...

----- Forwarded message -----

From: Berglund, Jeff <jeff_berglund@fws.gov>
Date: Thu, Oct 8, 2015 at 12:54 PM
Subject: Fwd: Programmatic Environmental Assessment and ESA Affect Determinations
To: Matthew.D.Vandenberg@usace.army.mi
Cc: Jodi Bush <Jodi_Bush@fws.gov>, Brent Esmoil brent_esmoil@fws.gov

Hi Matt. As requested, Montana Field Office staff read through the draft EA and associated documents that you submitted for review, and we offer the following comments:

As you indicate in your internal track changes notes in the draft EA, a statewide map and individual detailed maps showing the locations of the public works projects assessed in the document would greatly assist in our review. Showing and describing the proximity of the levee projects to waterways such as the Missouri, Milk, and Yellowstone Rivers would be especially helpful.

We appreciate your consideration of greater sage-grouse in the planning document, although, as you are probably now aware, this species is not currently considered a candidate for listing under the ESA. As applicable, proponents will need to comply with Montana Executive Order 12-2015 regarding sage-grouse and sage-grouse habitat.

Known occurrences for the assessed species in the various project areas should be described, based on recent database searches (Montana Natural Heritage Program) and discussions with local Montana Fish, Wildlife and Parks biologists. This would establish context and help inform the effects discussions.

The proximity of public work locations to designated piping plover critical habitat should be shown and/or further described. No critical habitat has been designated along the Yellowstone, Milk, or Sun Rivers nor Beaver, Cherry, or Muddy Creeks. However, it's unclear from the descriptions provided in the Draft EA whether critical habitat may occur in the vicinity of, or be indirectly affected by, the Saco or Malta projects (e.g., Bowdoin NWR).

Threatened and endangered species considered in the vicinity of the West Glendive Project should include the piping plover, as breeding has been documented along the Yellowstone River just upstream of Glendive.

We disagree that turbidity increases would necessarily represent a beneficial effect to pallid sturgeon. While pallids generally prefer large, turbid, relatively warm rivers, there is, for example, evidence of negative sediment effects to larval pallids.

We request that more explanation be provided relative to how highway/street bridge replacement involves/relates to these public works levee projects. This particularly applies to placement of bridge piers "near levee embankment or within channel limits" - please clarify how placement of such piers would be directly "altering" the public works projects and require Categorical Permissions.

Placement of bridge piers and associated pile driving in the lower Milk River or Yellowstone River project areas could potentially result in adverse effects to pallid sturgeon if implemented under certain conditions. As such, we recommend Corps coordination with Montana Fish Wildlife & Parks and USFWS in the development of site specific timing restrictions, vibration shielding, construction methods, etc. relative to any such proposed work in these waterways in order to avoid such effects. The Corps may want to consider not including this category (or at least pier installation) within the programmatic EA, and instead deal with these specific types of projects individually. Also, it should be clearly stated that the Categorical Permissions for Section 408 Alterations are not

authorizing bridge replacement projects themselves; rather, only alterations to the public works projects that are associated with authorized bridge replacement projects.

We recommend that "all potential encounters with threatened and endangered species would be coordinated with the USFWS on an individual basis prior to project implementation to ensure compliance with the Endangered Species Act" be revised to "Prior to implementation, the USFWS will be consulted regarding all individual projects that may affect listed or proposed threatened or endangered species to ensure..."

We appreciate your inclusion of measures intended to address Migratory Bird Treaty Act issues, as well as Bald and Golden Eagle Protection Act adherence measures. With regard to BGEPA, we recommend that project proponents in Montana adhere to seasonal restrictions and construction / development distance buffers specified in the 2010 Montana Bald Eagle Management Guidelines: An Addendum to Montana Bald Eagle Management Plan (1994) where active nests or other important eagle use areas are present in the project vicinity.

We suggest that you re-write the paragraph near the top of p 27 that mentions take. Take is an adverse effect; if take of listed species is anticipated, then formal consultation would be required with the Service. If project implementation may affect, but is not likely to adversely affect listed species (e.g., effects are discountable, insignificant, or wholly beneficial), then Service concurrence is required with that determination (via informal consultation). FYI I've attached a chart that further defines these terms and processes. Also please note that, with regard to threatened and endangered species, "no effect" means absolutely no effect. A projected minor (discountable or insignificant) effect would result in a "may affect, not likely to adversely affect" determination. It seems that some of the activities in Section 5.2.1 (such as replacement/removal of drainage structures, or installation of utility poles) have the potential to result in minor effects to some listed species.

We recommend that any necessary forested riparian woodland clearing at projects within the range of northern longeared bats be carried out between October 1 and March 31, while bats are typically in hibernacula. We also recommend that you include (reference) standard wetland avoidance/minimization/compensation measures as conservation measures for the red knot.

The pallid sturgeon discussion on P. 29 references the Platte River (typo). In Montana, pallids may occur within the general vicinity of your listed project areas in the Missouri River, lower Milk River, and Yellowstone River. The paragraph further discusses impacts to pallids. We recommend that you revisit this discussion considering the attached definitions associated with "may affect, not likely to adversely affect" determinations (e.g., provide rationale consistent with these definitions), as well as the comments above pertaining to pile driving. We also recommend that project-specific construction timing restrictions and similar measures be developed in conjunction with FWS and Montana Fish, Wildlife, and Parks should actions be proposed that may affect pallid sturgeon.

BMPs are cited generally throughout the document; however, specific BMPs should be listed (text, table, appendix, etc.) or referenced such that they can be better tied to your effect determinations for all species.

Your email requested concurrence with your determinations. We cannot concur with "draft" determinations of effect, and would have to do so in conjunction with review of a final document. However, please see the above comments regarding the analyses - addressing these comments would greatly facilitate our review of your final determinations.

Your email also asked if projects should be coordinated with USFWS on a project-by-project basis. For appropriate "no effect" determinations, this would not be necessary. It would, however, be necessary for future individual actions resulting in "may affect, not likely to adversely affect" or "may affect, likely to adversely affect" determinations, because individual site-specific projects and specific corresponding conservation measures have not yet been proposed nor developed (and cannot presently be evaluated).

I hope these comments are helpful - please call if you would like to discuss any of these issues. Thank you for the opportunity to review the draft documents.

Jeff

From: Vandenberg, Matthew D NWO
To: "fwpgen@mt.gov"; "jodi_bush@fws.gov"; "brent_esmoil@fws.gov"
Subject: Programmatic Environmental Assessment and ESA Affect Determinations
Date: Tuesday, September 08, 2015 8:29:00 AM
Attachments: 1_MONTANA PEA Draft Section 408 .docx

Team:

The USACE, Omaha District is working on a Programmatic Environmental Assessment (PEA) for Section 408 Alterations that have been deemed Categorical Permissions.

Section 408 Alterations are any modifications to a Public Works project (in this case levees) no matter how big or small. All alterations to Public Works projects require permission from the USACE to ensure the Alteration does not AFFECT THE FUNCTION or ALTER THE PURPOSE of the Public Works project.

Categorical Permissions are those alterations deemed "minor" and would have negligible to minor impacts to the environment with implementation of minimization measures (page 5 - 7 of the DRAFT PEA provides a list of Categorical Permissions along with certain conditions that must be implemented to ensure the alteration remains within the Categorically Permitted Alteration category).

Pages 11-12 of the PEA provides a list of T&E Species that MAY BE associated with the Public Works projects.

Pages 14 to 19 provides a list of the Public Works projects in Montana along with a description of existing conditions including T&E species found in the county where the Public Works project is located.

Pages 20 to 23 includes my attempt to group Section 408 Alterations that would result in similar impacts (No to negligible impacts, impacts to water and terrestrial resources, and impacts solely to terrestrial resources).

Pages 26 to 30 is the section of the PEA that acts as the Biological Assessment and makes affect determinations. Included with the determinations are measures that must be implemented along with the proposed alteration to reduce potential affects to T&E species.

The USACE requests your concurrence with those determinations.

Additionally, for determinations of "may affect, but not likely to adversely affect" the PEA states that the USACE would coordinate with the USFWS. Do you wish the USACE to do this coordination on a project-by-project basis, or, with implementation of the minimization measures identified in the PEA, are you satisfied that the determinations and minimization measures are adequate.

I understand that this is a lot to take in so if you have any comments at all, please feel free to contact me at any time.

The hope is that this PEA can be completed by October, which would be a quick turn-around, but the USACE in getting inundated with requests for these "minor" alterations.

Thanks for your assistance with this project.

Matthew D. Vandenberg
Environmental Resources Specialist
Omaha District, US Army Corps of Engineers
1616 Capitol Avenue
Omaha, Nebraska 68102
402/995-2694

Appendix B

Example of the Tiered NEPA Document to be used for Categorically Permitted Alterations

PROGRAMMATIC ENVIRONMENTAL ASSESSMENT

CATEGORICAL PERMISSIONS SECTION 408 ALTERATIONS TO EXISTING U.S. ARMY CORPS OF ENGINEERS CIVIL WORKS PROJECT 33 U.S.C. SECTION 408 MONTANA

January 2017

Tiered NEPA Document for Categorically Permitted Alterations to Existing U.S. Army Corps of Engineer Civil Works Projects

Proposed Categorically Permitted Alterations (Check all that apply)	
<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	Utilities under the levee: <ul style="list-style-type: none"> • Open cut: Within the project Right of Way (ROW) levee embankment material is removed and then replaced according to design criteria for placement of the utility. • Horizontal Directional Drill: A pit is excavated on either side of the levee, usually outside the project ROW, and then pressure and drilling fluids are used to place the utility under levee embankment/channel section. • Jack and Bore: A pit is excavated on either side of the levee, usually outside the project ROW (in agricultural fields or on urban locations), and then the utility is mechanically placed under the surface.
<input type="checkbox"/>	Replacement of drainage structures: <ul style="list-style-type: none"> • The existing structures are demolished and a new structure is constructed per USACE design criteria. All work typically remains within the project ROW.
<input type="checkbox"/>	Abandonment of drainage structures: <ul style="list-style-type: none"> • Grout is placed inside an existing pipe and gatewell structure (to an elevation above the top invert of the pipe inside the gatewell) to fill all voids.
<input type="checkbox"/>	Removal of drainage structures: <ul style="list-style-type: none"> • An existing structure is demolished and replaced with compacted fill material.
<input type="checkbox"/>	Construction of a Bike trail on top of levee (including rest stations): <ul style="list-style-type: none"> • Gravel surfacing, concrete, or asphalt is placed on top of the existing levee crest. Placement of any material cannot degrade the authorized level of flood protection.
<input type="checkbox"/>	Installation of relief wells: <ul style="list-style-type: none"> • A hole is bored into the earth's surface some distance away from the landside toe of the levee and a relief well is then installed.
<input type="checkbox"/>	Abandonment of relief wells: <ul style="list-style-type: none"> • Existing relief wells are grouted full and then abandoned per State and other applicable requirements.
<input type="checkbox"/>	Installation of pump stations: <ul style="list-style-type: none"> • A pump structure is constructed on the landside of the levee near a water feature (ditch or channel).
<input type="checkbox"/>	Repair of pump stations: <ul style="list-style-type: none"> • Components of the pump station (pump, electrical controls, etc.) may be repaired or replaced or the entire pump station itself may be replaced.
<input type="checkbox"/>	Modification of existing drainage structures: <ul style="list-style-type: none"> • Slip lining –Slip lining, a trenchless method for repairing structural or environmental damages to a pipe, is completed by installing a smaller “carrier pipe” into the larger “host pipe” grouting the annular space between the two pipes, and sealing the ends.
<input type="checkbox"/>	Geotechnical Explorations <ul style="list-style-type: none"> • Geotechnical explorations, for the purpose of determining the soundness of the civil works project, may be performed on the levee crest, riverside berms, and/or landside berms by using borings, Cone Penetration Tests (small probe pushed into the ground), or Multi-Electrode Electrical Resistivity Tests (cable and shallow depth probes placed on the levee crest or levee cross section).

<input type="checkbox"/>	<p>Riprap placement:</p> <ul style="list-style-type: none"> • New riprap is placed on the channel slope, levee embankment, around bridge piers and outfall structures for erosion control.
<input type="checkbox"/>	<p>Temporary Staging areas and Working Pads for Material and Equipment:</p> <ul style="list-style-type: none"> • Temporary staging areas or working pads are set up for materials and/or equipment within the project ROW. This also includes levee crests or berms that are used as haul roads. The impacted area will need to be repaired to pre-construction conditions.
<input type="checkbox"/>	<p>Fences:</p> <ul style="list-style-type: none"> • Fences that are designed to not impede wildlife migrations can be installed on the project ROW or up and over a levee. Access gates can be included.
<input type="checkbox"/>	<p>Installation of utility poles:</p> <ul style="list-style-type: none"> • Utility poles are erected within the project ROW, but not on the levee section.
<input type="checkbox"/>	<p>Removal of existing utility poles:</p> <ul style="list-style-type: none"> • Existing utility poles are removed and the holes are backfilled with compacted material and/or grout.
<input type="checkbox"/>	<p>Replacement of Highway/Street Bridge:</p> <ul style="list-style-type: none"> • Bridges may be removed or replaced. Levee tie-ins may be impacted with the removal of the bridge embankment and placement of bridge piers near the levee embankment or within the channel limits.
<input type="checkbox"/>	<p>Placement of Sanitary, Water, or Drainage Pipes Up and Over the Levee):</p> <ul style="list-style-type: none"> • A pipe is placed on top of the levee crest, embankment material is added to cover the pipe, and the top of the levee is surfaced to accommodate vehicles. Levee side slopes also will have additional embankment material placed to cover the pipe.
<input type="checkbox"/>	<p>Street paving/repair:</p> <ul style="list-style-type: none"> • Construction of new street paving or repair of existing paving that is placed on the levee section or up and over the levee section. Typical work includes milling existing paving and placing new paving.
<input type="checkbox"/>	<p>Installation of temporary channel crossings:</p> <ul style="list-style-type: none"> • Temporary culverts are installed with riprap placed around and on top of the structure located within the flow line of a channel. Crossing provides access for construction equipment to move from one bank to another. A hydraulic no-rise analysis must be provided.
<input type="checkbox"/>	<p>Pipe or conduit abandonment:</p> <ul style="list-style-type: none"> • A pipe or conduit within the levee is either completely removed or abandoned by grouting.
<input type="checkbox"/>	<p>Placement of monitoring monuments:</p> <ul style="list-style-type: none"> • Monuments (e.g., carsonite posts or brass caps) are constructed on the project to survey and monitor for movement typically due to nearby construction or marking the location of sub-grade features.

Record of Environmental Consideration

Project Name:

Project Location:

Project Description:

Name and Date of Original NEPA document: *Programmatic Environmental Assessment & Finding of No Significant Impact, Categorical Permissions, Section 408 Alterations to Existing U.S. Army Corps of Engineers Civil Works Projects, 33 U.S.C. Section 408, January 2017 Montana*

Status of Existing NEPA Documentation: A FONSI was prepared for Categorically Permitted Alterations in the state of Montana and signed by Omaha District Commander Colonel John W. Henderson, P.E. in March 2017. Factors considered in making that determination included considerations as to whether or not the proposed alteration would be injurious to the public interest, impair the usefulness of the USACE project, or result in significant adverse impacts to the human environment.

Rational Used to determine if this Record of Environmental Consideration (REC) is Appropriate:

- The proposed action is Categorically Excluded from NEPA requirements.
- The proposed alteration is included on the list of Categorically Permitted Alterations contained within the Programmatic Environmental Assessment as identified above.
- The proposed action has been adequately assessed in an existing NEPA document and determined to not present the potential for significant adverse effects to the human environment, be injurious to the public interest, or impair the usefulness of the USACE civil works project.
- Reevaluation of the potential Environmental Effects has been completed as demonstrated on the attached. (**Review Completed**).

Date

Eric Laux, Chief
Environmental Resources and Missouri
River Recovery Program Plan Formulation
Section

I. Compliance Review for Environmental Laws

A. National Historic Preservation Act

No potential to affect historic properties. On _____, the Montana State Historic Preservation Office provided a letter that stated,

There is always the possibility that previously unsuspected archeological remains may be uncovered during the process of project construction. In the unlikely event of an unanticipated discovery of cultural resources, work will halt immediately and contact will be made with a Corps archeologist. The work will not continue until a qualified archeologist inspects the find. If it is determined that the discovery requires further consultation, the Corps will consult with the Montana SHPO.

Historic properties or Archeological resources may be affected. Standard Section 106 review required.

Project conditions are required. See explanation in Section V.

B. Endangered Species Act

No listed species and/or critical habitat are present in areas affected directly or indirectly by the Federal Action.

Listed species and/or critical habitat are present in areas affected directly or indirectly by the Federal Action. Coordination with the U.S. Fish and Wildlife Service conducted (See Agency Coordination at the end of this REC).

No effect determination shared with the U.S. Fish and Wildlife Service.

May affect, not likely to adversely affect threatened and endangered species or designated critical habitat concurrence provided by the U.S. Fish and Wildlife Service.

C. Clean Water Act

No waters of the United States would be affected directly or indirectly by the project.

Waters of the United States, including wetlands, would be affected by the proposed project.

Project requires Section 404/401 (Clean Water Act) and/or Section 10 (Rivers and Harbors Act) permits/certifications. To be obtained prior to construction.

Permits/certifications have been obtained (copy attached).

D. Fish and Wildlife Coordination Act

- No water body would be affected, modified, or controlled by the project.
- A water body would be affected, modified, or controlled by the project.
 - Coordination with the U.S. Fish and Wildlife Service was conducted.
 - No recommendations offered by the U.S. Fish and Wildlife Service.
 - Recommendations provided by the U.S. Fish and Wildlife Service.
 - Project conditions would be required. See explanation in Section V.

E. Clean Air Act

- No significant air quality emissions would result from the proposed project and no National Ambient Air Quality Standards would be exceeded.

F. Migratory Bird Treaty Act

- No take of migratory birds would occur from the project.

G. Bald and Golden Eagle Protection Act

- No take of bald or golden eagles would occur from this project.

H. Noise Control Act

- No permanent noise would result from the project.

G. Vegetation

- No more than a minor amount of vegetation would be disturbed and vegetation impacts would be offset by returning the area to conditions that existed prior to the construction-related disturbance.

H. Recreation

- No permanent impacts to recreation would result from the proposed alteration.

II. Compliance Review for Executive Orders

A. Executive Order 11988 – Flood Plains

- No effect on Flood Plains/Flood Levels would occur or the project is located outside the Flood Plain.

B. Executive Order 11990 - Wetlands

- No effect on wetlands would occur and the project is located outside of wetlands.
- The project is located in wetlands or effects to wetlands would occur.
 - Beneficial effects on wetlands would occur.
 - Adverse effects associated with constructing in or near wetlands would occur.
 - Coordination with the Corps Regulatory Office was conducted.

Nationwide Permit _____ would be used for this alteration.

C. Executive Order 12898 – Environmental Justice

- No Environmental Justice issues are associated with the project.
- Low income or minority populations are in or near the project area.
 - No disproportionately high or adverse impact on low income or minority populations would occur.

III. Other Relevant Laws, Environmental Regulations, or Executive Orders

- No other laws, environmental regulations, or executive orders have been identified.
- Other laws, environmental regulations, or executive orders include:

IV. Extraordinary Circumstances

Based on review of compliance with other environmental laws and Executive Orders, and in consideration of other environmental factors, review the project for extraordinary circumstances.

Note: A “Yes” under any circumstance may require the preparation of a stand-alone Environmental Assessment or Environmental Impact Statement.

Yes No

- (i) The scope is greater than normally experienced for the particular action being implemented.

Yes No

- | | | |
|--------------------------|--------------------------|--|
| <input type="checkbox"/> | <input type="checkbox"/> | (ii) The proposed action has a high level of controversy. |
| <input type="checkbox"/> | <input type="checkbox"/> | (iii) Potential for degradation, even though slight, of an already degraded condition. |
| <input type="checkbox"/> | <input type="checkbox"/> | (iv) Employment of unproven or unique technology. |
| <input type="checkbox"/> | <input type="checkbox"/> | (v) Presence of hazardous or toxic substances at levels which exceed Federal, state, or local regulations or standards. |
| <input type="checkbox"/> | <input type="checkbox"/> | (vi) Potential for adverse effects on health or safety. |
| <input type="checkbox"/> | <input type="checkbox"/> | (vii) Potential to violate federal, state, local, or tribal law. |
| <input type="checkbox"/> | <input type="checkbox"/> | (viii) Potential for significant cumulative impacts when the proposed action is combined with other past, present, and reasonably foreseeable future actions, even though the impacts of the proposed action may not be significant by themselves. |

V. Required Project Conditions

- No additional project conditions are required.
- Project conditions are required. (Include sub-heading and describe the required project conditions).

Based on this review and coordination with the resource agencies, no new significant impacts on the environment are anticipated. Consequently, it is not necessary to prepare an Environmental Impact Statement or new Environmental Assessment. This Record of Environmental Consideration is considered adequate NEPA documentation for this action because the proposed project impacts were adequately covered in the Programmatic NEPA document.