# Wheatridge Wind Energy Project Habitat Mitigation Plan

# Prepared for Wheatridge Wind Energy, LLC

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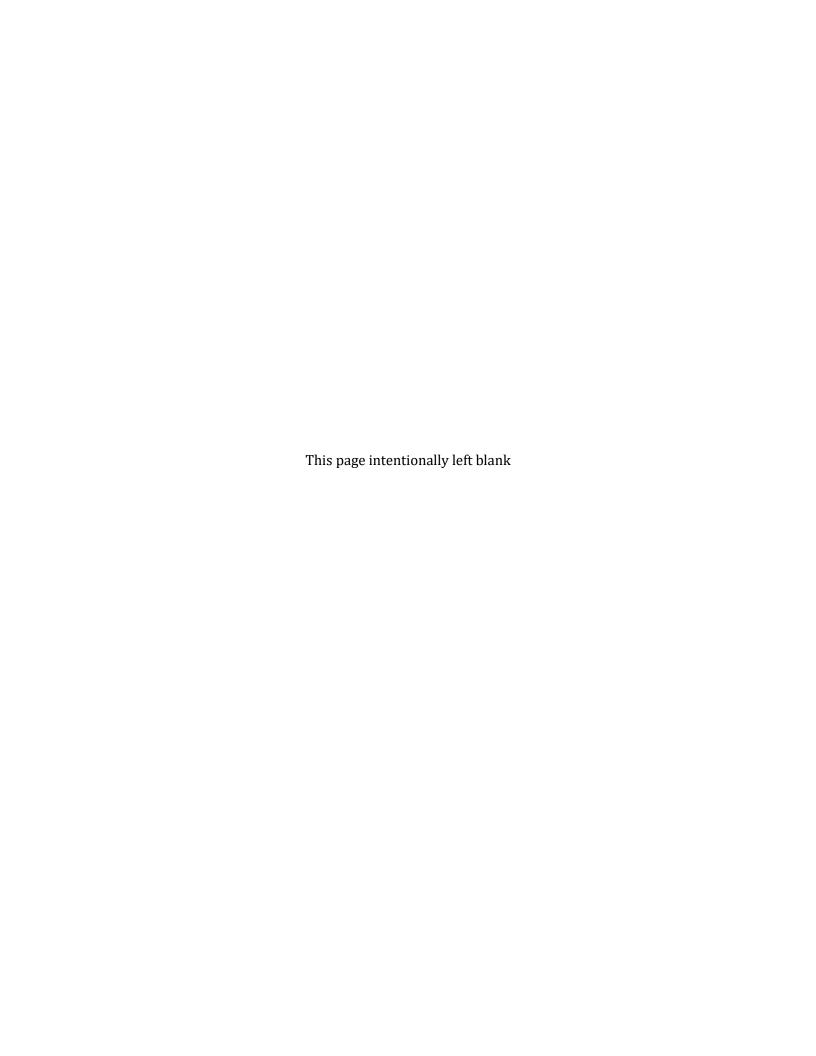
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1.0

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#### 1.0 Introduction

The Wheatridge Wind Energy Facility (Facility) is a 300 megawatt (MW) wind energy generation facility located in Morrow county that was granted approval of a site certificate by the Oregon Department of Energy's (ODOE) Energy Facility Siting Council (EFSC) for construction and operation on April 28, 2017 (EFSC 2017). The Certificate Holder subsequently received EFSC approval to amend the site certificate three times, prior to facility construction.

Facility components within Morrow County are referred to as "Wheatridge West" and include the following related or supporting facilities:

- Electrical collection system;
- One collector substation:
- Permanent meteorological (met) towers;
- Communication and Supervisory Control and Data Acquisition (SCADA) System;
- One operations and maintenance (O&M) building;
- New or improved access roads; and
- Additional temporary construction areas (including staging areas and one or more temporary concrete batch plant areas).

Wheatridge West is located entirely within Morrow County and is bisected by Oregon Highway 207. It is approximately 5 miles northeast of Lexington, and approximately 7 miles northwest of Heppner.

This HMP provides documentation that construction and operation of Wheatridge West is in compliance with EFSC's Fish and Wildlife Habitat standard (OAR 345-022-0060), which implements Oregon Department of Fish and Wildlife's (ODFW) Fish and Wildlife Habitat Mitigation Policy, Oregon Administrative Rule (OAR) 635-415-0000 through 0025. The Certificate Holder's goal is to reduce and eliminate the effects on wildlife and habitat from construction and operation of Wheatridge West by implementing this HMP along with the Revegetation Plan and Wildlife Monitoring and Mitigation Plan. This HMP commits to preserving, enhancing, and maintaining inkind habitat in the Columbia Basin Ecoregion to achieve the mitigation goals described in the ODFW Habitat Mitigation Policy.

## 2.0 Pre-Construction Compliance

This HMP for the Wheatridge West portion of the Facility will show compliance with Site Certificate condition PRE-FW-01 and PRE-FW-4, which read:

**PRE-FW-01** Prior to final site design and facility layout, the certificate holder shall conduct a field-based habitat survey to confirm the habitat categories of all areas that will be affected by

facility components, as well as the locations of any sensitive resources such as active raptor and other bird nests. The survey shall be planned in consultation with the department and ODFW, and survey protocols shall be confirmed with the department and ODFW. Following completion of the field survey, and final layout design and engineering, the certificate holder shall provide the department and ODFW a report containing the results of the survey, showing expected final location of all facility components, the habitat categories of all areas that will be affected by facility components, and the locations of any sensitive resources.

The report shall also include an updated version of Table FW-1 Potential Temporary and Permanent Impacts by Habitat Category and Type of the final order, showing the acres of expected temporary and permanent impacts to each habitat category, type, and sub-type. The preconstruction survey shall be used to complete final design, facility layout, and micrositing of facility components. As part of the report, the certificate holder shall include its impact assessment methodology and calculations, including assumed temporary and permanent impact acreage for each transmission structure, wind turbine, access road, and all other facility components. If construction laydown yards are to be retained post construction, due to a landowner request or otherwise, the construction laydown yards must be calculated as permanent impacts, not temporary. In classifying the affected habitat into habitat categories, the certificate holder shall consult with the department and ODFW. The certificate holder shall not begin construction of the facility until the habitat assessment, categorization, and impact assessment has been approved by the department, in consultation with ODFW. The certificate holder shall not construct any facility components within areas of Category 1 habitat and shall avoid temporary disturbance of Category 1 habitat.

**PRE-FW-04** Before beginning construction the certificate holder shall prepare and receive approval from the department of a final Habitat Mitigation Plan. The final Habitat Mitigation Plan shall be based on the final facility design and shall be approved by the department in consultation with ODFW. The Council retains the authority to approve, reject or modify the final HMP.

- a. The final Habitat Mitigation Plan and the department's approval must be received prior to beginning construction. The department shall consult with ODFW on the final plan. The certificate holder shall implement the requirements of the approved plan during all phases of construction and operation of the facility.
- b. The certificate holder shall calculate the size of the habitat mitigation area according to the final design configuration of the facility and the estimated areas of habitat affected in each habitat category, in consultation with the department, as per the preconstruction survey results and impact assessment calculations called for in Fish and Wildlife Condition 1.
- c. The certificate holder shall acquire the legal right to create, enhance, maintain, and protect the habitat mitigation area, as long as the site certificate is in effect, by means of an outright purchase, conservation easement or similar conveyance and shall provide a copy of the documentation to the department prior to the start of

construction. Within the habitat mitigation area, the certificate holder shall improve the habitat quality as described in the final Habitat Mitigation Plan.

- d. The certificate holder shall provide a habitat assessment of the habitat mitigation area, based on a protocol approved by the Department in consultation with ODFW, which includes methodology, habitat map and available acres by habitat category and subtype in tabular format.
- e. The final HMP shall include an implementation schedule for all mitigation actions, including securing the conservation easement, conducting the ecological uplift actions at the habitat mitigation area, revegetation and restoration of temporarily impacted areas, and monitoring. The mitigation actions shall be implemented according to the following schedule, as included in the HMP:
  - i. Restoration and revegetation of temporary construction-related impact area shall be conducted as soon as possible following construction.
  - ii. The certificate holder shall obtain legal authority to conduct the required mitigation work at the compensatory habitat mitigation site before commencing construction. The habitat enhancement actions at the compensatory habitat mitigation site shall be implemented concurrent with construction.
- f. The final HMP shall include a monitoring and reporting program for evaluating the effectiveness of all mitigation actions, including restoration of temporarily impacted areas and ecological uplift actions at the habitat mitigation area.
- g. The final HMP shall include mitigation in compliance with the Council's Fish and Wildlife Habitat standard, including mitigation for temporary impacts to Category 4 habitat (shrub-steppe habitat); and, mitigation for all Category 2 habitat impacts that meet the mitigation goal of no net loss of habitat quality or quantity, plus a net benefit of habitat quality or quantity.
- h. The final HMP may be amended from time to time by agreement of the certificate holder and the Oregon Energy Facility Siting Council ("Council"). Such amendments may be made without amendment of the site certificate. The Council authorizes the Department to agree to amendments to this plan. The Department shall notify the Council of all amendments, and the Council retains the authority to approve, reject, or modify any amendment of this plan agreed to by the Department.

## 3.0 Habitat Categories and Habitat Types

In compliance with Condition PRE-FW-01, a pre-construction habitat survey was conducted in 2019 to verify habitat subtypes and habitat categories of all areas to be affected by Wheatridge West facilities. This survey was planned in consultation with ODFW and a protocol was reviewed and approved by ODFW (Appendix A). Pre-construction surveys for Washington ground squirrels, rare plants, raptor nests, and special-status species were also conducted in 2019 in compliance with Condition PRE-FW-01 for identification of sensitive resources and other conditions specific to the implementation of Washington ground squirrel and rare plant surveys.

The ODFW Fish and Wildlife Habitat Mitigation Policy provides a framework to categorize habitats based on type, quality, availability, and usefulness/importance to wildlife, and establishes mitigation goals and implementation standards for each. Table 1 defines each of the six habitat category types as presented in the ODFW Habitat Mitigation Policy.

**Table 1. Habitat Categorization Types** 

Category Type	Definition <sup>1</sup>	Mitigation Goal				
1	Irreplaceable, essential habitat for a fish or wildlife species, population, or a unique assemblage of species and is limited on either a physiographic province or site-specific basis, depending on the individual species, population or unique assemblage.	The mitigation goal for Category 1 habitat is no loss of either habitat quantity or quality.				
2	Essential habitat for a fish or wildlife species, population, or unique assemblage of species and is limited either on a physiographic province or site-specific basis depending on the individual species, population or unique assemblage.	The mitigation goal if impacts are unavoidable is no net loss of either habitat quantity or quality and to provide a net benefit of habitat quantity or quality.				
3	Essential habitat for fish and wildlife, or important habitat for fish and wildlife that is limited either on a physiographic province or site-specific basis, depending on the individual species or population.	The mitigation goal is no net loss of either habitat quantity or quality.				
4	Important habitat for fish and wildlife species.	The mitigation goal is no net loss of either habitat quantity or quality.				
5	Habitat for fish and wildlife having high potential to become either essential or important habitat.	The mitigation goal, if impacts are unavoidable, is to provide a net benefit in habitat quantity or quality.				
6	Habitat that has low potential to become essential or important habitat for fish and wildlife.	The mitigation goal is to minimize impacts.				
1. Source: OAR 635-415-0025.						

For Wheatridge West, Category 1 habitat could include suitable habitat within 785 feet of documented Washington ground squirrel (*Urocitellus washingtoni*) colonies. Category 2 habitat could be associated with ODFW mule deer winter range (ODFW 2012), areas of potential Washington ground squirrel use, and high-quality native habitat. Areas of potential ground squirrel use are defined as being within 4,921 feet (1.5 kilometers [km]) of ground squirrel Category 1 habitat, but not occupied by any squirrels either for burrowing or foraging. Category 3, 4, and 6 habitats could include areas that do not function as mule deer winter range and do not contain Washington ground squirrel colonies or areas of potential use. Category 5 has not been identified for Wheatridge West and does not occur in the site boundary. Habitat types include grassland, shrub-steppe, and developed. Each of these habitat types contain habitat subtypes that were used to map habitat in the Wheatridge West site boundary. Table 2 is a habitat categorization matrix that defines the habitat subtypes and the corresponding habitat categories in which each habitat subtype may fall based on proximity to wildlife resources and/or vegetation composition.

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**Table 2. Wheatridge West Habitat Categorization Matrix** 

Habitat type	Habitat Subtype	Category 1	Category 2	Category 3	Category 4	Category 5	Category 6
Grassland	Exotic Annual Grassland	Active Washington ground squirrel colony with a 785-foot buffer (area required for squirrel survival) in suitable habitat.	Additional 4,921 foot (1.5km) buffer (area of potential WAGS use) of WAGS Category 1 habitat except where there are habitat barriers to dispersal.  OR  Overlaps with ODFW mule deer winter range.		Non-native grasslands with a very high weed component and disturbed or less nutrient-rich soils. The forb component is composed primarily of non-native weeds, such as cheatgrass, bulbous bluegrass, cereal rye, tumblemustard, and Russian thistle, with occasional patches of native bunchgrass, primarily Sandberg bluegrass. The high weed content is primarily due to past fires, which burned native shrubs and bunchgrasses and were followed by heavy grazing and/or wind erosion.  Some of these sites support long-billed curlew. Category 4 Exotic Annual Grassland provides important habitat to common species like horned lark, but the dense weed cover and lack of native grasses limit the ability of most wildlife species to use these areas for forage or cover. In addition, the weed cover, often dominated by annuals such as cheatgrass, makes the slopes in this area more susceptible to erosion and soil damage from grazing, because of a lack of the robust root structure found in perennial species, such as the native bunchgrasses. With sufficient time and appropriate livestock grazing practices, however, these areas could become suitable habitat for some native wildlife species. This habitat is commonly found throughout the Columbia Basin.	_	
	Native Grassland	Active Washington ground squirrel colony with a 785-foot buffer (area required for squirrel survival) in suitable habitat.	Additional 4,921 foot (1.5km) buffer (area of potential WAGS use) of WAGS Category 1 habitat except where there are habitat barriers to dispersal.  OR  Overlaps with ODFW mule deer winter range.	Dominated by native perennial grasses such as Sandberg bluegrass, bluebunch wheatgrass, Idaho fescue, western needlegrass, and needle-and-thread grass. Various native forbs and low shrubs such as gray rabbitbrush and, to a lesser extent, green rabbitbrush are present but are an inconspicuous component. Native vascular plants are diverse and a variety of invertebrates can be found utilizing the plants throughout the growing season. These habitats have been altered through land use or wildfires, and generally contain a significant component of non-native vegetation (broad-leaf weeds and annual grasses). Category 3 Native Perennial Grasslands generally occur on sites with shallow soils and harsh exposures, or in areas that have experienced livestock grazing or frequent fires. Provide essential foraging habitat to a variety of common resident and migratory birds and common mammals. State Sensitive species that occur in this habitat include white-tailed jackrabbit, long-billed curlew, burrowing owl, and grasshopper sparrow. Native grasses and forbs provide forage for mule deer.	Category 4 Native Perennial Grassland is ecologically similar to Category 3 Native Perennial Grassland but is classified as Category 4 because its small size and isolated nature limit its value to wildlife.	-	_

Habitat type	Habitat Subtype	Category 1	Category 2	Category 3	Category 4	Category 5	Category 6
	Basin Big Sagebrush Shrub-steppe	Active Washington ground squirrel colony with a 785-foot buffer (area required for squirrel survival) in suitable habitat.	Shrub-steppe habitat with an overstory of mature	Patches of Category 3 Basin Big Sagebrush Shrub-steppe lack the density and plant health of Category 2 Basin Big Sagebrush Shrub-steppe or are in patches of limited size. The overstory sagebrush in this type is often decadent or lacks full foliage. Understory vegetation in Category 3 Basin Big Sagebrush Shrub-steppe often tends toward annual grasses and low weeds. These areas were historically higher quality habitats but are experiencing degradation due to land use practices or frequent fires. However, the mature shrub cover provides escape and resting cover for common wildlife and is limited in the immediate area and the region.			_
	Rabbitbrush/ Snakeweed Shrub-steppe	Active Washington ground squirrel colony with a 785-foot buffer (area required for squirrel survival) in suitable habitat.		Have been affected by recent fires and are in a relatively early seral stage. Native rabbitbrush and other low-stature plants such as broom snakeweed and various buckwheat species are common. The understory is native Sandberg bluegrass, nonnative cheatgrass, bulbous bluegrass, and tumblemustard. Patches of native perennial grasses, such as bluebunch wheatgrass and needle-and-thread grass, are present. Many of these sites contain small patches of sagebrush that are less than one acre (0.4 ha) in size. Category 3 Rabbitbrush/Snakeweed Shrub-steppe provides foraging, cover, and/or nesting habitat for white-tailed jackrabbit and grasshopper sparrow.	Has the same plant species, but differs in composition from Category 3 Rabbitbrush/Snakeweed Shrub-steppe in that it has a greater weed and annual grass component than Category 3 Rabbitbrush/Snakeweed Shrub-steppe. While aspect and soils may contribute somewhat to this, disturbances such as livestock grazing and fires likely have a far greater effect.	1	-

Habitat type	Habitat Subtype	Category 1	Category 2	Category 3	Category 4	Category 5	Category 6
	Revegetated or Other Planted	Active Washington ground squirrel colony with a 785-foot buffer (area required for squirrel survival) in suitable habitat.	Additional 4,921 foot (1.5km) buffer (area of potential WAGS use) of WAGS Category 1 habitat except where there are habitat barriers to dispersal.  OR  Overlaps with ODFW mule deer winter range.	Planted grasslands on previously farmed or other disturbed lands that may be enrolled in the Conservation Reserve Program. This habitat subtype is comprised mainly of native or native-like grasses. Native vegetation in Category 3 Revegetated or Other Planted Grasslands may be sparse and not well-developed, and may have a significant component of annual grasses and weeds. This habitat supports state Sensitive species such as grasshopper sparrow and white-tailed jackrabbit.	-	-	-
Developed	Dryland Wheat	-	-	-	-	-	Agricultural fields that are currently in small grain production or fallow.
	Other	-	_	_	_	-	Includes farming/ranching home and shop sites, corrals, structures, feedlots, active and inactive gravel quarries, non-irrigated pastures, graveled and paved roads, rights-of-way, and waste areas associated with ongoing human activities.

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## 4.0 Micrositing

Sensitive resources were avoided during development of the site boundary based on baseline surveys performed in support of the Application for Site Certificate (ASC; Wheatridge Wind Energy 2015). Pre-construction surveys performed in 2019 have informed constraints mapping used by the Certificate Holder during micrositing within the approved site boundary.

Washington ground squirrel (*Urocitellus washingtoni*) colonies were identified during surveys performed between 2011 and 2013 in support of Exhibits P and Q of the ASC (Wheatridge Wind Energy 2015). The approved site boundary avoided these colonies and their associated Category 1 habitat. No Washington ground squirrels were detected during 2019 preconstruction surveys of the Facility (Tetra Tech 2019a).

Similar to Washington ground squirrel colonies, raptor nest locations (specifically ferruginous hawks and golden eagles) were avoided during initial siting of the Facility for the ASC (Wheatridge Wind Energy 2015). The 2019 pre-construction raptor nest surveys identified 34 active nests within 2 miles of the site boundary (NWC 2019). Of those, nine nests of state sensitive raptors are within 0.25 miles of the site boundary. Condition CON-FW-02 stipulates that no ground-disturbing activity should occur within 0.25 miles of state sensitive raptor nests during seasonal restrictions. Table 3 provides information on the nest, the seasonal restriction, and the approach by the Certificate Holder to avoid impacts to the nest during construction (if nest were to be active in 2020). The location of the nests are included in Figure 1.

Table 3. 2019 State Sensitive Raptor Nests within 0.25 Miles of the Site Boundary

Nest ID	Species <sup>1</sup>	Nest Buffer Restriction	Mule Deer Winter Range Restriction	Resolution
3770	FEHA	March 15 – August 15	December 1 – March 31	While the nest buffer intersects the site boundary, there are no ground disturbing activities proposed within the nest buffer. All Facility components were removed from nest buffer during micrositing.
4688	SWHA	April 1 – August 15	NA	This nest is located in a tree at a residence near the intersection of HWY 207/Bombing Range Rd/Strawberry Ln, which will be used for delivery of Facility components. No ground disturbing activities will occur within the nest buffer.
4689	SWHA	April 1 – August 15	NA	While the nest buffer intersects the site boundary, there are no ground disturbing activities proposed within the nest buffer. All Facility components were removed from nest buffer during micrositing.
5001 & 5002	BUOW	April 1 – August 15	NA	The 0.25-mile buffer extends across Bombing Range Rd to the east of the burrows. Approximately 475 feet of an access road occurs within the nest buffer; however, the access road is on the opposite side of Bombing Range Rd from the burrows. The level of

Nest ID	Species <sup>1</sup>	Nest Buffer Restriction	Mule Deer Winter Range Restriction	Resolution
				activity associated with Bombing Range Rd effectively negates the need to extend seasonal restrictions across the road. Construction of the access road will be completed prior to April 1.
1727	SWHA	April 1 – August 15	NA	Ground disturbing activities within the nest buffer will occur outside of the nest buffer seasonal restriction. Some construction traffic may use the road within the nest buffer during the seasonal restriction.
4692	SWHA	April 1 – August 15	NA	Construction of the collector line will occur within the nest buffer but outside of the nest buffer seasonal restriction.
3789	SWHA	April 1 – August 15	December 1 – March 31	Turbine, collection, and roads are within the nest buffer. Construction will be completed prior to April 1. Work in this area will occur within the mule deer winter range restriction. The Certificate Holder is preparing anhas prepared an exception request to perform work in mule deer winter range during the winter range restriction.
4685	SWHA	April 1 – August 15	December 1 – March 31	While the nest buffer intersects the site boundary, there are no ground disturbing activities proposed within the nest buffer. All Facility components were removed from nest buffer during micrositing.
4696	FEHA	March 15 – August 15	December 1 – March 31	While the nest buffer intersects the site boundary, there are no ground disturbing activities proposed within the nest buffer. All Facility components were removed from nest buffer during micrositing.
4685 4696	SWHA FEHA	April 1 – August 15  March 15 – August 15	March 31  December 1 – March 31  December 1 –	Work in this area will occur within the mule decomined winter range restriction. The Certificate Holder is preparing anhas prepared an exception request to perform work in mule deer winter range during the winter range restriction.  While the nest buffer intersects the site boundary there are no ground disturbing activities proposed within the nest buffer. All Facility components we removed from nest buffer during micrositing.  While the nest buffer intersects the site boundary there are no ground disturbing activities proposed within the nest buffer. All Facility components we removed from nest buffer during micrositing.

Condition CON-FW-02-01 states that no construction shall occur in mule deer winter range during winter, defined as December 1 to March 31. In order to avoid ground disturbing activities within a raptor nest buffer (Nest ID 3789; Table 3) during the nesting period, the Certificate Holder must perform work associated with Turbine 111 during the mule deer winter restriction period. This includes constructing approximately 1,500 feet of access road; blasting, excavating, and pouring a concrete turbine foundation; erecting the turbine; and trenching collection lines. This would occur in revegetated grassland and dryland wheat habitat. Due to construction scheduling, work must be performed within mule deer winter range during the winter range seasonal restriction, starting on or about the third week of February, 2020. The Certificate Holder will prepare has prepared an exception request to condition CON-FW-01 to perform this work, including a plan to avoid, minimize, and mitigate for impacts on mule deer winter range during the seasonal restriction.

Condition PRE-TE-03 states that the Certificate Holder will avoid ground disturbance where Laurent's milkvetch (*Astragalus collinus* var. *laurentii*) occurs. Pre-construction surveys identified

this plant within the site boundary (Tetra Tech 2019b). The extent of the population is such that micrositing within the site boundary cannot avoid impacts to the population. The Certificate Holder has prepared an exception request to condition PRE-TE-03 to perform this work, including a plan to avoid, minimize, and mitigate for impacts on the rare plant population.

## 5.0 Temporary and Permanent Impacts

The construction area for Wheatridge West is confined to the regulatory site boundary/micrositing corridors included in the Site Certificate, as shown in Figure 1. The Wheatridge West components and their assumed temporary and permanent impact acreage are shown in Table 4, as required by condition PRE-FW-01. The SCADA system is incorporated into the components listed in Table 4. The temporary disturbance areas for each component often overlaps with the temporary disturbance areas for other components; therefore, the values presented in Table 4 should not be compared against the temporary disturbances by habitat subtype presented in this HMP. For instance, the collection system is usually sited adjacent to access roads and turbine pads, and their temporary disturbance areas overlap. See Table 5 for the presentation of temporary and permanent impact acreages that considers this overlap.

Table 4. Assumed Temporary and Permanent Impact Acreage for Wheatridge West Components

Component	Temporary Disturbance per Component <sup>1</sup>	Permanent Disturbance per Component	Number of Components	Project-Wide Temporary Disturbance by Component <sup>1</sup>	Project-Wide Permanent Disturbance by Component
Turbine <sup>2</sup>	1.57acres	0.05 acres	120	188.4 acres	6.0 acres
Collector Substation	N/A³	1.69 acres <sup>4</sup>	1	N/A	1.69 acres
O&M Building	N/A³	0.86 acres <sup>4</sup>	1	N/A	0.86 acres
Collection System	4.8 acres per mile <sup>5</sup>	N/A <sup>6</sup>	134.9 miles	647.5 acres	N/A <sup>6</sup>
Met Towers	0.04 acres	0.01 acres	4	0.16 acres	0.04 acres
Access Roads	4.2 acres per mile <sup>7</sup>	1.9 acres per mile <sup>8</sup>	42 miles	176.4	80.4
Temporary Construction Area 1	30.7	N/A <sup>6</sup>	1	30.7	N/A <sup>6</sup>
Temporary Construction Area 2	22.1	N/A <sup>6</sup>	1	22.1	N/A <sup>6</sup>
Project-Wide Grand	Total		1,065.38	89.0	

Note: All disturbances are estimates based on GIS measurements.

<sup>1.</sup> Temporary disturbance does not include the footprint of the permanent disturbance.

	Temporary Disturbance per Component <sup>1</sup>	Permanent		Project-Wide	Project-Wide
Component		Disturbance	Number of	Temporary	Permanent
Component		per	Components	Disturbance by	Disturbance by
		Component		Component <sup>1</sup>	Component

<sup>2.</sup> Turbine temporary disturbance assumes a 150-foot radius work area around the center of turbine minus the permanent disturbance footprint. Turbine permanent disturbance extends 20 feet around center of turbine and includes the driveway.

- 3. N/A = not applicable. There are no temporary disturbances associated with this Facility component.
- 4. Includes driveway.
- 5. This assumes a 40-foot wide ground disturbance centered on the collection line.
- 6. N/A = not applicable. There is no permanent disturbance associated with this Facility component.
- 7. Access roads temporary disturbance assumes a 50-foot wide temporary ground disturbance centered on the access road minus the permanent disturbance footprint. The access roads permanent disturbance assumes a 16-foot wide permanent road surface.
- 8. This total includes 398 acres of overlap between the assumed temporary disturbance area of all Facility components. The actual temporary disturbance minus overlap is 667.3 acres (Table 5).

Table 5. Temporary and Permanent Impacts by Habitat Category and Habitat Subtype in Wheatridge West

		Impacts (acres) <sup>1</sup>			
Habitat Category and Habitat Su	btype	Temporary	Permanent		
ategory 2					
eveloped-Revegetated or Other Planted Grasslar	nd	87.4	16.3		
rassland-Exotic Annual		10.3	1.4		
rassland-Native Perennial		18.3	3.1		
ubtotal Category 2		115.9	20.9		
ategory 3					
eveloped-Revegetated or Other Planted Grasslar	nd	44.4	3.5		
rassland-Native Perennial		32.7	5.5		
hrub-steppe-Basin Big Sagebrush		1.5	0.4		
hrub-steppe-Rabbitbrush/Snakeweed		2.4	0.0		
ubtotal Category 3		80.9	9.4		
ategory 4					
rassland-Exotic Annual		17.5	1.4		
hrub-steppe-Rabbitbrush/Snakeweed		0.3	0.0		
ubtotal Category 4		17.8	1.5		
ategory 6					
eveloped-Dryland Wheat		451.7	57.2		
eveloped-Other	1.0	0.1			
ubtotal Category 6		452.6	57.3		
otal for Wheatridge West	756.3	667.3	89.0		

Impacts may be permanent or temporary. Permanent impacts are defined as those impacts that will exist for the life of the Facility. Temporary impacts are those impacts that will be limited to the construction period, although recovery of habitat will vary by type. For example, the recovery period for agricultural areas that are temporarily disturbed could be as short as 1 to 3 years, while grasslands generally recover within 3 to 7 years and shrublands may require 10 to 50 years to recover (with the longer recovery periods being associated with mature sagebrush habitats). The Certificate Holder will restore temporary impacts consistent with the Revegetation Plan.

Pre-construction Washington ground squirrel surveys did not identify any colonies within the survey area associated with Wheatridge West (Tetra Tech 2019a). Therefore, **there are no impacts to Category 1 habitat**. Also, these surveys did not identify any Washington ground squirrel colonies whose associated areas of potential Washington ground squirrel use extend into the Wheatridge West site boundary. Therefore, there are no impacts to Category 2 Washington ground squirrel habitat, and the only impacts to Category 2 habitat comes from overlap with ODFW mule deer winter range.

Table 5 shows the acres of permanent and temporary impacts in each habitat category by habitat subtype for Wheatridge West. No wetlands, perennial streams or other aquatic habitats are addressed in this document because no components of the Facility are planned for these habitat types. Figure 1 shows all areas of temporary and permanent disturbance by habitat category and habitat subtype.

### 6.0 Methods for Calculating Mitigation

The HMP included in the ASC had used either a 2:1 or >1:1 ratio for impacts on Category 2 habitat, depending on whether or not that habitat is within big game winter ranges. Condition PRE-FW-04(g) of the site certificate establishes that mitigation ratios for Category 2 habitat should all be the same, and that mitigation should be proposed for temporary impacts to Category 4 shrub-steppe habitat (EFSC 2017). In a conference call on November 8, 2019, ODFW provided further clarification to ODOE and the Certificate Holder that temporary impacts to Category 2 grasslands (including native, annual, and revegetated grasslands) would not require mitigation and that revegetation of those temporary disturbances should be adequate. The ratios hasve been modified so that all impacts on Category 2 habitat are mitigated at a 2:1 ratioto reflect all ODFW input. In addition, temporary impacts on Category 4 shrub-steppe habitat are mitigated at a <1:1 ratio, instead of not having mitigation. Table 6 shows the methods for calculating mitigation for permanent impacts and Table 7 shows the methods for calculating mitigation for temporary impacts. The Certificate Holder is not proposing compensatory mitigation under the ODFW Fish and Wildlife Habitat Mitigation Policy for impacts to Category 6 habitat.

**Table 6. Calculating Mitigation for Permanent Impacts** 

Habitat Category	Impact Acres	Mitigation Ratio <sup>1</sup>	Mitigation Description
Category 2	1	2	The mitigation goal for Category 2 habitat is "no net loss" and "net benefit." Accordingly, mitigation for permanent impacts on Category 2 habitat needs to demonstrate a net benefit in quality or quantity.
Category 3 and Category 4	1	1	The mitigation goal for Category 3 and 4 habitat is "no net loss" in quantity or quality.
Category 6	tegory 6   1   ()		The mitigation goal for impacts on Category 6 habitat is minimization; no compensatory mitigation proposed.

<sup>1.</sup> Mitigation ratios follow recommendations included in the August 27, 2019 comment letter from ODFW to ODOE regarding the Draft Proposed Order for RFA 4.

**Table 7. Calculating Mitigation for Temporary Impacts** 

Tuble / Guidulum grandguron for Temporary Impacts						
Habitat Category	Habitat Subtype	Impact Acres	Mitigation Ratio <sup>1</sup>	Mitigation Description		
Category 2	Grassland-Native Perennial, Grassland-Exotic Annual, Shrub- steppe Rabbitbrush/ Snakeweed, Developed- Revegetated or Other Planted Grassland	1	<u> 40</u>	The mitigation goal for Category 2 habitat is "no net loss" and "net benefit." Accordingly, mitigation for temporary impacts on Category 2 habitat needs to demonstrate a net benefit in quality or quantity. Mitigation would be a greater amount of acreage than what is impacted by the project. All areas of temporary disturbance would be restored at the site of impact to meet the "no net loss" requirement. The proposed mitigation ratio for permanent impacts (Table 6) to grasslands would meet the "net benefit" requirement for all impacts to Category 2 grasslands and would account for the temporary loss of habitat function during restoration.		
	Shrub-steppe-Basin Big Sagebrush	1	1	The mitigation goal for Category 3 and 4 habitat is "no net loss" in quantity or		
Category 3	Grassland-Native Perennial, , Shrub-steppe- Rabbitbrush/Snakeweed	1	0.5	quality. Depending on the habitat subtype temporarily disturbed, the proposed mitigation ratio would result		
	Grassland-Native Perennial.  Developed-Revegetated or Other Planted Grassland	1	0	in an equal or lesser amount of acreage of mitigation than what is impacted by the project. Combined with restoration of temporary disturbances, the proposed		
Catagowy	Shrub-steppe-Rabbitbrush/ Snakeweed	1	0.5	mitigation ratio is intended to account for the temporary loss of habitat functionality and meet the "no net loss" goal. Temporary disturbances to		
Category 4	Grassland Native Perennial, Grassland-Exotic Annual	1	0	Category 3 Developed-Revegetated or Other Planted Grassland and Category 4 Grasslands are not mitigated beyond restoration.		
Category 6	Developed-Dryland Wheat, Developed-Other	1	0	The mitigation goal for Category 6 habitat is minimization; no compensatory mitigation is proposed. t letter from ODFW to ODOE regarding the Draft		

<sup>1.</sup> Mitigation ratios follow recommendations included in the August 27, 2019 comment letter from ODFW to ODOE regarding the Draft Proposed Order for RFA4.

## 7.0 Estimated Mitigation for Wheatridge West Wind

Table 8 applies the acres of temporary and permanent impacts shown in Table 5 with the mitigation ratios shown in Table 6 and Table 7 to estimate mitigation requirements.

Table 8. Estimated Mitigation by Habitat Category and Habitat Subtype

Habitat Category <sup>1</sup>	Habitat Subtype	Impact	Acres	Mitigation Ratio	Estimated Mitigation <sup>2</sup>	Mitigation Subtotal by Habitat Category <sup>2</sup>
2	Developed- Revegetated or Other Planted Grassland	Temp	87.4	<u> 40</u>	<del>87.4</del> 0	41.8 <sup>157.8<sup>23</sup></sup>
		Perm	16.3	2	32.7	
	Grassland- Exotic Annual	Temp	10.3	<u> 40</u>	<del>10.3</del> 0	
		Perm	1.4	2	2.9	
	Grassland- Native Perennial	Temp	18.3	<u> 40</u>	<del>18.3</del> 0	
		Perm	3.1	2	6.2	
	Developed- Revegetated or Other Planted Grassland	Temp	44.4	0	0.0	<del>28.5</del> 12.1
		Perm	3.5	1	3.5	
	Grassland- Native Perennial	Temp	32.7	<del>0.5</del> <u>0</u>	<del>16.4</del> 0	
3		Perm	5.5	1	5.5	
3	Shrub-steppe- Basin Big Sagebrush	Temp	1.5	1	1.5	
		Perm	0.4	1	0.4	
	Shrub-steppe- Rabbitbrush/ Snakeweed	Temp	2.4	0.5	1.2	
		Perm	0.0	1	0.0	
4	Grassland- Exotic Annual	Temp	17.5	0	0.0	1.6
		Perm	1.4	1	1.4	
	Shrub-steppe- Rabbitbrush/ Snakeweed	Temp	0.3	0.5	0.2	
		Perm	0.0	1	0.0	
TOTALS					<del>187.9</del> 55.5	

 $<sup>1. \</sup> No\ mitigation\ is\ accrued\ for\ impacts\ on\ Category\ 6\ habitat.$ 

<sup>2.</sup> Totals in this table may not be precise due to rounding.

<sup>23.</sup> All Category 2 habitat mitigation originates from impacts in mule deer winter range.

### 8.0 Habitat Mitigation Area

The Habitat Mitigation Area (HMA) is the area where the Certificate Holder is proposing to perform enhancement and preservation actions that are in addition to the revegetation of areas of temporary disturbance associated with the Facility. The HMA must be large enough and have the characteristics to meet the standards set in OAR 635-415-0025.

According to ODFW standards, areas appropriate for mitigation of Category 2 and Category 3 habitat impacts must provide "in-kind" mitigation which creates similar structure and function to that being disturbed and also be "in-proximity" to the Project and have potential for habitat enhancement. The Certificate Holder identified privately-owned land that contains native and revegetated uplands of interest and importance for conservation. The Certificate Holder also looked for land that is within designated mule deer winter range. The Certificate Holder has secured an option agreement for up to 300 acres to be placed into a conservation easement where the HMA will be located. Once finalized, the executed conservation easement will be provided to ODOE.

#### 8.1 Habitat Assessment and Mitigation Accounting

The Certificate Holder has identified a 187.9-acre parcel of suitable in-kind and in-proximity habitat on 2,100 acres of private land along Rock Creek in Gilliam County within which they will establish a 55.5-acre HMA. Per Condition PRE-FW-04(d), a habitat assessment of the HMA has occurred, using methods approved by ODFW (Appendix A). Primary habitat subtypes were delineated on the property by qualified biologists (the private landowners of the HMA) using an intuitive meandering pedestrian survey. The 187.9-acre parcel that will contain the 55.5-acre HMA includes two primary habitat subtypes: 1 - Native Perennial Grassland and Shrub-steppe Mosaic; and 2 - Revegetated or Other Planted Grassland (Figure 2). A few rock escarpments also occur within the **HMAparcel**. These habitats correspond with those being impacted by Wheatridge West (Section 5.0). The Native Perennial Grassland and Shrub-steppe Mosaic includes native perennial grassland areas interspersed with sagebrush, rabbitbrush, and snakeweed. Representative photos of each habitat subtype are included in Appendix B. The primary habitat subtypes within the 187.9-acre parcel that will contain the 55.5-acre HMA correspond to Category 3 and Category 4 habitat subtype descriptions for Wheatridge West. However, the primary habitat subtypes in the 187.9-acre parcel that will contain the 55.5-acre HMA are in designated mule deer winter range (ODFW 2012) and are therefore modified to a Category 2 habitat.

Table 9 shows the acres of primary habitat subtypes that occur within the 187.9-acre parcel that will contain the 55.5-acre HMA that would provide a no net loss and/or a net benefit for areas disturbed by Wheatridge West. Table 10 shows the mitigation accounting that results in a net benefit for impacts in Category 2 habitat and a no net loss for impacts in Category 3 and Category 4 habitat.

Table 9. Primary Habitat Subtypes that Occur on the HMA

Habitat Category	Primary Habitat Subtype	Acres	Description
2	Native Perennial Grassland and Shrub- steppe Mosaic	90	Soil type and depth varies but is mostly deep loamy soils. Some shallow soils on plateaus and west or south facing slopes (stony loam). Small basalt escarpments on slopes. Canyons include small seeps and springs and basin wildrye, wild rose, clematis, larkspur and phacelia.  Dominated by native perennial bunchgrass consisting of bluebunch wheatgrass, Sandberg's bluegrass, Idaho fescue and needle-and-thread grass. Scattered mature and young shrubs, not dense except in canyons. Sagebrush and rabbitbrush. Small areas of broom snakeweed scattered in disturbed areas. Numerous native forb species such as phlox, balsamroot, woolypod milkvetch, lupine, mariposa lily, shooting star and many others.  Includes small patches of exotic annual grass and/or weeds (cheatgrass, bulbous bluegrass, cereal ryegrass, ventenata, tumblemustard, etc.). Open, low shrubs such as snakeweed and rabbitbrush in the annual grass sites.  Shrub-steppe Mosaic  Shrub-steppe Mosaic  Shrub-steppe patches in predominantly grassland habitat. Shrublands are dominated by cover of basin big sagebrush, some gray and green rabbitbrush and broom snakeweed. Open low shrubs such as buckwheats (Erigonum sp.) found in patches.
	Revegetated or Other Planted Grassland	97.9	Soils are mostly silt-loam. Perennial grassland revegetated after being previously farmed for dryland wheat, some historically enrolled in the Conservation Reserve Program or other previously farmed sites. Mature grasslands dominated by intermediate and tall wheatgrass and Sandberg or bulbous bluegrass, some fescue. Enhancements in the past ten years in some areas (seeding native perennials such as bluebunch wheatgrass, Idaho fescue, Sandberg's bluegrass and bottlebrush squirreltail) Residual (not previously plowed) native vegetation patches in a few locations and also on steeper slopes next to native perennial grassland. Scattered mature and young shrubs throughout (gray or green rabbitbrush, sagebrush), brome snakeweed in disturbed areas. Includes small patches of exotic annual grassland and/or weeds. Non-native forbs such as salsify, storksbill and field bindweed and native forbs such as lupine, shaggy fleabane and common yarrow.

**Table 10. Mitigation Accounting** 

Impacted	Impacted Habitat Category	Mitigation Debit from Table 8 (Acres)	HMA Primary H Mitigation Credit -	Mitigation	
Habitat Subtype			Revegetated or Other Planted Grassland	Native Perennial Grassland and Shrub-steppe Mosaic	Debit Balance (Acres)
Developed- Revegetated or Other Planted Grassland		<u>-120.132.7</u>	± <del>97.9_</del> 32.7	<del>22.2</del> _	0
Grassland- Exotic Annual	2	- <u>13.2</u> 2.9	-	<u>+13.22.9</u>	0
Grassland- Native Perennial		<u>-24.56.2</u>	-	± <del>24.5</del> 6.2	0
All Remaining Habitat	3 and 4	- <del>30.1</del> 13.7	-	± <del>30.1</del> 13.7	0
HMA Credi	HMA Credit Subtotal by Habitat Subtype			<del>90.0</del> 22.8	
HMA Credit Grand Total			<del>187.9</del> 55.5		

Wildlife species usage of the approximately 2,100-acre property in which the HMA lies has been recorded for the past 11 years and is similar to what has been recorded during surveys of Wheatridge West. There are 152 bird species recorded from the property containing the HMA. This includes special status nesting bird species such as grasshopper sparrow. Several species of raptors, including golden eagle and ferruginous hawk, have been documented hunting on the property containing the HMA and some species nest onsite or in the general area. Mule deer and occasionally elk are observed wintering in the HMA and nearby. Appendix C includes a list of wildlife species observed at the property. Wind-blown ridges and south-facing slopes provide for early green-up big game forage. Other long-term conserved habitat (approximately 324 acres) consisting of Native Perennial Grassland and Shrub-steppe Mosaic, cliffs and escarpments along canyons is nearby (Figure 2). The property containing the HMA-supports documented Washington ground squirrel use areas and habitat. With the addition of this HMA, a larger more contiguous tract of preserved habitat will be available for wildlife that provides important functionality and connectivity along Rock Creek in the Columbia Plateau.

#### 8.2 Habitat Enhancement Actions

The HMA will be placed into a conservation easement that will not allow development of the HMA for the life of the Facility. Besides such legal protection to ensure no development, potential enhancement actions for the HMA include the following.

 Grazing practices compatible with conservation—wildlife habitat values will have priority and incompatible livestock grazing practices will not be allowed.

• The Certificate Holder will work with the landowner to monitor and control Countydesignated noxious weeds impacting wildlife habitat quality across the entire HMA.

- Seeding and planting sagebrush—sagebrush will be planted on 1.9 acres of the HMA (Figure 2) to account for the temporary (1.5 acres) and permanent disturbance (0.4 acres) to 1.9 acres of Category 3 Shrub-steppe with Basin Big Sagebrush habitat subtype. Sagebrush planting will provide year-round thermal and hiding cover and browse for mule deer.
- - No vehicular travel will be permitted during periods of high fire potential.
  - When any spark producing equipment is being used onsite, the operator and assistants will have fire suppression items readily available and cell phones for calling responders if needed.
  - Fire response and suppression would be handled by the North Gilliam County Rural
     Fire Protection District, 1500 Railroad Ave, Arlington, OR 97812, (541) 454-2900.
  - Suppression efforts would be tailored to the habitat subtypes on the HMA, such as allowing grass fires while focusing suppression on sagebrush plantings.
- Modification of winter human activities— commitment to minimize human-caused disturbance to mule deer during the winter period will enhance the HMA's ability to provide quality winter range. Some of the desirable winter range values described by ODFW are thermal cover, security from predation and harassment, adequate nutritional and escape from disturbance (ODFW 2013).
- Wildlife Projects:
  - Where old barbed wire fence on the HMA presents potential problems for big game and other wildlife, the Certificate Holder will work with the landowner to remove such fencing. An estimated 0.25-miles of old interior fencing is laid down or not functioning within the HMA boundary.
  - Upland gamebird/CRP-type guzzler as a watering source for wildlife. Example would be a full-ramp 500-gallon guzzler by Rainmaker Wildlife.
- Habitat protection will involve restricting any uses of the HMA that would be inconsistent with the goals of no net loss of habitats in Categories 2, 3, and 4 and a net benefit to Category 2 habitat quantity or quality.

#### 8.3 HMA Monitoring

The Certificate Holder will hire a qualified, independent investigator (wildlife biologist, botanist, or revegetation specialist) to conduct monitoring at the HMA and the success of its protection and

(within applicable acres) enhancements. Monitoring duration is for the life of the Facility, with annual monitoring occurring over the first 5 years. After Year 5, a long-term monitoring plan will be developed in consultation with ODOE and ODFW. At a minimum, annual monitoring for the first 5 years will include assessments of:

- Description of the amount and quality of vegetation at the HMA. Describe year-to-date climate data;
- Success of weed control measures;
- Degree of recovery of native grasses and forbs following disturbances such as habitat enhancement actions, fire, or erosion;
- Success of sagebrush plantings monitored in a 50- by 100-foot plot within each of the two
  planting areas (Figure 2). Three 50-foot transects will be established perpendicular to the
  long side of the plot. The transect monitoring will be of 6-foot wide belt transects with all
  shrubs occurring within the belt transect being recorded;
- Wildlife observed and notes on special status species (wildlife and plants) present;
- Observations of wintering mule deer will be recorded as observed from a distance (so disturbance is kept at a minimum); and
- Maintenance needs of guzzler.

Methods and results of all monitoring will be reported to ODOE and ODFW, along with a report of the mitigation/enhancement measures undertaken since the last monitoring report. An annual monitoring report outline is included as Appendix D. This outline is subject to change based on actual executed easement.

#### 8.4 HMA Success Criteria

The goal of the habitat mitigation described herein is to protect and enhance a sufficient quantity of habitat to meet ODFW standards of no net loss of habitat Category 3 and Category 4 and a net gain in habitat quantity and quality of Category 2. Habitat protection alone—apart from enhancement—is not sufficient to meet the net-benefit criterion for Category 2 habitat. The entire HMA is within Category 2 mule deer winter range, so modifying the category through habitat enhancement actions is not possible. However, habitat enhancement actions will be implemented, and progress can be monitored against baseline conditions to determine success. It is also assumed that the Category 2 habitat in the HMA is currently functioning at a higher quality than the Category 2 habitat being disturbed at the Facility because the HMA contains a greater acreage of contiguous native grassland and shrub-steppe mosaic compared to what is being impacted by the Facility (122 acres at the HMA versus approximately 60 acres impacted by the Facility). Table 11 shows the success criteria for the habitat enhancement actions proposed in Section 7.2.

**Table 11. HMA Success Criteria** 

Habitat Enhancement Action	Success Criteria		
Grazing practices compatible with	The Easement terms state that grazing, nature study, and other land uses are permitted provided that conservation and wildlife habitat values and wildlife use shall take precedence and priority where such uses are or may be deemed incompatible.		
conservation	Under the current ownership, no grazing is expected. If grazing is used in the future, monitoring of shrub recruitment and recruitment of other desirable shrub-steppe species can occur through photo point monitoring and qualitative observations.		
County-designated noxious weed control	Control of County-designated noxious weeds at the HMA. Photo point monitoring will show that known sites of noxious weeds are not expanding or have been reduced or eliminated. Chemical control is the most likely method to be used; however, mechanical control methods may also be used depending on site-specific conditions.		
Planting of sagebrush.	Successful establishment of sagebrush on 1.9 acres of the HMA in two areas (Figure 2). Photo point monitoring will show successful shrub establishment where planted. The average density or frequency of the shrub component should be at least 50 percent of the reference site established at the Facility for revegetation monitoring.		
Fire response plan	Deliver a plan for the HMA to the North Gilliam County Rural Fire Protection District		
Modification of winter human activities	Minimize human disturbance on the HMA from December 1 to March 31. Schedule routine ranch activities to be performed during other times of the year. There are no public roads or access points in or adjacent to the HMA. Ensure that signage where public roads intersect with access points to the property within which the HMA is located are clearly marked as private property with no trespassing.		
Removal of old barbed wire fences	Removal and disposal of approximately 0.25-miles of old barbed wire fencing will be deemed successful through photographic documentation.		
Installation of a wildlife guzzler	This action will be deemed successful after installation is complete.  Monitoring reports will confirm continued operation and describe any maintenance activities performed to keep the guzzler in operation.		

## 9.0 Implementation Schedule

As required by condition PRE-FW-04 (e), Table 12 includes a schedule for implementation of all mitigation actions, including those covered in other pre-construction compliance plans.

**Table 12. Mitigation Implementation Schedule** 

Mitigation Action	Schedule	Associated Plan
Restoration and revegetation of temporary construction-related impacts at the Facility.	As soon as possible following construction. Late fall seeding, just before the soil freezes, is typical when seeding grasses in the Columbia basin shrub-steppe ecoregion. Seeding can occur through early spring.	Wheatridge Wind Energy Project Revegetation Plan
Monitoring revegetation success at the Facility.	Annually for the first 5 years. Annual monitoring is anticipated to occur in the fall, with the annual monitoring report being provided the following spring.  The Certificate Holder will consult with ODOE and ODFW to design a	Wheatridge Wind Energy Project Revegetation Plan
Monitoring weed control in the Facility revegetation areas.	long-term monitoring schedule.  Annually for the first five years. Early detection is paramount for successful weed control. Therefore, monitoring may occur earlier in the growing season and again during revegetation monitoring. Reporting on noxious weeds will be included in the revegetation annual monitoring report.  The Certificate Holder will consult with ODOE and ODFW to design a long-term monitoring schedule.	Wheatridge Wind Energy Project Noxious Weed Control Plan
Securing the conservation easement establishing the HMA.	Prior to commencing construction.	Wheatridge Wind Energy Project Habitat Mitigation Plan
Performing habitat enhancement actions at the HMA.	Concurrently with construction.	Wheatridge Wind Energy Project Habitat Mitigation Plan
Monitoring habitat enhancement actions at the HMA.	Annually for the first 5 years. Annual monitoring is anticipated to occur in the fall, with the annual monitoring report being provided the following spring.  Then the Certificate Holder will consult with ODOE and ODFW to design a long-term monitoring schedule.	Wheatridge Wind Energy Project Habitat Mitigation Plan

#### 10.0 Amendment of the HMP

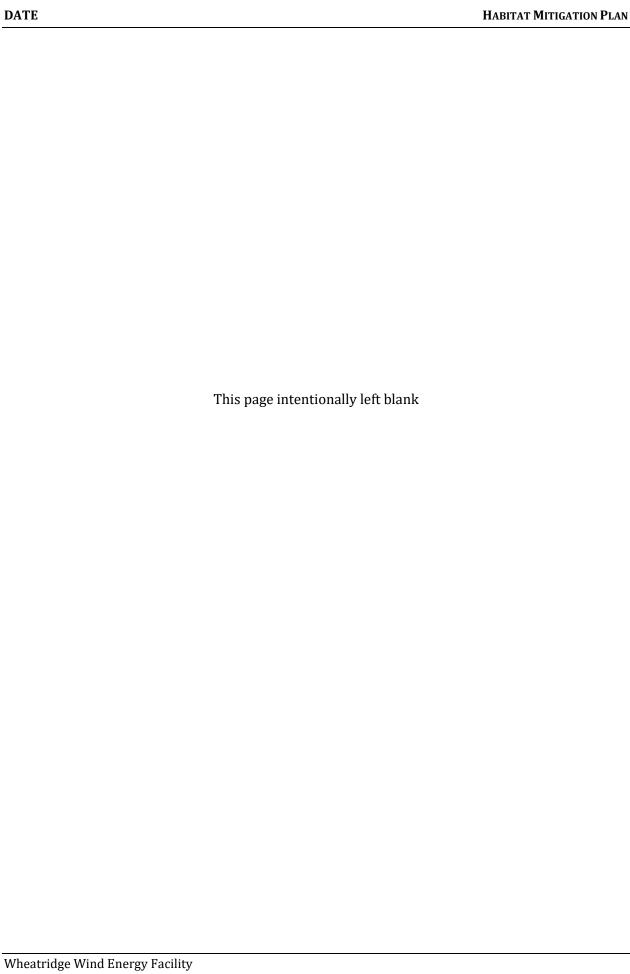
The final HMP may be amended from time to time by agreement of the Certificate Holder and EFSC. Such amendments may be made without amendment of the site certificate. EFSC authorizes ODOE to agree to amendments to this plan. ODOE shall notify EFSC of all amendments, and EFSC retains the authority to approve, reject, or modify any amendment of this plan agreed to by ODOE.

#### 11.0 References

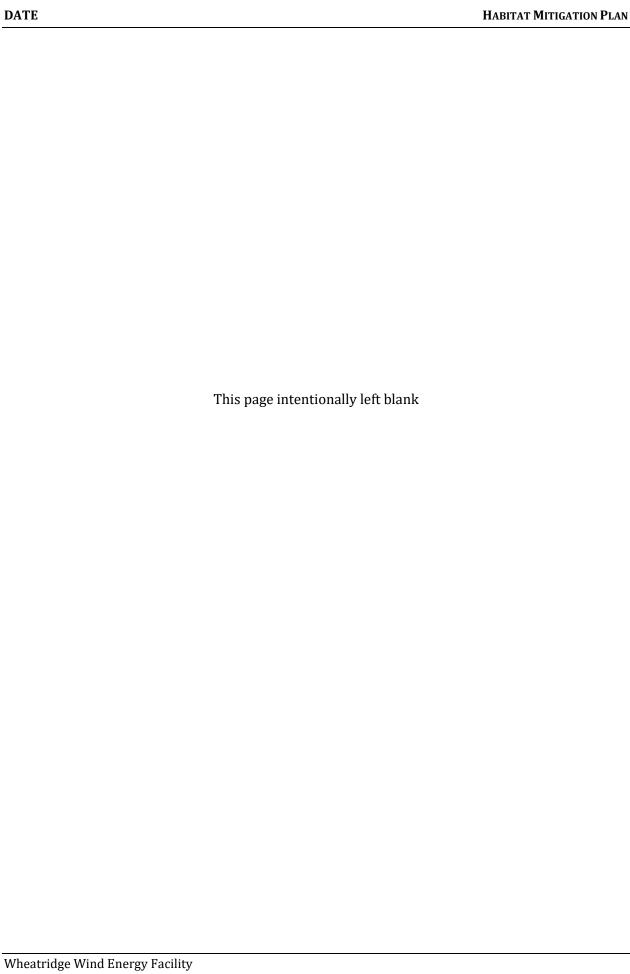
- EFSC (Energy Facility Siting Council). 2017. Final Order: In the Matter of the Application for a Site Certificate for the Wheatridge Wind Energy Facility. April 2017.
- ODFW (Oregon Department of Fish and Wildlife). 2012. Elk and Deer Winter Range for Eastern Oregon, East of the Crest of the Cascades. GIS data files (2). Available online at: https://nrimp.dfw.state.or.us/DataClearinghouse/default.aspx?p=202&XMLname=885.xml
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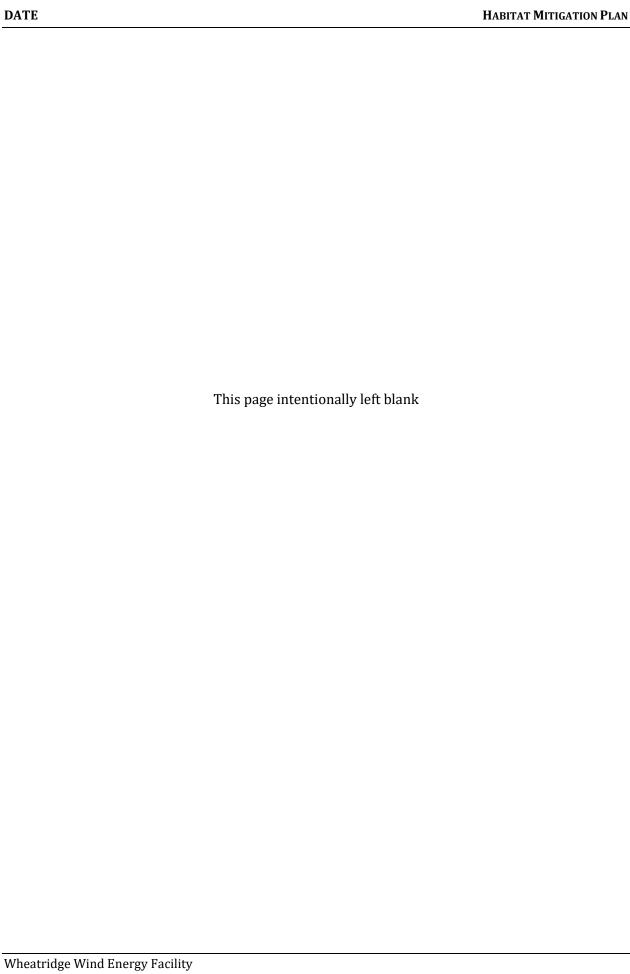
## **Figures**



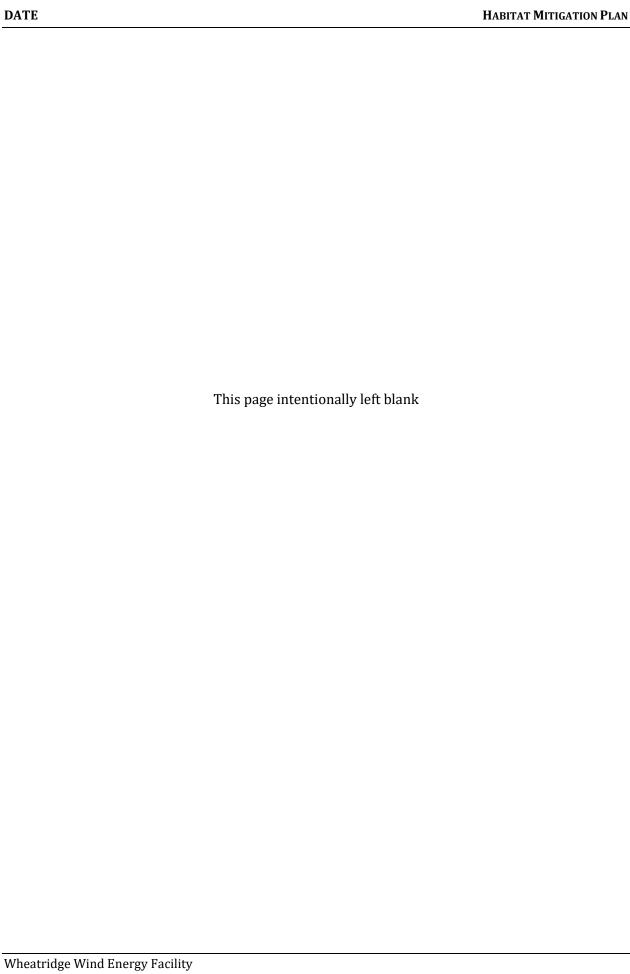
# Appendix A. Email Approval from ODFW on Habitat Categorization Surveys



# **Appendix B. Photolog**



Appendix C. Wheatridge Habitat
Mitigation Area and Surrounding Area
Comprehensive List of All Vertebrate
Wildlife Observed 2008–2019



## Appendix D. Wheatridge Wind Energy Facility's Habitat Mitigation Area Annual Reporting Outline

