

Biological Constraints Report

Project Name: Humboldt County Bundle CDP #7_Transmission	Date of Preparation: 11/25/2024
Project Location: On land managed by the Coastal Zone under the jurisdiction of the Humboldt County Local Coastal Program (LCP).	Order Number: 8210333
Latitude/Longitude: 40.770468, -124.123847	BCR ID: BCR-051751
PG&E Biological Contact: Nicole Christie	
Name of Preparer(s): Sara Viernum, Stantec	
Surveys Recommended	
No	
Monitoring Recommended	
No	
Summary/List of Biological Constraints	
<p>A desktop review determined the proposed Pacific Gas and Electric Company (PG&E) Vegetation Management (VM) work has the potential to affect ten special-status animal species, one special-status plant species, and nesting birds. The work areas fall within the Multiple Region Operations and Maintenance Habitat Conservation Plan (MRHCP). With implementation of MRHCP VM Best Management Practices (BMPs) the avoidance and minimization measures (AMMs) described below, impacts to these species are not anticipated.</p> <p>The MRHCP provides PG&E with federal take authorization for all gas and electric operation and maintenance activities in the Plan Area during the 30-year permit term. The work locations fall under the MRHCP activity type E10a, Vegetation Management Routine Maintenance.</p>	
Project Description	
<p>Pacific Gas & Electric Company (PG&E) proposes routine vegetation management along several transmission lines within Humboldt County including the Humboldt – Eureka 60 kilovolt (kV) line, the Humboldt Bay – Rio Dell Jct 60 kV line, and the CR-Humboldt Bay-Humboldt 115 kV line. All locations are within the Coastal Zone under the jurisdiction of the Humboldt County Local Coastal Program (LCP).</p> <p>Work includes the removal of 59 trees at 57 locations, and the removal of 20 brush units at 1 location, for a total of 58 locations. Of the 59 tree removals, all have a diameter at breast height (DBH) of 13-inches or greater.</p> <p>Equipment to be utilized by the crews for this project will include chainsaws, pole runners, hand saws, pickup trucks, chip trucks, lift trucks and tow behind chippers. There is anticipated to be no ground disturbance associated with this scope of work.</p>	
Access	
Tree crews will access via existing paved roads and PG&E access roads, including existing foot paths.	

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Habitat Types			
Grassland Annual;Grassland Perennial;Oak Woodland;Mixed Conifer;Riparian;Ruderal or Landscaped;Other			
<p>Notes: The following is a list of vegetation types and plant communities at the work areas, as defined in the Introduction to California Plant Life, Revised Edition (Ornduff, revised by Faber and Keeler-Wolf, 2003)*</p> <ul style="list-style-type: none"> Coastal Prairie: This vegetation type occurs in several work areas. It is dominated by a variety of perennial and annual grasses. It also includes ferns and forbs, such as Douglas iris (<i>Iris douglasiana</i>), bracken fern (<i>Pteridium aquilinum</i>), salal (<i>Gaultheria shallon</i>), and yellow mats (<i>Sanicula arctopoides</i>). North Coastal Forest: This vegetation type is located in several work areas and is dominated by Douglas fir (<i>Pseudotsuga menziesii</i>), sitka spruce (<i>Picea sitchensis</i>), grand fir (<i>Abies grandis</i>), Bishop pine (<i>Pinus muricata</i>), Monterey pine (<i>Pinus radiata</i>), live oak (<i>Quercus chrysolepis</i>), and coast redwood (<i>Sequoia sempervirens</i>). Associated tree species includes tanoak (<i>Notholithocarpus densiflorus</i>), big leaf maple (<i>Acer macrophyllum</i>), and madrone (<i>Arbutus menziesii</i>). Understory species can include poison oak (<i>Toxicodendron diversilobum</i>), rhododendron (<i>Rhododendron macrophyllum</i>), California blackberry (<i>Rubus ursinus</i>), evergreen huckleberry (<i>Vaccinium ovatum</i>), and English ivy (<i>Helix hedera</i>). Closed-Cone Pine Forest: This vegetation type occurs in several work areas and may be dominated by Monterey cypress (<i>Hesperocyparis macrocarpa</i>), Monterey pine (<i>Pinus radiata</i>), and shore pine (<i>Pinus contorta</i> ssp. <i>contorta</i>). The understory ranges from sparse to moderate cover and may include species such as manzanita (<i>Arctostaphylos</i> spp.), coyote brush (<i>Baccharis pilularis</i>), coffee berry (<i>Rhamnus californica</i>), California wax myrtle (<i>Morella californica</i>), poison oak (<i>Toxicodendron diversilobum</i>), and bracken fern (<i>Pteridium aquilinum</i>). Riparian Woodland. This vegetation type occurs in several work areas and is dominated by red alder (<i>Alnus rubra</i>), black cottonwood (<i>Populus trichocarpa</i>), big leaved maple (<i>Acer macrophyllum</i>), California bay (<i>Umbellularia californica</i>), and willow species (<i>Salix</i> spp.). The herbaceous layer is typically sparse, but may support sedges (<i>Carex</i> spp.) and rushes (<i>Juncus</i> spp.). <p>*Ornduff described a simplified classification of California vegetation into 23 types in his Introduction to California Plant Life (1974), based largely on the classification developed by Munz in A California Flora (1959). This version with updated nomenclature was published in Introduction to California Plant Life, Revised Edition (Ornduff, revised by Faber and Keeler-Wolf; University of California Press, 2003). Please consult the original publication for details.</p>			
Site Visit?	No	If yes, provide date and attach photo(s):	
Special Status Species¹		CNDDB Records (1.5-mile radius)	Suitable Habitat
<i>Plant species</i>			
Beach layia <i>Layia carnosa</i> FT, SE, CRPR 1B.1	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Menzies' wallflower <i>Erysimum menziesii</i> FE, SE, CRPR 1B.1	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Western lily <i>Lilium occidentale</i>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	

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FE, SE, CRPR 1B.1			
Animal species			
Bald eagle <i>Haliaeetus leucocephalus</i> FP, SE, Delisted	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
Bank swallow <i>Riparia riparia</i> ST	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Coho salmon - southern Oregon/northern California ESU <i>Oncorhynchus kisutch</i> FT, ST	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
Eulachon - southern DPS <i>Thaleichthys pacificus</i> FT	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
Longfin smelt <i>Spirinchus thaleichthys</i> FE, ST	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
Northern spotted owl <i>Strix occidentalis caurina</i> FT, ST	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
Northwestern pond turtle <i>Actinemys marmorata</i> SSC	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
Southern green sturgeon <i>Acipenser medirostris</i> SSC, FT	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
Steelhead - northern California DPS winter-run <i>Oncorhynchus mykiss irideus pop. 49</i> FT	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
Steelhead - northern California DPS <i>Oncorhynchus mykiss irideus pop. 16</i> FT	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Tidewater goby <i>Eucyclogobius newberryi</i> FE	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
Western bumble bee <i>Bombus occidentalis</i> FSS, SC	<input checked="" type="checkbox"/>	<input type="checkbox"/>	

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Western snowy plover <i>Charadrius nivosus nivosus</i> SSC, FT	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Nesting birds	N/A	<input checked="" type="checkbox"/>

¹Special Status is defined as federal or state threatened, endangered, rare, proposed, candidate or fully protected; covered by Eagle Protection Act; or species of concern to land management agency. Abbreviations: Federally Endangered, Threatened, Proposed Endangered, Proposed Threatened, or Candidate (FE, FT, FPE, FPT, FC); State Endangered, Threatened, Candidate for Endangered, or Candidate for Threatened (SE, ST, SCE, SCT); Fully Protected (FP); CDFW Species of Special Concern (SSC); California Rare Plant Rank (CRPR) List 1 or 2.

Evaluation of Resources & Potential Impacts:

California Natural Diversity Database (CNDDDB) was reviewed in a search radius of 1.5 miles around the project location and habitat conditions were evaluated for the project's zone of impact. Species with suitable habitat are discussed below.

Plant Species

Western lily

There are two historic CNDDDB occurrences (1925-1976, one possibly extirpated 1925) within 1.5 miles of the work areas. An occurrence (1925) overlaps Work Areas 2-7 and 20-56; however, this occurrence is possibly extirpated, the exact location is unknown, mapped as best guess by CNDDDB, and the information is from 1901-1925. An occurrence (1976) overlaps Work Areas 57 and 58; however, the exact location is unknown, mapped as best guess by CNDDDB, and the information is from 1976. Western lily is a perennial bulbiferous herb with a blooming period of June to August, an elevation range below 328 feet and occurs in gaps in conifer forest habitat, which may be present some of the work areas. Although suitable habitat is present, the work plan includes no ground disturbance or overland vehicular access. Given the age and limited data of the overlapping occurrences and with the implementation of the VM BMPs, impacts to this species are not expected.

Animal Species

Bald eagle

There is one CNDDDB occurrence (2005) within 1.5 miles of work areas. The occurrence does not overlap the work areas. Bald eagles build large stick nests in the upper canopy of the tallest trees in mountain and foothill forests and woodlands near reservoirs, lakes, and rivers. Between January 15 and July 31, work activities could disturb nesting individuals. There are large aquatic resources including the Elk River and Martin Slough within 0.5 miles the work areas and Work Areas 11-19, 57 and 58 may provide nesting habitat. With implementation of the VM BMPs, impacts to this species are not anticipated.

Coho salmon - southern Oregon/northern California ESU

There are two CNDDDB occurrences (2005-2016) within 1.5 miles of the work areas. One occurrence (2016) is within 250 feet of Work Area 53. Coho salmon are anadromous fish that spawn in freshwater and migrate to marine habitats. Freshwater spawning habitat is typically comprised cool, well oxygenated, sediment-free, low-gradient streams with gravel riffles. Freshwater spawning habitat is typically comprised cool, well oxygenated, sediment-free,

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<p>low-gradient streams with gravel riffles. Females build nests (redds) near the head of a riffle that is below a pool with abundant small to medium sized gravel. This Evolutionarily Significant Unit (ESU) typically begins migrating inland in the late summer and fall and spawns between November and February. There is suitable aquatic habitat within 250 feet of Work Areas 7, 40-42, 45-47, and 53; however, the work areas are on the opposite side of roads from the aquatic habitat. Given that the selective tree removal work is dispersed across roads from the aquatic resources, and with the implementation of the VM BMPs, impacts to this species are not anticipated.</p>	
<p>Eulachon - southern DPS There is one historic CNDDDB occurrence (1977) within 1.5 miles of the work areas, which is not within 250 feet of the work areas. Eulachon is an anadromous fish that are primarily a marine species that spawns in the lower reaches of freshwater coastal rivers and streams in Northern California. This species typically spawns in December through April in sections of the rivers with good water flow and coarse sand or fine gravel substrates. There is suitable aquatic habitat within 250 feet of Work Areas 7, 40-42, 45-47, and 53; however, the work areas are on the opposite side of roads from the aquatic habitat. Given that the selective tree removal work is dispersed across roads from the aquatic resources, and with the implementation of the VM BMPs, impacts to this species are not anticipated.</p>	
<p>Longfin smelt There are three CNDDDB occurrences (1969-2005, two historic, 1969-1985) within 1.5 miles of work areas, which are not within 250 feet the work areas. In California, longfin smelt is found in San Francisco Estuary and the Sacramento/San Joaquin Delta (Bay-Delta), Humboldt Bay, and the estuaries of the Eel River and Klamath River. This species is anadromous and migrates from marine habitats including nearshore waters and estuaries to spawn in the lower portions of freshwater streams. Spawning typically occurs January to March. There is suitable aquatic habitat within 250 feet of Work Areas 7, 40-42, 45-47, and 53; however, the work areas are on the opposite side of roads from the aquatic habitat. Given that the selective tree removal work is dispersed across roads from the aquatic resources, and with the implementation of the VM BMPs, impacts to this species are not anticipated.</p>	
<p>Northern spotted owl There are 139 positive CNDDDB occurrences (133 positive, 1981-2022; 5 activity centers, one abandoned, 2001-2016) and 340 negative occurrences (1991-2023) within 1.5 miles of the work areas. One nest (1994) is within 0.25 miles of Work Area 12. Additionally, PG&E data indicates northern spotted owl habitat may be present in the project vicinity. Northern spotted owl suitable habitat includes older forest habitats that contain the structural characteristics required for nesting, roosting, and foraging. Specifically, forests with multistory canopies dominated by large trees, old-growth forests and mixed stands with old-growth and mature trees, and where there is a high level of structural complexity suitable, and an abundance of large downed woody debris. Northern spotted owls occur from 70 feet to 6,660 feet in elevation and typically nest March to June. Based on the Estimating the Effects of Auditory and Visual Disturbance to Northern Spotted Owls and Marbled Murrelets in Northwestern California (U.S. Fish and Wildlife Service 2006), the existing ambient conditions would be considered 'moderate' for work areas near small roads, and residential homes and project work would be considered 'very high' due to the use of a chipper in addition to other equipment. According to the document, 'very high' action-generated activities occurring in 'moderate' ambient conditions can cause project attenuation to exceed established take thresholds within 330 feet of the project work areas. There may be nesting habitat for northern spotted owl within 330 feet of Work Areas 2-9, 12-36, and 54-58. However, due to the amount of surrounding development and overwhelmingly negative survey occurrences near the</p>	

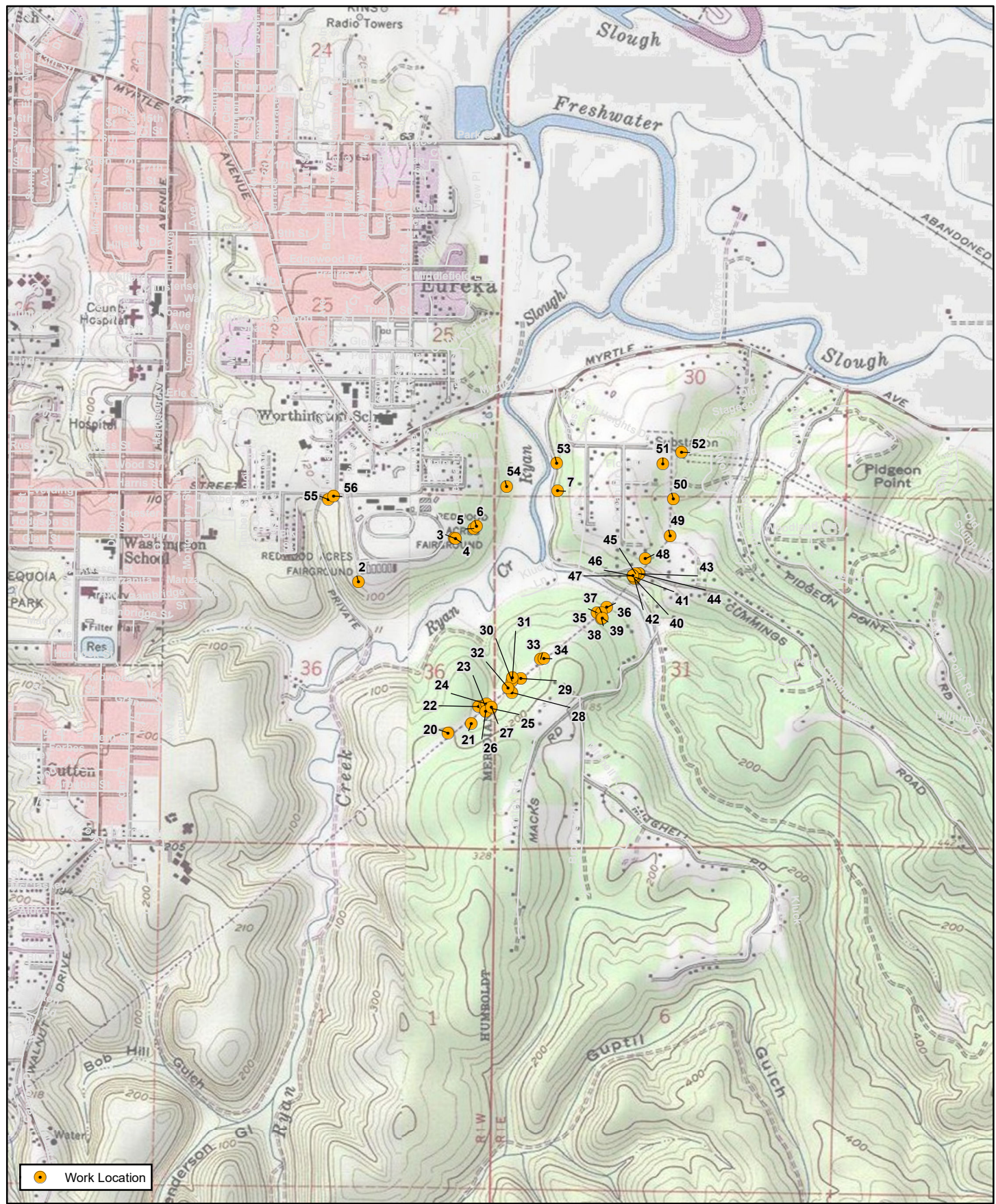
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<p>work areas, this species may occur at Work Areas 12-19, and 58. With implementation of the VM BMPs and AMM below, impacts to this species are not anticipated.</p> <p>Northwestern pond turtle</p> <p>There is one CNDDDB occurrences (2013) within 1.5 miles of work areas. This occurrence does not overlap the work areas. Northwestern pond turtles occur in permanent and semi-permanent aquatic habitats including ponds, lakes, streams, wetlands, and irrigation canals and ditches with abundant vegetation and basking structures. Females typically build nests and lay eggs in areas with sparse vegetation and solar exposure within 300 feet of aquatic habitats. Work Areas 7, 11, 36, 40-47, 53, and 54 are within 300 feet of aquatic resources and may provide upland habitat, however, Work Areas 7, 40-47, and 53 are across roads from the aquatic resources. With the implementation of the AMM below, impacts to this species are not anticipated.</p> <p>Southern green sturgeon</p> <p>There is one CNDDDB occurrence (2020) within 1.5 miles of the work areas, which is not within 250 feet of the work areas. Green sturgeon is an anadromous fish that are primarily a marine species, and this Distinct Population Segment is currently known to spawn in the Sacramento, Feather, and Yuba Rivers and may spawn in the San Joaquin and Stanislaus Rivers. During summer and fall this DPS migrate seasonally along the West Coast and will congregate in bays and estuaries. This species typically spawns in during April through June in sections of rivers with cool, deep, fast flowing water and gravel and cobble substrates. There is suitable aquatic habitat within 250 feet of Work Areas 7, 40-42, 45-47, and 53; however, the work areas are on the opposite side of roads from the aquatic habitat. Given that the selective tree removal work is dispersed across roads from the aquatic resources, and with the implementation of the VM BMPs, impacts to this species are not anticipated.</p> <p>Steelhead - northern California DPS winter-run</p> <p>There are two CNDDDB occurrences (2018-2022) within 1.5 miles of work areas. One occurrence (2018) is within 250 feet of Work Areas 7, 53, and 54. Steelhead are anadromous fish which are born in freshwater habitats, migrate to marine habitats, and eventually return to freshwater habitats to spawn. Steelhead spawn in small streams and tributaries with cool, well oxygenated, water and gravel substrate. Winter run populations in California migrate to freshwater during September through March and spawn during the winter and spring, typically December through April. Juvenile fish typically reside in stream margins, riffles, pools, and deep runs before migrating to marine habitats. There is suitable aquatic habitat within 250 feet of Work Areas 7, 40-42, 45-47, and 53; however, the work areas are on the opposite side of roads from the aquatic habitat. Given that the selective tree removal work is dispersed across roads from the aquatic resources, and with the implementation of the VM BMPs, impacts to this species are not anticipated.</p> <p>Steelhead - northern California DPS</p> <p>There are no CNDDDB occurrences within 1.5 miles of the work areas; however, some work areas are within 250 feet of critical habitat. Steelhead are anadromous fish which are born in freshwater habitats, migrate to marine habitats, and eventually return to freshwater habitats to spawn. Steelhead spawn in small streams and tributaries with cool, well oxygenated, water and gravel substrate. This Distinct Population Segment (DPS) spawns December 1 – April 15. Juvenile fish typically reside in stream margins, riffles, pools, and deep runs before migrating to marine habitats. There is suitable aquatic habitat within 250 feet of Work Areas 7, 40-42, 45-47, and 53; however, the work areas are on the opposite side of roads from the aquatic habitat. Given that the selective tree removal work is dispersed</p>	

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across roads from the aquatic resources, and with the implementation of the VM BMPs, impacts to this species are not anticipated.			
Tidewater goby There are four CNDDDB occurrences (1982-2013, one historic 1982) within 1.5 miles of work areas, which are not within 250 feet of the work areas. Tidewater gobies occur in shallow (less than 4 feet deep) water with low to moderate salinity typically in brackish shallow lagoons, estuaries, salt marshes, and occasionally in lower stream reaches. This species prefers areas with sand or silt substrates for nesting burrows and generally sparse vegetation. There is suitable aquatic habitat within 250 feet of Work Areas 7, 40-42, 45-47, and 53; however, the work areas are on the opposite side of roads from the aquatic habitat. Given that the selective tree removal work is dispersed across roads from the aquatic resources, and with the implementation of the VM BMPs, impacts to this species are not anticipated.			
Nesting birds Nesting birds may be present on the ground, in shrubs and trees, or in or on utility poles, from February 15 through August 31 (nesting bird season). Potential impacts on nesting birds will be minimized or avoided with incorporation of the measures listed below and PG&E's general BMPs, which require crews to stop work and contact a biologist if any active nests are detected.			
Are there any aquatic resources (seasonal or permanent) and/or riparian corridors within 250 feet?			
Yes		If yes, type: Natural;Potential wetland;Perennial;Ephemeral	
If you answered yes to previous question, will the project directly impact any of the above aquatic resources?			
No			
Explain: There is one ephemeral waterway, one perennial waterway (Ryan Creek), and two freshwater emergent wetlands within 250 feet of Work Areas 7, 11, 16-19, 40-42, 45-47, 53, and 54; however, Work Areas 7, 40-42, 45-47, and 53 are across small roads from the aquatic resources. With the implementation of the VM BMPs, impacts are not anticipated.			
Critical Habitat			
Designated Critical Habitat:		Yes	
Physical and Biological Features Impacted:		No	
Notes: Work Areas 7, 40-42, 45-47, and 53 are within 250 feet of critical habitat for steelhead; however, the work areas are across roads from the critical habitat. With implementation of the VM BMPs, impacts to Physical and Biological Features are not anticipated.			
Resource Protection Measures & Avoidance and Minimization Measures			
The project is located within PG&E's Multiple Region Operations and Maintenance Habitat Conservation Plan (MRHCP) Area. All contractors and subcontractors must complete required HCP training to work in the HCP Plan Area. Work activities must follow MRHCP Field Protocols (FP) and Best Management Practices (BMPs), and any additional			

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<p>measures, where identified in this BCR. If biological issues or concerns arise during work, please contact the project Biologist listed on the BCR.</p> <p>NSO-1 Northern Spotted Owl – Work Areas 12-19, 58 This project has the potential to have Northern Spotted Owl within the project area. Before work can occur, contact the PG&E lead biologist at least 30-days prior to start of any project activities, including mobilization and staging of equipment materials. If a biologist determines that a work site is within 0.25 mile of unsurveyed northern spotted owl nesting habitat, activity centers, or critical habitat during nesting season (March 1–July 31), then work will be restricted to August 1–February 28, unless surveys determine the suitable habitat or site is unoccupied or the owls are not nesting. For project work within 0.25 mile of a known nest site or nesting habitat that cannot be scheduled outside of the nesting season and the 0.25 mile buffers cannot be maintained, PG&E may implement reduced buffers based on <i>Estimating the Effects of Auditory and Visual Disturbance to Northern Spotted Owls and Marbled Murrelets in Northwestern California</i> (U.S. Fish and Wildlife Service 2006).</p> <p>Vegetation Management BMPs 1-27 General The scope of work that is proposed includes vegetation activities that require the crew to follow the MRHCP Vegetation Management Best Management Practices 1-27.</p> <p>Aquatic and Riparian Measures - Work Areas 11, 16-19, 54</p> <ul style="list-style-type: none"> • BMP 8: Vehicles and heavy equipment must be refueled at least 100 feet away from riparian areas. Handheld tools must be refueled outside of riparian areas. The fueling operator must stay with the fueling operation at all times. Do not top off tanks. • BMP 11: Vehicle use within riparian areas is limited to existing roads and dry crossings, and they must be checked and maintained daily to prevent leaks of materials that, if introduced to water, could be harmful to aquatic life. • BMP 12: Cleared or pruned vegetation and woody debris (including chips) must be disposed of in a manner to ensure that it does not enter surface water or a watercourse. All cleared vegetation and woody debris (including chips) must be removed from surface water or watercourses, and placed or secured where it cannot re-enter the watercourse. <ul style="list-style-type: none"> ○ Rope and lower large limbs to prevent limbs and personnel from entering the bed, bank, and channel (Per BMP 12). ○ No work will be conducted in the wetted active channel. If any pruned limbs fall into standing water, remove with pruning hooks to avoid stepping into water (Per BMP 12). • BMP 22: Disturbance or removal of non-target vegetation within a work site should not exceed the minimum necessary to complete operations, subject to other public health and safety directives governing the safe operations and maintenance of electric and gas facilities. <ul style="list-style-type: none"> ○ Foot access only in riparian zone. Route off-road access paths and work sites to minimize impacts on plants, shrubs, and small mammal burrows. Minimize number of trips when working in the riparian zone (Per BMP 11 and 22). ○ Preserve limbs overhanging the watercourse, where feasible (Per BMP 22). • If measures are not feasible, please contact Environmental lead for additional guidance. <p>Northwestern pond turtle – Work Areas 11, 36, 54</p>	



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<ul style="list-style-type: none">Visually check for turtles under logs, rocks, vehicles and equipment prior to moving them. Allow the turtles to leave the area before moving items, vehicles or equipment. Avoid turtles and other wildlife on roadways.	



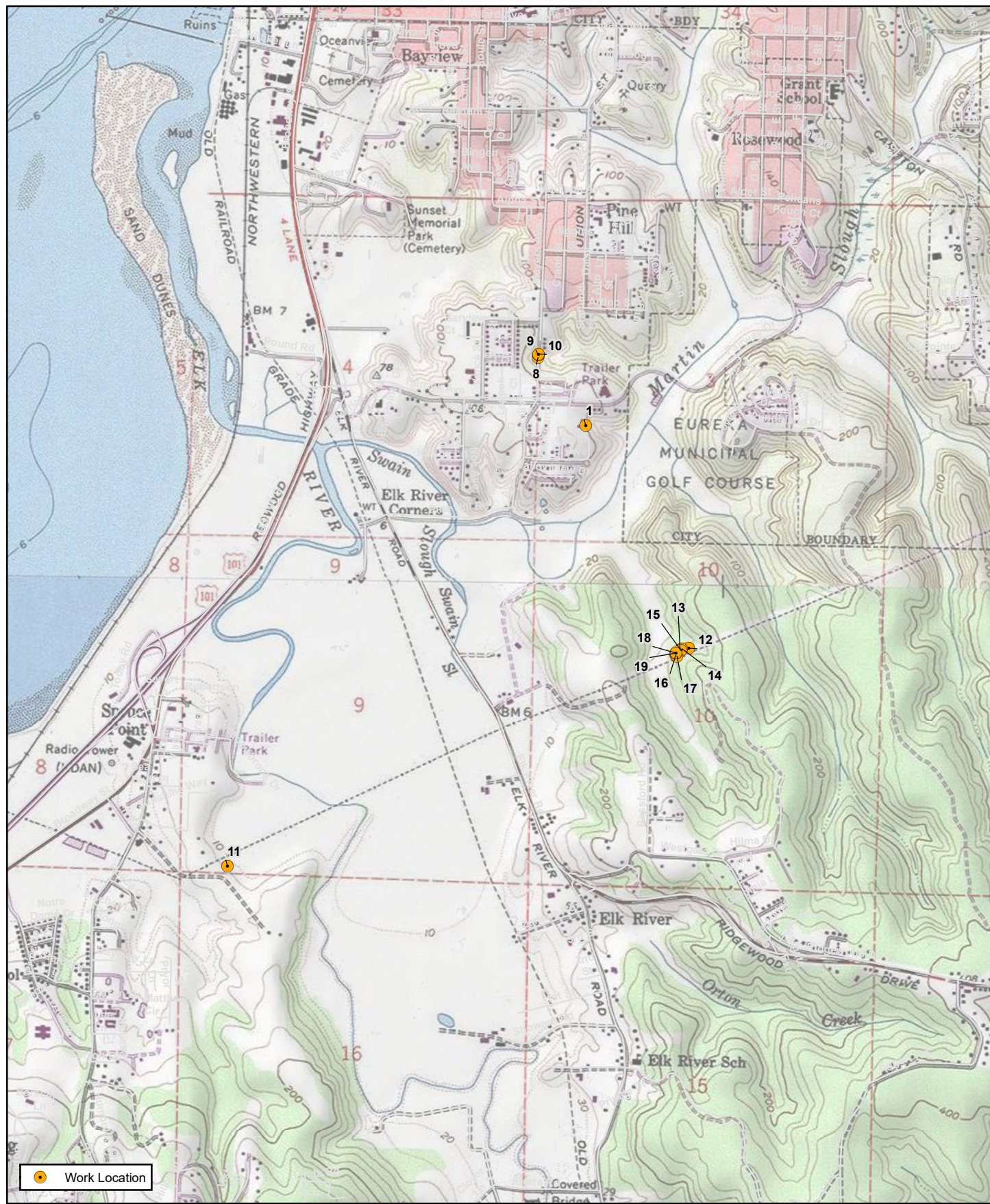
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Project Location:
ARCATA SOUTH, EUREKA, FIELDS
LANDING, CA Quad
T04N R01W S03, T04N R01W S09,
T04N R01W S10, T04N R01W S28,
T05N R01E S30, T05N R01E S31, T05N
R01W S36

Pacific Gas and Electric Company
Vegetation Management

**Humboldt County Bundle CDP #7_Transmission
Figure 1. Project Location (topo)**

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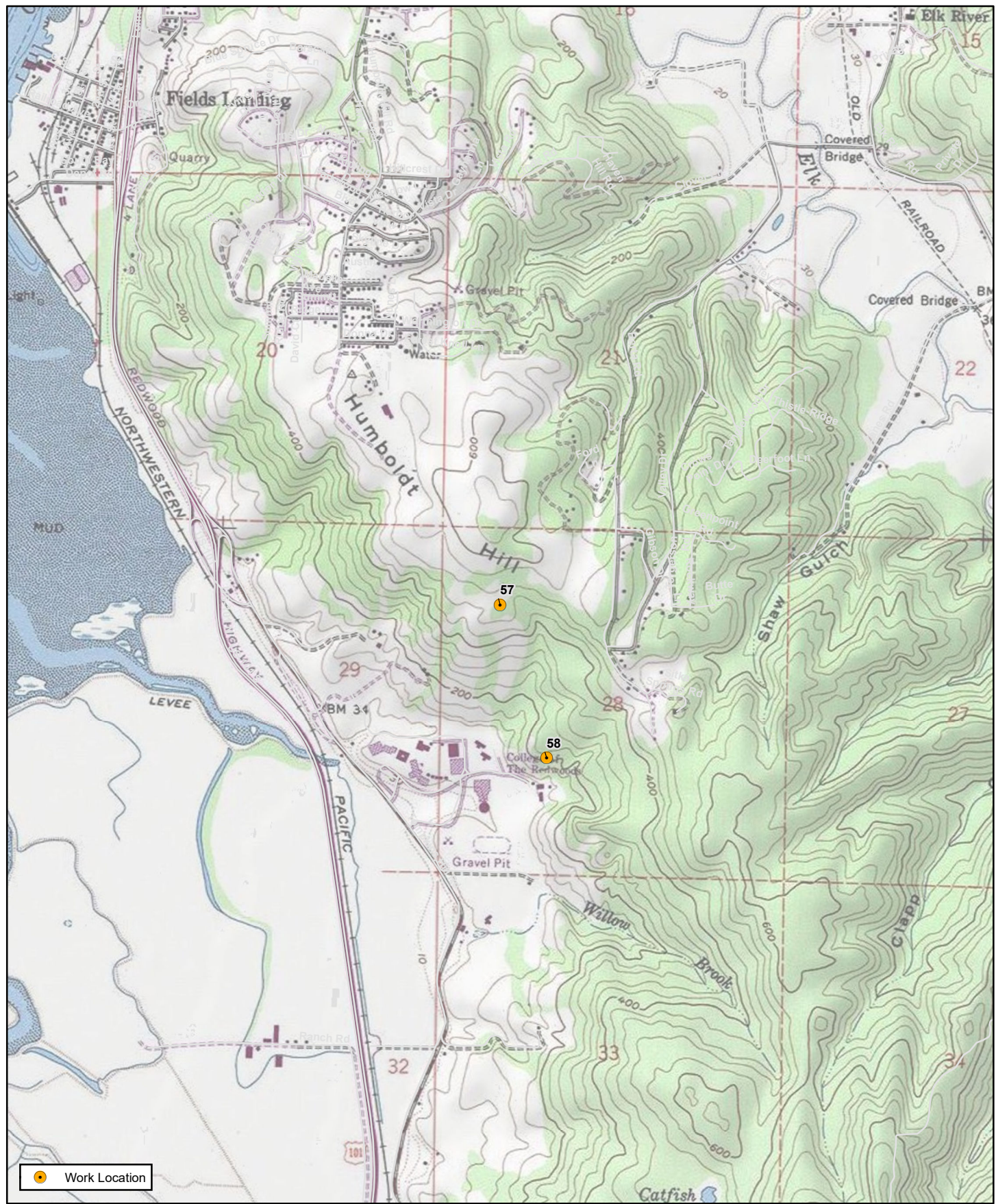
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Project Location:
ARCATA SOUTH, EUREKA, FIELDS
LANDING, CA Quad
T04N R01W S03, T04N R01W S09,
T04N R01W S10, T04N R01W S28,
T05N R01E S30, T05N R01E S31, T05N
R01W S36

Pacific Gas and Electric Company
Vegetation Management

**Humboldt County Bundle CDP #7_Transmission
Figure 1. Project Location (topo)**

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Project Location:
ARCATA SOUTH, EUREKA, FIELDS
LANDING, CA Quad
T04N R01W S03, T04N R01W S09,
T04N R01W S10, T04N R01W S28,
T05N R01E S30, T05N R01E S31, T05N
R01W S36

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Vegetation Management

**Humboldt County Bundle CDP #7_Transmission
Figure 1. Project Location (topo)**
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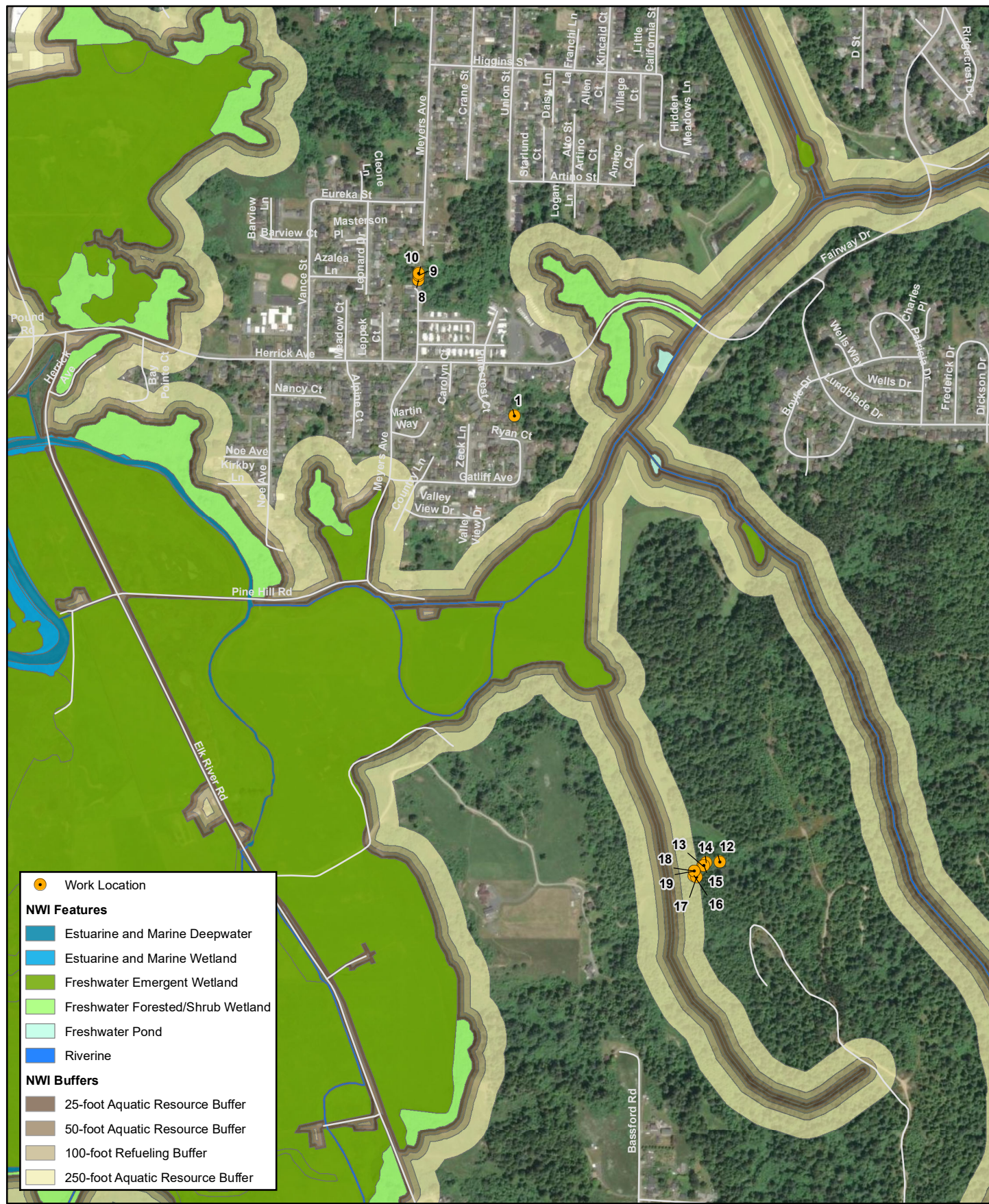
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ARCATA SOUTH, EUREKA, FIELDS
LANDING, CA Quad
T04N R01W S03, T04N R01W S09,
T04N R01W S10, T04N R01W S28,
T05N R01E S30, T05N R01E S31, T05N
R01W S36

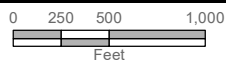
Pacific Gas and Electric Company
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**Humboldt County Bundle CDP #7_Transmission
Figure 2. Project Location (aerial)**

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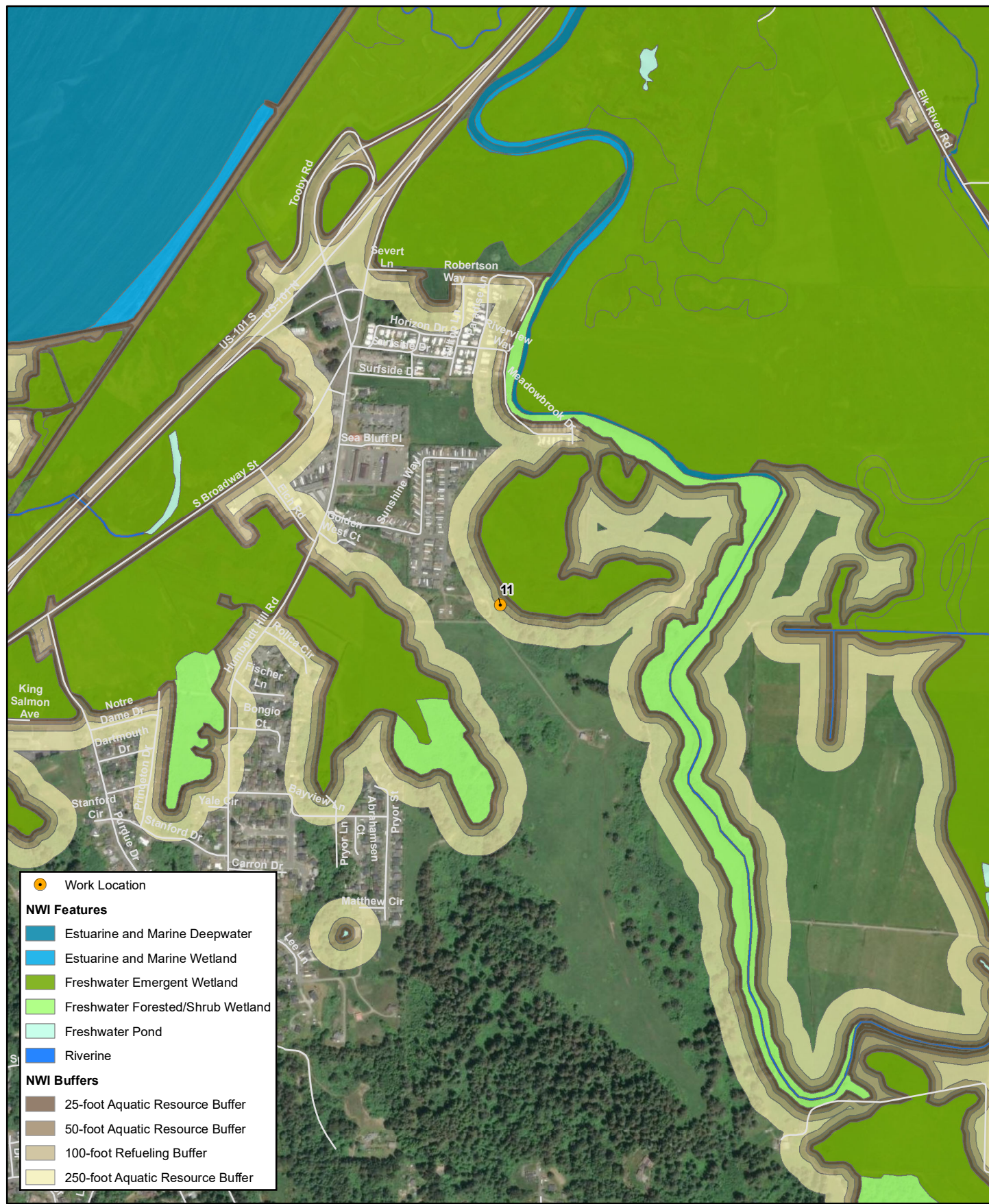
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Project Location:
ARCATA SOUTH, EUREKA, FIELDS
LANDING, CA Quad
T04N R01W S03, T04N R01W S09,
T04N R01W S10, T04N R01W S28,
T05N R01E S30, T05N R01E S31, T05N
R01W S36

Pacific Gas and Electric Company
Vegetation Management

**Humboldt County Bundle CDP #7_Transmission
Figure 2. Project Location (aerial)**

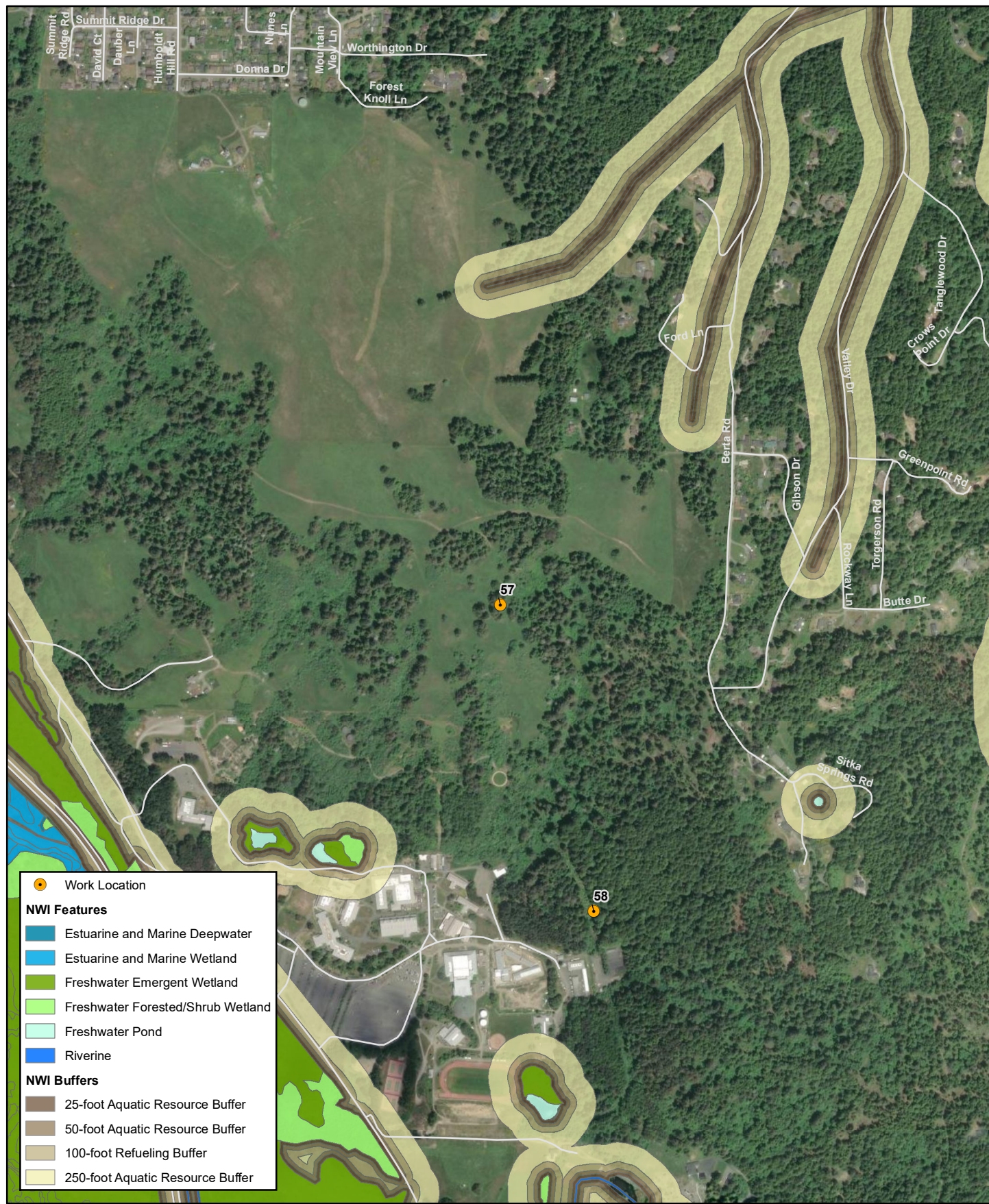


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Project Location:
ARCATA SOUTH, EUREKA, FIELDS
LANDING, CA Quad
T04N R01W S03, T04N R01W S09,
T04N R01W S10, T04N R01W S28,
T05N R01E S30, T05N R01E S31, T05N
R01W S36

Pacific Gas and Electric Company
Vegetation Management

**Humboldt County Bundle CDP #7_Transmission
Figure 2. Project Location (aerial)**
Page 3 of 4



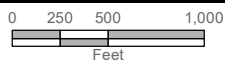
Work Location

NWI Features

- Estuarine and Marine Deepwater
- Estuarine and Marine Wetland
- Freshwater Emergent Wetland
- Freshwater Forested/Shrub Wetland
- Freshwater Pond
- Riverine

NWI Buffers

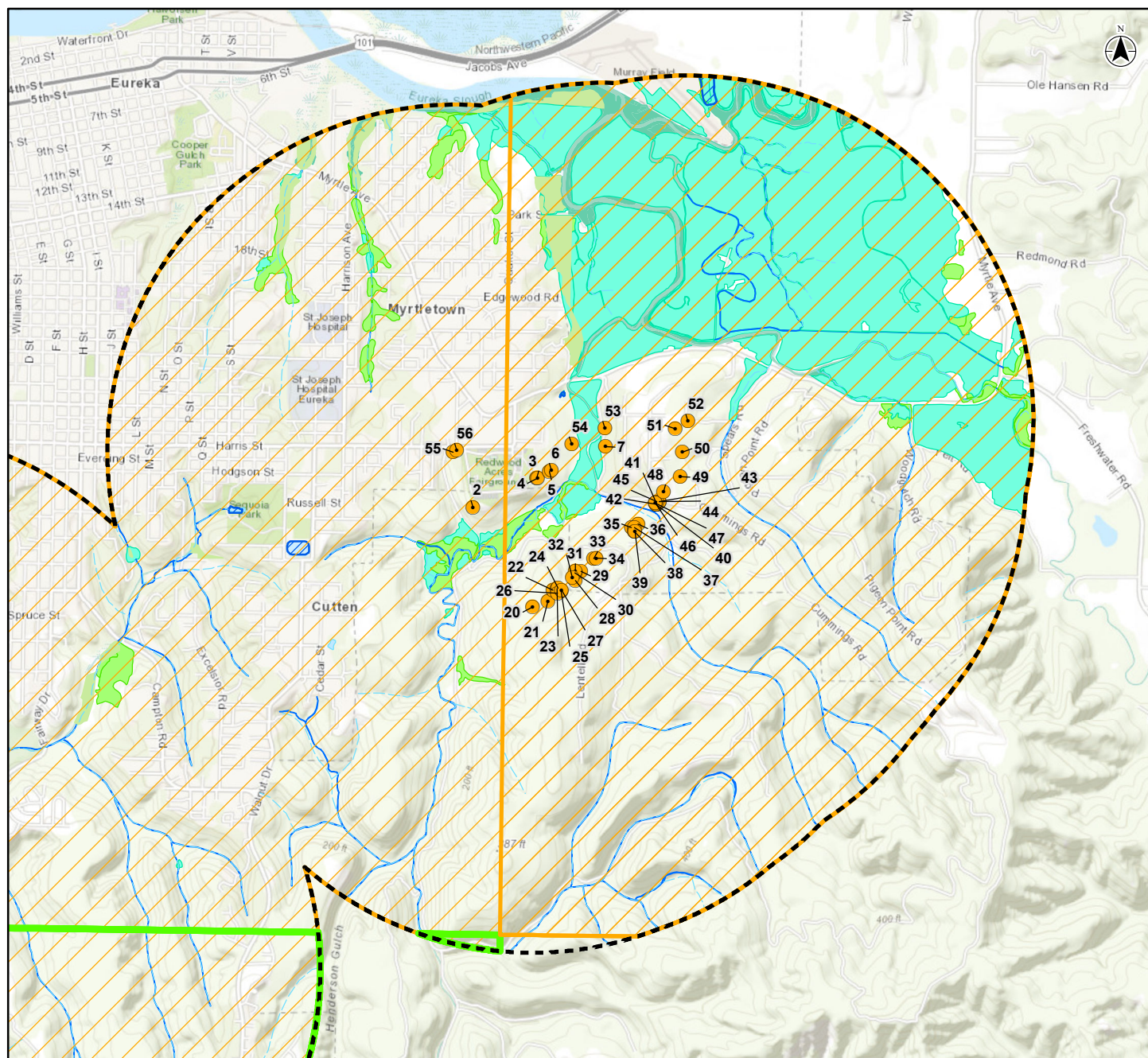
- 25-foot Aquatic Resource Buffer
- 50-foot Aquatic Resource Buffer
- 100-foot Refueling Buffer
- 250-foot Aquatic Resource Buffer



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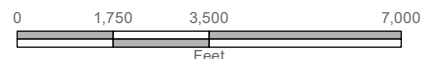
Project Location:
 ARCATA SOUTH, EUREKA, FIELDS
 LANDING, CA Quad
 T04N R01W S03, T04N R01W S09,
 T04N R01W S10, T04N R01W S28,
 T05N R01E S30, T05N R01E S31, T05N
 R01W S36

Pacific Gas and Electric Company
 Vegetation Management



- Work Location
- Study Area (1.5-Mile Buffer)
- National Wetlands Inventory**
 - Freshwater Emergent Wetland
 - Freshwater Forested/Shrub Wetland
 - Freshwater Pond
 - Riverine
 - Estuarine and Marine Deepwater
 - Estuarine and Marine Wetland
- National Hydrography Dataset**
 - Stream; River
 - Lake; Pond; Reservoir
 - Swamp/Marsh
- CNDDDB Occurrences**
 - western lily*
 - western lily (historic)*

*This occurrence is suppressed in the commercial version of CNDDDB. The actual occurrence polygon was verified and is within the 1.5-mile search buffer.



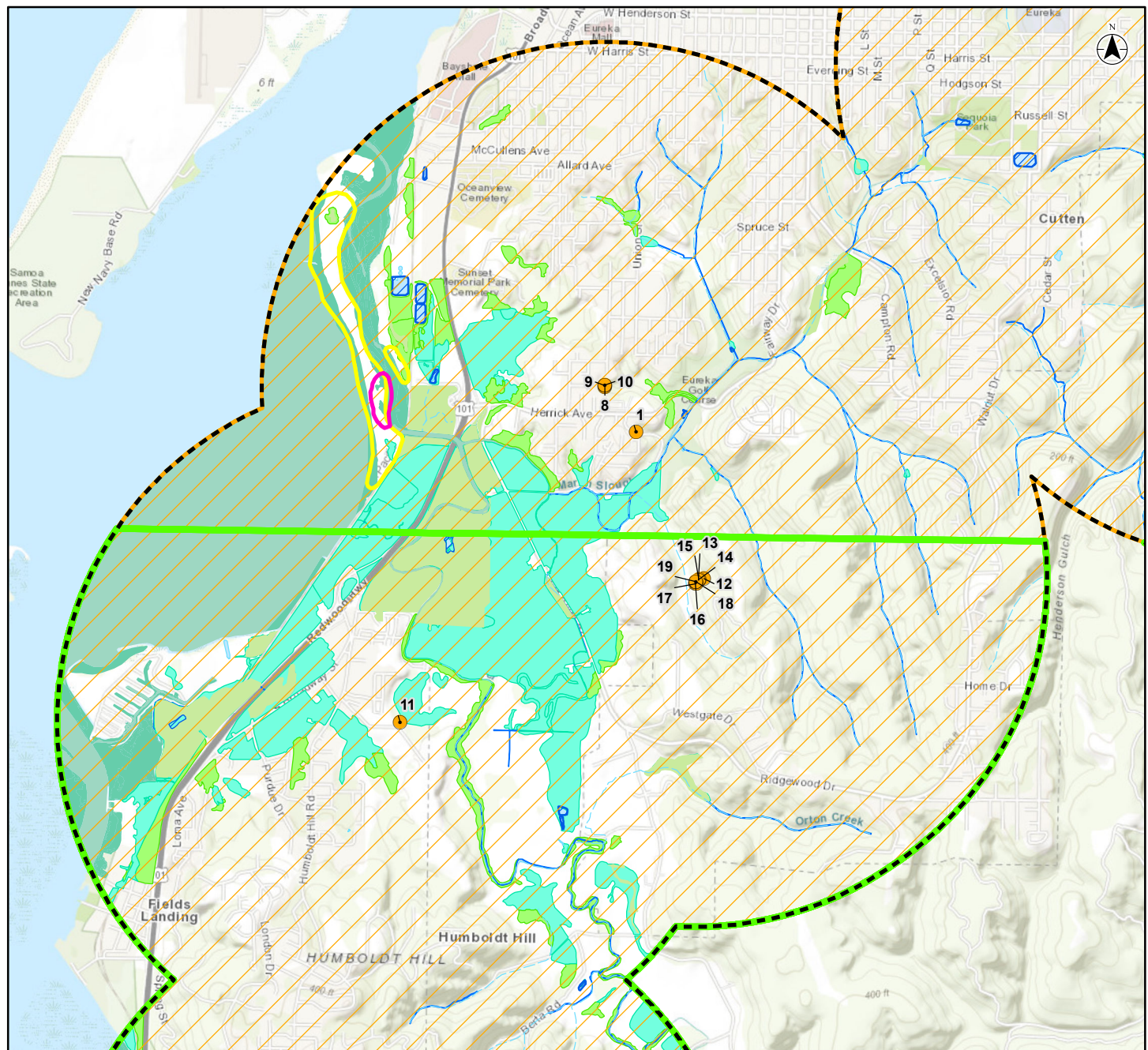
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Project Location:
ARCATA SOUTH, EUREKA, FIELDS
LANDING, CA Quad
T04N R01W S03, T04N R01W S09, T04N
R01W S10, T04N R01W S28, T05N R01E
S30, T05N R01E S31, T05N R01W S36

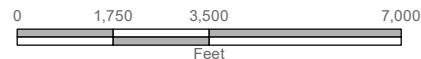
Pacific Gas and Electric Company
Vegetation Management

**Humboldt County Bundle CDP #7_Transmission
Figure 3. CNDDDB Occurrences (Plants)**



- Work Location
- Study Area (1.5-Mile Buffer)
- National Wetlands Inventory**
 - Freshwater Emergent Wetland
 - Freshwater Forested/Shrub Wetland
 - Freshwater Pond
 - Riverine
 - Estuarine and Marine Deepwater
 - Estuarine and Marine Wetland
- National Hydrography Dataset**
 - Stream; River
 - Lake; Pond; Reservoir
 - Swamp/Marsh
- CNDDDB Occurrences**
 - Menzies' wallflower
 - beach layia
 - western lily*
 - western lily (historic)*

*This occurrence is suppressed in the commercial version of CNDDDB. The actual occurrence polygon was verified and is within the 1.5-mile search buffer.



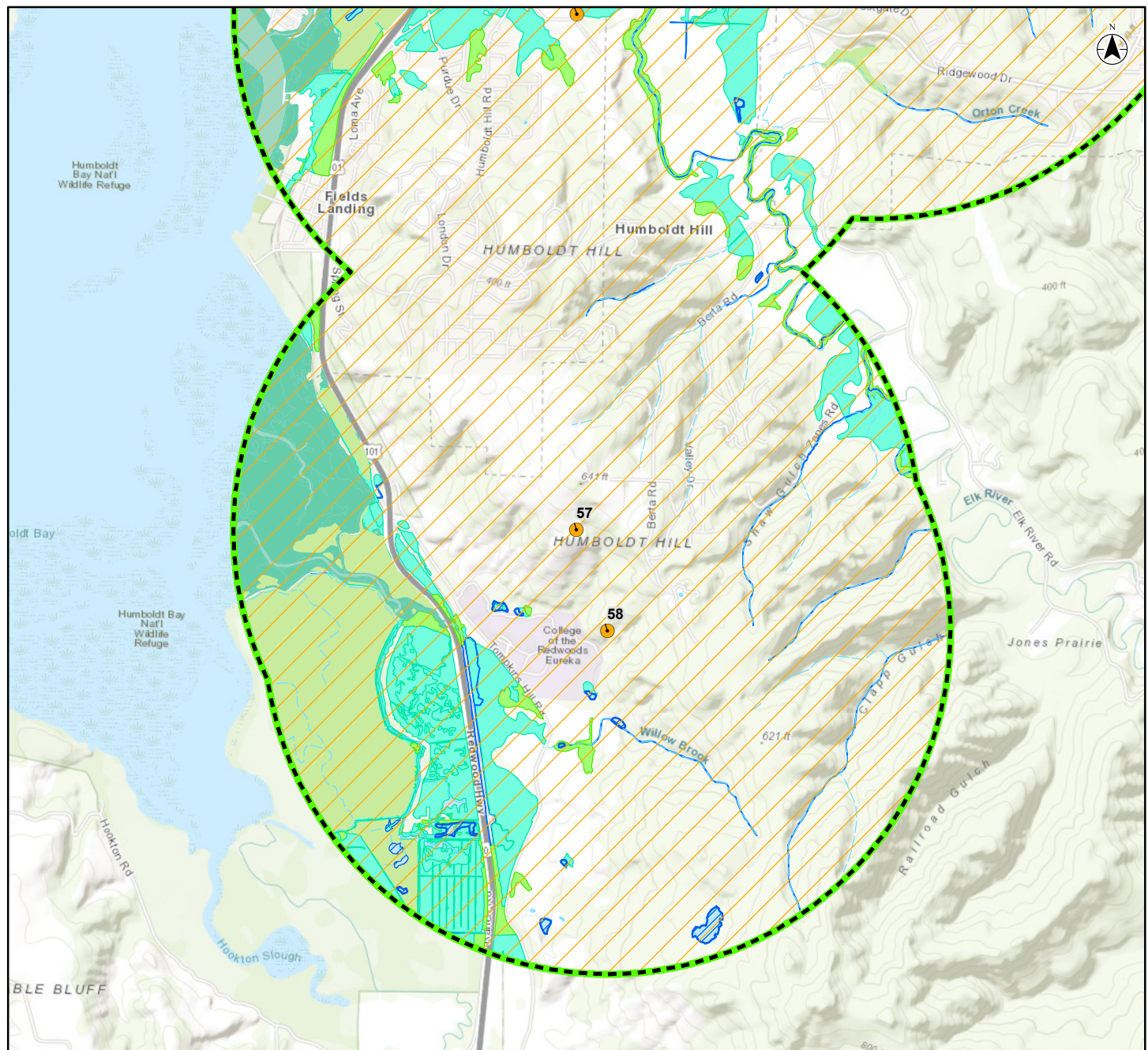
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Project Location:
ARCATA SOUTH, EUREKA, FIELDS
LANDING, CA Quad
T04N R01W S03, T04N R01W S09, T04N
R01W S10, T04N R01W S28, T05N R01E
S30, T05N R01E S31, T05N R01W S36

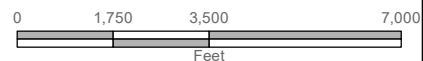
Pacific Gas and Electric Company
Vegetation Management

**Humboldt County Bundle CDP #7_Transmission
Figure 3. CNDDDB Occurrences (Plants)**



- Work Location
- Study Area (1.5-Mile Buffer)
- National Wetlands Inventory**
 - Freshwater Emergent Wetland
 - Freshwater Forested/Shrub Wetland
 - Lake
 - Freshwater Pond
 - Riverine
 - Estuarine and Marine Deepwater
 - Estuarine and Marine Wetland
- National Hydrography Dataset**
 - Stream; River
 - Lake; Pond; Reservoir
 - Swamp/Marsh
- CNDDDB Occurrences**
 - western lily*
 - western lily (historic)*

*This occurrence is suppressed in the commercial version of CNDDDB. The actual occurrence polygon was verified and is within the 1.5-mile search buffer.



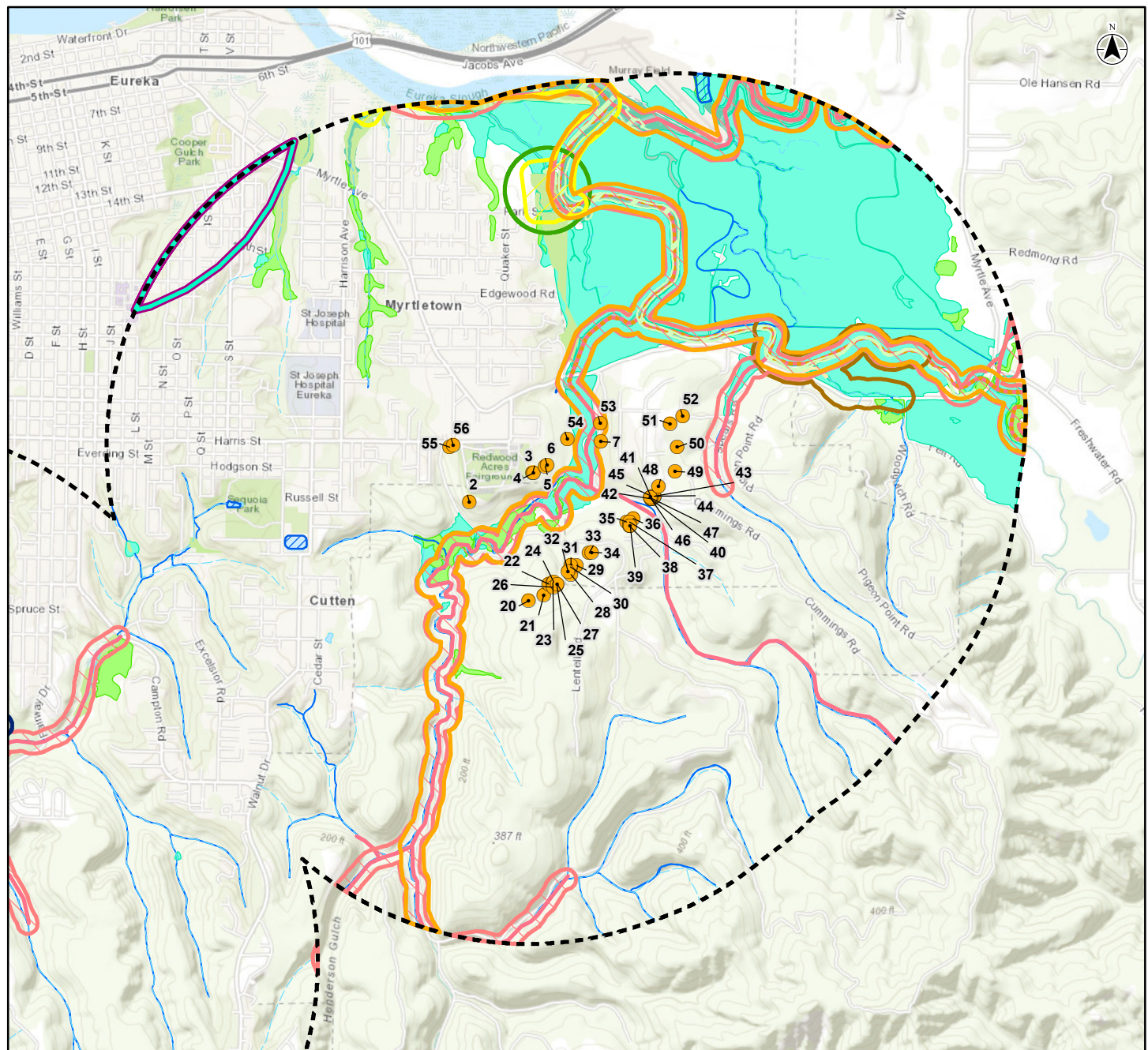
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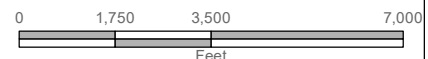
Project Location:
ARCATA SOUTH, EUREKA, FIELDS
LANDING, CA Quad
T04N R01W S03, T04N R01W S09, T04N
R01W S10, T04N R01W S28, T05N R01E
S30, T05N R01E S31, T05N R01W S36

Pacific Gas and Electric Company
Vegetation Management

**Humboldt County Bundle CDP #7_Transmission
Figure 3. CNDDDB Occurrences (Plants)**



- Work Location
- Study Area (1.5-Mile Buffer)
- National Wetlands Inventory**
 - Freshwater Emergent Wetland
 - Freshwater Forested/Shrub Wetland
 - Freshwater Pond
 - Riverine
 - Estuarine and Marine Deepwater
 - Estuarine and Marine Wetland
- National Hydrography Dataset**
 - Stream; River
 - Lake; Pond; Reservoir
 - Swamp/Marsh
- CNDDDB Occurrences**
 - bank swallow (historic)
 - coho salmon - southern Oregon / northern California ESU
 - longfin smelt (historic)
 - northwestern pond turtle
 - steelhead - northern California DPS winter-run
 - tidewater goby
 - tidewater goby (historic)
 - western bumble bee (historic)
- Critical Habitat**
 - Tidewater goby
 - Green Sturgeon
 - Chinook Salmon
 - Steelhead



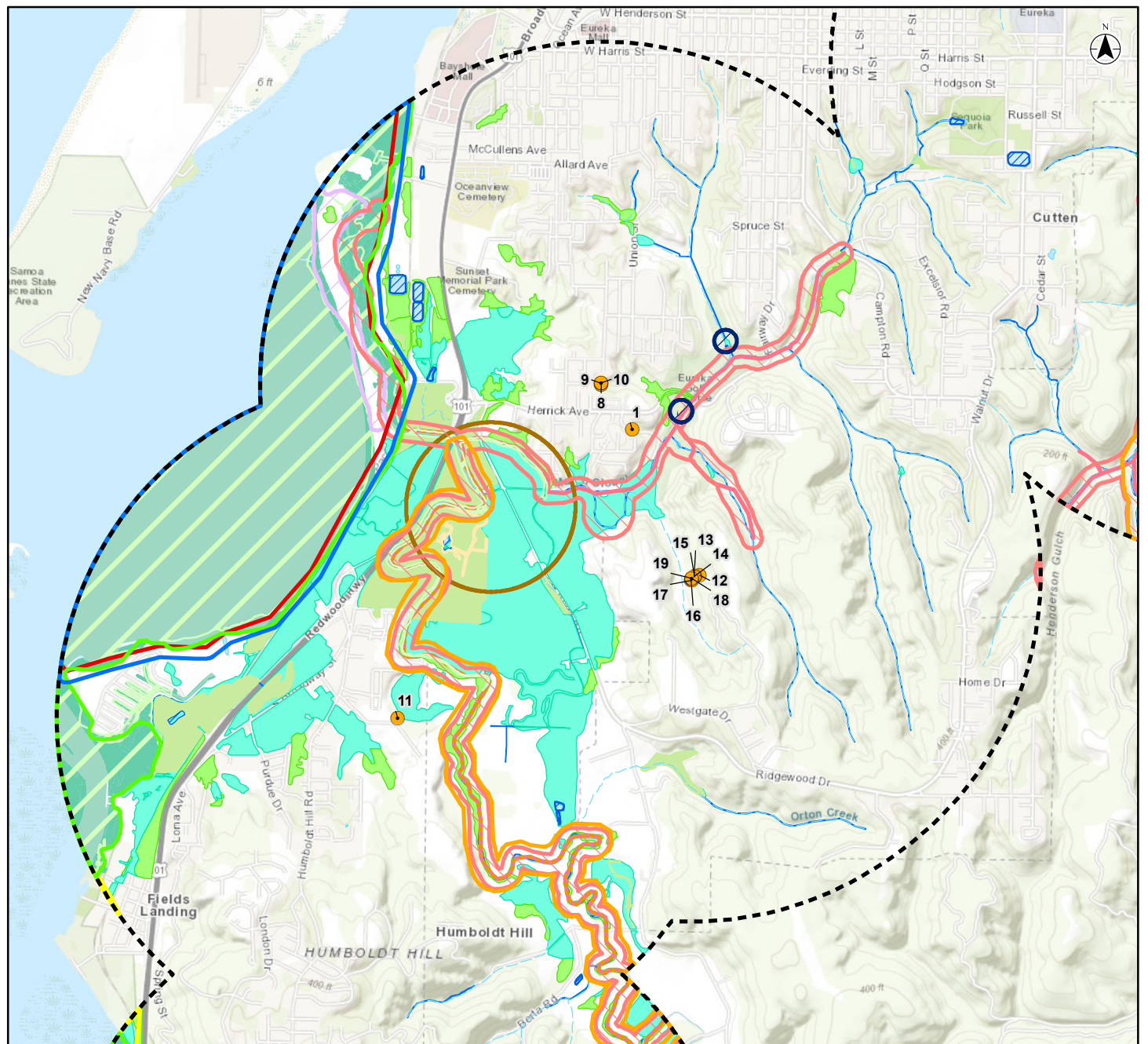
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Project Location:
ARCATA SOUTH, EUREKA, FIELDS
LANDING, CA Quad
T04N R01W S03, T04N R01W S09, T04N
R01W S10, T04N R01W S28, T05N R01E
S30, T05N R01E S31, T05N R01W S36

Pacific Gas and Electric Company
Vegetation Management

**Humboldt County Bundle CDP #7_Transmission
Figure 3. CNDDDB Occurrences (Wildlife)**



- | | | |
|--|---|---|
| <ul style="list-style-type: none"> Work Location Study Area (1.5-Mile Buffer) | CNDDDB Occurrences <ul style="list-style-type: none"> coho salmon - southern Oregon / northern California ESU eulachon (historic) green sturgeon - southern DPS longfin smelt longfin smelt (historic) northwestern pond turtle steelhead - northern California DPS winter-run tidewater goby western snowy plover (historic) | Critical Habitat <ul style="list-style-type: none"> Tidewater goby Green Sturgeon Chinook Salmon Steelhead |
| National Wetlands Inventory <ul style="list-style-type: none"> Freshwater Emergent Wetland Freshwater Forested/Shrub Wetland Freshwater Pond Riverine Estuarine and Marine Deepwater Estuarine and Marine Wetland | National Hydrography Dataset <ul style="list-style-type: none"> Stream; River Lake; Pond; Reservoir Swamp/Marsh | |



NOTE: Critical habitat for species included in this report and/or could be impacted by the project are mapped.

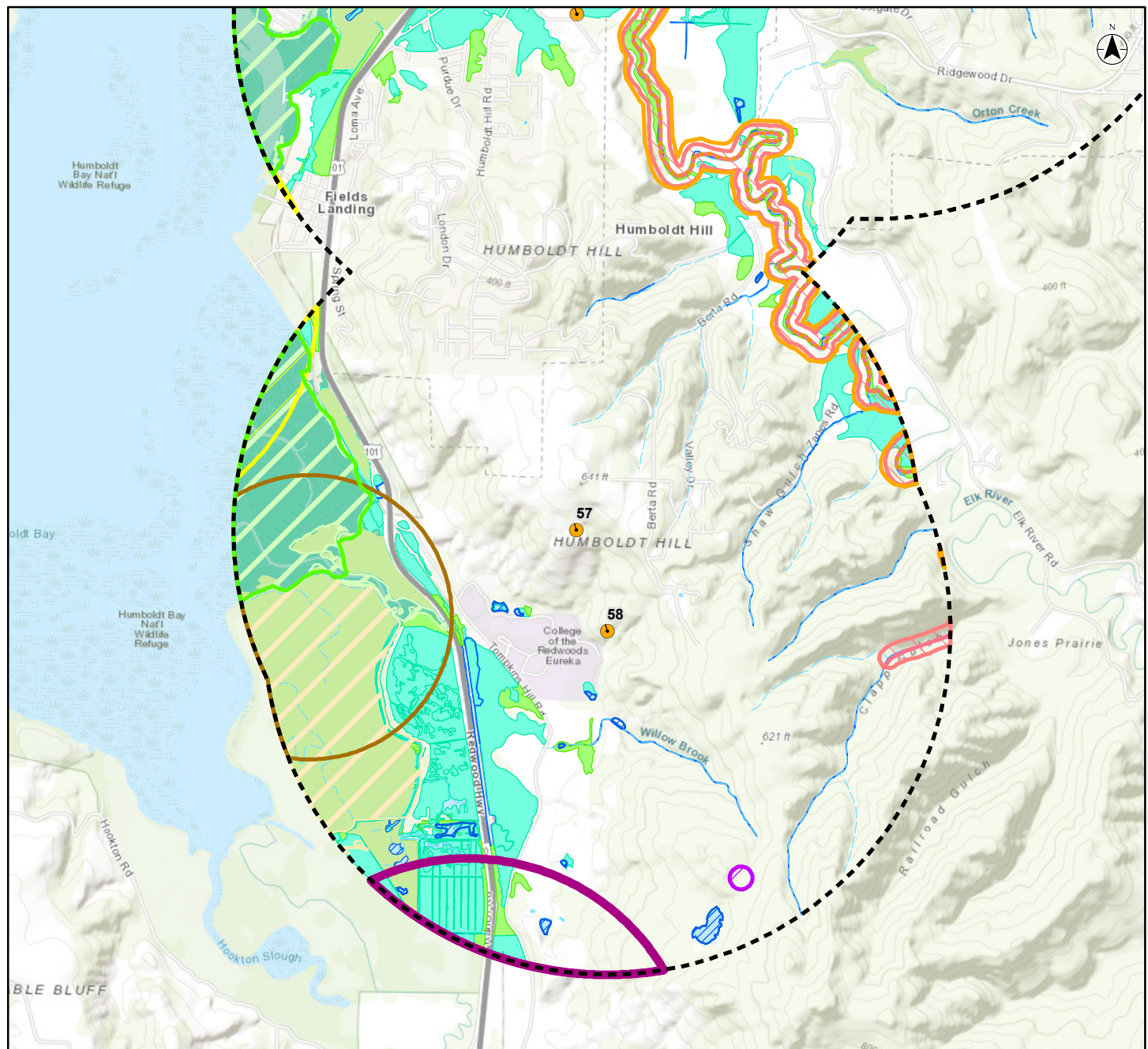
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Project Location:
ARCATA SOUTH, EUREKA, FIELDS
LANDING, CA Quad
T04N R01W S03, T04N R01W S09, T04N
R01W S10, T04N R01W S28, T05N R01E
S30, T05N R01E S31, T05N R01W S36

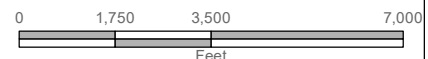
Pacific Gas and Electric Company
Vegetation Management

**Humboldt County Bundle CDP #7_Transmission
Figure 3. CNDDDB Occurrences (Wildlife)**

Page 2 of 3



- Work Location
- Study Area (1.5-Mile Buffer)
- National Wetlands Inventory**
 - Freshwater Emergent Wetland
 - Freshwater Forested/Shrub Wetland
 - Lake
 - Freshwater Pond
 - Riverine
 - Estuarine and Marine Deepwater
 - Estuarine and Marine Wetland
- National Hydrography Dataset**
 - Stream; River
 - Lake; Pond; Reservoir
 - Swamp/Marsh
- CNDDDB Occurrences**
 - bald eagle
 - coho salmon - southern Oregon / northern California ESU
 - green sturgeon - southern DPS
 - longfin smelt (historic)
 - steelhead - northern California DPS winter-run
 - tidewater goby
 - western bumble bee (historic)
- Critical Habitat**
 - Tidewater goby
 - Green Sturgeon
 - Chinook Salmon
 - Steelhead



NOTE: Critical habitat for species included in this report and/or could be impacted by the project are mapped.

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Project Location:
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LANDING, CA Quad
T04N R01W S03, T04N R01W S09, T04N
R01W S10, T04N R01W S28, T05N R01E
S30, T05N R01E S31, T05N R01W S36

Pacific Gas and Electric Company
Vegetation Management

**Humboldt County Bundle CDP #7_Transmission
Figure 3. CNDDDB Occurrences (Wildlife)**