Appendix C

Notes:
1. Base Map Source: NAIP, USDA 2016
2. Imagery Source: NAIP 2012-2016
3. 2011 Delineation Data Source (Authority and FRA 2012)
4. USGS Topo Quad: Chowchilla

Field Survey Dates: June and August 2013, December 2014, April 2015, and August and September 2016

Drawn By: Daniel Schiff, Kate Carpenter, Alex Gole, Alex Angier, Bill Parker (2010-2018)
Appendix C

Notes:
1. Base Map Source: NAIP, USDA 2016
2. Imagery Source: NAIP 2012-2016
3. 2011 Delineation Data Source (Authority and FRA 2012)
4. USGS Topo Quad: Berenda
Field Survey Dates: June and August 2013, December 2014, April 2015, and August and September 2016
Drawn By: Daniel Schiff, Kate Carpenter, Alex Gole, Alex Angier, Bill Parker (2010-2018)
37°3'50"N 37°4'0"N

Merced to Fresno Section: Central Valley Wye Second Supplemental Wetlands Delineation Report

CALEXIA.

100

0

200

50

100

1 inch = 200 ft

Wetland Study Area Boundary
Merced to Fresno 2011 Delineation Area
Accessed Parcel
Township & Range
Section
Wetland Feature ID

Data Point (DP-#)
Photo Station (PS-#)

Wetlands
Palustrine Forested Wetland (PFW)
Seasonal Wetland (SW)

Vernal Pool (VP)

Other Waters
Natural Watercourse (NW)
Constructed Watercourse (CW)
Constructed Basin (CB)

MERCED CO
MADERA CO

Notes:
1. Base Map Source: NAIP, USDA 2016
2. Imagery Source: NAIP 2012-2016
3. 2011 Delumped Data Source (Authority and FRA 2012)
4. USGS Topo Quad: Sanger, Exeter
Field Survey Dates: June and August 2013, December 2014, April 2015, and August and September 2016

Drawn By/Date: Daniel Schiff, Kate Carpenter; Alex Gole, Alex Angles; Bill Parker (2010-2018)
Wetland Study Area Boundary
Merced to Fresno 2011 Delineation Area
Accessed Parcel

Township & Range
Section

Wetlands
Palustrine Forested Wetland (PFW)
Seasonal Wetland (SW)

Data Point (DP-#)
Photo Station (PS-#)

Vernal Pool (VP)

Other Waters
Natural Watercourse (NW)
Constructed Watercourse (CW)
Constructed Basin (CB)

Notes:
1. Base Map Source: NAIP, USDA 2016
2. Imagery Source: NAIP 2012-2016
3. 2011 Delineation Data Source (Authority and FRA 2012)
4. USGS Topo Quad: Santa Rita Bridge
Field Survey Dates: June and August 2013, December 2014, April 2015, and August and September 2016
Drawn By: Daniel Schiff, Kate Carpenter, Alex Gole, Alex Angier, Bill Parker (2010-2018)
Notes:
1. Base Map Source: NAIP, USDA 2016
2. Imagery Source: NAIP 2012-2016
3. 2011 Delineation Data Source (Authority and FRA 2012)
4. USGS Topo Quad: Santa Rita Bridge
Field Survey Dates: June and August 2013, December 2014, April 2015, and August and September 2016
Drawn By: Daniel Schiff, Kate Carpenter, Alex Gole, Alex Angier, Bill Parker (2010-2018)
Appendix C

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February 2018
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Notes:
1. Base Map Source: NAIP, USDA 2016
2. Imagery Source: NAIP 2012-2016
3. 2011 Delineation Data Source (Authority and FRA 2012)
4. USGS Topo Quad: Santa Rita Bridge
Field Survey Dates: June and August 2013, December 2014, April 2015, and August and September 2016
Drawn By: Daniel Schiff, Kate Carpenter, Alex Gore, Alex Angier, Bill Parker (2010-2018)
Wetland Study Area Boundary
Merced to Fresno 2011 Delineation Area
Accessed Parcel
Township & Range
Section
Wetland Feature ID

Data Point (DP-#)
Photo Station (PS-#)

Palustrine Forested Wetland (PFW)
Seasonal Wetland (SW)

Vernal Pool (VP)

Natural Watercourse (NW)
Constructed Watercourse (CW)

Notes:
1. Base Map Source: NAIP, USDA 2016
2. Imagery Source: NAIP 2012-2016
3. 2011 Delineation Data Source (Authority and FRA 2012)
4. USGS Topo Quad: Santa Rita Bridge
Field Survey Dates: June and August 2013, December 2014, April 2015, and August and September 2016
Drawn By/Date: Daniel Schiff, Kate Carpenter, Alex Gole, Bill Parker (2010-2018)
### Wetland Study Area Boundary
Merced to Fresno 2011 Delineation Area

#### Accessed Parcel

- **Data Point (DP-#)**
- **Photo Station (PS-#)**

#### Wetland Feature ID
- **Palustrine Forested Wetland (PFW)**
- **Seasonal Wetland (SW)**

#### Other Waters
- **Vernal Pool (VP)**
- **Natural Watercourse (NW)**
- **Constructed Watercourse (CW)**
- **Constructed Basin (CB)**

### Notes:
1. Base Map Source: NAIP, USDA 2016
2. Imagery Source: NAIP 2012-2016
3. 2011 Delineation Data Source (Authority and FRA 2012)
4. USGS Topo Quad: Bliss Ranch, Chowchilla

Field Survey Dates: June and August 2013, December 2014, April 2015, and August and September 2016

Drawn By: Daniel Schiff, Kate Carpenter, Alex Gole, Alex Angier, Bill Parker (2010-2018)
Notes:
1. Base Map Source: NAIP, USDA 2016
2. Imagery Source: NAIP 2012-2016
3. 2011 Delineation Data Source (Authority and FRA 2012)
4. USGS Topo Quad: Chowchilla
Field Survey Dates: June and August 2013, December 2014, April 2015, and August and September 2016
Drawn By: Daniel Schiff, Kate Carpenter, Alex Gole, Alex Angier, Bill Parker (2010-2018)
California High-Speed Rail Authority Project Environmental Document

Section 14

Merced to Fresno Section: Central Valley Wye Second Supplemental Wetlands Delineation Report

1. Base Map Source: NAIP, USDA 2016
2. Imagery Source: NAIP 2012-2016
3. 2011 Delineation Data Source (Authority and FRA 2012)
4. USGS Topo Quad: Chowchilla

Field Survey Dates: June and August 2013, December 2014, April 2015, and August and September 2016

Drawn By: Daniel Schiff, Kate Carpenter
Alex Gole, Alex Angier, Bill Parker (2010-2018)

Notes:

- Wetland Study Area Boundary
- Merced to Fresno 2011 Delineation Area
- Accessed Parcel
- Township & Range
- Section
- Wetland Feature ID
- Data Point (DP-#)
- Photo Station (PS-#)

Wetlands
- Palustrine Forested Wetland (PFW)
- Seasonal Wetland (SW)
- Vernal Pool (VP)

Other Waters
- Natural Watercourse (NW)
- Constructed Watercourse (CW)
- Constructed Basin (CB)

1 inch = 200 feet
Appendix C

The diagram shows a map of the Merced to Fresno 2011 Delineation Area with various wetland and watercourse features indicated. The map includes Wetland Study Area Boundary, Accessed Parcel, Township & Range, Section, Wetland Study Area Boundary, Merced to Fresno 2011 Delineation Area, Data Point (DP-#), Photo Station (PS-#), Wetland Feature ID (PFW-001), Vernal Pool (VP), Seasonal Wetland (SW), Palustrine Forested Wetland (PFW), Natural Watercourse (NW), Constructed Watercourse (CW), Constructed Basin (CB), Other Waters, and Madera County.

Notes:
1. Base Map Source: NAIP, USDA 2016
2. Imagery Source: NAIP 2012-2016
3. 2011 Delineation Data Source (Authority and FRA 2012)
4. USGS Topo Quad: Chowchilla

Field Survey Dates: June and August 2013, December 2014, April 2015, and August and September 2016

Drawn By/Date: Daniel Schiff, Kate Carpenter, Alex Gole, Alex Angier, Bill Parker (2010-2018)
Appendix C

Notes:
1. Base Map Source: NAIP, USDA 2016
2. Imagery Source: NAIP 2012-2016
3. 2011 Delineation Data Source (Authority and FRA 2012)
4. USGS Topo Quad: Berenda

Field Survey Dates: June and August 2013, December 2014, April 2015, and August and September 2016
Drawn By: Daniel Schiff, Kate Carpenter, Alex Gole, Alex Angier, Bill Parker (2010-2018)
Wetland Study Area Boundary
Merced to Fresno 2011 Delineation Area
Accessed Parcel
Township & Range
Section

Wetlands
- Palustrine Forested Wetland (PFW)
- Seasonal Wetland (SW)

Data Point (DP-#)
Photo Station (PS-#)

Vernal Pool (VP)

Other Waters
- Natural Watercourse (NW)
- Constructed Watercourse (CW)
- Constructed Basin (CB)

Notes:
1. Base Map Source: NAIP, USDA 2016
2. Imagery Source: NAIP 2012-2016
3. 2011 Delineation Data Source (Authority and FRA 2012)
4. USGS Topo Quad: Berenda
Field Survey Dates: June and August 2013, December 2014, April 2015, and August and September 2016
Drawn By: Daniel Schiff, Kate Carpenter, Alex Gole, Alex Angier, Bill Parker (2010-2018)

Drawn By: Daniel Schiff, Kate Carpenter, Alex Gole, Alex Angier, Bill Parker (2010-2018)
Notes:
1. Base Map Source: NAIP, USDA 2016
2. Imagery Source: NAIP 2012-2016
3. 2011 Delineation Data Source (Authority and FRA 2012)
4. USGS Topo Quad: Santa Rita Bridge
Field Survey Dates: June and August 2013, December 2014, April 2015, and August and September 2015
Drawn By/Date: Daniel Schiff, Kate Carpenter, Alex Gole, Alex Angier, Bill Parker (2010-2018)
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Appendix C

Notes:
1. Base Map Source: NAIP, USDA 2016
2. Imagery Source: NAIP 2012-2016
3. 2011 Delineation Data Source (Authority and FRA 2012)
4. USGS Topo Quad: Santa Rita Bridge
Field Survey Dates: June and August 2013, December 2014, April 2015, and August and September 2016
Drawn By: Daniel Schiff, Kate Carpenter, Alex Gole, Alex Angler, Bill Parker (2010-2018)

1 inch = 200 feet

120°31'30"W 120°31'20"W 120°31'10"W 120°31'0"W
37°3'30"N

Wetland Study Area Boundary
Merced to Fresno 2011 Delineation Area
Accessible Parcel
Township & Range
Section
Wetland Feature ID

Data Point (DP-#)
Photo Station (PS-#)

Vernal Pool (VP)

Other Waters
Natural Watercourse (NW)
Seasonal Wetland (SW)

Palustrine Forested Wetland (PFW)
Seasonal Wetland (SW)

Notes:

APPENDIX C

Wetland Study Area Boundary
Merced to Fresno 2011 Delineation Area
Accessed Parcel
Township & Range
Section
Wetland Feature ID

Data Point (DP-#)
Photo Station (PS-#)

Vernal Pool (VP)

Other Waters
Natural Watercourse (NW)
Seasonal Wetland (SW)

Palustrine Forested Wetland (PFW)
Seasonal Wetland (SW)

Notes:

APPENDIX C

Cali
Wetland Study Area Boundary
Merced to Fresno 2011 Delineation Area
Accessed Parcel
 Township & Range
 Section
PFW-001 Wetland Feature ID

Data Point (DP-#)
Photo Station (PS-#)

Wetlands

Palustrine Forested Wetland (PFW)
Seasonal Wetland (SW)

Natural Watercourse (NW)
Constructed Watercourse (CW)
Constructed Basin (CB)

Vernal Pool (VP)

Other Waters

Notes:
1. Base Map Source: NAIP, USDA 2016
2. Imagery Source: NAIP 2012-2016
3. 2011 Delineation Data Source (Authority and FRA 2012)
4. USGS Topo Quad: Bliss Ranch
Field Survey Dates: June and August 2013, December 2014, April 2015, and August and September 2016
Drawn By: Daniel Schiff, Kate Carpenter, Alex Gole, Alex Angier, Bill Parker (2010-2018)
Notes:
1. Base Map Source: NAIP, USDA 2016
2. Imagery Source: NAIP 2012-2016
3. 2011 Delineation Data Source (Authority and FRA 2012)
4. USGS Topo Quad: Bliss Ranch
Field Survey Dates: June and August 2013, December 2014, April 2015, and August and September 2016
Drawn By/Date: Daniel Schiff, Kate Carpenter, Alex Gile, Alex Angier, Bill Parker (2010-2018)
Notes:
1. Base Map Source: NAIP, USDA 2016
2. Imagery Source: NAIP 2012-2016
3. 2011 Delineation Data Source (Authority and FRA 2012)
4. USGS Topo Quad: Bliss Ranch
Field Survey Dates: June and August 2013, December 2014, April 2015, and August and September 2016
Drawn By: Daniel Schiff, Kate Carpenter, Alex Gole, Alex Angier, Bill Parker (2010-2018)

Wetland Study Area Boundary
Merced to Fresno 2011 Delineation Area
Accessed Parcel
Township & Range
Section

Data Point (DP-#)
Photo Station (PS-#)

Other Waters
Natural Watercourse (NW)
Seasonal Wetland (SW)

PFW-001 Wetland Feature ID
Wetlands
Palustrine Forested Wetland (PFW)
Seasonal Wetland (SW)

1 inch = 200 feet

MERCED CO
MADERA CO
152
-1
99

Weather Delineation

### Wetland Delineation

#### Notes:
- 1. Base Map Source: NAIP, USDA 2016
- 2. Imagery Source: NAIP 2012-2016
- 3. 2011 Delineation Data Source (Authority and FRA 2012)
- 4. USGS Topo Quad: Chowchilla

Field Survey Dates: June and August 2013, December 2014, April 2015, and August and September 2016

Drawn By: Daniel Schiff, Kate Carpenter, Alex Gole, Alex Angier, Bill Parker (2010-2018)

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**Wetland Study Area Boundary**

**Merced to Fresno 2011 Delineation Area**

**Accessed Parcel**

**Township & Range**

**Section**

**Wetlands**
- Palustrine Forested Wetland (PFW)
- Vernal Pool (VP)
- Natural Watercourse (NW)

**Other Waters**
- Constructed Watercourse (CW)
- Constructed Basin (CB)

**Meters**

1 inch = 200 feet

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**Data Points (DP-#)**

**Photo Station (PS-#)**

**Accessed Parcel**

**Natural Watercourse (NW)**

**Constructed Watercourse (CW)**

**Constructed Basin (CB)**

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**Notes:**

1. Base Map Source: NAIP, USDA 2016
2. Imagery Source: NAIP 2012-2016
3. 2011 Delineation Data Source (Authority and FRA 2012)
4. USGS Topo Quad: Chowchilla

Field Survey Dates: June and August 2013, December 2014, April 2015, and August and September 2016

Drawn By: Daniel Schiff, Kate Carpenter, Alex Gole, Alex Angier, Bill Parker (2010-2018)
Wetland Study Area Boundary
Merced to Fresno 2011 Delineation Area
Accessed Parcel
Township & Range
Section
Wetlands
Palustrine Forested Wetland (PFW)
Seasonal Wetland (SW)
Data Point (DP-#)
Photo Station (PS-#)
Vernal Pool (VP)
Other Waters
Natural Watercourse (NW)
Constructed Watercourse (CW)
Constructed Basin (CB)

Notes:
1. Base Map Source: NAIP, USDA 2016
2. Imagery Source: NAIP 2012-2016
3. 2011 Delineation Data Source (Authority and FRA 2012)
4. USGS Topo Quad: Chowchilla
Field Survey Dates: June and August 2013, December 2014, April 2015, and August and September 2016
Drawn By: Daniel Schiff, Kate Carpenter, Alex Cole, Alex Angier, Bill Parker (2010-2018)
Appendix C

MADERA COUNTY

Wetland Study Area Boundary
Merced to Fresno 2011 Delineation Area
Accessed Parcel

Merced to Fresno 2011 Delineation Area
Accessed Parcel

Wetland Study Area Boundary
Merced to Fresno 2011 Delineation Area
Accessed Parcel

Notes:
1. Base Map Source: NAIP, USDA 2016
2. Imagery Source: NAIP 2012-2016
3. 2011 Delineation Data Source (Authority and FRA 2012)
4. USGS Topo Quad: Chowchilla

Field Survey Dates: June and August 2013, December 2014, April 2015, and August and September 2016

Drawn By: Daniel Schiff, Kate Carpenter, Alex Gole, Alex Angier, Bill Parker (2010-2018)
Notes:
1. Base Map Source: NAIP, USDA 2016
2. Imagery Source: NAIP 2012-2016
3. 2011 Delineation Data Source (Authority and FRA 2012)
4. USGS Topo Quad: Chowchilla
Field Survey Dates: June and August 2013, December 2014, April 2015, and August and September 2016
drawn by: Daniel Schiff, Kate Carpenter, Alex Gole, Alex Angier, Bill Parker (2010-2018)
Notes:
1. Base Map Source: NAIP, USDA 2016
2. Imagery Source: NAIP 2012-2016
3. 2011 Delineation Data Source (Authority and FRA 2012)
4. USGS Topo Quad: Berenda
Field Survey Dates: June and August 2013, December 2014, April 2015, and August and September 2016
Drawn By: Daniel Schiff, Kate Carpenter, Alex Gole, Alex Angier, Bill Parker (2010-2018)
Appendix C

Notes:
1. Base Map Source: NAIP, USDA 2016
2. Imagery Source: NAIP 2012-2016
3. 2011 Delineation Data Source (Authority and FRA 2012)
4. USGS Topo Quad: Berenda
Field Survey Dates: June and August 2013, December 2014, April 2015, and August and September 2016
Drawn By/Date: Daniel Schiff, Kate Carpenter, Alex Gole, Alex Angier, Bill Parker (2010-2018)
### Wetland Study Area Boundary
- APN: 029-040-011-000
- Merced to Fresno 2011 Delineation Area
- Townships & Range
- Section

### Wetland Feature ID
- PFW-001
- Palustrine Forested Wetland (PFW)
- Seasonal Wetland (SW)

### Data Points (DP-#)
- Vernal Pool (VP)

### Other Waters
- Photo Station (PS-#)
- Natural Watercourse (NW)
- Constructed Watercourse (CW)
- Constructed Basin (CB)

### Notes:
1. Base Map Source: NAIP, USDA 2016
2. Imagery Source: NAIP 2012-2016
3. 2011 Delineation Data Source (Authority and FRA 2012)
4. USGS Topo Quad: Berenda

Field Survey Dates: June and August 2013, December 2014, April 2015, and August and September 2016

Drawn By: Daniel Schiff, Kate Carpenter, Alex Gole, Alex Angier, Bill Parker (2010-2018)

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**Appendix C**

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Madera County

Merced to Fresno Section: Central Valley Wye Second Supplemental Wetlands Delineation Report

February 2018
Notes:
1. Base Map Source: NAIP, USDA 2016
2. Imagery Source: NAIP 2012-2016
3. 2011 Delineation Data Source (Authority and FRA 2012)
4. USGS Topo Quad: Berenda, Kismet

Field Survey Dates: June and August 2013, December 2014, April 2015, and August and September 2016

Drawn By/Date: Daniel Schiff, Kate Carpenter, Alex Gole, Alex Angier, Bill Parker (2010-2018)
Notes:
1. Base Map Source: NAIP, USDA 2016
2. Imagery Source: NAIP 2012-2016
3. 2011 Delineation Data Source (Authority and FRA 2012)
4. USGS Topo Quad: Kismet

Field Survey Dates: June and August 2013, December 2014, April 2015, and August and September 2016

Drawn By: Daniel Schiff, Kate Carpenter, Alex Gole, Alex Angier, Bill Parker (2010-2017)