## Final Restoration Plan/Environmental Assessment for the East Helena Smelter Site in Lewis and Clark County, East Helena, Montana

In accordance with U.S. Department of the Interior (Department) policy regarding documentation for natural resource damage assessment and restoration projects (521 DM 3), the Authorized Official for the Department must demonstrate approval of draft and final Restoration Plans (RPs) and their associated environmental compliance documentation, with concurrence from the Department's Office of the Solicitor.

The Authorized Official for the East Helena Smelter Site is the Regional Director for the U.S. Fish and Wildlife Service in the Department's Unified Regions 5 and 7.

By the signatures below, the Final RP/EA is hereby approved.

Approved:

Noreen Walsh

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Department of Interior Unified Regions 5 and 7

Concurred:

Genette Gaffner

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**Environmental Restoration Branch** 

Office of the Solicitor

# FINAL RESTORATION PLAN AND ENVIRONMENTAL ASSESSMENT FOR THE EAST HELENA SMELTER SITE LEWIS AND CLARK COUNTY, EAST HELENA, MONTANA



Prepared by:

U.S. Department of the Interior

U.S. Fish and Wildlife Service

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## **Cover Photo**

 $Images\ of\ grassland,\ riparian,\ and\ stream\ areas\ along\ Prickly\ Pear\ Creek-photographs\ courtesy\ of\ the\ U.S.\ Fish\ and\ Wildlife\ Service.$ 

## List of Acronyms & Abbreviations

ASARCO American Smelting and Refining Company

BLM Bureau of Land Management

BMP Best Management Practice

CERCLA Comprehensive Environmental Response, Compensation, and Liability Act

DOI U.S. Department of the Interior

EA Environmental Assessment

EPA U.S. Environmental Protection Agency

ERA Ecological Risk Assessment

FONSI Finding of No Significant Impact

METG Montana Environmental Trust Group

MDEQ Montana Department of Environmental Quality

MT Montana

NEPA National Environmental Policy Act

NRDAR Natural Resource Damage Assessment and Restoration

NRDP Montana Department of Justice Natural Resource Damage Program

NRD Natural Resource Damages

RCRA Resource Conservation and Recovery Act (RCRA)

RP Restoration Plan

Service U.S. Fish and Wildlife Service

#### 1.0 - INTRODUCTION

The U.S. Fish and Wildlife Service (Service or Trustee), acting as a natural resource trustee on behalf of the U.S. Department of the Interior (DOI), has prepared this Final Restoration Plan and Environmental Assessment (Final RP/EA) for the East Helena Smelter Site (Site) pursuant to the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) of 1980, as amended, (42 U.S.C. § 9601 *et seq.*) and the CERCLA Natural Resource Damage Assessment and Restoration (NRDAR) regulations (43 C.F.R. Part 11). The Service initiated a NRDAR at the Site to determine and quantify injuries to natural resources and their services resulting from the releases of hazardous substances at and from the Site into the terrestrial and aquatic environment. As part of the NRDAR process, the natural resource trustee must also identify and select restoration actions that will compensate for the injuried resources and services and seek to recover compensation from the entity responsible for the injuries to natural resources and lost services.

The Site is located in west-central Montana in the City of East Helena in Lewis and Clark County (Figure 1). Lead smelting activities began at this location in 1888. Later zinc smelting activities began and both continued through April 2001. Site operations at the smelter released metals and other hazardous substances into the environment, resulting in high concentrations of metals in soil, sediment, surface water, and groundwater in the Helena Valley, including Prickly Pear Creek. Hazardous substances released at and from the Site include arsenic, cadmium, copper, lead, mercury, selenium, and zinc. Natural resources, including migratory birds, have been exposed to and adversely affected by these substances.

The Trustee prepared this Final RP/EA in accordance with CERCLA Section 111(i) and its implementing regulations, 43 C.F.R. § 11.93, to inform the public as to the types and scale of restoration to be undertaken to compensate for injuries to natural resources and ecological services lost due to releases of hazardous substances, including metals at and from the Site. Consistent with the CERCLA NRDAR regulations and the National Environmental Policy Act (NEPA), this Final RP/EA includes a reasonable number of restoration alternatives and identifies Selected Alternatives (Alternatives B & C). Public comments were sought on the Draft RP/EA.

#### 1.1 - Natural Resource Trustee and Authorities

This Final RP/EA was prepared pursuant to the authority of DOI acting in its capacity as a natural resource trustee under CERCLA; Subpart G of the National Oil and Hazardous Substances Contingency Plan (40 C.F.R. § 300.600); and the CERCLA NRDAR regulations (43 C.F.R. Part 11). The NRDAR process allows a natural resource trustee to pursue claims against a potentially responsible party for damages based on injuries to natural resources and their associated services in order to compensate the public for the loss of natural resources and their services. The goal of this process is to implement actions to restore, replace, or rehabilitate the natural resources that were injured or lost as a result of the release of a hazardous substance, or to acquire the equivalent resources or the services they provide. The scope of DOI's trusteeship is for natural resources, and

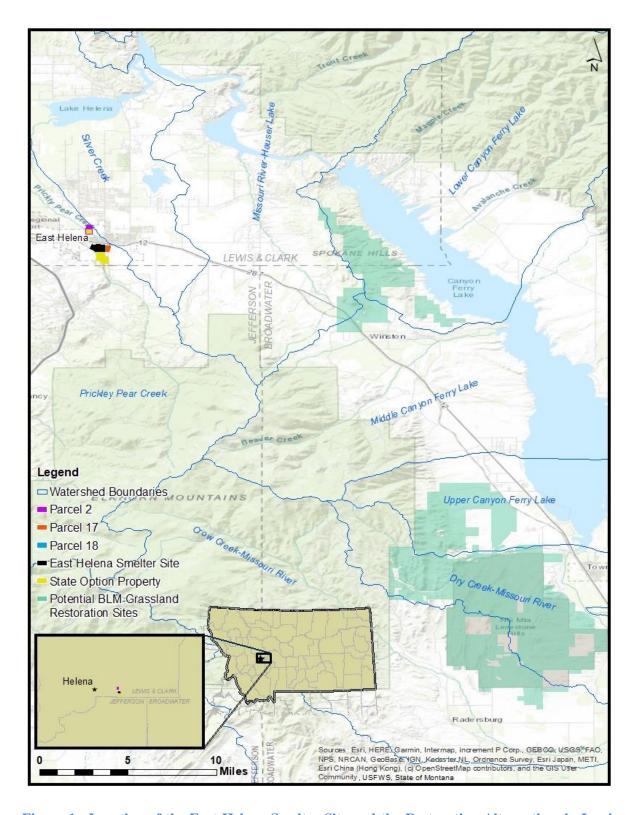


Figure 1. Location of the East Helena Smelter Site and the Restoration Alternatives in Lewis and Clark County, Montana.

their supporting ecosystems, belonging to, managed by, held in trust by, appertaining to, or otherwise controlled by DOI, such as migratory birds and endangered species, 40 C.F.R. § 300.600.

Additionally, the NEPA, 42 U.S.C. §. 4321 *et seq.*, applies to the actions in this Final RP/EA. NEPA applies to federal agency actions that affect the human environment. Federal agencies are obligated to comply with NEPA regulations adopted by the Council on Environmental Quality. NEPA requires that an EA be prepared in order to determine whether the restoration actions will have a significant effect on the quality of the human environment. If an impact is considered significant, then an Environmental Impact Statement is prepared. If the impact is considered not significant, then a Finding of No Significant Impact (FONSI) is issued. For a proposed CERCLA Restoration Plan, if a FONSI determination is made, the trustee may then issue a Final RP describing the selected restoration action(s). In accordance with NEPA and its implementing regulations, this Final RP/EA summarizes the current environmental setting; describes the purpose and need for restoration actions; identifies alternative actions; assesses their applicability and potential impact on the quality of the physical, biological, and cultural environment; and outlines public participation in the decision-making process.

Consistent with federal laws, the DOI is continuing to evaluate the selected restoration alternatives identified in this Final RP/EA for compliance with other applicable laws. For the Final RP/EA, other potentially applicable laws and regulations include:

- The Clean Water Act, 33 U.S.C. § 1251, et seq.
- The Endangered Species Act, 16 U.S.C. § 1531, et seq.
- National Historic Preservation Act of 1966, 16 U.S.C. § 470 et seq.

#### 1.2 - Site History and Description of Natural Resource Injuries

American Smelting and Refining Company (ASARCO) operated the East Helena Smelter to produce lead bullion and zinc oxide. Byproducts of the operation included sulfuric acid, matte (iron, copper, and lead oxides), and speiss (copper arsenides and antimodes). Prior to the 1970s, non-contact cooling water was continuously discharged into Prickly Pear Creek at a rate of over 2 million gallons per day. Effluent from washing of the speiss, as well as other process water, was also released into Prickly Pear Creek. In 1975, ASARCO ceased discharging effluent into Prickly Pear Creek (Montana Department of Health and Environmental Sciences, 1981). Aerial emissions from the smelting stacks caused widespread distribution of contaminants (lead and arsenic) in the Helena Valley. Hazardous substances released at and from the Site include arsenic, cadmium, copper, mercury, lead, selenium, and zinc. These contaminants have been identified as hazardous substances (40 CFR Part 302; Table 302.4) and are included in the definition of hazardous substances under § 9601 (14).

In September of 1984, the U. S. Environmental Protection Agency (EPA) added the Site to its National Priorities List of Superfund sites with uncontrolled hazardous waste. In 1998, EPA transferred remediation of the Site from CERCLA to the Resource Conservation and Recovery Act (RCRA) corrective action programs set forth in the RCRA Consent Decree entered into by EPA and ASARCO. ASARCO filed for bankruptcy in 2005. The Trustee of the Montana Environmental Custodial Trust (the Custodial Trust) was established in 2009 as part of the global ASARCO bankruptcy settlement.

The Custodial Trust's responsibilities include: owning and managing approximately 2,000 acres of property in East Helena once owned by ASARCO; holding and investing the funds set aside for clean-up of the former ASARCO smelter; cleaning up contamination in soils, sediments, and groundwater; facilitating site redevelopment; and, ultimately, selling or transferring the East Helena properties.

As part of the clean-up, EPA conducted a Supplemental ERA in 2003 (EPA 2005), which documented lead concentrations in soils that exceed concentrations known to be toxic to natural resources, including migratory birds. The Supplemental ERA for the Site states that soil lead concentrations exceeding 650 mg/kg may adversely impact passerine insectivores (EPA 2005). Cadmium and copper concentrations in site soils also exceeded the Ecological Soil Screening Levels. Based on the Service's trusteeship, the NRDAR focused on potential effects to migratory birds as a result of exposure to lead. Based on these sampling results, through the NRDAR, the Service determined 427 acres of land in and around the Site had lead concentrations high enough to injure migratory birds relying on those impacted grasslands (which include the East Fields, Dartman Fields, and Lamping Fields).

The State of Montana also brought and settled Natural Resource Damages (NRD) claims for injuries to resources under its trusteeship (40 C.F.R. 300.605), including surface water, soils, and groundwater, including the groundwater aquifer and river bed in the vicinity of the Site. In November 2019, the Montana Department of Justice, Natural Resource Damage Program (NRDP) released its Final Restoration Plan and Environmental Assessment Checklist to allocate the recovered restoration funds (NRDP 2019).

#### 1.3 - Relationship to Remediation and Other Restoration Activities

The Service coordinates with EPA and the Montana Environmental Trust Group (METG) on response actions at the Site. This coordination provides an understanding of the likely outcome of clean-up or other regulatory processes. The Service also has coordinated with the State of Montana, both on response actions and the state's NRDAR process, in developing the alternatives and in identifying the selected alternatives in this Final RP/EA. The restoration actions described in this Final RP/EA and in the Selected Alternatives are complementary to, but not duplicative of, the clean-up actions to clean up the Site and to restoration actions being contemplated/implemented by the State.

EPA has approved several clean-up activities over the last seven years to address more than a century of lead smelting that left extensive contamination in soil and groundwater at the Site. RCRA Corrective Action clean-up activities were implemented to reduce the off-site migration of contaminants in groundwater and to prevent exposure to contaminated soils. An Evapotranspirative Cover System was constructed over the entire smelter area, limiting the risk of human and ecological receptors being exposed to contaminated soils and preventing rainwater from leaching contaminants into groundwater. The natural, self-sustaining evapotranspirative cover also stores and sheds clean stormwater. Prickly Pear Creek was moved to a new meandering 1.25-mile-long creek channel with one-hundred acres of previously non-existent floodplain. The new floodplain provides riparian habitat and flood storage capacity to mitigate flooding in the downstream, flood-prone areas of East Helena.

#### 1.4 - Summary of Settlement

The United States, on behalf of DOI, settled potential claims for NRD at the Site with ASARCO. The East Helena NRD settlement was part of the 2009 ASARCO bankruptcy settlement, ASARCO paid \$706,000¹ to resolve its potential NRD liability to DOI at the Site. This Final RP/EA is programming all remaining funds to restore and rehabilitate habitat to support migratory birds.

#### 1.5 - Restoration Goals and Objectives / Purpose and Need for Restoration

The purpose of restoration is to return natural resources and the services provided by those natural resources to baseline condition, or the condition that would have existed had the injury not occurred, and to compensate the public for the loss of those natural resources over time. Restoration actions are often needed because the injured natural resources may not have the capacity to re-establish their functions within an ecosystem in a timely manner without human intervention. In addition to the cost of restoring resources to baseline condition, CERCLA authorizes trustees to recover compensation for the interim lost use of these natural resources between the date of injury and the date when restoration has been completed. Funds recovered for interim losses are used for additional restoration actions, including acquisition, rehabilitation, and/or replacement of natural resources (42 U.S.C. § 9607 (f)(l)).

The restoration goal for this project is to restore grassland and riparian habitats with an intact composition, structure, and functionality capable of supporting migratory bird species. Restored habitats would have similar diversity and relative abundance or density of grassland and riparian species between restoration and reference sites. The objective for this project is to attain grassland community plant measurements (e.g., native plant species richness and cover) progressing towards reference site condition within a 7 to 10 year measurement period.

#### 1.6 - Public Review and Participation

Public participation and review is an integral part of the restoration planning process, and is specifically required in the CERCLA NRDAR regulations (e.g., 43 C.F.R. §11.81(d)(2)). In addition, NEPA and its implementing regulations require that federal agencies fully consider the environmental impacts of their proposed decisions and that such information is made available to the public.

The Draft RP/EA was available for public comment and review for 30 days from the date of publication (August 22, 2019) in the Helena Independent Record [Helenair.com; (406) 447-4000]. One comment was received: it expressed support for Alternatives B and C, but requested assurances that the Alternative B final design would minimize potential flooding within the floodplain as Prickly Pear Creek flows under the bridge and through the culverts at Wylie Drive. The Trustee considered this comment and described in further detail the best management practices (BMPs) that would be

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<sup>&</sup>lt;sup>1</sup> These restoration funds were deposited into a segregated Custodial Trust NRD Account for the East Helena Site held by the Custodial Trust, where it has earned interest since 2009. In 2010, 2012, and 2015, the Service withdrew money to support its restoration planning, implementation and monitoring costs related to this Site. These withdrawals totaled \$25,000.

applied to the design and implementation of Alternative B (see Section 3.4) to address this concern. The Trustee may amend the Final RP/EA if significant changes are made to the type, scope, or impact of the projects. In the event of a significant modification to the Final RP/EA the Trustee will provide the public with an opportunity to comment on that particular amendment.

#### 2.0 - PROPOSED RESTORATION ALTERNATIVES

The Trustee considered several restoration alternatives to compensate for lost natural resources and associated services and evaluated each alternative against the project selection criteria described in this section.

#### 2.1 - Restoration Evaluation Criteria

CERCLA NRDAR regulations provide ten factors to consider when evaluating restoration alternatives (43 C.F.R. § 11.82(d)).

- 1. **Technical Feasibility:** Technology and management skills are well known and that each element of the alternative has a reasonable chance of successful completion in an acceptable period of time, 40 C.F.R. §.11.14 (qq).
- 2. **Cost Benefit Comparison:** The relationship between the expected benefits of the alternative versus the costs; the full range of costs and benefits should be considered, in terms of recovery of the resource and public use.
- 3. **Cost Effectiveness:** When two or more activities provide the same or a similar level of benefits, the least costly activity providing that level of benefits will be selected. 40 C.F.R. § 11.14(j).
- 4. **Results of Any Actual or Planned Response Actions:** The contribution of any action to clean up the site will be considered in the identification and evaluation of restoration alternatives.
- 5. **Potential for Additional Injury:** Whether a restoration alternative may cause further harm to injured natural resources or other resources including short-term, long-term and indirect impacts. Alternatives that avoid or minimize adverse impacts to the environment and natural resources are preferred.
- 6. **Natural Recovery Period:** Consideration of the time required for injured resources to recover if no action is taken.
- 7. **Ability of Resources to Recovery With or Without Restoration:** Whether the resource would be able to recover on its own versus the ability to recover associated with the preferred restoration alternative(s). Projects that restore, rehabilitate, replace, or acquire the equivalent of the same type of resources and services injured by the contamination are preferred to projects that benefit different resources or services.
- 8. **Adverse Effects to Public Health and Safety:** Whether an alternative would pose unacceptable risks to public health and safety.
- 9. Consistency with relevant federal, state, and tribal policies.
- 10. Compliance with applicable federal, state, and tribal laws.

The Trustee developed three additional evaluation criteria for the proposed alternatives for this Site. These additional criteria are not ranked in order of priority. The criteria are:

- **Relation to Injury:** Whether a restoration alternative would provide diverse habitat that would support a greater variety of migratory bird species, or that provide ancillary benefits to other resources or resource uses. An alternative that would provide more habitat diversity or multiple resource and service benefits is favored.
- **Location:** The geographic proximity of the alternative to the Site. An alternative that is located closer to the site of natural resource injury is favored.
- **Long-term Site Stewardship:** The existence of a responsible entity (e.g., local agency or conservation group) with the willingness and capacity to perform long-term protection and management of the restored site.

#### 2.2 - Restoration Alternatives Considered

The following subsections present a description of restoration alternatives identified and developed by the Trustee to benefit migratory birds consistent with the restoration goal discussed in Section 1.5. Table 1 provides a brief overview of each restoration alternative considered in this Final RP/EA. The Trustees evaluated the alternatives to determine if they provide sufficient type and quality of resources to compensate for those lost due to contamination in the context of both site-specific and Restoration Evaluation Criteria discussed above (43 C.F.R. § 11.82(d)) (Table 2). The Trustee also evaluated whether significant effects may be associated with the preferred and non-preferred alternatives to restore the natural resources injured or lost due to the releases of hazardous substances as required by NEPA (40 C.F.R. § 1508.9b).

Table 1. Brief Description of the Restoration Alternatives for the East Helena Smelter Site in Lewis and Clark County, Montana.

Alternative	Description
A: No Action/Natural Recovery	No projects implemented
B: Native Grassland and Wetland Restoration	Wetland, floodplain, and grassland habitat
Project along Prickly Pear Creek (Preferred)	improvements along Prickly Pear Creek
C: Native Grassland Restoration Project along	Grassland habitat improvements along Prickly
Prickly Pear Creek (Preferred)	Pear Creek
D: Restoration of Migratory Bird Habitat on	Grassland habitat improvements on federal
Federal Lands Near East Helena, MT	lands to the east of East Helena

#### 2.2.1 - Alternative A: No Action/Natural Recovery

Pursuant to CERCLA and NEPA, the Trustee considered a No Action alternative. Under this alternative, the Trustee would rely on natural recovery and would take no direct action to restore injured natural resources or compensate for interim lost natural resource services. This alternative would include the continuance of the response actions but would not include additional activities aimed at enhancing or restoring migratory birds. Under this alternative, no compensation would be provided for interim losses.

The Trustee found that the No Action alternative would not satisfy the Restoration Evaluation Criteria under CERCLA or the site-specific criteria. This Alternative would not compensate for injured resources and technically feasible and cost-effective restoration approaches are available to compensate for these losses. Therefore, the No Action Alternative is not a selected restoration alternative when evaluated against the Restoration Evaluation Criteria.

## 2.2.2 - Alternative B: Native Grassland and Wetland Restoration Project along Prickly Pear Creek (Selected)

Alternative B includes reshaping and revegetating an 80-acre parcel located along Prickly Pear Creek to the north of Kennedy Park and east of Wylie Drive in Helena, MT (Figure 2), also referred to as Parcel 2. This Alternative would occur after the completion of clean-up activities, which would consist of contaminated soil removal, mixing, and grading. The Alternative enhances wetland, and creates and enhances floodplain, and grassland habitats suitable for a variety of migratory bird species. Specifically, this Alternative would expand floodplain near Prickly Pear Creek to increase the area of ephemeral wetlands and to provide a greater diversity of habitat than currently exists for migratory bird use. Migratory birds would benefit from this project through improvements to key habitat requirements to increase migratory bird species richness, density, and abundance (Reynolds and Trost 1980; Reynolds and Trost 1981; Bradford et al. 1998).

Seeding and/or planting native vegetation that is consistent with surrounding areas for the benefit of migratory bird species would occur once clean-up activities are complete. Alternative B may also include educational signage related to migratory bird species along proposed trails through the Site (CTA Architects and Engineers 2016) (Note that the creation of trails on the Site is not included as part of this Alternative.) The location of the trail through this parcel was proposed in the Prickly Pear Creek Greenway (CTA Architects and Engineers 2016).

This Alternative also includes invasive and noxious plant species control on an annual basis for up to 5 years. Use of mechanical or chemical techniques, such as glyphosate (e.g., Roundup) and triclopyr (e.g., Garlon 3A), is anticipated to remove invasive plants. Following completion of site grading and establishment of vegetation, the restoration site would be placed under a deed restriction to ensure long-term stewardship for conservation purposes, and title would be transferred to a qualified land management entity.

The Trustee found this Alternative to provide the greatest benefits to migratory birds in relation to the costs of the restoration compared to the non-preferred alternatives. Alternative B more comprehensively addresses habitat issues that limit migratory bird use of the area by providing multiple habitat types, which benefits a wider variety of bird species.

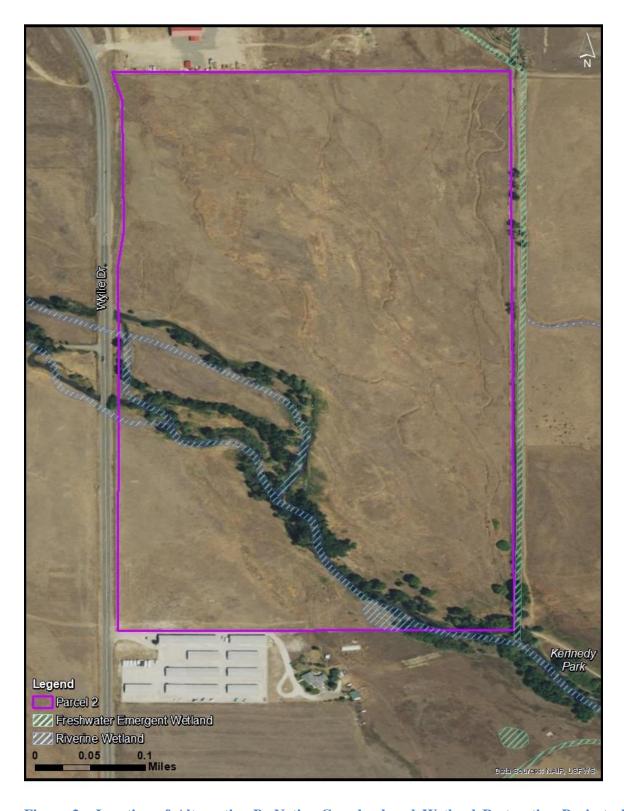


Figure 2. Location of Alternative B: Native Grassland and Wetland Restoration Project along Prickly Pear Creek in Lewis and Clark County, Montana.

#### 2.2.3 - Alternative C: Native Grassland Restoration Project along Prickly Pear Creek (Selected)

Alternative C considers removal of non-native grassland plants and revegetating land located along Prickly Pear Creek to the south of Highway 12 between Highway 518 and South Montana Avenue in East Helena, MT (Figure 3), also referred to as Parcel 17 and part of Parcel 18. This project would replace a crested wheatgrass (*Agropyron cristatum*)-dominated plant community with a native grassland community on up to 50 acres. The eastern portion of Parcel 17 may be sold for development along South Montana Avenue. Restoration actions will not be performed in these areas. Migratory birds would benefit from this project as described in Section 2.2.2 - Alternative B.

The parcel is currently dominated by the non-native, crested wheatgrass, which has been shown to decrease bird species richness and density (Reynolds and Trost 1980; Reynolds and Trost 1981). Native plants have difficulty establishing in crested wheatgrass communities due to a combination of high dispersal rate of its seeds and long-term dominance over and exclusion of native species, resulting in a near-monoculture of this dominant, non-native grass. Controlling crested wheatgrass would require suppression of seed production, removal of plants, and addition of native grass and forb seed (Henderson and Naeth 2005).

This Alternative would use mechanical (e.g., disking) and/or chemical (as described in section 2.2.2 - Alternative B) means to remove existing plant species (Hulet et al. 2010), followed by seeding and/or planting native vegetation that is consistent with surrounding areas for the benefit of migratory bird species. Multiple years of treatment may be required to further reduce the crested wheatgrass population.

This Alternative also includes monitoring and invasive and noxious plant species control on an annual basis for up to 5 years. The plant species control on the Site may require the use of mechanical or chemical techniques, such as glyphosate (e.g., Roundup) and triclopyr (e.g., Garlon 3A). Following the completion of plant establishment, the restoration site would be placed under a deed restriction to ensure long-term site stewardship and title would be transferred to a qualified land management entity. The deed restriction would allow for public access, and restrict commercial and/or residential development. Alternative C may also provide educational signage related to migratory bird species along proposed trails through the site that would be developed by another entity (CTA Architects and Engineers 2016).

The Trustee found this Alternative to be beneficial for migratory birds and technically feasible. Although only a single habitat type would be restored under this Alternative, which would benefit a less diverse collection of bird species than Alternative B, the contiguous nature of the habitat to be restored provides a high likelihood of success to restore migratory birds. In addition, the benefits in relation to the costs are appropriate.

# 2.2.4 - Alternative D: Restoration of Migratory Bird Habitat on Federal Lands near East Helena, MT

Alternative D includes removal of non-native and invasive plants, followed by revegetation with native plants on Bureau of Land Management (BLM) property located approximately eight to 31 miles east of East Helena, MT (Figure 4). Similar to Alternative C, this project would enhance existing

grassland habitat through mechanical (e.g., disking) and/or chemical (as described in section 2.2.2 - Alternative B) means to remove existing plant species for the benefit of migratory bird species. Multiple years of treatment may be required. Additionally, actions may be taken to remove encroaching vegetation, such as juniper (*Juniperus scopulorum*). Migratory birds would benefit from this project by increasing habitat used by migratory birds, resulting in increased species richness and density through the reduction in crested wheatgrass (Reynolds and Trost 1980; Reynolds and Trost 1981). Under this Alternative, the BLM would continue to manage the restored property consistent with the restoration goals as habitat for migratory birds and consistent with applicable land management plan(s).

The Trustee found this Alternative to be beneficial for migratory birds, however due to the single habitat type to be developed as well as the disparate locations for the restoration actions, the benefits in relation to the costs were less than the other restoration alternatives considered, thus the Trustees do not propose this as a preferred alternative.

#### 2.3 - Alternatives Considered, But Not Further Evaluated

The Trustee also considered two alternatives that were eliminated from further evaluation. These alternatives involved a treatment that would add phosphorus to lead-remediated soils to reduce bioavailability prior to wetland and grassland restoration. These alternatives would have modified Alternatives B and C to include this treatment on Parcels 2 and 17/18, respectively, along Prickly Pear Creek. The Trustee rejected the phosphorus addition treatment alternatives due to the potential of adverse effects of phosphorus loading to Lake Helena, which Prickly Pear Creek flows into. Both Prickly Pear Creek and Lake Helena are listed as impaired waterbodies and phosphorus is one of the water quality standards that is exceeded (MDEQ 2017). Thus, the addition of phosphorous to soils potentially could adversely affect water quality in both Prickly Pear Creek and Lake Helena, so no further evaluation was performed.



Figure 3. Location of Alternative C: Native Grassland Restoration Project along Prickly Pear Creek in Lewis and Clark County, Montana.

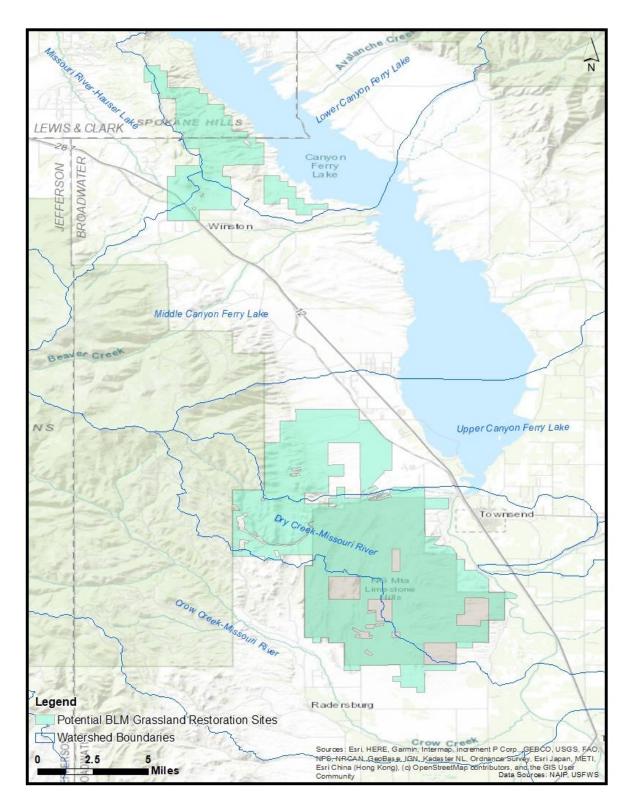


Figure 4. Location of Alternative D: Restoration of migratory bird habitat on federal lands in Lewis and Clark County, Montana.

Table 2. Evaluation of the Restoration Alternatives for the East Helena Smelter Site NRDAR, Lewis and Clark County, Montana.

ALTERNATIVE	DESCRIPTION	CRITERIA AND EVALUATION
A	No Action/Natural Recovery	<ol> <li>Technical Feasibility: Not applicable.</li> <li>Cost/Benefit: Not applicable.</li> <li>Cost Effectiveness: Not applicable.</li> <li>Likelihood of Success: Interim losses not compensated.</li> <li>Additional Injury: Additional interim loss would occur.</li> <li>Recovery Period: Decades.</li> <li>Recovery Ability: Limited, would require decades.</li> <li>Public Health and Safety: Not applicable.</li> <li>Policy Consistency: Fail. Restoration is feasible under CERCLA.</li> <li>Regulatory Compliance: Not applicable.</li> <li>Relation to Injury: Unknown.</li> <li>Geographic proximity: Not applicable.</li> <li>Long term Site Stewardship: Pass except for a portion of Parcel 2.</li> </ol>
B	Native Grassland and Wetland Restoration Project along Prickly Pear Creek (Selected)	<ol> <li>Technical Feasibility: High.</li> <li>Cost/Benefit: High.</li> <li>Cost Effectiveness: High.</li> <li>Likelihood of Success: High. Proven Technique.</li> <li>Additional Injury: Temporary impacts due to potential sediment releases to nearby Prickly Pear Creek.</li> <li>Recovery Period: High.</li> <li>Recovery Ability: High.</li> <li>Public Health and Safety: Pass.</li> </ol>

		9. Policy Consistency: Pass.
		10. Regulatory Compliance: Pass.
		11. Relation to Injury: High.
		12. Geographic proximity: Pass.
		13. Long Term Stewardship: Pass.
С	Native Grandand	1. Technical Feasibility: High.
	Grassland Restoration Project along	2. Cost/Benefit: Produces multiple benefits to aquatic fauna and injured resources at reasonable costs.
	Prickly Pear Creek	3. Cost Effectiveness: High.
	(Selected)	4. Likelihood of Success: High. Proven Technique.
		5. Additional Injury: Temporary impacts due to potential sediment releases to nearby Prickly Pear Creek.
		6. Recovery Period: Short.
		7. Recovery Ability: High.
		8. Public Health and Safety: Pass.
		9. Policy Consistency: Pass.
		10. Regulatory Compliance: Pass.
		11. Relation to Injury: Direct, moderate.
		12. Geographic proximity: Pass.
		13. Long Term Stewardship: Pass.
D	Restoration of	1. Technical Feasibility: High.
	Migratory Bird Habitat on	2. Cost/Benefit: Satisfactory.
	Federal Lands near East	3. Cost Effectiveness: Pass.
	Helena, MT	4. Likelihood of Success: High. Proven technique.
		5. Additional Injury: Negligible.
		6. Recovery Period: Immediate.

- 7. Recovery Ability: Not applicable.
- 8. Public Health and Safety: Low concern.
- 9. Policy Consistency: Pass.
- 10. Regulatory Compliance: Pass.
- 11. Relation to Injury. Direct. Moderate.
- 12. Geographic proximity: Pass. Farther than other alternatives considered.
- 13. Long Term Stewardship: Pass.

#### 3.0 ENVIRONMENTAL ASSESSMENT

In this section, the Service assesses the environmental consequences of Alternatives A, B, C, and D to determine whether implementation of any of these alternatives may significantly affect the quality of the human environment, particularly with respect to physical, biological, socio-economic, or cultural environments. Lastly, the Service makes a conclusion at the end of the evaluation for each alternative identifying whether it is a preferred alternative and whether it should be implemented in the event a FONSI is reached following the public comment period and publication of the Final RP/EA.

The following definitions will be used to characterize the nature of the various environmental consequences evaluated in this Final RP/EA:

- *Short-term or long-term impacts.* In general, short-term impacts are those that would occur only with respect to a particular activity or for a finite period. Long-term impacts are those that are more likely to be persistent and chronic.
- *Direct or indirect impacts.* A direct impact is caused by a proposed action and occurs contemporaneously at or near the location of the action. An indirect impact is caused by a proposed action and might occur later in time or farther removed in distance but still be a reasonably foreseeable outcome of the action.
- Negligible, minor, moderate, or major impacts. These relative terms are used to characterize the magnitude of an impact. Negligible impacts are generally not quantifiable and do not have perceptible impacts on the human environment. Minor impacts are generally those that might be perceptible but, in their context, are not amenable to measurement because of their relatively inconsequential effect. Moderate impacts are those that are more perceptible and, typically, more amenable to quantification or measurement. Major impacts are those that, in their context and due to their intensity (severity), have the potential to meet the thresholds for significance set forth under NEPA (40 C.F.R. § 1508.27) and, thus, warrant heightened attention and examination for potential means for mitigation to fulfill the requirements of NEPA.
- Adverse or beneficial impacts. An adverse impact is one having unfavorable or undesirable
  outcomes on the man-made or natural environment. A beneficial impact is one having
  positive outcomes on the man-made or natural environment. A single act might result in
  adverse impacts on one environmental resource and beneficial impacts on another resource.
- Cumulative impacts. Cumulative impacts are defined as the "impacts on the environment which result from the incremental impact of the action when added to other past, present, and reasonably foreseeable future actions regardless of what agency (federal or non-federal) or person undertakes such other actions" (40 C.F.R. § 1508.7). Cumulative impacts can result from individually minor but collectively significant actions taking place over a period of time within a geographic area.

#### 3.1. Affected Environment

This Final RP/EA evaluates restoration alternatives to compensate the public for the natural resource injuries resulting from exposure to hazardous substances. As part of the evaluation, the Trustee assessed the current physical, biological, socio-economic, and cultural resources of the area within which restoration is likely to occur (Figure 1) ("Affected Area"). This information will ensure that potential restoration projects are designed to maximize ecological benefits while minimizing or eliminating project-related adverse environmental consequences.

#### 3.1.1 - Physical and Biological Environment

The alternatives described in this plan occur within the Upper Missouri River Basin watershed. Alternatives B and C are located within the Prickly Pear Creek subwatershed. Alternative D is located within the Missouri River-Hauser Lake, Lower Canyon Ferry Lake, Middle Canyon Ferry Lake, Upper Canyon Ferry Lake, Dry Creek-Missouri River, and Crow Creek-Missouri River subwatersheds (Figure 1).

The region contains broad intermontane valleys that formed in Tertiary Sediments and Quaternary alluvial deposits derived from volcanic rocks, shale, and sandstone. Grasslands associated with this landscape include foothills prairie dominated by wheatgrass-gramma-needlegrass type (Nesser et al. 1997). Sagebrush steppe is also present. Common native grasses in the area include bluebunch wheatgrass (*Pseudoroegneria spicata*), Idaho fescue (*Festuca Idahoensis*), needle-and-thread grass (*Hesperostipa comata*), and blue grama (*Bouteloua gracilis*) (Barker and Whitman 1988). The most common native shrub is big sagebrush (*Artemisia tridentata*).

Grassland vegetation communities have been altered from historic (pre-settlement) conditions by a combination of management activities, including long-term fire suppression, noxious weed and nonnative plant presence, and livestock grazing. Grassland and shrubland habitats in the project area have undergone colonization (often referred to as encroachment) by conifers due to the interruption of the natural disturbance regime primarily by long-term fire suppression. Many acres of grasslands and shrublands within the region have been converted to woodlands as a result of colonization by juniper, Douglas-fir (Pseudotsuga menziesii), ponderosa pine (Pinus ponderosa), and limber pine (*Pinus flexilis*). As a result, these acres are outside the expected historic range of natural variability. In their current condition, they are less stable and more susceptible to damage from disturbance events like severe or uncharacteristically large-scale wildland fire, insect infestations, and weed species establishment. Additionally, they are apt to change to the extent that they could cross ecological thresholds, which would prevent these vegetation communities from returning to a condition within the expected range of variability and functionality without help from an outside influence (e.g., application of herbicides to control weed species, spreading native seed to establish early seral communities with desired species composition) (USDOI-BLM 2015). Free-flowing rivers and creeks in this area are home to a variety of fish species, including brook (Salvelinus fontinalis), brown (Salmo trutta), rainbow (Oncorhynchus mykiss), and westslope cutthroat (Oncorhynchus clarki lewisi) trout (MT FWP 2014).

Occurrence records for federally listed species in Lewis and Clark County include grizzly bear (*Ursus arctos horribilis*), Canada lynx (*Lynx Canadensis*), bull trout (*Salvelinus confluentus*), red knot (*Calidris* 

canutus rufa), wolverine (Gulo gulo luscus), and whitebark pine (Pinus albicaulis). No critical habitat for these species is designated on the restoration sites of the Preferred Alternatives and these species are unlikely to occur there due to the lack of desired habitat. Birds of Conservation Concern, or species protected by the Bald and Golden Eagle Protection Act potentially occurring on the properties include bald eagle (Haliaeetus leucocephalus), golden eagle (Aquila chrysaetos), lesser yellowlegs (Tringa flavipes), long-billed curlew (Numenius americanus), olive-sided flycatcher (Contopus cooperi), rufous hummingbird (Selasphorus rufus), and willet (Tringa semipalmata) (USFWS IPAC 2019). Federally listed species are slightly different in the project area for Alternative D, as portions of Broadwater County are also included. The red knot does not occur in the Alternative D project area, and additional listed species are whooping crane (Grus Americana) and a wetland plant species, the Ute-ladies' tresses (Spiranthes diluvialis) (USFWS IPAC 2019). Neither of these species are likely to occur in the project areas, and any areas likely to contain the Ute-ladies' tresses would be avoided.

#### 3.1.2 - Demographics

A summary of demographic data is provided in Table 3. In general, the proposed projects areas are rural, where agriculture, including pastured cattle, hay cropping, and timber, produce jobs for local populations. Areas of fastest growth are in commercial and services sectors along major road transportation corridors and larger cities.

Table 3.	<b>Project Are</b>	a Demog	raphics by	Montana	County.
I dole 5.	I I U I CCC I II C	u Dunios	Tabilies of	TATOMERIC	Country.

Demographic* Category	Lewis and Clark County	Broadwater County
Population (2018 estimate)	68,700	6,085
Minority Population**	5,908 (8.6% of total)	414 (6.8% of total)
Low Income Population	5,702 (8.3% of total)	596 (9.8% of total)
(estimate)***		
Households	31,793 (2.34 persons per	2,405 (2.37 persons per
	household)	household)
Population per square mile	19.6	4.9

<sup>\*</sup> Statistics generated using 2010 U.S. Census Bureau data, Vintage 2017 Population Estimates Program, 2017 Small Area Income and Poverty Estimates, and American Community Survey

#### 3.1.3 - Recreation

The Helena Valley is surrounded by U.S. Forest Service and BLM lands offering roads and trails for motorized and non-motorized recreation including: hiking, biking, horseback riding, backpacking, cross-country skiing, Off Highway Vehicle riding, and snowmobiling. Fishing, camping, and boating are possible on numerous local streams, lakes, and reservoirs.

#### 3.1.4 - Cultural and Historic Resources

Prior to the implementation of the selected projects, potential impacts to historic and archaeological resources will be reviewed. Section 106 of the National Historic Preservation Act requires federal agencies to consider the effects of Selected Alternatives on historic properties. Historic properties

<sup>\*\*</sup> State average is 13.8%

<sup>\*\*\*</sup> State average is 12.5% (estimate)

must also be given consideration under NEPA. The National Register of Historic Places is a federally-maintained list of districts, sites, buildings, structures, objects, and landscapes significant in American history, prehistory, architecture, archaeology, engineering, and culture. Archaeological sites are places where past peoples left physical evidence of their occupation. Sites may include ruins and foundations of historic-era buildings and structures. Native American cultural resources may include human skeletal remains, funerary items, sacred items, and objects of cultural patrimony. Historic properties can also include traditional cultural properties. Currently, there are no known cultural or historic resources within the boundaries of the proposed sites to be restored.

The Alternatives are located in the vicinity of the East Helena Smelter. In expectation of remedy and restoration activities on the Site, METG completed a Cultural Resource Inventory and Assessment on ASARCO residences in the Vicinity of the Smelter (Axline 2010). There were two resources eligible as historically significant: the Former ASARCO Manager's House and Assistant Manager's House. The Manager's House was destroyed by fire on August 24, 2012 and the Assistant Manager's House was torn down after compliance with applicable regulations. No known cultural or historic resources within the boundaries of the restoration sites were noted in the report, but the report was limited to structures. Consultation with the Montana State Historic Preservation Office is ongoing and will be completed prior to construction.

#### 3.2 - Components Not Affected or Not Analyzed in this Document

The following components, identified as not being present, affected, or analyzed, are not brought forward for additional analysis in this Final RP/EA:

- Social/Economic/Environmental Justice No social or economic impacts are expected from the proposed restoration projects because of the remote location and types of projects proposed. There are low-income populations near proposed project areas, but these populations will not be adversely affected due to the intended beneficial environmental outcomes of the projects and use of some of the areas for recreation. The restoration is not expected to add significantly to the existing traffic patterns and there are no existing traffic congestion issues in the area.
- Recreation Impacts to recreation are anticipated to be beneficial at project areas where public access will be allowed.
- Air and Climate Proposed activities, including operation of heavy construction equipment, are not expected to produce air pollutants at levels to exceed state air quality standards.

Table 4. Summary of Environmental Consequences for Alternatives A-D, East Helena Smelter Site NRDAR, Lewis and Clark County, Montana.

Resource	Alternative A	Alternative B	Alternative C	Alternative D	
Physical and Biological Resources					
Vegetation	No changes to existing vegetation communities.	Overall beneficial impacts to native wetland, floodplain, and grassland communities with shortterm direct impacts during construction	Overall beneficial impacts to native grassland communities with short term direct impacts during non-native species control	Overall beneficial impacts to native grassland communities with short-term direct impacts during non-native species control	
		and plant community establishment.	treatments and plant community establishment.	treatments and plant community establishment.	
Aquatic Resources and Water Quality	No changes to aquatic resources or water quality.	No changes in aquatic resources with appropriate BMPs to prevent movement of herbicides and sediment into waterways.	No changes in aquatic resources with appropriate BMPs to prevent movement of herbicides and sediment into waterways.	No changes to aquatic resources.	
Threatened and Endangered Species	No changes to threatened or endangered species.	No impacts known.	No impacts known.	No impacts known.	
		Cultural Resour	ces		
Cultural and Paleontological	None.	No impacts known. Trustee will coordinate with the Montana State Historic Preservation Office to complete Section 106 review.	No impacts known. Trustee will coordinate with the Montana State Historic Preservation Office to complete Section 106 review.	No impacts known. Trustee will coordinate with the Montana State Historic Preservation Office to complete Section 106 review.	

# 3.3 - Evaluation of Environmental Consequences for Alternative A: No Action/Natural Recovery

The No Action/Natural Recovery Alternatives would have no adverse or beneficial environmental consequences, as no project would be implemented.

# 3.4 - Evaluation of Environmental Consequences for Alternative B: Native Grassland and Wetland Restoration Project along Prickly Pear Creek (Preferred)

Overall, the long-term beneficial impacts are anticipated to outweigh any short-term adverse impacts, as described in Table 4. This alternative would result in improved wetland, floodplain, and grassland habitats. Restored land would be managed to ensure long-term protection of wildlife habitat, particularly resulting in beneficial impacts to migratory birds. During construction activities, appropriate BMPs (e.g., silt fencing, straw wattles) will be implemented to prevent any adverse impacts to Prickly Pear Creek from sediment entering the stream. None of the work would impact the current flow regime of Prickly Pear Creek. Management of non-native and invasive species may require herbicide application. Herbicide use for the control of invasive plants could cause direct, short-term, moderate, adverse impacts to geology and soils, water, air, threatened and endangered species, and land use and recreation. These impacts would result from the potential for lethal effects on soil biota and the short-term loss of shading and habitat for prey species provided by the invasive plant. The potential impacts to birds, aquatic organisms, and terrestrial organisms will be mitigated by the use of the least toxic herbicides, surfactants, and spray pattern indicators available, but sublethal impacts are possible. These include impacts to reproduction, survival to adulthood, and disrupted food webs (NMFS 2005). Potential impacts to non-target plant species are reduced when proper application methods are prescribed, but rainfall and wind may cause herbicides to leach into the surrounding soil or be transported to non-invasive plants, causing unintentional damage. A project area may be treated several times per year, often for multiple years, to control regrowth of the invasive plant species. Where feasible, the area will be regularly monitored for regrowth of the target or new invasive species. Generally, use of herbicides in project areas would be conducted according to established protocols for the locality, as determined by a licensed herbicide applicator. Such protocols would implement BMPs, which include applying information and guidelines for appropriate chemical to be used, timing, amounts, application methods, and safety procedures relevant to the herbicide application.

#### 3.4.1 - Conclusion on Alternative B

The Trustee anticipates this alternative to have primarily beneficial direct and indirect long-term impacts in the form of natural resource preservation and improved land management activities enhancing migratory birds. For these reasons, and those discussed in Section 2.2.2 above, Alternative B is a Preferred Alternative.

## 3.5 - Evaluation of Environmental Consequences for Alternative C: Native Grassland Restoration Project along Prickly Pear Creek (Preferred)

Overall, the long-term beneficial impacts are anticipated to outweigh any short-term adverse impacts, as described in Table 4. This Alternative would result in improved grassland habitat.

Restored land would be managed to ensure long-term protection of wildlife habitat, particularly resulting in beneficial impacts to migratory birds. During construction activities, appropriate BMPs (e.g., silt fencing) will be implemented to prevent any adverse impacts to Prickly Pear Creek. Management of non-native and invasive species may require herbicide application and is not expected to result in adverse impacts with appropriate BMPs in place to prevent movement of herbicide off-site (see Section 3.4).

#### 3.5.1 - Conclusion on Alternative C

The Trustee anticipates this alternative to have primarily beneficial direct and indirect long-term impacts in the form of natural resource preservation and improved land management activities enhancing migratory birds. For these reasons, and those discussed in Section 2.2.3, Alternative C is also a Selected Alternative. While this Alternative is selected, it may be only partially implemented or not implemented depending on the availability of funds only after Alternative B is implemented. The Trustee will make the public aware of the status of implementation of Alternative C upon implementation of Alternative B.

# 3.6 - Evaluation of Environmental Consequences for Alternative D: Restoration of Migratory Bird Habitat on Federal Lands near East Helena, MT

Overall, the long-term beneficial impacts are anticipated to outweigh any short-term adverse impacts, as described in Table 4. This alternative would result in improved grassland habitat. Restored land would be managed to ensure long-term protection of wildlife habitat, particularly resulting in beneficial impacts to migratory birds. Management of non-native and invasive species may require herbicide application and is not expected to result in adverse impacts with appropriate BMPs in place to prevent movement of herbicide off-site.

#### 3.6.1 - Conclusion on Alternative D

The Trustee anticipates this Alternative to have primarily beneficial direct and indirect long-term impacts in the form of natural resource preservation and improved land management activities enhancing migratory birds. For these reasons, and those discussed in Section 2.2.4, Alternative D is not a Selected Alternative. However, Alternative D could be implemented in the event Alternative B or C becomes infeasible for reasons not known at this time.

#### 3.7 - Cumulative Impacts

Cumulatively, the Selected Alternatives are anticipated to have a long-term and beneficial impact. Terrestrial habitats for migratory birds will be restored or enhanced after potential minor to moderate short-term impacts to terrestrial natural resources and adjacent water bodies (e.g., Prickly Pear Creek). Terrestrial wildlife habitat conditions will improve as a result of improved native plant cover. Water and sediment quality may also be enhanced as a result of the restored wetland vegetation.

The Service considered the effects of past, present, and future actions in the vicinity of these restoration projects to evaluate if their cumulative impacts on the elements described in Table

1Section 2.1 would result in overall negative consequences. Adjacent actions to these restoration projects are briefly described in Table 5.

The Preferred Alternatives are not expected to result in significant cumulative impacts on the human environment since alone, or in combination with other current and future activities in the vicinity, they would not change the larger current hydrological patterns of discharge in Prickly Pear Creek, recreational use, economic activity, or land-use in the proposed project areas. Future activities within the geographic area of the Preferred Alternatives, either completed by Trustee agencies or other organizations, agencies, or groups, will enhance habitat that exists naturally.

There are several environmental regulatory activities ongoing at the Site that in combination with the selected restoration activities described herein will provide additional cumulative benefits to the environment.

Table 5. Land Use Actions Adjacent to or Near the Selected Alternatives. East Helena Smelter Site NRDAR, Lewis and Clark County, Montana.

DESCRIPTION	ACTION
The East Helena Prickly Pear Elementary School was built on 50 acres of land donated by the METG and opened in 2018.	The portion of land closest to Parcel 2 (Alternative B) is planned to be developed by the East Helena Public Schools into athletic fields. These lands are undergoing clean-up at this time (scraping soils and mixing, to reduce soil lead levels).
Highland Meadow Subdivision development to the east of Parcel 2.	Oakland Companies, Billings, MT, purchased a 100-acre parcel of land from the METG and is creating a 319 single-family home subdivision. A small floodplain buffer separates the residential subdivision from Parcel 2 (Alternative B). Remediation of these lands is substantially complete.
Establishment of the Prickly Pear Creek Greenway Corridor between Montana City and the Helena Regional Airport.	Recommended actions set forth in a Feasibility Study within the Prickly Pear Creek Greenway Corridor will be implemented in phases to create a system of trails along Prickly Pear Creek from Montana City to the Helena Regional Airport (CTA Architects and Engineers 2016). The Custodial Trust has documented its support for the Greenway Project, subject to the required approvals for conveyance of Prickly Pear Creek Greenway Project lands and funding for environmental actions. The Montana NRDP Final Restoration Plan describes implementation for part of the trail network (NRDP 2019).
Montana NRDP Final Restoration Plan implementation.	This plan would propose groundwater, recreation, and instream/riparian restoration projects within the Prickly Pear Creek Watershed (NRDP 2019).

# 4.0 - MONITORING, PERFORMANCE CRITERIA, AND ADAPTIVE MANAGEMENT

#### 4.1 - Monitoring and Adaptive Management

Monitoring will assess whether riparian and grassland habitats are sufficiently restored to meet restoration goals and objectives for migratory birds and if species of interest are occupying habitat enhancement areas. A project-specific monitoring plan will be developed to evaluate the long-term impacts of planned restoration actions. The monitoring plan will include performance standards and criteria, as well as a sampling and analysis plan, and a schedule for the frequency and duration of monitoring. Restoration goals will be guided by performance criteria, or measures that assess the progress of restoration sites. In this way, the Trustee will be able to determine if the restoration areas are on target, and if not, what actions and course corrections are needed to achieve restoration goals. Monitoring information may also be used by the Trustee as an outreach tool to illustrate to the public continued progress over time (quantitatively and qualitatively).

### LIST OF PREPARERS

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# APPENDIX A: CONSULTATION AND COMPLIANCE DOCUMENTATION

## Intra-Service Section 7 Biological Evaluation Form - Region 6

Originating Person:	David Rousea	Date Submitted:	8/22/2019
B			

Telephone Number: 406.449.5225 x 211

- I.a Service Program and Geographic Area or Station Name: Natural Resource Damage Assessmenta and Restoration Asarco Settlement Restoration Projecta
- II. Flexible Funding Program (e.g. Joint Venture, etc) if applicable: NRDAR Asarco East Helena Fund
- III. Location: Location of the project including County, State and TSR (township, section & range): Lewis and Clark County, East Helena Montana, See Attached IPaC map.
- IV Species/Critical Habitat: List federally endangered, threatened, proposed, and candidate species or designated or proposed critical habitat that may occur within the action area. To obtain species lists: <a href="http://ecos.fws.gov/ipac/">http://ecos.fws.gov/ipac/</a>

Occurrence records for federally listed, proposed, and candidate species in Lewis and Clark County include Grizzly Bear (Ursus arctos horribilis), Canada Lynx (Lynx canadensis), Bull Trout (Salvelinus confluentus), Red Knot (Calidris canutus rufa), Wolverine (Gulo gulo luscus), and Whitebark Pine (Pinus albicaulis). The FWS IPaC system indicates that the threatened Canada lynx, threatened grizzly bear, and the proposed threatened wolverine may be present in the project area. However, the action area occurs within an urban (residential) converted grassland valley environment and provides no habitat for listed, proposed, or candidate species. No designated or proposed critical habitat occurs within several miles of the project. Consequently, no proposed or listed threatened or endangered species or candidate species use is anticipated in the action area.

**Project Description:** Describe proposed project or action or, if referencing other documents, prepare an executive summary (attach additional pages as needed):

The Restoration Plans preferred Alternative includes reshaping and revegetating an 80-acre parcel located along Prickly Pear Creek to the north of Kennedy Park and east of Wylie Drive in Helena, MT, also referred to as Parcel 2. This Alternative would occur after the completion of clean-up activities, which would consist of contaminated soil removal, mixing, and grading. The Alternative enhances wetland, and creates and enhances floodplain, and grassland habitats suitable for a variety of migratory bird species. Specifically, this Alternative would expand floodplain near Prickly Pear Creek to increase the area of ephemeral wetlands and to provide a greater diversity of habitat than currently exists for migratory bird use. Migratory birds would benefit from this project through improvements to key habitat requirements to increase migratory bird species richness, density, and abundance (Reynolds and Trost 1980; Reynolds and Trost 1981; Bradford et al. 1998).

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#### VI. Determination of Effects:

(A) Description of Effects: Describe the action(s) that may affect the species and critical habitats listed in item IV. Your <u>rationale for the Section 7 determinations</u> made below (B) should be fully described here.

The preferred alternative also includes invasive and noxious plant species control on an annual basis for up to 5 years. Use of mechanical or chemical techniques, such as glyphosate (e.g., Roundup) and triclopyr (e.g., Garlon 3A), is anticipated to remove invasive plants. Following completion of site grading and establishment of vegetation, the restoration site would be placed under a conservation easement to ensure long-term stewardship for conservation purposes, and title would be transferred to a qualified land management entity.

The action area occurs within an urban (residential) converted grassland valley environment and provides no habitat for listed, proposed, or candidate species. No designated or proposed critical habitat occurs within several miles of the project. No proposed or listed threatened or endangered species or candidate species use is anticipated in the action area. The proposed project is expected to have no effect on grizzly bear, Canada lynx, red knot, bull trout, wolverine, or whitebark pine.

Revised 1/2012

(B) Determination: Determine the anticipated effects of the proposed project on species and critical habitats listed in item IV. Check all applicable boxes and list the species (or attach a list) associated with each determination. Determination No Effect: Bull trout (Salvelinus confluentus) Grizzly Bear (Ursus arctos horribilis) Canada Lynx (Lynx canadensis) Red Knot (Calidris canutus rufa) Wolverine (Gulo gulo luscus) Whitebark Pine (Pinus albicaulis) This determination is appropriate when the proposed project will not directly or indirectly affect (neither negatively nor beneficially) X individuals of listed/proposed/candidate species or designated/proposed critical habitat of such species. No concurrence from ESFO required. May Affect but Not Likely to Adversely Affect: This determination is appropriate when the proposed project is likely to cause insignificant, discountable, or wholly beneficial effects to individuals of listed species and/or designated critical habitat. Concurrence from ESFO required. May Affect and Likely to Adversely Affect: This determination is appropriate when the proposed project is likely to adversely impact individuals of listed species and/or designated critical habitat. Formal consultation with ESFO required. May Affect and Likely to Adversely Affect but the proposed action is for the purpose of endangered or threatened species recovery and falls under Region 6's Programmatic Consultation on Service-initiated Recovery Actions: This determination is appropriate when adverse effects are likely but the project is designed to assist with recovery of listed species and/or designated critical habitat. Concurrence from the ESFO that the project is covered by the programmatic consultation is required. May affect but Not Likely to Jeopardize candidate or proposed species/critical habitat; This determination is appropriate when the proposed project may affect, but is not expected to jeopardize the continued existence of a species proposed for listing or a candidate species, or adversely modify an area proposed for designation as critical habitat. Concurrence from ESFO optional.

Likely to Jeopardize candidate or proposed species/critical habitat:

This determination is appropriate when the proposed project is reasonably expected to jeopardize the continued existence of a species proposed for listing or a candidate species, or adversely modify an area proposed for

designation as critical habitat. Conferencing with ESFO required.

Signature Welson Date 1/30/1 [Supervisor at originating station]	1
Reviewing Ecological Services Office Evaluation (check all that apply):  A. Concurrence Nonconcurrence Explanation for nonconcurrence:	
B. Formal consultation required List species or critical habitat unit	
C. Effects are addressed in the Programmatic Consultation on R6's Recovery Program – no further consultation needed	
D. Conference required List species or critical habitat unit	
Name of Reviewing ES Office Manager	Esoffin
Signature Date	1/30/19

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IPaC Information for Planning and Consultation U.S. Fish & Wildlife Service

## IPaC resource list

This report is an automatically generated list of species and other resources such as critical habitat (collectively referred to as *trust resources*) under the U.S. Fish and Wildlife Service's (USFWS) jurisdiction that are known or expected to be on or near the project area referenced below. The list may also include trust resources that occur outside of the project area, but that could potentially be directly or indirectly affected by activities in the project area. However, determining the likelihood and extent of effects a project may have on trust resources typically requires gathering additional site-specific (e.g., vegetation/species surveys) and project-specific (e.g., magnitude and timing of proposed activities) information.

Below is a summary of the project information you provided and contact information for the USFWS office(s) with jurisdiction in the defined project area. Please read the introduction to each section that follows (Endangered Species, Migratory Birds, USFWS Facilities, and NWI Wetlands) for additional information applicable to the trust resources addressed in that section.

### Location





## Local office

Montana Ecological Services Field Office

**\( (406) 449-5225** 

**(406)** 449-5339

585 Shephard Way, Suite 1 Helena, MT 59601-6287 IPaC: Explore Location Page 2 of 11

## **Endangered species**

This resource list is for informational purposes only and does not constitute an analysis of project level impacts.

The primary information used to generate this list is the known or expected range of each species. Additional areas of influence (AOI) for species are also considered. An AOI includes areas outside of the species range if the species could be indirectly affected by activities in that area (e.g., placing a dam upstream of a fish population, even if that fish does not occur at the dam site, may indirectly impact the species by reducing or eliminating water flow downstream). Because species can move, and site conditions can change, the species on this list are not guaranteed to be found on or near the project area. To fully determine any potential effects to species, additional site-specific and project-specific information is often required.

Section 7 of the Endangered Species Act **requires** Federal agencies to "request of the Secretary information whether any species which is listed or proposed to be listed may be present in the area of such proposed action" for any project that is conducted, permitted, funded, or licensed by any Federal agency. A letter from the local office and a species list which fulfills this requirement can **only** be obtained by requesting an official species list from either the Regulatory Review section in IPaC (see directions below) or from the local field office directly.

For project evaluations that require USFWS concurrence/review, please return to the IPaC website and request an official species list by doing the following:

- 1. Draw the project location and click CONTINUE
- 2. Click DEFINE PROJECT.
- 3. Log in (if directed to do so).
- 4. Provide a name and description for your project.
- 5. Click REQUEST SPECIES LIST.

#### Listed species

<sup>1</sup> and their critical habitats are managed by the <u>Ecological Services Program</u> of the U.S. Fish and Wildlife Service (USFWS) and the fisheries division of the National Oceanic and Atmospheric Administration (NOAA Fisheries<sup>2</sup>).

Species and critical habitats under the sole responsibility of NOAA Fisheries are **not** shown on this list. Please contact <u>NOAA Fisheries</u> for <u>species under their jurisdiction</u>.

- Species listed under the <u>Endangered Species Act</u> are threatened or endangered; IPaC also shows species that are candidates, or proposed, for listing. See the <u>listing status page</u> for more information.
- 2. <u>NOAA Fisheries</u>, also known as the National Marine Fisheries Service (NMFS), is an office of the National Oceanic and Atmospheric Administration within the Department of Commerce.

The following species are potentially affected by activities in this location:

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### **Mammals**

NAME STATUS

Canada Lynx Lynx canadensis

Threatened

There is **final** critical habitat for this species. Your location is outside the critical habitat.

https://ecos.fws.gov/ecp/species/3652

Grizzly Bear Ursus arctos horribilis

**Threatened** 

There is **proposed** critical habitat for this species. The location of the critical habitat is not available.

https://ecos.fws.gov/ecp/species/7642

North American Wolverine Gulo gulo luscus

No critical habitat has been designated for this species.

https://ecos.fws.gov/ecp/species/5123

**Proposed Threatened** 

### Critical habitats

Potential effects to critical habitat(s) in this location must be analyzed along with the endangered species themselves.

THERE ARE NO CRITICAL HABITATS AT THIS LOCATION.

## Migratory birds

Certain birds are protected under the Migratory Bird Treaty Act

<sup>1</sup> and the Bald and Golden Eagle Protection Act<sup>2</sup>.

Any person or organization who plans or conducts activities that may result in impacts to migratory birds, eagles, and their habitats should follow appropriate regulations and consider implementing appropriate conservation measures, as described <u>below</u>.

- 1. The Migratory Birds Treaty Act of 1918.
- 2. The Bald and Golden Eagle Protection Act of 1940.

Additional information can be found using the following links:

- Birds of Conservation Concern <a href="http://www.fws.gov/birds/management/managed-species/birds-of-conservation-concern.php">http://www.fws.gov/birds/management/managed-species/birds-of-conservation-concern.php</a>
- Measures for avoiding and minimizing impacts to birds
   http://www.fws.gov/birds/management/project-assessment-tools-and-guidance/conservation-measures.php
- Nationwide conservation measures for birds
   http://www.fws.gov/migratorybirds/pdf/management/nationwidestandardconservationmeasures.pdf

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The birds listed below are birds of particular concern either because they occur on the <u>USFWS Birds of Conservation Concern</u> (BCC) list or warrant special attention in your project location. To learn more about the levels of concern for birds on your list and how this list is generated, see the FAQ <u>below</u>. This is not a list of every bird you may find in this location, nor a guarantee that every bird on this list will be found in your project area. To see exact locations of where birders and the general public have sighted birds in and around your project area, visit the <u>E-bird data mapping tool</u> (Tip: enter your location, desired date range and a species on your list). For projects that occur off the Atlantic Coast, additional maps and models detailing the relative occurrence and abundance of bird species on your list are available. Links to additional information about Atlantic Coast birds, and other important information about your migratory bird list, including how to properly interpret and use your migratory bird report, can be found <u>below</u>.

For guidance on when to schedule activities or implement avoidance and minimization measures to reduce impacts to migratory birds on your list, click on the PROBABILITY OF PRESENCE SUMMARY at the top of your list to see when these birds are most likely to be present and breeding in your project area.

NAME

BREEDING SEASON (IF A
BREEDING SEASON IS INDICATED
FOR A BIRD ON YOUR LIST, THE
BIRD MAY BREED IN YOUR
PROJECT AREA SOMETIME WITHIN
THE TIMEFRAME SPECIFIED,
WHICH IS A VERY LIBERAL
ESTIMATE OF THE DATES INSIDE
WHICH THE BIRD BREEDS ACROSS
ITS ENTIRE RANGE. "BREEDS
ELSEWHERE" INDICATES THAT
THE BIRD DOES NOT LIKELY
BREED IN YOUR PROJECT AREA.)

#### Bald Eagle Haliaeetus leucocephalus

This is not a Bird of Conservation Concern (BCC) in this area, but warrants attention because of the Eagle Act or for potential susceptibilities in offshore areas from certain types of development or activities.

RCON

https://ecos.fws.gov/ecp/species/1626

Breeds Jan 1 to Aug 31

#### Golden Eagle Aquila chrysaetos

This is not a Bird of Conservation Concern (BCC) in this area, but warrants attention because of the Eagle Act or for potential susceptibilities in offshore areas from certain types of development or activities.

https://ecos.fws.gov/ecp/species/1680

Breeds Jan 1 to Aug 31

#### Lesser Yellowlegs Tringa flavipes

This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.

https://ecos.fws.gov/ecp/species/9679

Breeds elsewhere

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Long-billed Curlew Numenius americanus

This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.

https://ecos.fws.gov/ecp/species/5511

Breeds Apr 1 to Jul 31

Olive-sided Flycatcher Contopus cooperi

This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.

https://ecos.fws.gov/ecp/species/3914

Breeds May 20 to Aug 31

Rufous Hummingbird selasphorus rufus

This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.

https://ecos.fws.gov/ecp/species/8002

Breeds Apr 15 to Jul 15

Willet Tringa semipalmata

This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.

Breeds Apr 20 to Aug 5

## **Probability of Presence Summary**

The graphs below provide our best understanding of when birds of concern are most likely to be present in your project area. This information can be used to tailor and schedule your project activities to avoid or minimize impacts to birds. Please make sure you read and understand the FAQ "Proper Interpretation and Use of Your Migratory Bird Report" before using or attempting to interpret this report.

#### Probability of Presence (

Each green bar represents the bird's relative probability of presence in the 10km grid cell(s) your project overlaps during a particular week of the year. (A year is represented as 12 4-week months.) A taller bar indicates a higher probability of species presence. The survey effort (see below) can be used to establish a level of confidence in the presence score. One can have higher confidence in the presence score if the corresponding survey effort is also high.

How is the probability of presence score calculated? The calculation is done in three steps:

- 1. The probability of presence for each week is calculated as the number of survey events in the week where the species was detected divided by the total number of survey events for that week. For example, if in week 12 there were 20 survey events and the Spotted Towhee was found in 5 of them, the probability of presence of the Spotted Towhee in week 12 is 0.25.
- 2. To properly present the pattern of presence across the year, the relative probability of presence is calculated. This is the probability of presence divided by the maximum probability of presence across all weeks. For example, imagine the probability of presence in week 20 for the Spotted Towhee is 0.05, and that the probability of presence at week 12 (0.25) is the maximum of any week of the year. The relative probability of presence on week 12 is 0.25/0.25 = 1; at week 20 it is 0.05/0.25 = 0.2.

3. The relative probability of presence calculated in the previous step undergoes a statistical conversion so that all possible values fall between 0 and 10, inclusive. This is the probability of presence score.

To see a bar's probability of presence score, simply hover your mouse cursor over the bar.

#### Breeding Season (=)

Yellow bars denote a very liberal estimate of the time-frame inside which the bird breeds across its entire range. If there are no yellow bars shown for a bird, it does not breed in your project area.

#### Survey Effort (1)

Vertical black lines superimposed on probability of presence bars indicate the number of surveys performed for that species in the 10km grid cell(s) your project area overlaps. The number of surveys is expressed as a range, for example, 33 to 64 surveys.

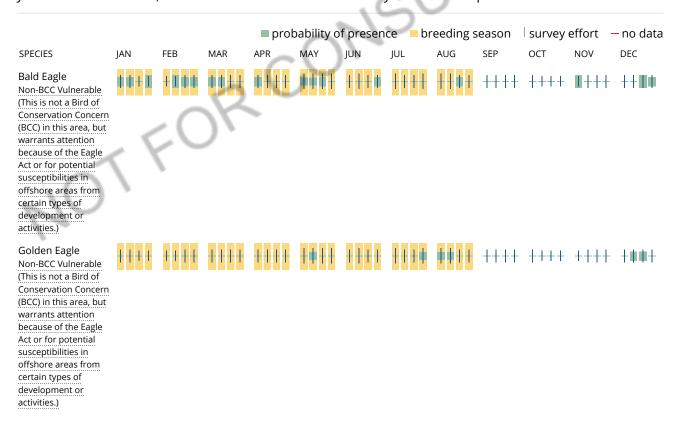
To see a bar's survey effort range, simply hover your mouse cursor over the bar.

#### No Data (-)

A week is marked as having no data if there were no survey events for that week

#### **Survey Timeframe**

Surveys from only the last 10 years are used in order to ensure delivery of currently relevant information. The exception to this is areas off the Atlantic coast, where bird returns are based on all years of available data, since data in these areas is currently much more sparse.





#### Tell me more about conservation measures I can implement to avoid or minimize impacts to migratory birds.

Nationwide Conservation Measures describes measures that can help avoid and minimize impacts to all birds at any location year round. Implementation of these measures is particularly important when birds are most likely to occur in the project area. When birds may be breeding in the area, identifying the locations of any active nests and avoiding their destruction is a very helpful impact minimization measure. To see when birds are most likely to occur and be breeding in your project area, view the Probability of Presence Summary. Additional measures and/or permits may be advisable depending on the type of activity you are conducting and the type of infrastructure or bird species present on your project site.

#### What does IPaC use to generate the migratory birds potentially occurring in my specified location?

The Migratory Bird Resource List is comprised of USFWS <u>Birds of Conservation Concern (BCC)</u> and other species that may warrant special attention in your project location.

The migratory bird list generated for your project is derived from data provided by the <u>Avian Knowledge Network</u> (<u>AKN</u>). The AKN data is based on a growing collection of <u>survey</u>, <u>banding</u>, <u>and citizen science datasets</u> and is queried and filtered to return a list of those birds reported as occurring in the 10km grid cell(s) which your project intersects,

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and that have been identified as warranting special attention because they are a BCC species in that area, an eagle (<u>Eagle Act</u> requirements may apply), or a species that has a particular vulnerability to offshore activities or development.

Again, the Migratory Bird Resource list includes only a subset of birds that may occur in your project area. It is not representative of all birds that may occur in your project area. To get a list of all birds potentially present in your project area, please visit the <u>AKN Phenology Tool</u>.

## What does IPaC use to generate the probability of presence graphs for the migratory birds potentially occurring in my specified location?

The probability of presence graphs associated with your migratory bird list are based on data provided by the <u>Avian Knowledge Network (AKN)</u>. This data is derived from a growing collection of <u>survey</u>, <u>banding</u>, <u>and citizen science datasets</u>.

Probability of presence data is continuously being updated as new and better information becomes available. To learn more about how the probability of presence graphs are produced and how to interpret them, go the Probability of Presence Summary and then click on the "Tell me about these graphs" link.

#### How do I know if a bird is breeding, wintering, migrating or present year-round in my project area?

To see what part of a particular bird's range your project area falls within (i.e. breeding, wintering, migrating or year-round), you may refer to the following resources: The Cornell Lab of Ornithology All About Birds Bird Guide, or (if you are unsuccessful in locating the bird of interest there), the Cornell Lab of Ornithology Neotropical Birds guide. If a bird on your migratory bird species list has a breeding season associated with it, if that bird does occur in your project area, there may be nests present at some point within the timeframe specified. If "Breeds elsewhere" is indicated, then the bird likely does not breed in your project area.

#### What are the levels of concern for migratory birds?

Migratory birds delivered through IPaC fall into the following distinct categories of concern:

- 1. "BCC Rangewide" birds are <u>Birds of Conservation Concern</u> (BCC) that are of concern throughout their range anywhere within the USA (including Hawaii, the Pacific Islands, Puerto Rico, and the Virgin Islands);
- 2. "BCC BCR" birds are BCCs that are of concern only in particular Bird Conservation Regions (BCRs) in the continental USA; and
- 3. "Non-BCC Vulnerable" birds are not BCC species in your project area, but appear on your list either because of the <u>Eagle Act</u> requirements (for eagles) or (for non-eagles) potential susceptibilities in offshore areas from certain types of development or activities (e.g. offshore energy development or longline fishing).

Although it is important to try to avoid and minimize impacts to all birds, efforts should be made, in particular, to avoid and minimize impacts to the birds on this list, especially eagles and BCC species of rangewide concern. For more information on conservation measures you can implement to help avoid and minimize migratory bird impacts and requirements for eagles, please see the FAQs for these topics.

#### Details about birds that are potentially affected by offshore projects

For additional details about the relative occurrence and abundance of both individual bird species and groups of bird species within your project area off the Atlantic Coast, please visit the Northeast Ocean Data Portal. The Portal also offers data and information about other taxa besides birds that may be helpful to you in your project review. Alternately, you may download the bird model results files underlying the portal maps through the NOAA NCCOS Integrative Statistical Modeling and Predictive Mapping of Marine Bird Distributions and Abundance on the Atlantic Outer Continental Shelf project webpage.

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Bird tracking data can also provide additional details about occurrence and habitat use throughout the year, including migration. Models relying on survey data may not include this information. For additional information on marine bird tracking data, see the <u>Diving Bird Study</u> and the <u>nanotag studies</u> or contact <u>Caleb Spiegel</u> or <u>Pam Loring</u>.

#### What if I have eagles on my list?

If your project has the potential to disturb or kill eagles, you may need to <u>obtain a permit</u> to avoid violating the Eagle Act should such impacts occur.

#### Proper Interpretation and Use of Your Migratory Bird Report

The migratory bird list generated is not a list of all birds in your project area, only a subset of birds of priority concern. To learn more about how your list is generated, and see options for identifying what other birds may be in your project area, please see the FAQ "What does IPaC use to generate the migratory birds potentially occurring in my specified location". Please be aware this report provides the "probability of presence" of birds within the 10 km grid cell(s) that overlap your project; not your exact project footprint. On the graphs provided, please also look carefully at the survey effort (indicated by the black vertical bar) and for the existence of the "no data" indicator (a red horizontal bar). A high survey effort is the key component. If the survey effort is high, then the probability of presence score can be viewed as more dependable. In contrast, a low survey effort bar or no data bar means a lack of data and, therefore, a lack of certainty about presence of the species. This list is not perfect; it is simply a starting point for identifying what birds of concern have the potential to be in your project area, when they might be there, and if they might be breeding (which means nests might be present). The list helps you know what to look for to confirm presence, and helps guide you in knowing when to implement conservation measures to avoid or minimize potential impacts from your project activities, should presence be confirmed. To learn more about conservation measures, visit the FAQ "Tell me about conservation measures I can implement to avoid or minimize impacts to migratory birds" at the bottom of your migratory bird trust resources page.

## **Facilities**

## National Wildlife Refuge lands

Any activity proposed on lands managed by the <u>National Wildlife Refuge</u> system must undergo a 'Compatibility Determination' conducted by the Refuge. Please contact the individual Refuges to discuss any questions or concerns.

THERE ARE NO REFUGE LANDS AT THIS LOCATION.

### Fish hatcheries

THERE ARE NO FISH HATCHERIES AT THIS LOCATION.

## Wetlands in the National Wetlands Inventory

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Impacts to <u>NWI wetlands</u> and other aquatic habitats may be subject to regulation under Section 404 of the Clean Water Act, or other State/Federal statutes.

For more information please contact the Regulatory Program of the local <u>U.S. Army Corps of Engineers</u> <u>District</u>.

Please note that the NWI data being shown may be out of date. We are currently working to update our NWI data set. We recommend you verify these results with a site visit to determine the actual extent of wetlands on site.

This location overlaps the following wetlands:

FRESHWATER EMERGENT WETLAND

PEM1Cx

**RIVERINE** 

R2UBG

R2USA

**R5UBFx** 

R5UBH

A full description for each wetland code can be found at the National Wetlands Inventory website

#### **Data limitations**

The Service's objective of mapping wetlands and deepwater habitats is to produce reconnaissance level information on the location, type and size of these resources. The maps are prepared from the analysis of high altitude imagery. Wetlands are identified based on vegetation, visible hydrology and geography. A margin of error is inherent in the use of imagery; thus, detailed on-the-ground inspection of any particular site may result in revision of the wetland boundaries or classification established through image analysis.

The accuracy of image interpretation depends on the quality of the imagery, the experience of the image analysts, the amount and quality of the collateral data and the amount of ground truth verification work conducted. Metadata should be consulted to determine the date of the source imagery used and any mapping problems.

Wetlands or other mapped features may have changed since the date of the imagery or field work. There may be occasional differences in polygon boundaries or classifications between the information depicted on the map and the actual conditions on site.

#### Data exclusions

Certain wetland habitats are excluded from the National mapping program because of the limitations of aerial imagery as the primary data source used to detect wetlands. These habitats include seagrasses or submerged aquatic vegetation that are found in the intertidal and subtidal zones of estuaries and nearshore coastal waters. Some deepwater reef communities (coral or tuberficid worm reefs) have also been excluded from the inventory. These habitats, because of their depth, go undetected by aerial imagery.

#### **Data precautions**

Federal, state, and local regulatory agencies with jurisdiction over wetlands may define and describe wetlands in a different manner than that used in this inventory. There is no attempt, in either the design or products of this inventory, to define the limits of proprietary jurisdiction of any Federal, state, or local government or to establish the geographical scope of the regulatory programs of government agencies. Persons intending to engage in activities involving modifications within or adjacent to wetland areas should seek the advice of appropriate federal, state, or

local agencies concerning specified agency regulatory programs and proprietary jurisdictions that may affect such activities.

NOT FOR CONSULTATION

### APPENDIX B: STATE OF MONTANA CONCURRENCE

# OFFICE OF THE GOVERNOR STATE OF MONTANA

STEVE BULLOCK GOVERNOR



MIKE COONEY LT. GOVERNOR

January 16, 2020

Noreen Walsh Regional Director, U.S. Department of the Interior, Unified Regions 5 and 7 Authorized Official - East Helena, MT, Natural Resource Damage Assessment and Restoration 134 Union Blvd. Lakewood, CO 80228

RE: Montana adoption of DOI's Final Restoration Plan and Environmental Assessment for the East Helena Smelter Site, Lewis and Clark County, East Helena (Nov. 2019)

Dear Ms. Walsh:

Thank you for the opportunity to review the Department of the Interior's *Final Restoration Plan and Environmental Assessment for the East Helena Smelter Site, Lewis and Clark County, East Helena, Montana* (November 2019).

The State supports the selected alternatives B and C: Native Grassland and Wetland Restoration Project along Prickly Pear Creek. The restoration along Prickly Pear Creek (Parcel 2) [Alternative B] complement's the State's planned restoration, including a Greenway near that property. The Greenway project, and other State restoration is described in the State's final *East Helena ASARCO Smelter Final Restoration Plan and Environmental Assessment Checklist* (Nov. 4, 2019). Pursuant to Section 111(i) of the Comprehensive Environmental Response, Compensation, and Liability Act, the State of Montana adopts the DOI's *Final Restoration Plan and Environmental Assessment for the East Helena Smelter Site, Lewis and Clark County, East Helena, Montana*.

Please include this letter as an Appendix in the Final Restoration Plan.

Sincerely,

STEVE BULLOCK

Governor

cc:

David Rouse Genette Gaffney