

South of Tri-Cities Reinforcement Project

Mitigation Action Plan

SUMMARY

This Mitigation Action Plan is for the South of Tri-Cities Reinforcement Project. The project would involve constructing a new substation and 18-mile-long 115-kV transmission line in Benton County, Washington. Other components of the project include installing fiber optic cable for system communications along 12 miles of right-of-way for the 115-kV McNary-Badger Canyon No. 1 transmission line and along 22 miles of right-of-way for the 500-kV Ashe-Marion No. 2 transmission line; making upgrades at the existing Badger Canyon, Ashe, Marion, McNary and Nine Canyon substations; and splitting the existing Ashe-Marion No. 2 transmission line into two circuits—Ashe-Webber Canyon No. 1 and Webber Canyon-Marion No. 1—and updating structure signage accordingly.

This Mitigation Action Plan addresses project-related adverse environmental impacts resulting from the South of Tri-Cities Reinforcement Project and includes all the integral elements and commitments made in the environmental assessment (EA).

BPA and its contractor are responsible for implementing the mitigation measures during various phases of project construction. Relevant portions of this Mitigation Action Plan will be included in the construction contract specifications, which will obligate the contractor to implement the mitigation measures identified that relate to contractor responsibilities during and after construction.

If you have any general questions about the project, contact the Project Manager, Meadow Nelson: office telephone 360-619-6230, or e-mail mdnelson@bpa.gov.

If you have questions about the Mitigation Action Plan, contact the BPA lead for the environmental review, Douglas Corkran: direct telephone 503-230-7646, or e-mail dfcorkran@bpa.gov.

If you have questions about the Mitigation Action Plan during implementation, contact the BPA environmental lead for project implementation, Shawn Barndt: office telephone 509-544-4785, or e-mail slbarndt1@bpa.gov.

This Mitigation Action Plan may be amended if revisions are needed due to new information or if there are project adjustments.

MITIGATION MEASURES

Minimization and mitigation measures identified to reduce potential impacts associated with the Proposed Action are provided in the Mitigation Action Plan Table below.

Mitigation Action Plan Table

MINIMIZATION AND MITIGATION MEASURE	IMPLEMENTATION
Geology and Soils	
Include water control structures on new and improved access roads using low grades, water bars and drain dips to help control runoff and prevent erosion. Design and construct access roads to minimize drainage from the road surface directly into surface waters, size new and replacement culverts (if required) large enough to accommodate predicted flows and size and space cross drains and water bars properly to accommodate flows and direct sediment-laden waters into vegetated areas.	Before and during construction (Contractor)
Separate cropland topsoil from substrate for reuse after disturbance.	During construction (Contractor)
Promptly mulch disturbed areas after construction activities are complete and re-seed at the appropriate time period for germination. Use a native seed mix or a landowner requested groundcover. Restore areas to pre-construction or better condition.	During construction (Contractor)
Select erosion control materials that are appropriate for windy conditions in the Tri-Cities area (e.g., blankets and hydromulch instead of straw).	During construction (Contractor)
<p>On BLM-managed lands, follow the Spokane BLM Border Field Office Standard Botanical Resource Project Design Features and Stipulations* and the Standard Operating Procedures in Appendix C-2 of BLM's <i>Spokane District Programmatic Noxious Weed & Invasive Plant Management Environmental Assessment</i>.** This includes the following:</p> <ul style="list-style-type: none"> • If BLM sensitive plant species are identified within the Project area, BPA would avoid and minimize impacts to the extent practicable. • BPA would prepare and implement a BLM-approved Pesticide Use Proposal before any use of herbicides on BLM-managed lands. 	Before and during construction (Contractor)
When tree removal in riparian corridors is necessary, cut trees without disturbing tree roots.	During construction (Contractor)
Inspect and maintain access roads and other facilities after construction to ensure proper function and nominal erosion levels.	During and after construction (Contractor and BPA)
Develop and implement a fugitive dust plan to suppress dust from construction activities occurring within 0.25 mile of residences, businesses or busy roads (e.g., East Badger Road).	Before and during construction (Contractor)
Vegetation	
Include water control structures on new and improved access roads using low grades, water bars and drain dips to help control runoff and prevent erosion. Design and construct access roads to minimize drainage from the road surface directly into surface waters, size new and replacement culverts (if required) large enough to accommodate predicted flows and size and space cross drains and water bars properly to accommodate flows and direct sediment-laden waters into vegetated areas.	Before and during construction (Contractor)
Separate cropland topsoil from substrate for reuse after disturbance.	During construction (Contractor)

MINIMIZATION AND MITIGATION MEASURE	IMPLEMENTATION
Promptly mulch disturbed areas after construction activities are complete and re-seed at the appropriate time period for germination. Use a native seed mix or a landowner requested groundcover. Restore areas to pre-construction or better condition.	During construction (Contractor)
Ensure that all imported rock, soil, road fill materials and erosion control materials stockpiled on BLM-managed lands have proof of weed-free certification that meets North American Invasive Species Management Association Weed-Free certification standards. Use weed free materials for all sites.	During construction (Contractor)
Select erosion control materials that are appropriate for windy conditions in the Tri-Cities area (e.g., blankets and hydromulch instead of straw).	During construction (Contractor)
Equip all vehicles with basic fire-fighting equipment, including extinguishers and shovels, to prevent fires that could harm native vegetation and result in disturbed areas that could be vulnerable to colonization by noxious weeds.	During construction (BPA and Contractor)
Avoid spreading soils in sensitive areas. Replace augered soils in structure holes, remove from sensitive areas and either deposit at the base of a nearby transmission line structure that is not in a sensitive area or dispose of off-site.	During construction (Contractor)
Use vehicle and equipment cleaning stations (or commercial car washes) to minimize the introduction and spread of weeds during construction by cleaning vehicles and equipment prior to entering and as soon as possible after leaving each work area.	During construction (BPA and Contractor)
<p>On BLM-managed lands, follow the Spokane BLM Border Field Office Standard Botanical Resource Project Design Features and Stipulations* and the Standard Operating Procedures in Appendix C-2 of BLM's <i>Spokane District Programmatic Noxious Weed & Invasive Plant Management Environmental Assessment</i>.** This includes the following:</p> <ul style="list-style-type: none"> • If BLM sensitive plant species are identified within the Project area, BPA would avoid and minimize impacts to the extent practicable. • BPA would prepare and implement a BLM-approved Pesticide Use Proposal before any use of herbicides on BLM-managed lands. 	Before and during construction (Contractor)
Prepare and implement a U.S. Forest Service-approved Pesticide Use Plan for noxious weed control at helicopter landing zones in the Mt. Hood National Forest.	Before and during construction (Contractor)
Control noxious weeds manually, mechanically and chemically as recommended for each species, prior to construction, if needed, with a focus on species with small, contained infestations to reduce the potential for widespread establishment and the need for long-term management.	During construction (Contractor)
Implement a new Spill Prevention Control and Countermeasures (SPCC) Plan for Webber Canyon Substation, an updated SPCC Plan for Badger Canyon Substation and a Stormwater Pollution and Prevention Plan (SWPPP) for the Project in accordance with federal, state and local requirements that addresses erosion and sediment control, fuel and chemical storage, spill containment and cleanup, construction contractor training and proper spilled material disposal activities.	During and after construction (BPA and Contractor)

MINIMIZATION AND MITIGATION MEASURE	IMPLEMENTATION
When tree removal in riparian corridors is necessary, cut trees without disturbing tree roots.	During construction (Contractor)
To the extent practicable, schedule tree and other vegetation removal outside of the migratory bird nesting season (March 15 to August 31). If tree clearing is needed during the nesting season, conduct a pre-construction nesting bird survey prior to vegetation removal. If active nests are found, do not remove vegetation until the young have fledged.	Before construction (Contractor)
Contact known landowners when a vegetation management or herbicide application is being planned and scheduled to allow landowners to respond to BPA with concerns, questions or directives for herbicide spraying on their property.	Before construction (BPA)
Waterways and Water Quality	
Include water control structures on new and improved access roads using low grades, water bars and drain dips to help control runoff and prevent erosion. Design and construct access roads to minimize drainage from the road surface directly into surface waters, size new and replacement culverts (if required) large enough to accommodate predicted flows and size and space cross drains and water bars properly to accommodate flows and direct sediment-laden waters into vegetated areas.	Before and during construction (Contractor)
<p>On BLM-managed lands, follow the Spokane BLM Border Field Office Standard Botanical Resource Project Design Features and Stipulations* and the Standard Operating Procedures in Appendix C-2 of BLM's <i>Spokane District Programmatic Noxious Weed & Invasive Plant Management Environmental Assessment</i>.** This includes the following:</p> <ul style="list-style-type: none"> • If BLM sensitive plant species are identified within the Project area, BPA would avoid and minimize impacts to the extent practicable. • BPA would prepare and implement a BLM-approved Pesticide Use Proposal before any use of herbicides on BLM-managed lands. 	Before and during construction (Contractor)
Prepare and implement a U.S. Forest Service-approved Pesticide Use Plan for noxious weed control at helicopter landing zones in the Mt. Hood National Forest.	Before and during construction (Contractor)
Implement a new SPCC Plan for Webber Canyon Substation, an updated SPCC Plan for Badger Canyon Substation and a SWPPP for the Project in accordance with federal, state and local requirements that addresses erosion and sediment control, fuel and chemical storage, spill containment and cleanup, construction contractor training and proper spilled material disposal activities.	During and after construction (BPA and Contractor)
Isolate in-water work area prior to fiber optic cable installation, isolate in-water work area as necessary for construction and to minimize turbidity and do not discharge turbid water to streams.	During construction (Contractor)
Conduct in-water work for fiber optic cable installation between August 1 and September 30 for tributary of Glade Creek.	During construction (Contractor)
When tree removal in riparian corridors is necessary, cut trees without disturbing tree roots.	During construction (Contractor)
Install signage, fences and flagging to restrict work areas and confine vehicles and equipment to designated routes outside of wetlands, waterways and floodplains where possible.	During construction (Contractor)

MINIMIZATION AND MITIGATION MEASURE	IMPLEMENTATION
Inspect and maintain access roads and other facilities after construction to ensure proper function and nominal erosion levels.	During and after construction (Contractor and BPA)
Wetlands and Floodplains	
Include water control structures on new and improved access roads using low grades, water bars and drain dips to help control runoff and prevent erosion. Design and construct access roads to minimize drainage from the road surface directly into surface waters, size new and replacement culverts (if required) large enough to accommodate predicted flows and size and space cross drains and water bars properly to accommodate flows and direct sediment-laden waters into vegetated areas.	Before and during construction (Contractor)
On BLM-managed lands, follow the Spokane BLM Border Field Office Standard Botanical Resource Project Design Features and Stipulations* and the Standard Operating Procedures in Appendix C-2 of BLM's <i>Spokane District Programmatic Noxious Weed & Invasive Plant Management Environmental Assessment</i> .** This includes the following: <ul style="list-style-type: none"> • If BLM sensitive plant species are identified within the Project area, BPA would avoid and minimize impacts to the extent practicable. • BPA would prepare and implement a BLM-approved Pesticide Use Proposal before any use of herbicides on BLM-managed lands. 	Before and during construction (Contractor)
Prepare and implement a U.S. Forest Service-approved Pesticide Use Plan for noxious weed control at helicopter landing zones in the Mt. Hood National Forest.	Before and during construction (Contractor)
Implement a new SPCC Plan for Webber Canyon Substation, an updated SPCC Plan for Badger Canyon Substation and a SWPPP for the Project in accordance with federal, state and local requirements that addresses erosion and sediment control, fuel and chemical storage, spill containment and cleanup, construction contractor training and proper spilled material disposal activities.	During and after construction (BPA and Contractor)
When tree removal in riparian corridors is necessary, cut trees without disturbing tree roots.	During construction (Contractor)
Install signage, fences and flagging to restrict work areas and confine vehicles and equipment to designated routes outside of wetlands, waterways and floodplains where possible.	During construction (Contractor)
Inspect and maintain access roads and other facilities after construction to ensure proper function and nominal erosion levels.	During and after construction (Contractor and BPA)
Wildlife	
On BLM-managed lands, follow the Spokane BLM Border Field Office Standard Botanical Resource Project Design Features and Stipulations* and the Standard Operating Procedures in Appendix C-2 of BLM's <i>Spokane District Programmatic Noxious Weed & Invasive Plant Management Environmental Assessment</i> .** This includes the following: <ul style="list-style-type: none"> • If BLM sensitive plant species are identified within the Project area, BPA would avoid and minimize impacts to the extent practicable. • BPA would prepare and implement a BLM-approved Pesticide Use Proposal before any use of herbicides on BLM-managed lands. 	Before and during construction (Contractor)

MINIMIZATION AND MITIGATION MEASURE	IMPLEMENTATION
Implement a new SPCC Plan for Webber Canyon Substation, an updated SPCC Plan for Badger Canyon Substation and a SWPPP for the Project in accordance with federal, state and local requirements that addresses erosion and sediment control, fuel and chemical storage, spill containment and cleanup, construction contractor training and proper spilled material disposal activities.	During and after construction (BPA and Contractor)
Isolate in-water work area prior to fiber optic cable installation, isolate in-water work area as necessary for construction and to minimize turbidity and do not discharge turbid water to streams.	During construction (Contractor)
Conduct in-water work for fiber optic cable installation between August 1 and September 30 for tributary of Glade Creek.	During construction (Contractor)
Avoid construction or other disturbance within 0.6 mile of active or potentially active ferruginous hawk nests between April 1 and August 15, or until young have fledged.	During construction (Contractor)
Deposit all waste products and food garbage from construction sites in covered waste receptacles and remove daily. Transport garbage to a suitable disposal facility.	During construction (Contractor)
Cover any construction holes left open overnight to prevent livestock or wildlife from falling in.	During construction (Contractor)
If sensitive wildlife species are discovered during construction activities, establish a protective buffer and immediately contact the appropriate federal or state agency.	During construction (Contractor)
Install bird flight diverters and high-visibility guy wire guards where the Webber Canyon-Badger Canyon transmission line parallels Scouten Canyon and in other high use areas.	During construction (Contractor)
Attach high-visibility guy wire guards to fiber optic wood poles with guy wires in the Webber Canyon-Marion No. 1 ROW and attach bird flight diverters to the overhead fiber optic cable in high-risk areas for bird strikes.	During construction (Contractor)
Attach high-visibility guy wire guards to the guy wires to be installed on select McNary-Badger Canyon No. 1 transmission structures.	During construction (Contractor)
Conduct signage change activities along the Webber Canyon-Marion No. 1 transmission line outside of the northern spotted owl breeding/nesting season (March 1 to September 30).	During construction (Contractor)
Conduct signage change activities along the Webber Canyon-Marion No. 1 transmission line ROW outside of the eagle nesting season (January 1 to September 30).	During construction (Contractor)
If an active eagle nest is discovered, construction activities may not occur within 0.5-mile during the eagle nesting season (January 1 to September 30) or until the nest is no longer active, as determined by a qualified biologist.	During construction (Contractor)
Minimize excavation and soil compaction in Townsend's ground squirrel habitat to the greatest extent practicable.	During construction (Contractor)
Provide a training to all Project personnel that will cover all mitigation measures, BMPs and procedures for discovering sensitive species.	Before construction (BPA and Contractor)
Avoid ground disturbance on BLM-managed land during the migratory bird nesting season, generally March 15 to August 31.	During construction (Contractor)

MINIMIZATION AND MITIGATION MEASURE	IMPLEMENTATION
To the extent practicable, schedule tree and other vegetation removal outside of the migratory bird nesting season (March 15 to August 31). If tree clearing is needed during the nesting season, conduct a pre-construction nesting bird survey prior to vegetation removal. If active nests are found, do not remove vegetation until the young have fledged.	Before construction (Contractor)
Restrict all activities, including noise and smoke-generating activities, within a 1-mile buffer zone around known den or rendezvous sites (i.e. homesites) from April 1 through July 15 (the denning and rendezvous period) to avoid disturbances that could disrupt wolf pup-rearing activities and reproductive success, unless modification of the buffer zone or its duration is approved by USFWS in advance of implementation through the pre-project consistency review process.	During construction (Contractor)
If requested by state biologists or USFWS, follow restrictions outside of denning and rendezvous period for longstanding homesites (i.e., den or rendezvous sites used in multiple years but not every year) to limit activities that would prevent future pup rearing at the site.	During construction (Contractor)
If a wolf homesite is discovered within a project area during implementation between April 1 and July 15 (the denning and rendezvous period), as practicable immediate cease all project activities within 1 mile of the homesite and immediately notify USFWS by the end of the next business day. Coordinate with the Service and state biologists to implement an effective buffer zone (consistent with measure above) to avoid repeated disturbances before project activities can resume.	During construction (Contractor)
When projects occur within a known wolf territory, the homesite (i.e., rendezvous or den site) is unknown, and project activities will occur during the denning and rendezvous period (April 1 through July 15): Avoid activities within 1 mile of the wolf territory during breeding season (April 1 through July 15) when possible. <ul style="list-style-type: none"> • If avoiding the breeding season is not practicable, work with USFWS to identify an appropriate pre-project and project-concurrent wolf monitoring plan specific to the project area to inform the implementation of an avoidance buffer zone. 	During construction (Contractor)
Conduct milkweed surveys prior to construction in areas where ground disturbance and/or vegetation clearing would occur during the monarch breeding season (June 1 to September 30) and clearly delineate any potential breeding habitat (milkweed).	Before construction (Contractor)
To avoid disturbance of breeding habitat for monarch butterflies, restrict construction related ground- disturbing and/or vegetation clearing activities in delineated patches of milkweed to occur outside of the estimated timeframe when monarchs are likely present, if feasible.	During construction (Contractor)
Revegetate areas of ground disturbance (staging areas, temporary roads, etc.) to increase monarch habitat. <ul style="list-style-type: none"> • Revegetate disturbed soils by applying locally adapted native seed mixes to accelerate habitat establishment. Incorporate pollinator friendly species including appropriate milkweed species into seed mixes. • To minimize the spread of the pathogen <i>Ophryocystis elektroscirrha</i>, a parasite that can cause injury and mortality to monarch butterflies, do not plant tropical milkweed (<i>Asclepias curassavica</i>). 	During and after construction (BPA/Contractor)

MINIMIZATION AND MITIGATION MEASURE	IMPLEMENTATION
<ul style="list-style-type: none"> Do not install plants/seeds treated with neonicotinoids or other systemic insecticides any time of the year, due to their ecosystem persistence, systemic nature, and toxicity. Avoid insecticide-containing plant material. If plants are grown via contract, use grow specifications that limit harmful pesticide residues. 	
<p>If herbicides/pesticides are used, apply when plants are more responsive to treatment and when monarchs and other pollinators (such as the western bumble bee and its parasitic obligate, Suckley's cuckoo bumble bee), are less likely to be nectaring on the plants (October 1-May 31).</p>	<p>During and after construction (BPA/Contractor)</p>
<p>When herbicide treatments are used to control invasive or incompatible vegetation, use spot/targeted application; limit broadcast applications to facilities or lands lacking milkweed/nectar resources; establish no-spray buffers around known or potential monarch habitats; and take precautions to limit off-site movement of pesticides and herbicides (e.g., wind drift, discharge from surface water flows).</p>	<p>During and after construction (BPA/Contractor)</p>
<p>If pesticides are used in monarch habitat, adhere to the following guidance to lessen their harm, avoid use of neonicotinoids or other systemic insecticides, including coated seeds, any time of the year in monarch habitat, due to their ecosystem persistence, systemic nature, and toxicity.</p>	<p>During and after construction (BPA/Contractor)</p>
Cultural Resources	
<p>On BLM-managed lands, follow the Spokane BLM Border Field Office Standard Botanical Resource Project Design Features and Stipulations* and the Standard Operating Procedures in Appendix C-2 of BLM's <i>Spokane District Programmatic Noxious Weed & Invasive Plant Management Environmental Assessment</i>.** This includes the following:</p> <ul style="list-style-type: none"> If BLM sensitive plant species are identified within the Project area, BPA would avoid and minimize impacts to the extent practicable. BPA would prepare and implement a BLM-approved Pesticide Use Proposal before any use of herbicides on BLM-managed lands. 	<p>Before and during construction (Contractor)</p>
<p>Adhere to BPA's Post-Review Discovery Plan. If cultural resources are encountered during Project construction, stop all work within a 30-meter buffer of the find and notify a BPA archaeologist. BPA will contact the appropriate State Historic Preservation Office and any affected tribes. If human remains are encountered, the County Coroner and local law enforcement will also be notified.</p>	<p>During construction (BPA and Contractor)</p>
<p>Minimize ground disturbing activities near cultural resource site boundaries. An archaeological monitor must be present if ground disturbance is proposed within a cultural resource site boundary. Mark sensitive areas in the field for avoidance and brief construction contractors and inspectors on cultural resource-related mitigation measures prior to construction.</p>	<p>During construction (Contractor)</p>
Land Use and Transportation	
<p>Separate cropland topsoil from substrate for reuse after disturbance.</p>	<p>During construction (Contractor)</p>
<p>On BLM-managed lands, follow the Spokane BLM Border Field Office</p>	<p>Before and during construction</p>

MINIMIZATION AND MITIGATION MEASURE	IMPLEMENTATION
<p>Standard Botanical Resource Project Design Features and Stipulations* and the Standard Operating Procedures in Appendix C-2 of BLM's <i>Spokane District Programmatic Noxious Weed & Invasive Plant Management Environmental Assessment</i>.** This includes the following:</p> <ul style="list-style-type: none"> • If BLM sensitive plant species are identified within the Project area, BPA would avoid and minimize impacts to the extent practicable. • BPA would prepare and implement a BLM-approved Pesticide Use Proposal before any use of herbicides on BLM-managed lands. 	(Contractor)
<p>Compensate landowners at fair market value for any property/crop damage and any new land rights acquired.</p>	Before and after construction (BPA)
<p>Plan and conduct construction activities to minimize temporary disturbance, displacement of crops and interference with agricultural activities.</p>	Before and during construction (BPA/Contractor)
<p>On BLM-managed parcels, follow all stipulations of the agency's ROW land grant.</p>	Before and during construction (BPA and Contractor)
<p>Contact known landowners when a vegetation management or herbicide application is being planned and scheduled to allow landowners to respond to BPA with concerns, questions or directives for herbicide spraying on their property.</p>	Before construction (BPA or Contractor)
<p>Coordinate the routing and scheduling of construction traffic with Benton County, City of Richland and City of Kennewick public works staff to minimize interruptions to local traffic.</p>	Before construction (BPA and Contractor)
<p>Employ traffic control flaggers and post signs along roads warning of construction activity and merging traffic for temporary interruptions of traffic, where needed.</p>	During construction (Contractor)
<p>Develop and implement a fugitive dust plan to suppress dust from construction activities occurring within 0.25 mile of residences, businesses or busy roads (e.g., East Badger Road).</p>	Before and during construction (Contractor)
Recreation	
<p>On BLM-managed lands, follow the Spokane BLM Border Field Office Standard Botanical Resource Project Design Features and Stipulations* and the Standard Operating Procedures in Appendix C-2 of BLM's <i>Spokane District Programmatic Noxious Weed & Invasive Plant Management Environmental Assessment</i>.** This includes the following:</p> <ul style="list-style-type: none"> • If BLM sensitive plant species are identified within the Project area, BPA would avoid and minimize impacts to the extent practicable. • BPA would prepare and implement a BLM-approved Pesticide Use Proposal before any use of herbicides on BLM-managed lands. 	Before and during construction (Contractor)
<p>Ensure vehicles are properly maintained. Use sound muffling devices on construction equipment and limit equipment idling.</p>	During construction (Contractor)
<p>Post a Project construction schedule at Amon Creek Natural Preserve.</p>	Before construction (Contractor)

MINIMIZATION AND MITIGATION MEASURE	IMPLEMENTATION
Communicate signage replacement plans with managers of potentially affected public recreation areas (identified in Appendix D of the Environmental Assessment).	Before construction (BPA)
Noise, Public Health and Services	
Equip all vehicles with basic fire-fighting equipment, including extinguishers and shovels, to prevent fires that could harm native vegetation and result in disturbed areas that could be vulnerable to colonization by noxious weeds.	During construction (BPA and Contractor)
<p>On BLM-managed lands, follow the Spokane BLM Border Field Office Standard Botanical Resource Project Design Features and Stipulations* and the Standard Operating Procedures in Appendix C-2 of BLM's <i>Spokane District Programmatic Noxious Weed & Invasive Plant Management Environmental Assessment</i>.** This includes the following:</p> <ul style="list-style-type: none"> • If BLM sensitive plant species are identified within the Project area, BPA would avoid and minimize impacts to the extent practicable. • BPA would prepare and implement a BLM-approved Pesticide Use Proposal before any use of herbicides on BLM-managed lands. 	Before and during construction (Contractor)
Implement a new SPCC Plan for Webber Canyon Substation, an updated SPCC Plan for Badger Canyon Substation and a SWPPP for the Project in accordance with federal, state and local requirements that addresses erosion and sediment control, fuel and chemical storage, spill containment and cleanup, construction contractor training and proper spilled material disposal activities.	During and after construction (BPA and Contractor)
Provide a training to all Project personnel that will cover all mitigation measures, BMPs and procedures for discovering sensitive species.	Before construction (BPA and Contractor)
Contact known landowners when a vegetation management or herbicide application is being planned and scheduled to allow landowners to respond to BPA with concerns, questions or directives for herbicide spraying on their property.	Before construction (BPA)
Conduct noise-generating construction activities only during daytime hours (e.g., between the hours of 7:00 a.m. to 7:00 p.m., Monday to Friday), to the extent practicable.	During construction (Contractor)
Prepare a site-specific Safety Plan before starting construction that specifies how to manage hazardous materials, such as fuel and any toxic materials found in work sites, which includes a Fire Prevention and Suppression Plan; and details how to respond to emergency situations. Keep the Safety Plan on site during construction and maintain and update, as needed.	Before construction (Contractor)
Install fire retardant pole wraps on the new Webber Canyon-Badger Canyon wood transmission structures and the existing wood transmission structures on the segment of the McNary-Badger Canyon No. 1 transmission line that would be strung with fiber optic cable.	During construction (Contractor)
Ensure vehicles are properly maintained. Use sound muffling devices on construction equipment and limit equipment idling.	During construction (BPA and Contractor)
Develop and implement a fugitive dust plan to suppress dust from construction activities occurring within 0.25 mile of residences, businesses or busy roads (e.g., East Badger Road).	Before and during construction (Contractor)

MINIMIZATION AND MITIGATION MEASURE	IMPLEMENTATION
Visual Quality	
<p>Promptly mulch disturbed areas after construction activities are complete and re-seed at the appropriate time period for germination. Use a native seed mix or a landowner requested groundcover. Restore areas to pre-construction or better condition.</p>	<p>During construction (Contractor)</p>
<p>Ensure that all imported rock, soil, road fill materials and erosion control materials stockpiled on BLM-managed lands have proof of weed-free certification that meets North American Invasive Species Management Association Weed-Free certification standards. Use weed free materials for all sites.</p>	<p>During construction (Contractor)</p>
<p>On BLM-managed lands, follow the Spokane BLM Border Field Office Standard Botanical Resource Project Design Features and Stipulations* and the Standard Operating Procedures in Appendix C-2 of BLM's <i>Spokane District Programmatic Noxious Weed & Invasive Plant Management Environmental Assessment</i>.** This includes the following:</p> <ul style="list-style-type: none"> • If BLM sensitive plant species are identified within the Project area, BPA would avoid and minimize impacts to the extent practicable. • BPA would prepare and implement a BLM-approved Pesticide Use Proposal before any use of herbicides on BLM-managed lands. 	<p>Before and during construction (Contractor)</p>
<p>Develop and implement a fugitive dust plan to suppress dust from construction activities occurring within 0.25 mile of residences, businesses or busy roads (e.g., East Badger Road).</p>	<p>Before and during construction (Contractor)</p>

* BLM, Spokane District, Border Field Office. 2025. Spokane BLM Border Field Office Standard Botanical Resource Project Design Features and Stipulations.

** BLM, U.S. Department of the Interior. 2018. Spokane District Programmatic Noxious Weed & Invasive Plant Management Environmental Assessment. DOI-BLM-ORWA-W000-2017-0001-EA.