

APPENDIX C

Biological Resources

Appendix C contains two tables and correspondence with USFWS and NMFS. The USFWS correspondence contains an area species list. Table C-1 describes habitats from field surveys conducted from O'Banion

Substation to Tracy Substation. Table C-2 is a list of Federally-listed endangered, threatened, proposed, and candidate species, which may be present in the study area.

Table C-1. Habitats Observed Along the Existing Right-of-Way from O'Banion Substation to Tracy Substation

Survey Reach	Starting Point (north)		Ending Point (south)		Habitat Type and Description
	Road Crossing or Other Descriptive Point	Segment/ MP mile/MP 0.1 mile ¹	Road Crossing or Other Descriptive Point	Segment/ MP mile/MP 0.1 mile ¹	
1	O'Banion Substation	A/0/1	Gilsizer Slough	A/1/5	Cropland—Ricefields with associated irrigation ditches and some scattered wetlands. This irrigation ditch contains some dense vegetation along its banks and may provide suitable giant garter snake habitat. In addition, there is a large slough just west of the ROW.
2	Gilsizer Slough north bank	A/1/5	Gilsizer Slough south bank	A/2/1	Freshwater emergent wetland
3	Gilsizer Slough south bank	A/2/1		A/6/4	Cropland—Ricefields
4		A/6/4	Where ROW turns east away from levee	A/8/4	Cropland—Ricefields, also the irrigation ditch that parallels the ROW becomes relatively barren
5	Where ROW turns east away from levee	A/8/4	North bank levee of Feather River Tower 146/1	A/11/0	Cropland
6	North Bank levee of Feather River	Structure 146/1 approx. A/10/4	South Bank levee of Feather River to the levee	A/11/4	Riparian, riverine, cropland—Riparian habitat on both sides of the river. Tower 146/4 is located within the floodplain in between levees. Cropland north and south of riparian corridor.
7	South Bank levee	A/11/4	Lee Rd-Tower 148/1	A/12/4	Cropland
8	Lee Rd	Structure 148/1 approx. A/12/4	Powerline Road	A/13/3	Cropland, riparian, riverine—Predominantly cropland. Small amount of riparian habitat where the ROW crosses Coon Creek.
9	Powerline Road	A/13/3	Pleasant Grove Slough/Creek	A/17/3	Cropland
10	Area immediately surrounding Pleasant Grove Slough/Creek	A/17/3	Approximately Howsley Road	153/2 approx. A/18/1	Wetland, Riparian, and riverine—Floodplain
11	Approximately Howsley Road Tower 153/2.	A/18/1	Proposed divergence point for Alternative 2 Tower 157/4 approx.	A/22/3	Urban, grassland, and cropland—cemetery, residential, ricefield, and a small irrigation ditch.

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12	Proposed divergence point for Alternative 2. Tower 157/4.	A/22/3	Baseline Road Tower 159/3	B/2/0	Grassland
13	Baseline Road Tower 159/3.	B/2/0	Rio Linda Road Tower 160/3.	B/2/4	Urban, grassland, and valley oak woodland—This area contains potential vernal pool habitat
14	Rio Linda Road Tower 160/3	B/2/4	Elverta switchyard	C/0/0	Grassland—Partially grazed
15	Elverta switchyard	C/0/0	Del Paso Road	C/4/2	Grassland
16	Del Paso Road	C/4/2	San Juan Road to American River Parkway	C/7/4	Urban
17	San Juan Road to American River Parkway	C/7/4	Tower 12/1	D/0/3	Riparian, floodplain with elderberry shrubs (evidence of valley elderberry longhorn beetle on some trees).
18	Near Santos Avenue Tower 12/1	D/0/3	North Levee at American River crossing	D/2/2	Urban
19	North Levee at American River crossing	D/2/2	South Levee at American River crossing	D/2/5	Urban, riparian, riverine—Contains an urban parkway and a very small riparian corridor
20	South Levee at American River crossing	D/2/5	Jackson Road Tower 15/2	D/3/2	Urban, grassland—The urban habitat is primarily industrial buildings devoid of vegetation
21	Jackson Road Tower 15/2	D/3/2	Florin Road Tower 19/1	D/7/4	Urban, grassland—Dump located immediately south of Jackson Road turning into annual grassland further south
22	Florin Road Tower 19/1	D/7/4	Gravel road Tower 20/5	D/9/4	Grassland, urban—Scattered housing located very close to ROW
23	Gravel road Tower 20/5	D/9/4	Road between Calvine and Gerber roads	D/10/0	Urban, potentially freshwater emergent wetland—Small wet depression located under ROW
24	Road between Calvine and Gerber roads	D/10/0	Tower 21/2	D/10/1	Urban—Residential park
25	Tower 21/2	D/10/1	Sheldon Road	D/10/7	Cropland—Currently tilled

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26	Sheldon Road	D/10/7	Bond Road	D/12/7	Grassland, riparian, riverine—At Bond Road, the ROW crosses Laguna Creek and its associated riparian corridor. This area looked to contain suitable red-legged frog habitat.
27	Bond Road	D/12/7	Route 99	E/1/4	Grassland, urban, potential lacustrine—Large graded housing development area with seasonal pond (currently empty). This area may also contain vernal pools, in particular between Calvine Road and Elk Grove Road.
28	Route 99	E/1/4	Eshlinger Road	E/1/5	Grassland, lacustrine—Stock pond located near tower 28/2
29	Eshlinger Road	E/1/5	Cosumnes River Riparian corridor	E/3/1	Pasture, riparian habitat 120 yards wide, containing predominantly willow and cottonwood trees with several large oaks.
30	Cosumnes River Riparian corridor	E/3/1	South of Laguna Creek	E/4/5	Riparian, riverine, grassland—Predominantly Cosumnes River Preserve land (CDFG parcels). Riparian habitat is approximately 120 yards wide, predominantly willow and cottonwood trees with several large oak trees. Also, small riparian corridor along Badger Creek.
31	South of Laguna Creek	E/4/5	Twin Cities Road	E/6/4	Riverine, cropland— Numerous sloughs (irrigation ditches).
32	Twin Cities Road	E/6/4	Robson Road Tower 34/2	E/7/4	Pasture, riparian, riverine—Riparian corridor for Deadman's Gulch
33	Robson Road Tower 34/2	E/7/4	Orr Road Tower 35/2	E/8/6	Orchard/vineyard—There is a sign to the north stating that this area is part of the Cosumnes River Preserve.
34	Orr Road Tower 35/2	E/8/6	New Hope Road	E/10/3	Orchard/vineyard, cropland, pasture—Scattered irrigation ditches
35	New Hope Road	E/10/3	Kost Road Tower 36/4	E/10/6	Grassland, pasture
36	Kost Road Tower 36/4	E/10/6	Peltier Road Tower 40/1	E/13/4	Riparian, riverine, orchard/vineyard, pasture—Riparian corridors associated with Mokelumne River and Dry Creek

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37	Peltier Road Tower 40/1	E/13/4	Immediately north of Thornton Road	E/17/5	Cropland, orchard/vineyard, pasture
38	Immediately north of Thornton Road	E/17/5	Eightmile Road Tower 49/4	E/23/3	Cropland, freshwater emergent wetlands—Wetlands are scattered.
39	Eightmile Road Tower 49/4	E/23/3	Brookside Road, north bank of San Joaquin River	E/29/0	Urban, riverine, freshwater emergent wetland, valley foothill riparian, cropland, annual grassland—Large graded area appears to be a future subdivision. Large riverine and riparian areas associated with Pixley Slough and Bear Creek. Croplands, mixed wetland, and grasslands north of slough.
40	Brookside Road at Buckley Cove	E/29/0	South bank of San Joaquin River	E/29/1	Riverine—Mostly rip rap adjacent to river; no substantial riparian corridor
41	South bank of the San Joaquin River	E/29/1	Tracy Substation	E/46/2	Cropland, riverine—The ROW does cross Middle River, Old River, and the Contra Costa Canal, but access was limited. As a result, we are uncertain whether these riverine crossings contain riparian corridors.

Source: Original

¹ E/29/1 refers to Segment E MP 29.1

approx: approximately

CDFG: California Department of Fish and Game

ROW: right-of-way