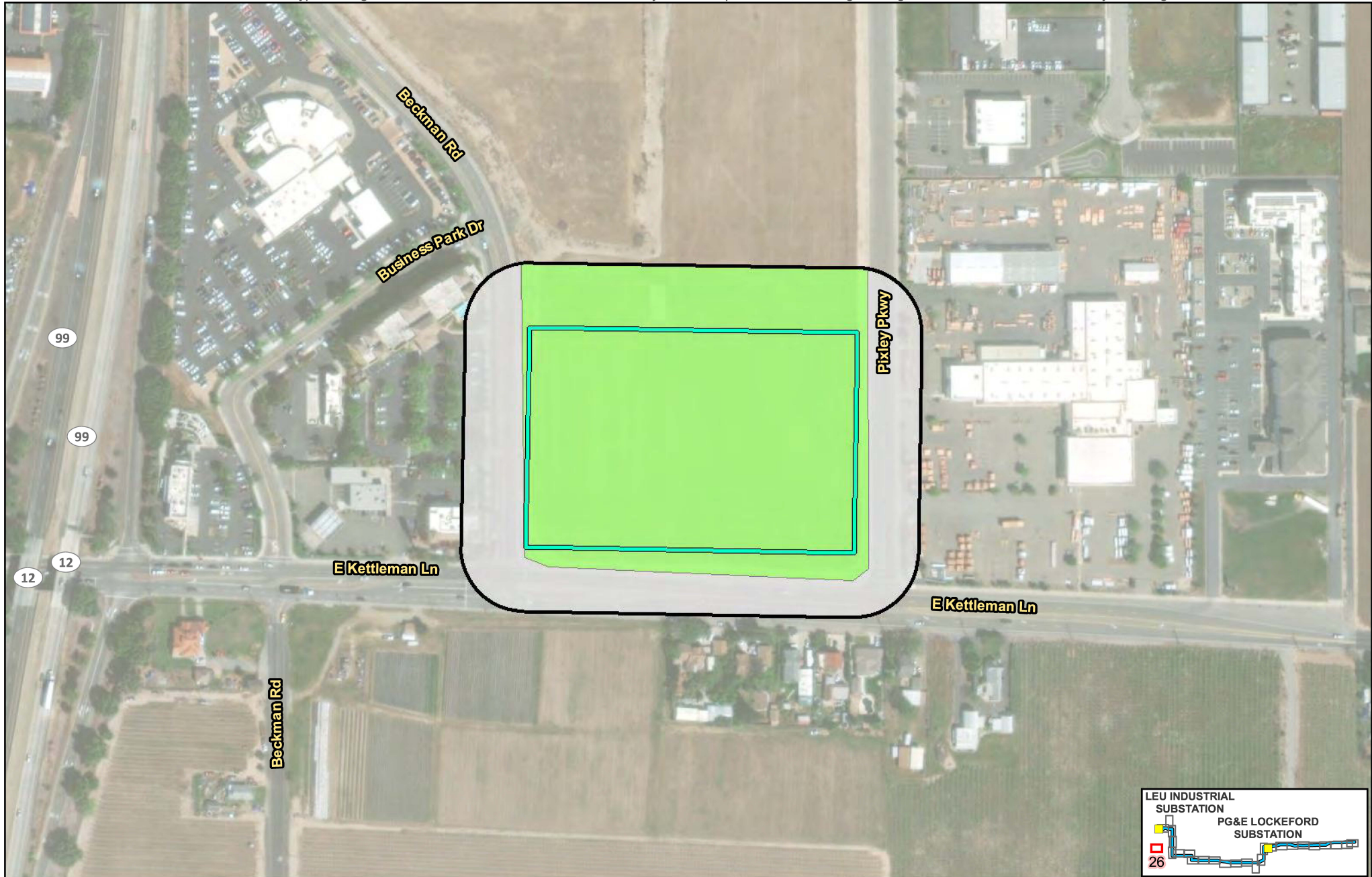


Preliminary design and engineering for the physical, civil, and outdoor components.
Exact structure type, configuration, and dimensions will be determined by CPUC requirements, final engineering, and other factors and are likely to change.



Legend

- | | | | |
|---|--|--|--|
| <ul style="list-style-type: none"> Biological Study Area (387.06 acres) Substation PG&E New 230 kV Transmission Line Existing 60 kV Power Line Existing 230 kV Transmission Line | Proposed Impact Areas <ul style="list-style-type: none"> Proposed Structure RQ-L1 Proposed TSP Structure: Modify or Replace Structure: Remove Existing Guy Stub Pole: Remove | <ul style="list-style-type: none"> Potential Guard Structure Area Proposed Access Route Proposed Work Area Proposed Pull Site Proposed Fenceline Proposed Staging Area | Land Cover <ul style="list-style-type: none"> Agriculture Developed/Disturbed |
|---|--|--|--|

Source:
1) Esri World Imagery

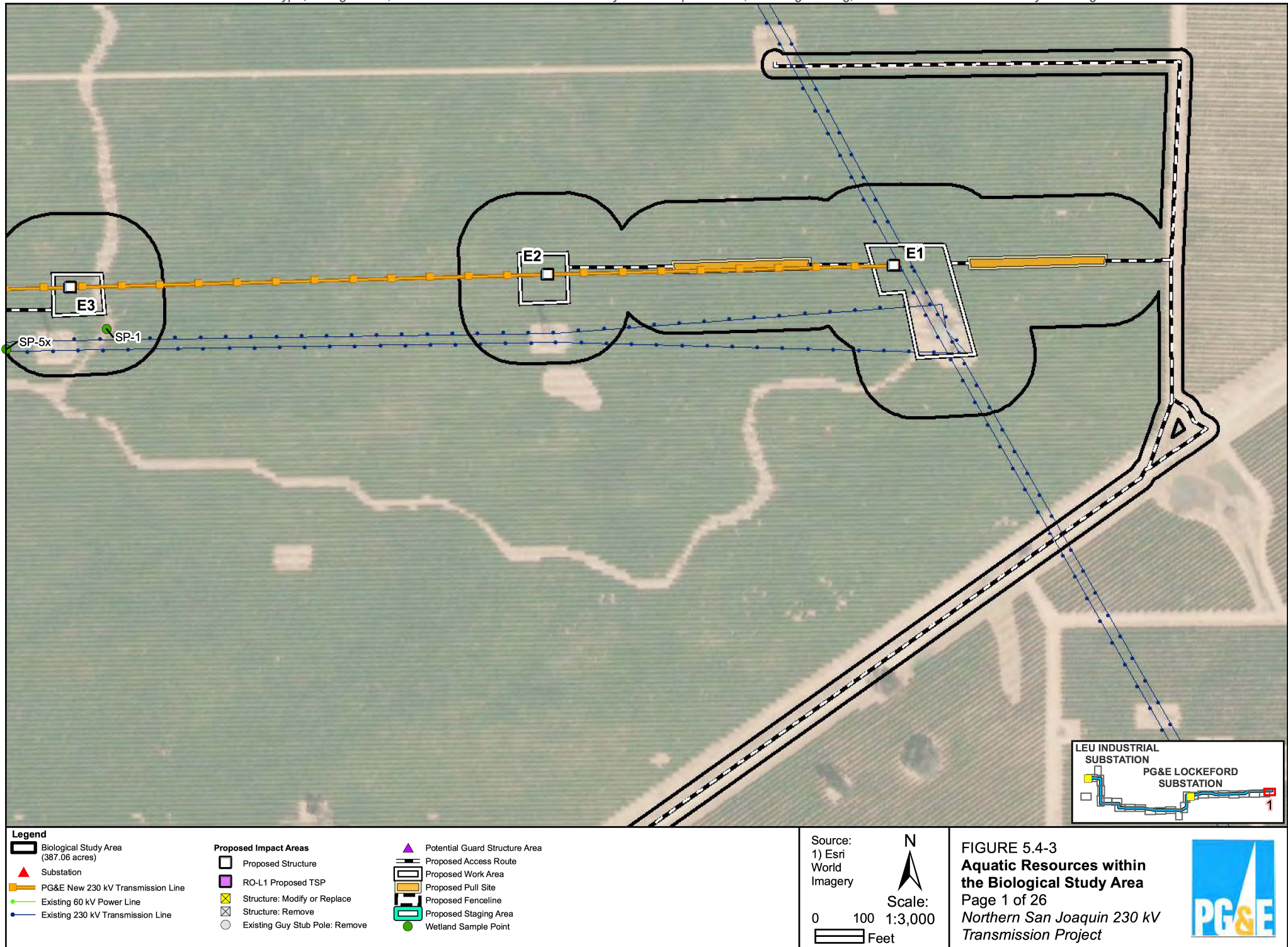
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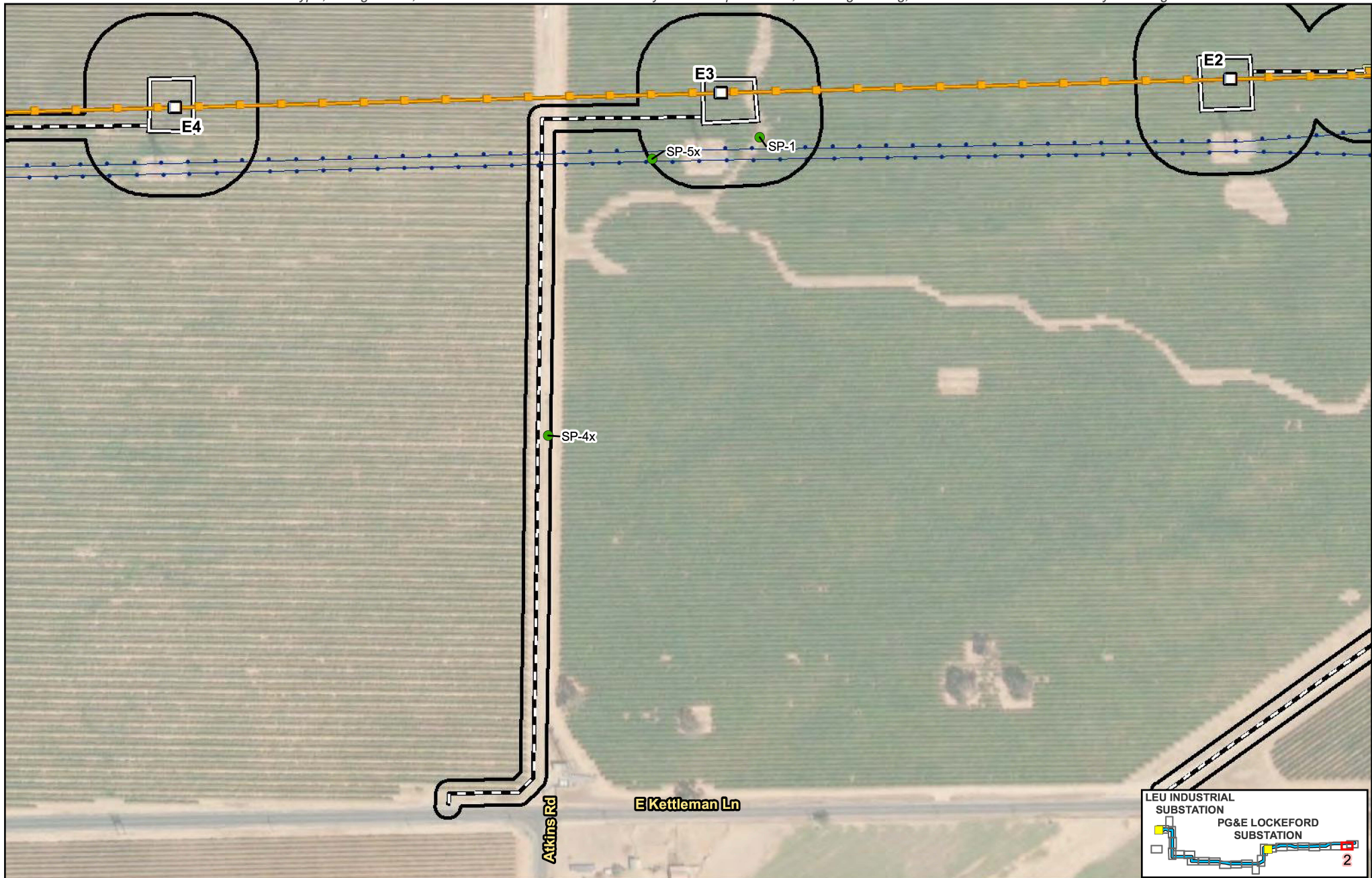
FIGURE 5.4-2
Land Cover within
the Biological Study Area
Page 26 of 26
Northern San Joaquin 230 kV
Transmission Project



Preliminary design and engineering for the physical, civil, and outdoor components.
Exact structure type, configuration, and dimensions will be determined by CPUC requirements, final engineering, and other factors and are likely to change.



Preliminary design and engineering for the physical, civil, and outdoor components.
Exact structure type, configuration, and dimensions will be determined by CPUC requirements, final engineering, and other factors and are likely to change.



Legend

Biological Study Area
(387.06 acres)

- Substation
- PG&E New 230 kV Transmission Line
- Existing 60 kV Power Line
- Existing 230 kV Transmission Line

Proposed Impact Areas

- Proposed Structure
- RO-L1 Proposed TSP
- Structure: Modify or Replace
- Structure: Remove
- Existing Guy Stub Pole: Remove

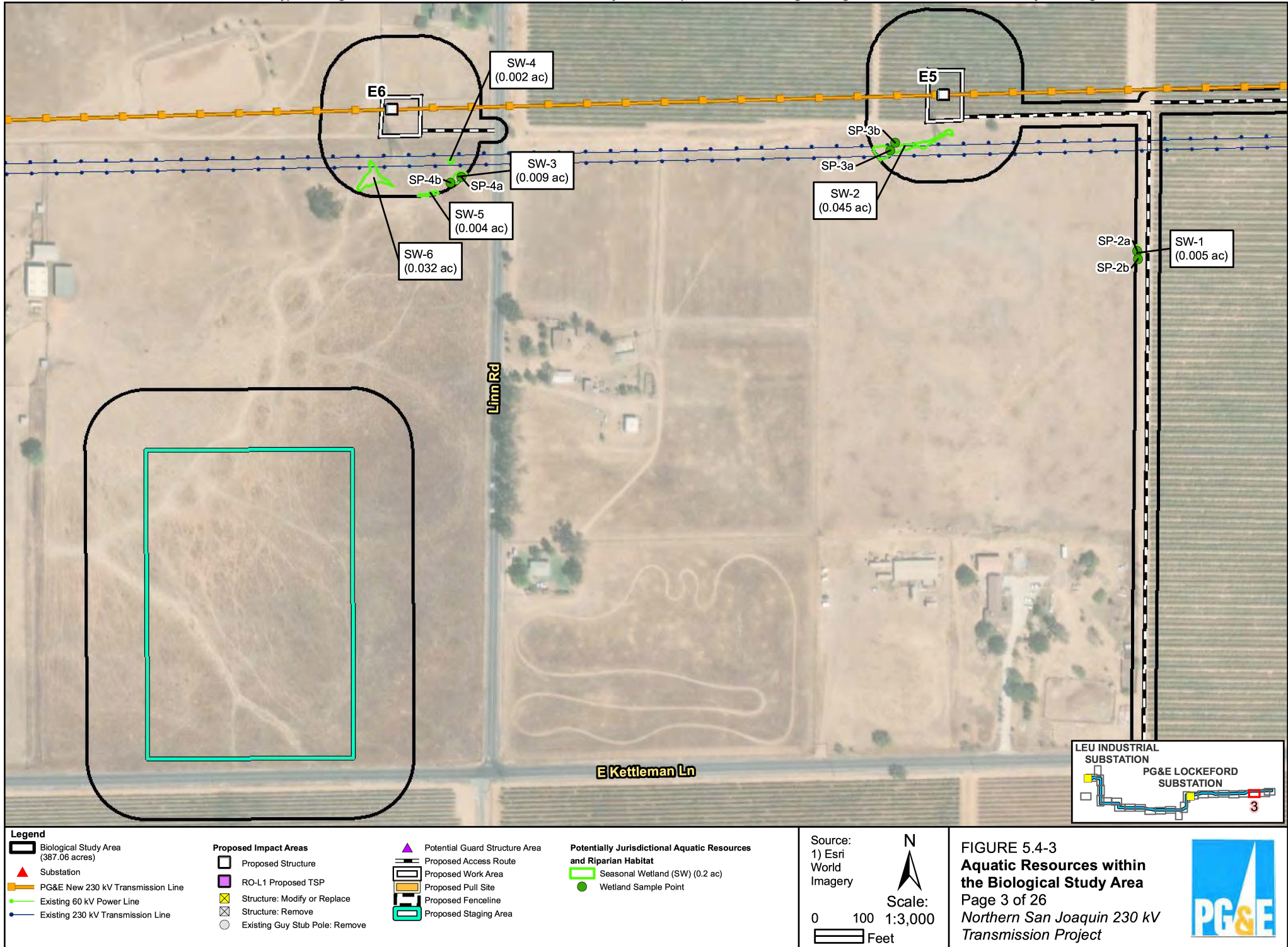
- Potential Guard Structure Area
- Proposed Access Route
- Proposed Work Area
- Proposed Pull Site
- Proposed Fenceline
- Proposed Staging Area
- Wetland Sample Point

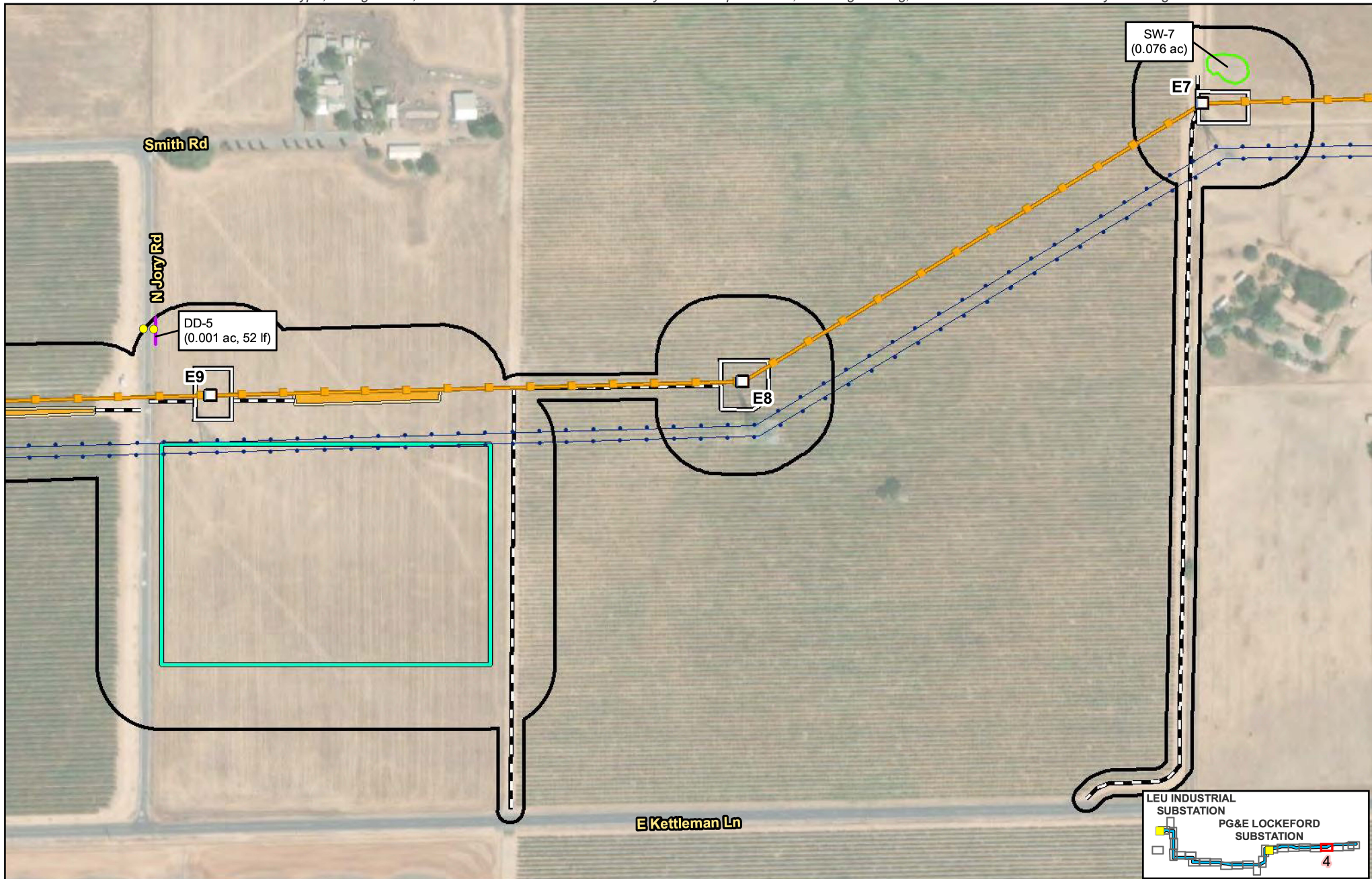
Source:
1) Esri
World
Imagery

Scale:
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Feet

FIGURE 5.4-3
Aquatic Resources within
the Biological Study Area
Page 2 of 26
Northern San Joaquin 230 kV
Transmission Project







Legend

- Biological Study Area (387.06 acres)
- ▲ Substation
- PG&E New 230 kV Transmission Line
- Existing 60 kV Power Line
- Existing 230 kV Transmission Line

Proposed Impact Areas

- Proposed Structure
- RO-L1 Proposed TSP
- Structure: Modify or Replace
- Structure: Remove
- Existing Guy Stub Pole: Remove

Potential Guard Structure Area

- ▲ Potential Guard Structure Area
- Proposed Access Route
- Proposed Work Area
- Proposed Pull Site
- Proposed Fenceline
- Proposed Staging Area

Potentially Jurisdictional Aquatic Resources and Riparian Habitat

- Seasonal Wetland (SW) (0.2 ac)
- Drainage Ditch (DD) (0.127 ac, 1,805 lf)
- Culvert

Source:
1) Esri
World
Imagery

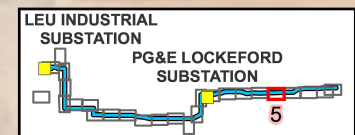
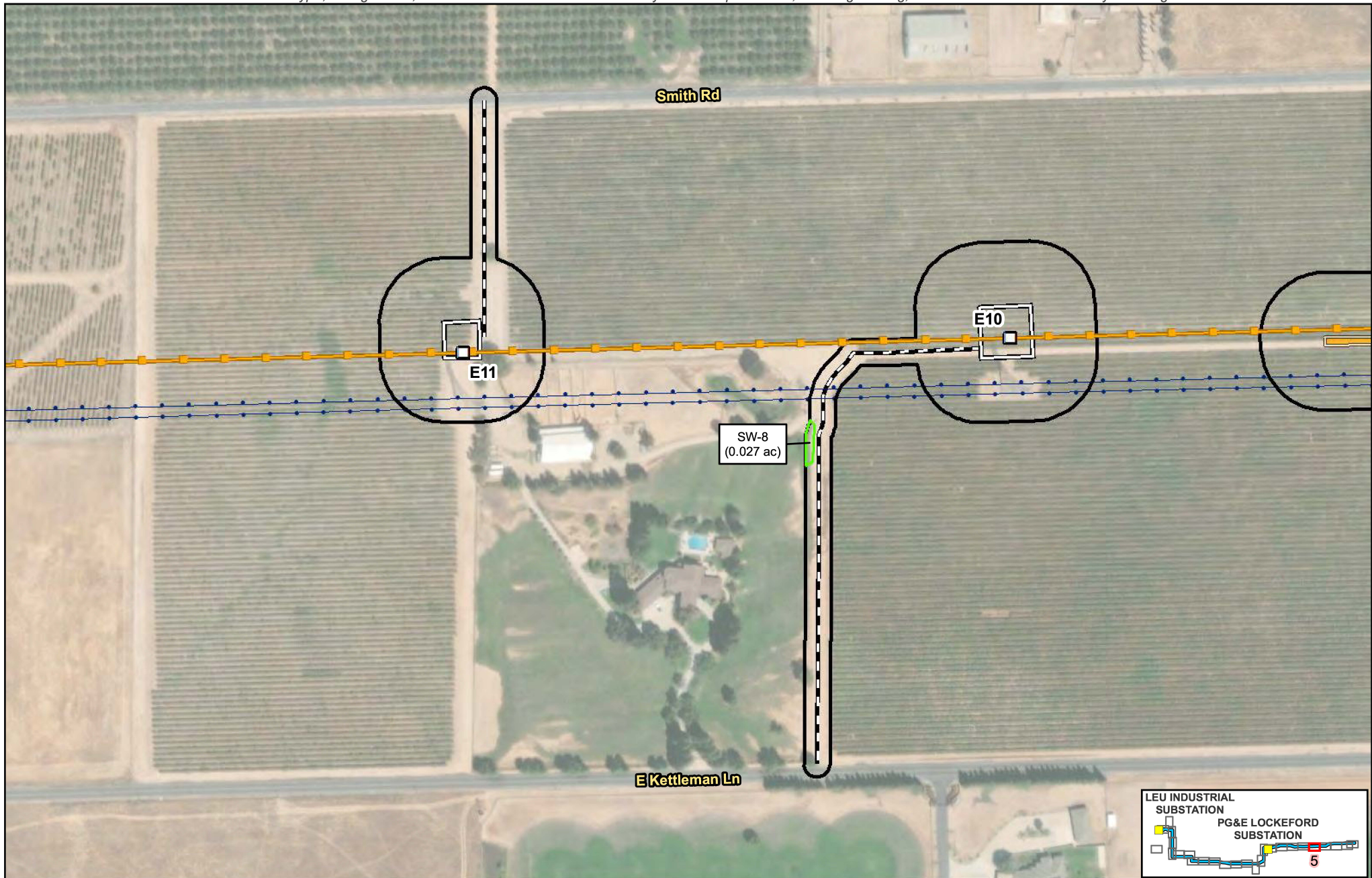
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FIGURE 5.4-3
Aquatic Resources within
the Biological Study Area
Page 4 of 26
Northern San Joaquin 230 kV
Transmission Project



Preliminary design and engineering for the physical, civil, and outdoor components.
Exact structure type, configuration, and dimensions will be determined by CPUC requirements, final engineering, and other factors and are likely to change.



Legend

Biological Study Area
(387.06 acres)

- Substation
- PG&E New 230 kV Transmission Line
- Existing 60 kV Power Line
- Existing 230 kV Transmission Line

Proposed Impact Areas

- Proposed Structure
- RO-L1 Proposed TSP
- Structure: Modify or Replace
- Structure: Remove
- Existing Guy Stub Pole: Remove

Potential Guard Structure Area

- Proposed Access Route
- Proposed Work Area
- Proposed Pull Site
- Proposed Fenceline
- Proposed Staging Area

Potentially Jurisdictional Aquatic Resources and Riparian Habitat

- Seasonal Wetland (SW) (0.2 ac)

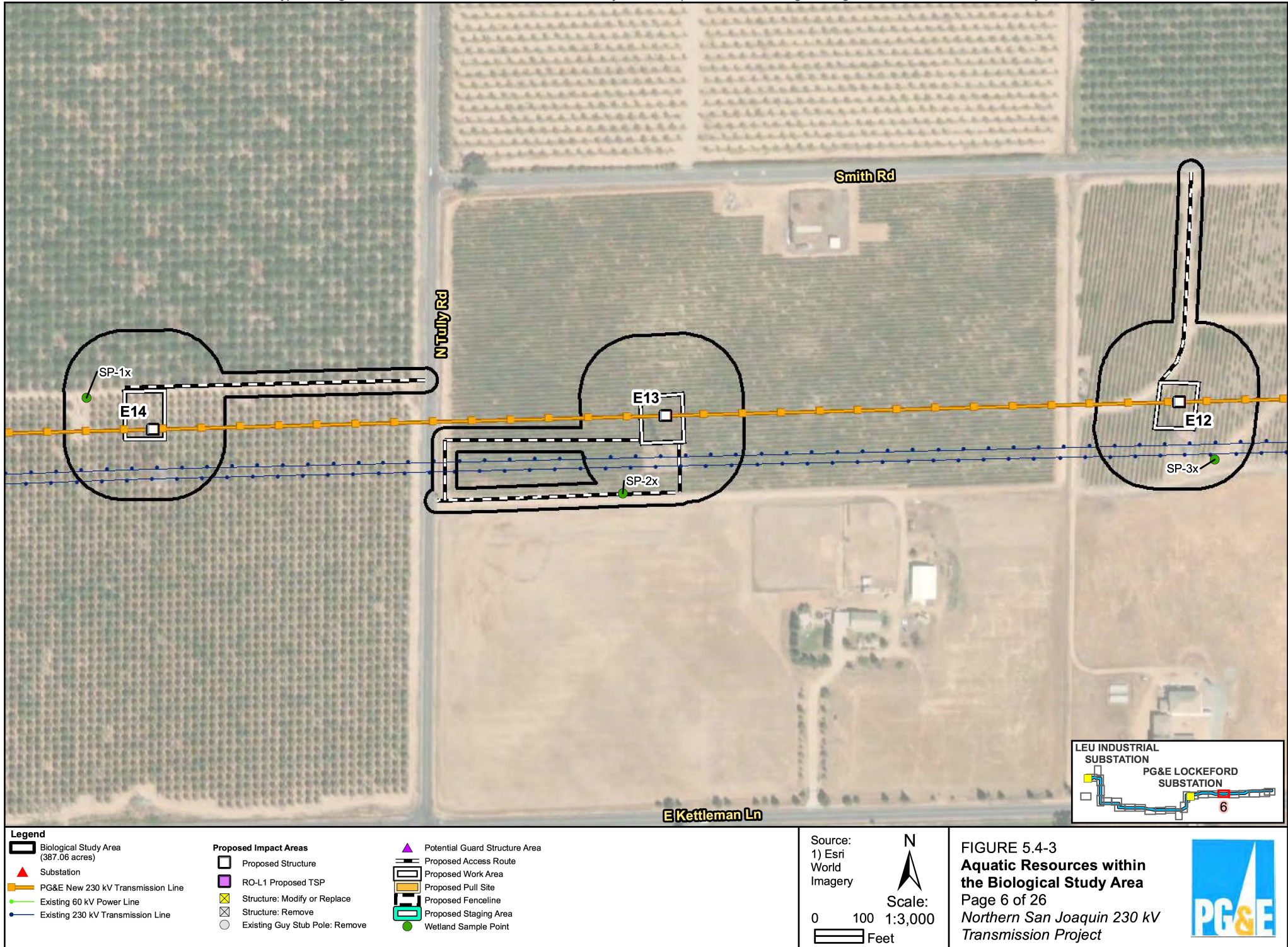
Source:
1) Esri
World
Imagery

Scale:
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Feet



FIGURE 5.4-3
Aquatic Resources within
the Biological Study Area
Page 5 of 26
Northern San Joaquin 230 kV
Transmission Project





Preliminary design and engineering for the physical, civil, and outdoor components.
Exact structure type, configuration, and dimensions will be determined by CPUC requirements, final engineering, and other factors and are likely to change.

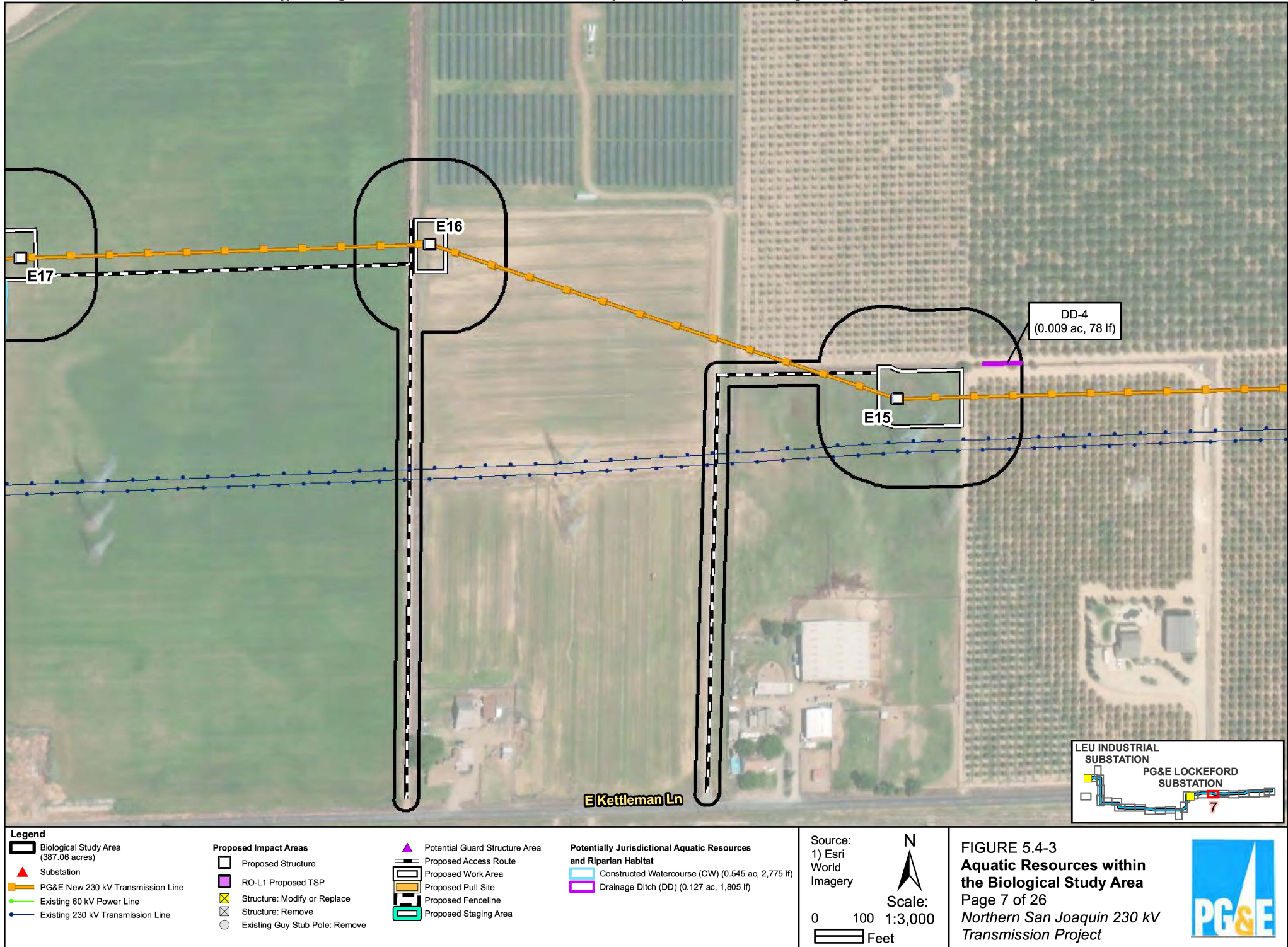


FIGURE 5.4-3
Aquatic Resources within the Biological Study Area
Page 7 of 26
Northern San Joaquin 230 kV Transmission Project



Preliminary design and engineering for the physical, civil, and outdoor components.
Exact structure type, configuration, and dimensions will be determined by CPUC requirements, final engineering, and other factors and are likely to change.

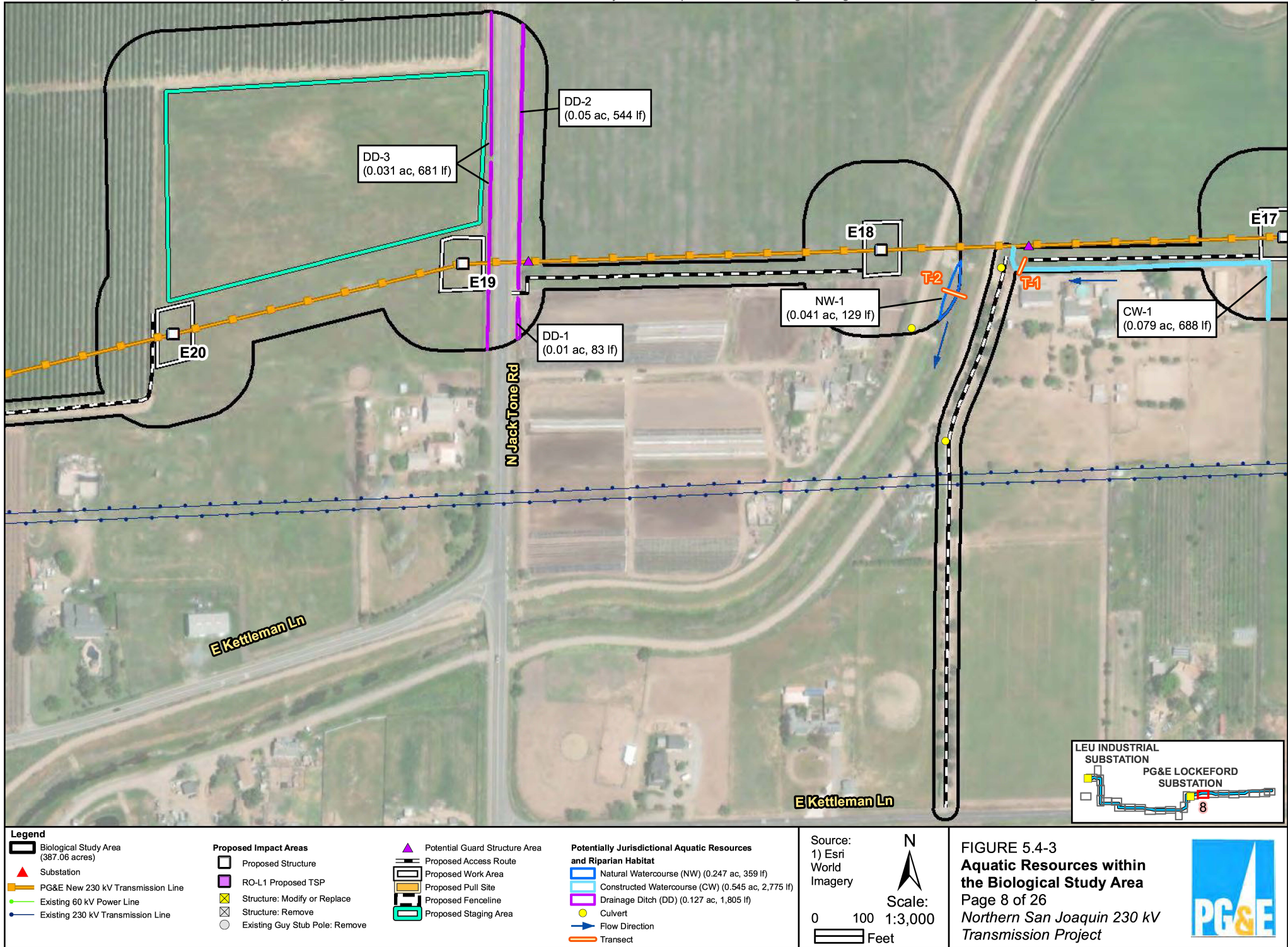
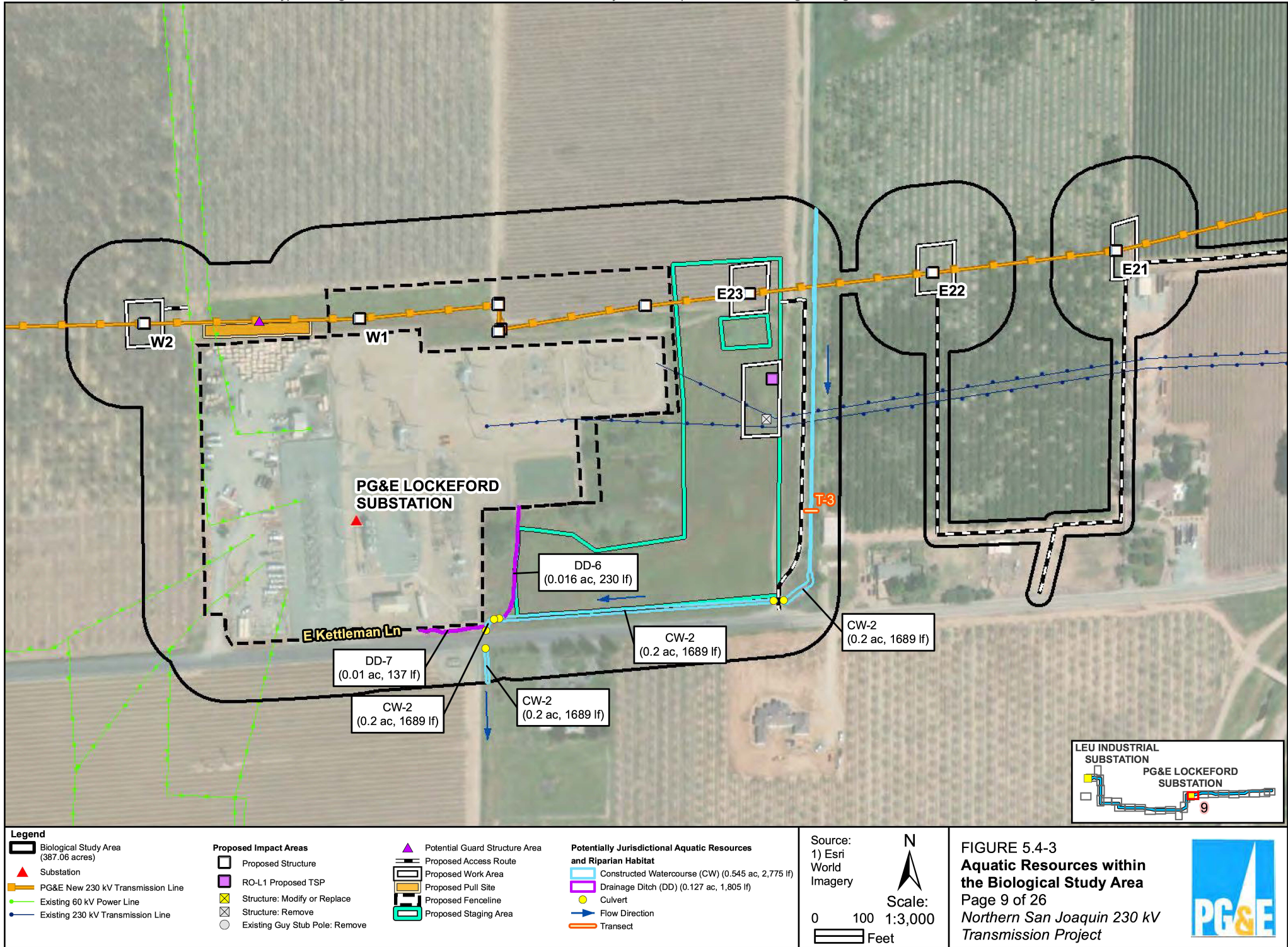
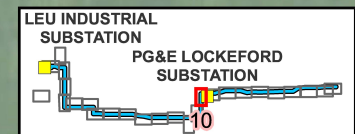
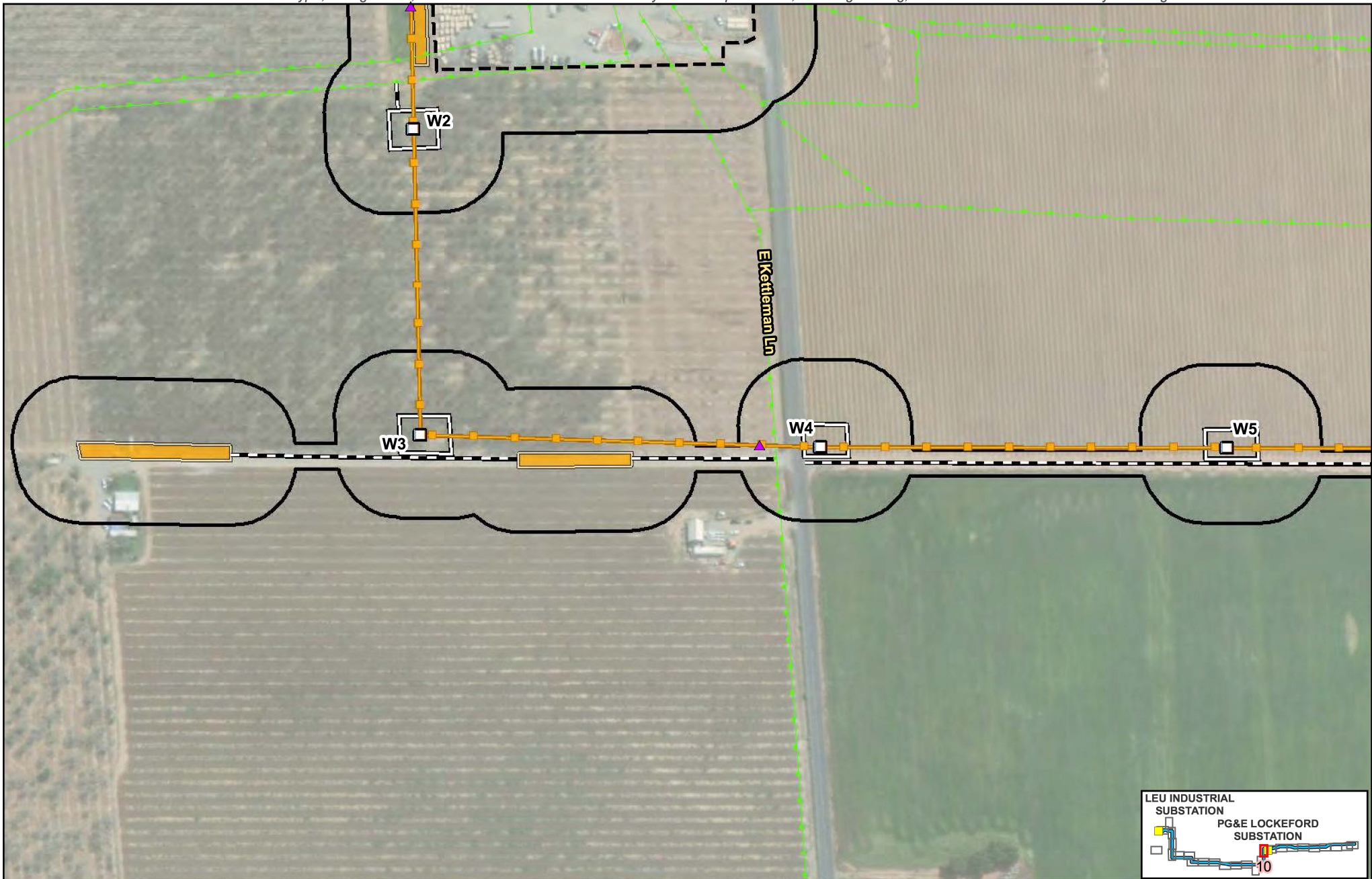


FIGURE 5.4-3
Aquatic Resources within the Biological Study Area
Page 8 of 26
Northern San Joaquin 230 kV Transmission Project





Preliminary design and engineering for the physical, civil, and outdoor components.
Exact structure type, configuration, and dimensions will be determined by CPUC requirements, final engineering, and other factors and are likely to change.



Legend

- Biological Study Area (387.06 acres)
- ▲ Substation
- PG&E New 230 kV Transmission Line
- Existing 60 kV Power Line
- Existing 230 kV Transmission Line

Proposed Impact Areas

- Proposed Structure
- RO-L1 Proposed TSP
- Structure: Modify or Replace
- Structure: Remove
- Existing Guy Stub Pole: Remove

- ▲ Potential Guard Structure Area
- Proposed Access Route
- Proposed Work Area
- Proposed Pull Site
- Proposed Fenceline
- Proposed Staging Area

Source:
1) Esri
World
Imagery

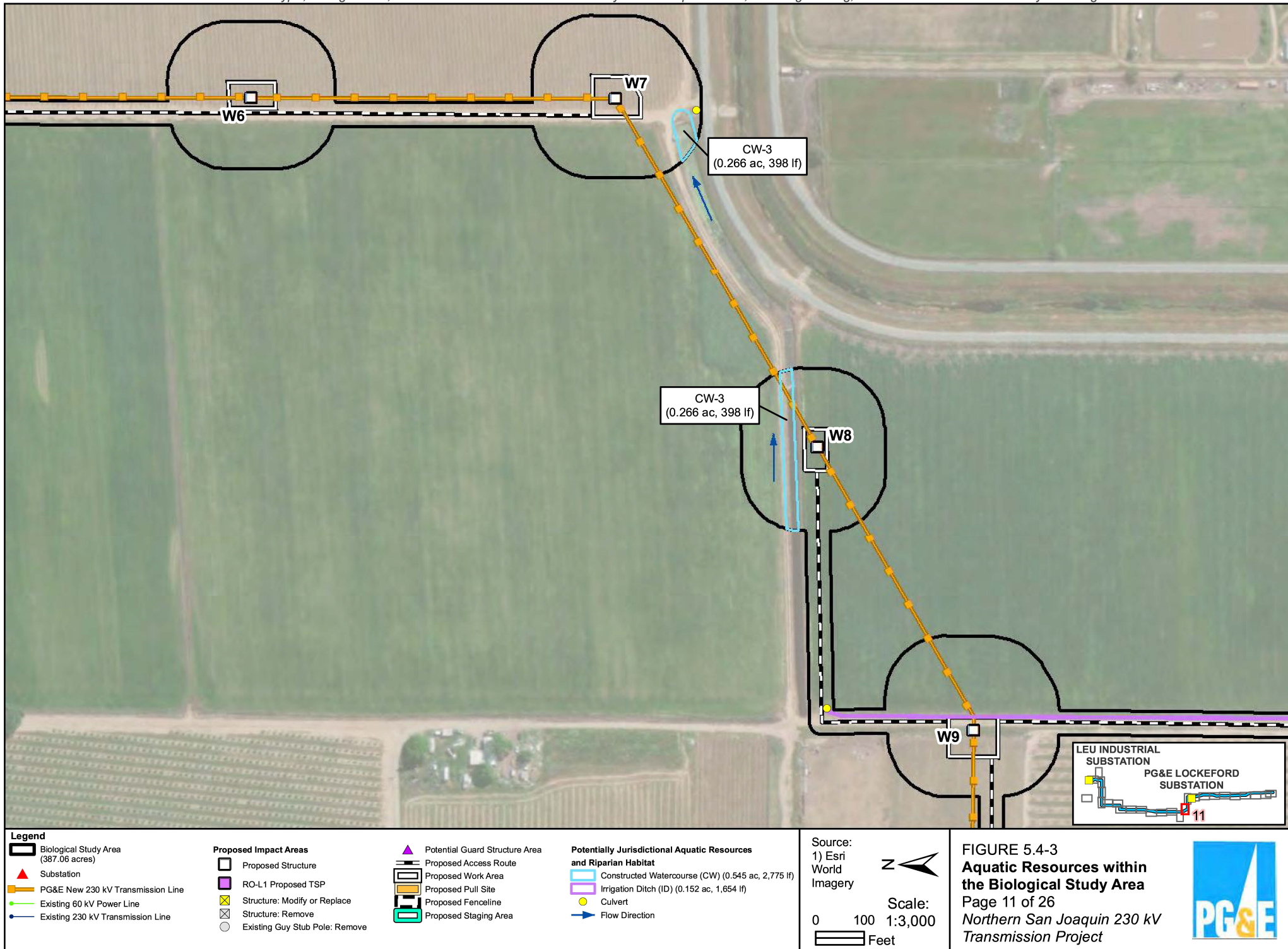


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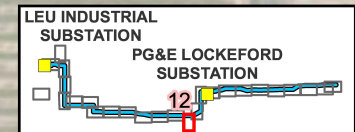
FIGURE 5.4-3
Aquatic Resources within
the Biological Study Area
Page 10 of 26
Northern San Joaquin 230 kV
Transmission Project



Preliminary design and engineering for the physical, civil, and outdoor components.
Exact structure type, configuration, and dimensions will be determined by CPUC requirements, final engineering, and other factors and are likely to change.



Preliminary design and engineering for the physical, civil, and outdoor components.
Exact structure type, configuration, and dimensions will be determined by CPUC requirements, final engineering, and other factors and are likely to change.



Legend

- Biological Study Area (387.06 acres)
- ▲ Substation
- PG&E New 230 kV Transmission Line
- Existing 60 kV Power Line
- Existing 230 kV Transmission Line

Proposed Impact Areas

- Proposed Structure
- RO-L1 Proposed TSP
- Structure: Modify or Replace
- Structure: Remove
- Existing Guy Stub Pole: Remove

Potential Guard Structure Area

- ▲ Potential Guard Structure Area
- Proposed Access Route
- Proposed Work Area
- Proposed Pull Site
- Proposed Fenceline
- Proposed Staging Area

Potentially Jurisdictional Aquatic Resources and Riparian Habitat

- Natural Watercourse (NW) (0.247 ac, 359 lf)
- Irrigation Ditch (ID) (0.152 ac, 1,654 lf)
- Flow Direction
- Transect

Source:
1) Esri
World
Imagery

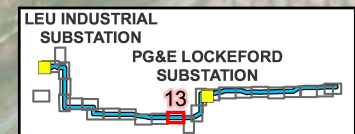
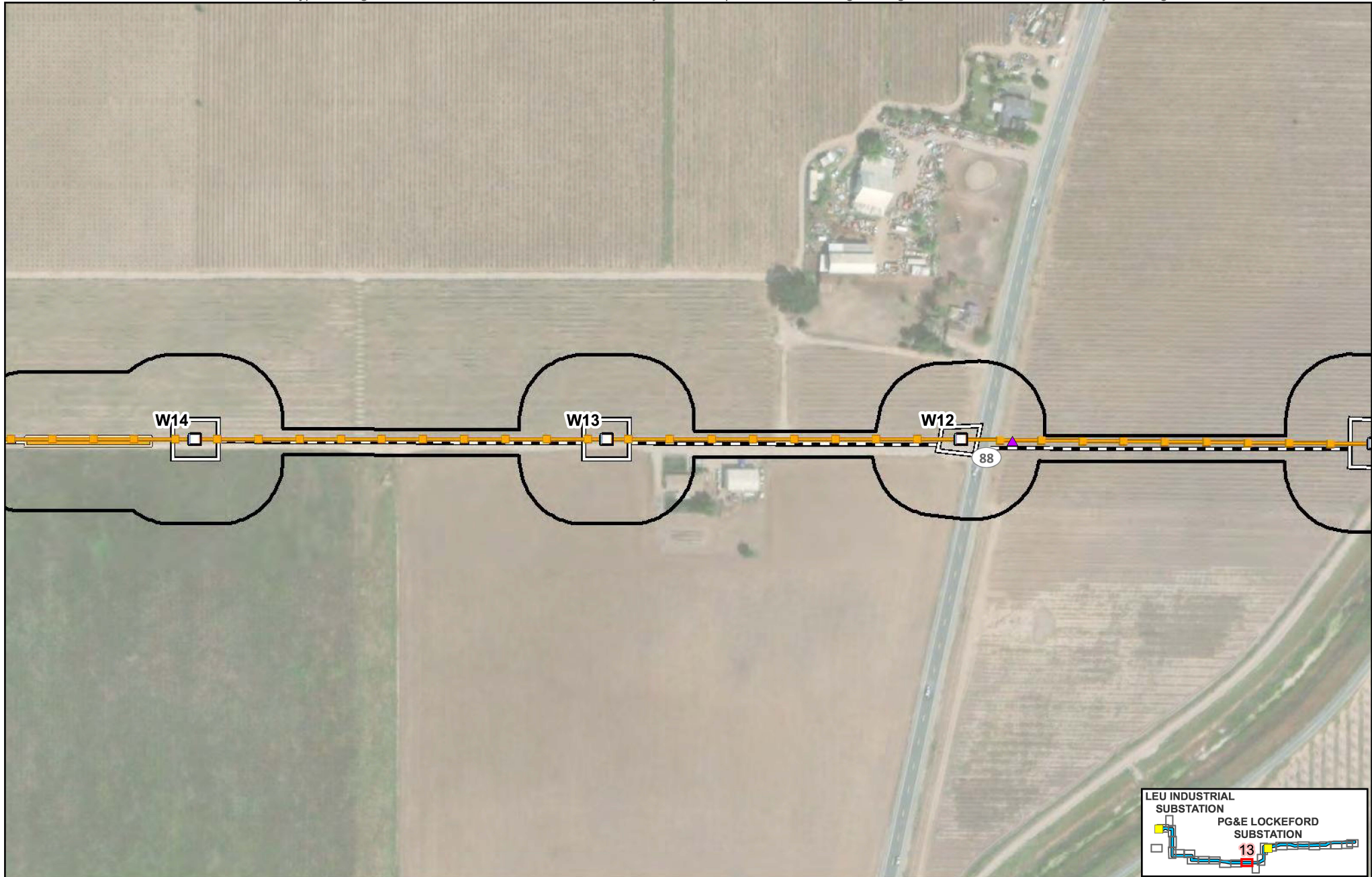


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FIGURE 5.4-3
Aquatic Resources within
the Biological Study Area
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Northern San Joaquin 230 kV
Transmission Project



Preliminary design and engineering for the physical, civil, and outdoor components.
Exact structure type, configuration, and dimensions will be determined by CPUC requirements, final engineering, and other factors and are likely to change.



Legend		
Biological Study Area (387.06 acres)	Proposed Structure	Potential Guard Structure Area
Substation	RO-L1 Proposed TSP	Proposed Access Route
PG&E New 230 kV Transmission Line	Structure: Modify or Replace	Proposed Work Area
Existing 60 kV Power Line	Structure: Remove	Proposed Pull Site
Existing 230 kV Transmission Line	Existing Guy Stub Pole: Remove	Proposed Fenceline
		Proposed Staging Area

Source:
1) Esri
World
Imagery

N

Scale:
0 100 1:3,000
Feet

FIGURE 5.4-3
Aquatic Resources within
the Biological Study Area
Page 13 of 26
Northern San Joaquin 230 kV
Transmission Project



Preliminary design and engineering for the physical, civil, and outdoor components.
Exact structure type, configuration, and dimensions will be determined by CPUC requirements, final engineering, and other factors and are likely to change.

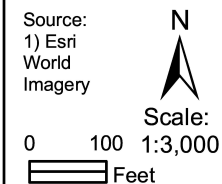
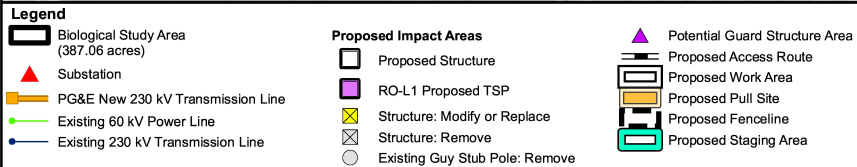
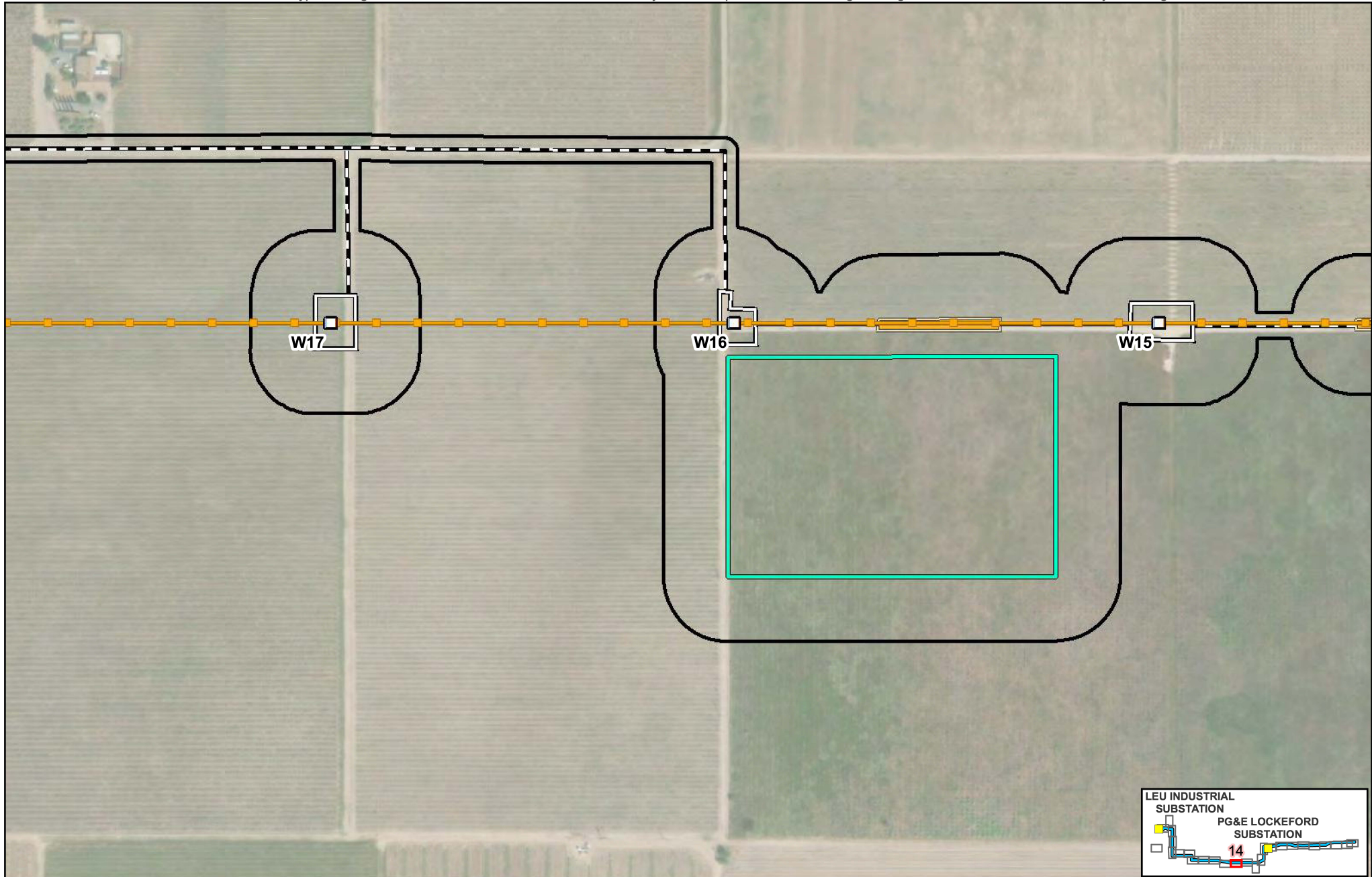
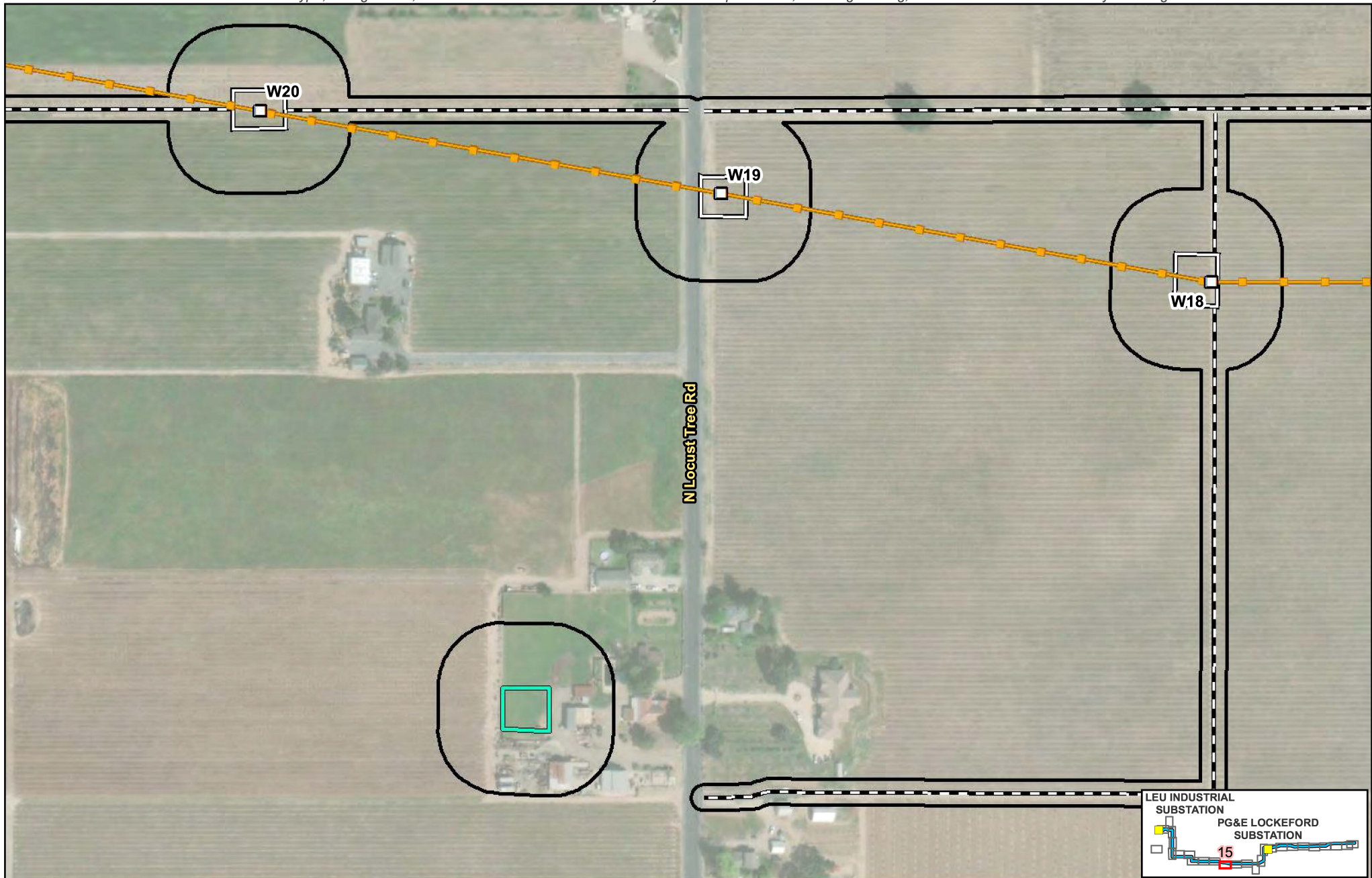


FIGURE 5.4-3
Aquatic Resources within
the Biological Study Area
Page 14 of 26
Northern San Joaquin 230 kV
Transmission Project



Preliminary design and engineering for the physical, civil, and outdoor components.
Exact structure type, configuration, and dimensions will be determined by CPUC requirements, final engineering, and other factors and are likely to change.



Legend

- Biological Study Area (387.06 acres)
- ▲ Substation
- PG&E New 230 kV Transmission Line
- Existing 60 kV Power Line
- Existing 230 kV Transmission Line

Proposed Impact Areas

- Proposed Structure
- RO-L1 Proposed TSP
- Structure: Modify or Replace
- Structure: Remove
- Existing Guy Stub Pole: Remove

Potential Guard Structure Area

- Proposed Access Route
- Proposed Work Area
- Proposed Pull Site
- Proposed Fenceline
- Proposed Staging Area

Source:
1) Esri
World
Imagery

Scale:
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Feet

FIGURE 5.4-3
Aquatic Resources within
the Biological Study Area
Page 15 of 26
Northern San Joaquin 230 kV
Transmission Project



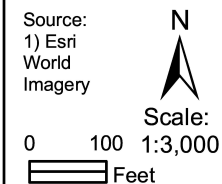
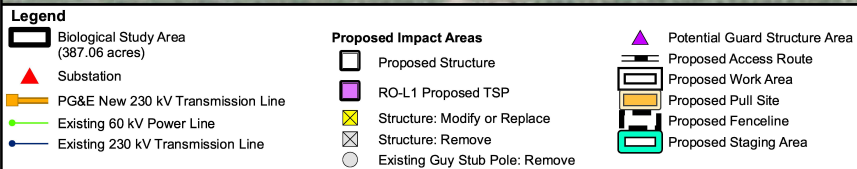
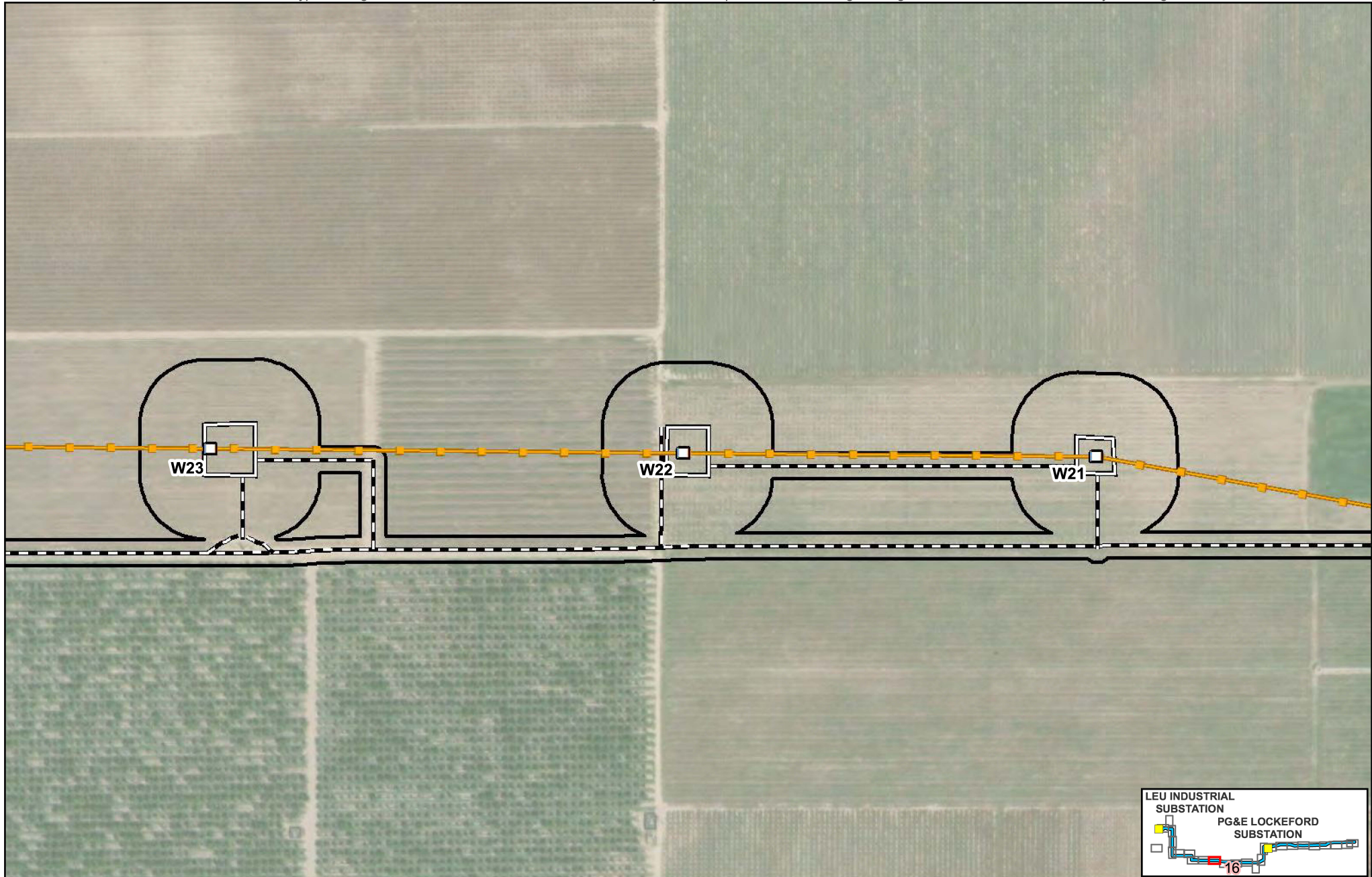
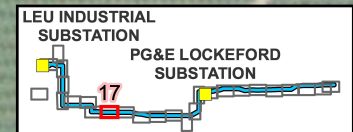
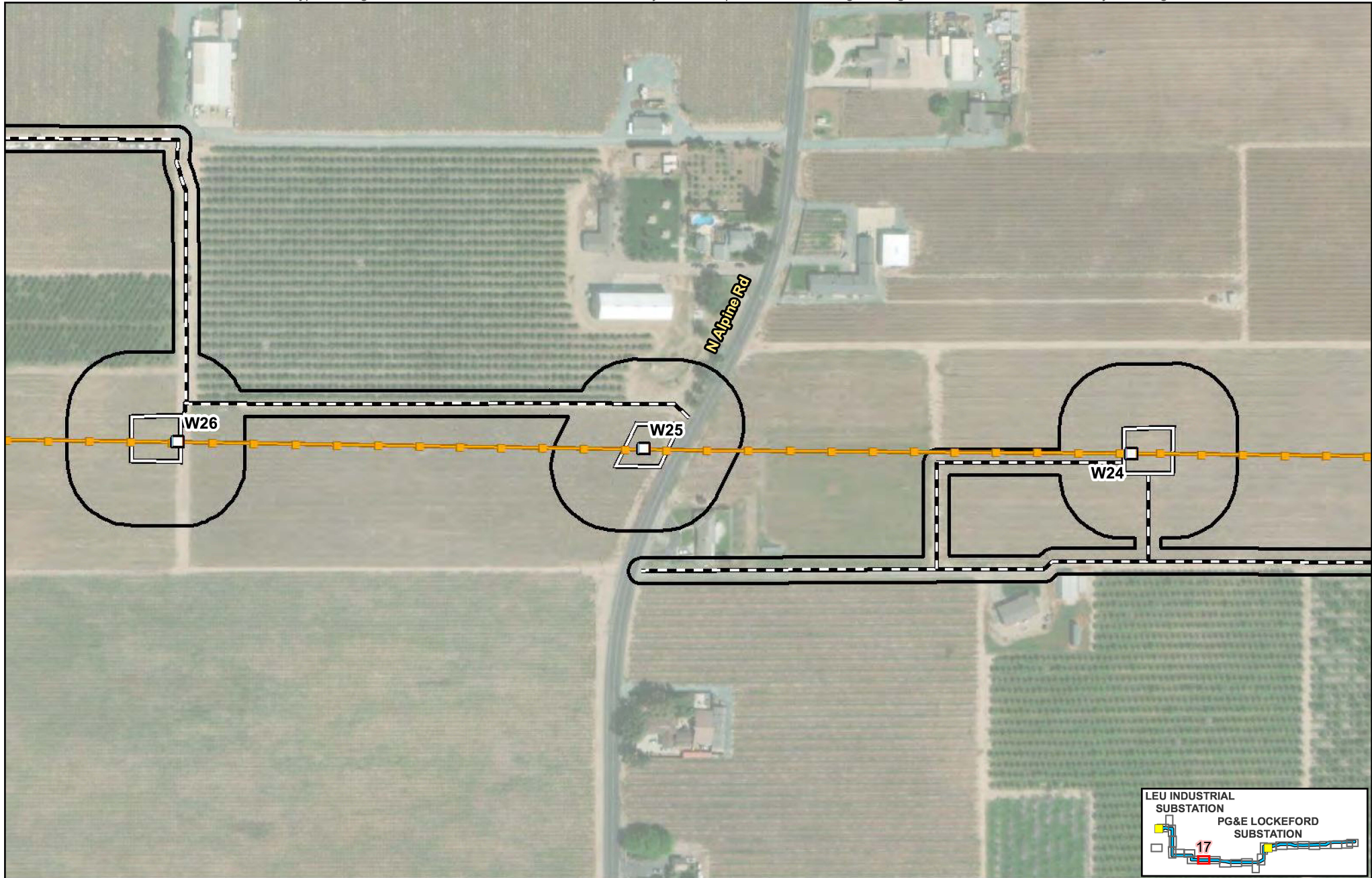


FIGURE 5.4-3
Aquatic Resources within
the Biological Study Area
Page 16 of 26
Northern San Joaquin 230 kV
Transmission Project



Preliminary design and engineering for the physical, civil, and outdoor components.
Exact structure type, configuration, and dimensions will be determined by CPUC requirements, final engineering, and other factors and are likely to change.



- | | | |
|--|---|--|
| Legend
Biological Study Area (387.06 acres)
Substation
PG&E New 230 kV Transmission Line
Existing 60 kV Power Line
Existing 230 kV Transmission Line | Proposed Impact Areas
Proposed Structure
RO-L1 Proposed TSP
Structure: Modify or Replace
Structure: Remove
Existing Guy Stub Pole: Remove | Potential Guard Structure Area
Proposed Access Route
Proposed Work Area
Proposed Pull Site
Proposed Fenceline
Proposed Staging Area |
|--|---|--|

Source:
1) Esri
World
Imagery

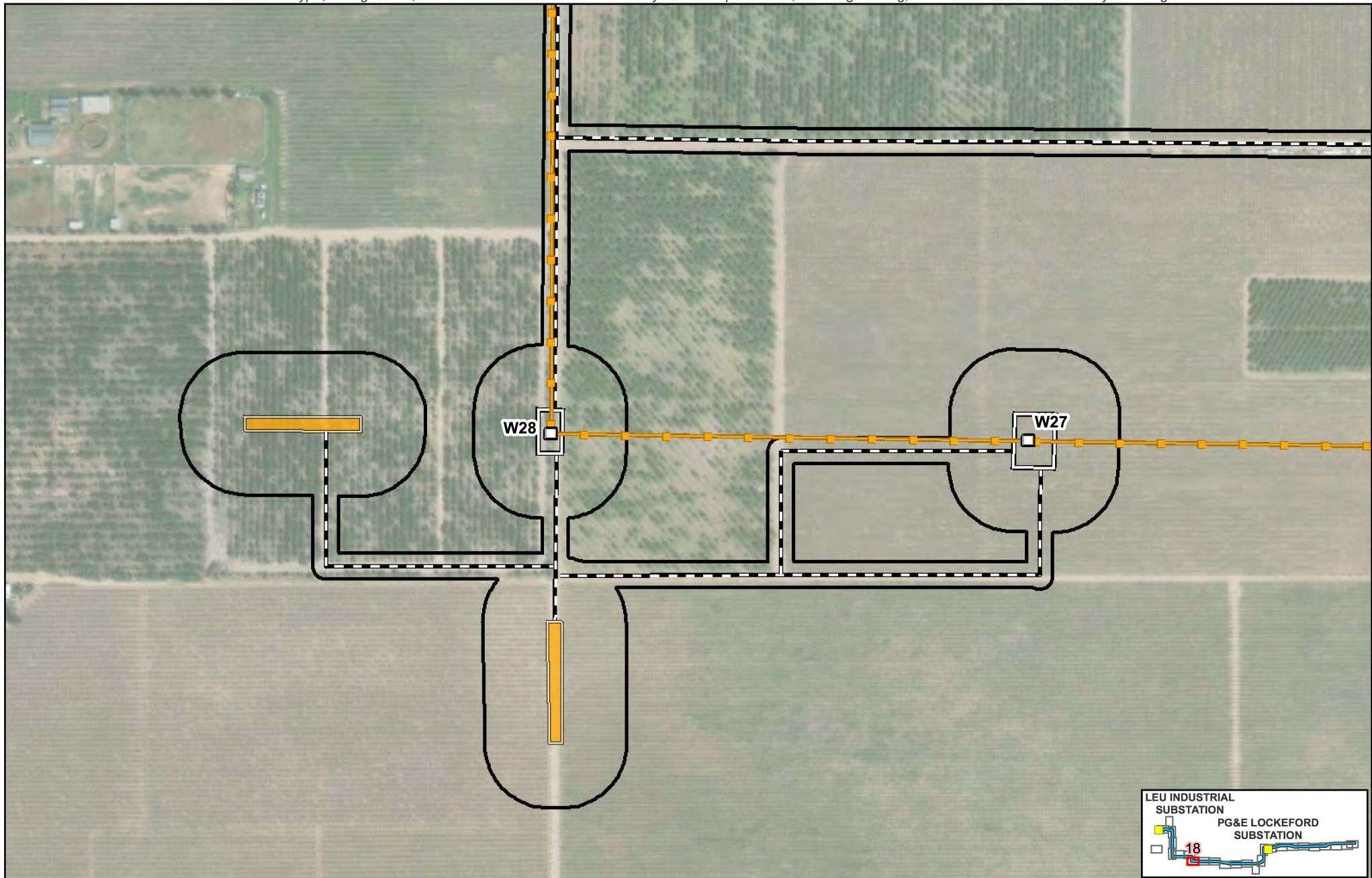
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FIGURE 5.4-3
Aquatic Resources within
the Biological Study Area
Page 17 of 26
Northern San Joaquin 230 kV
Transmission Project



Preliminary design and engineering for the physical, civil, and outdoor components.
Exact structure type, configuration, and dimensions will be determined by CPUC requirements, final engineering, and other factors and are likely to change.



Legend

- Biological Study Area (387.06 acres)
- ▲ Substation
- PG&E New 230 kV Transmission Line
- Existing 60 kV Power Line
- Existing 230 kV Transmission Line

Proposed Impact Areas

- Proposed Structure
- RO-L1 Proposed TSP
- Structure: Modify or Replace
- Structure: Remove
- Existing Guy Stub Pole: Remove

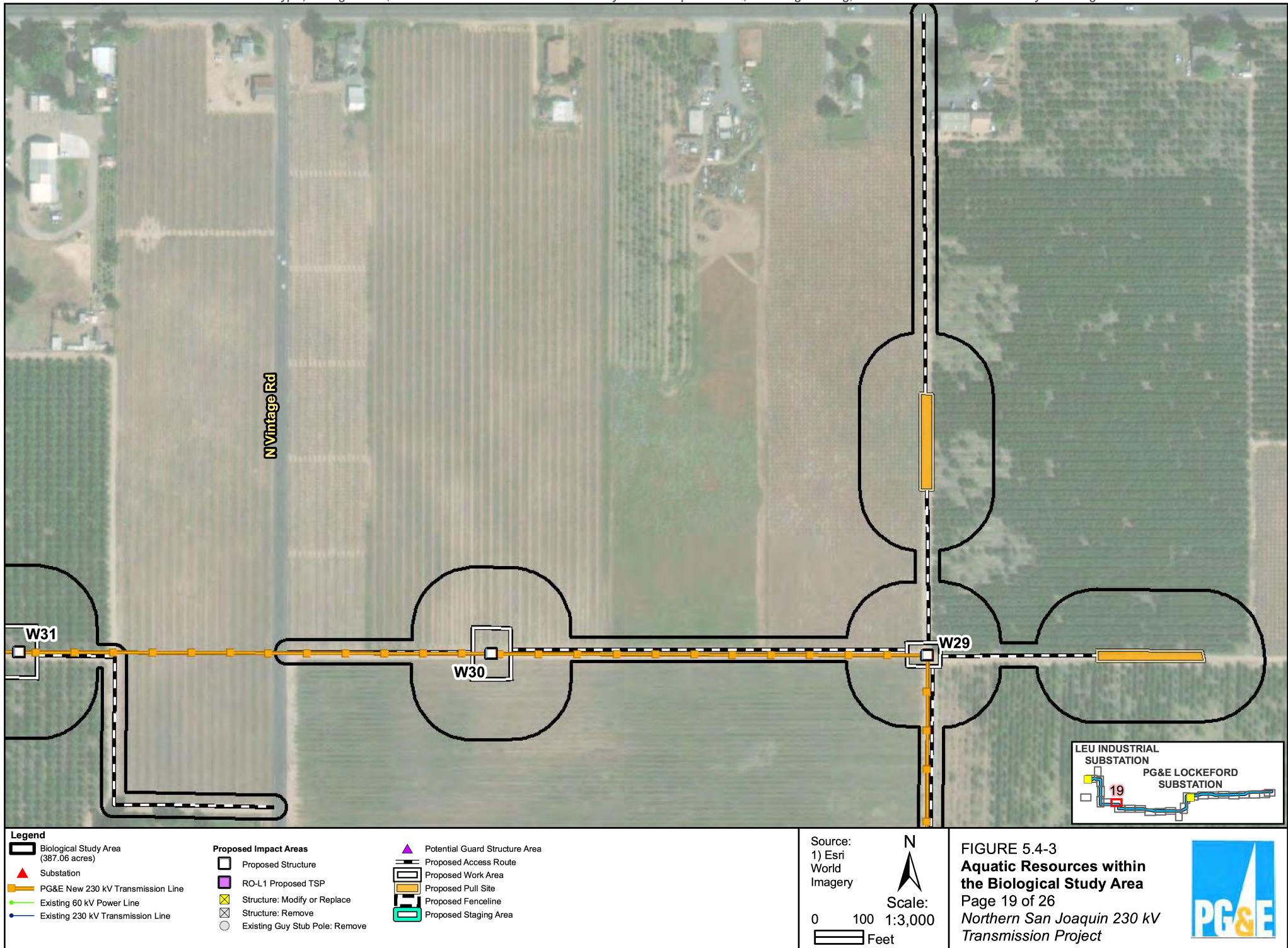
- ▲ Potential Guard Structure Area
- Proposed Access Route
- Proposed Work Area
- Proposed Pull Site
- Proposed Fenceline
- Proposed Staging Area

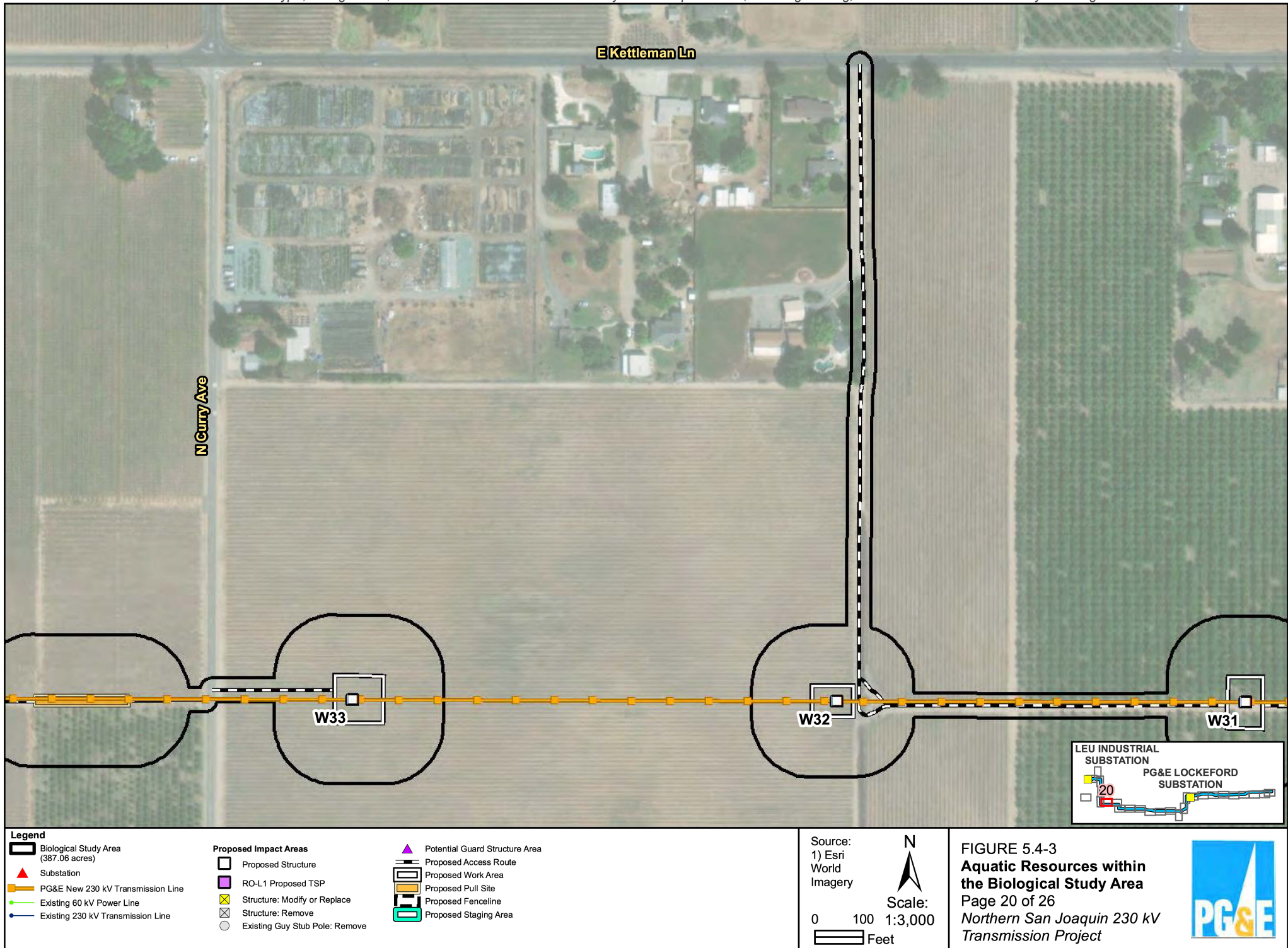
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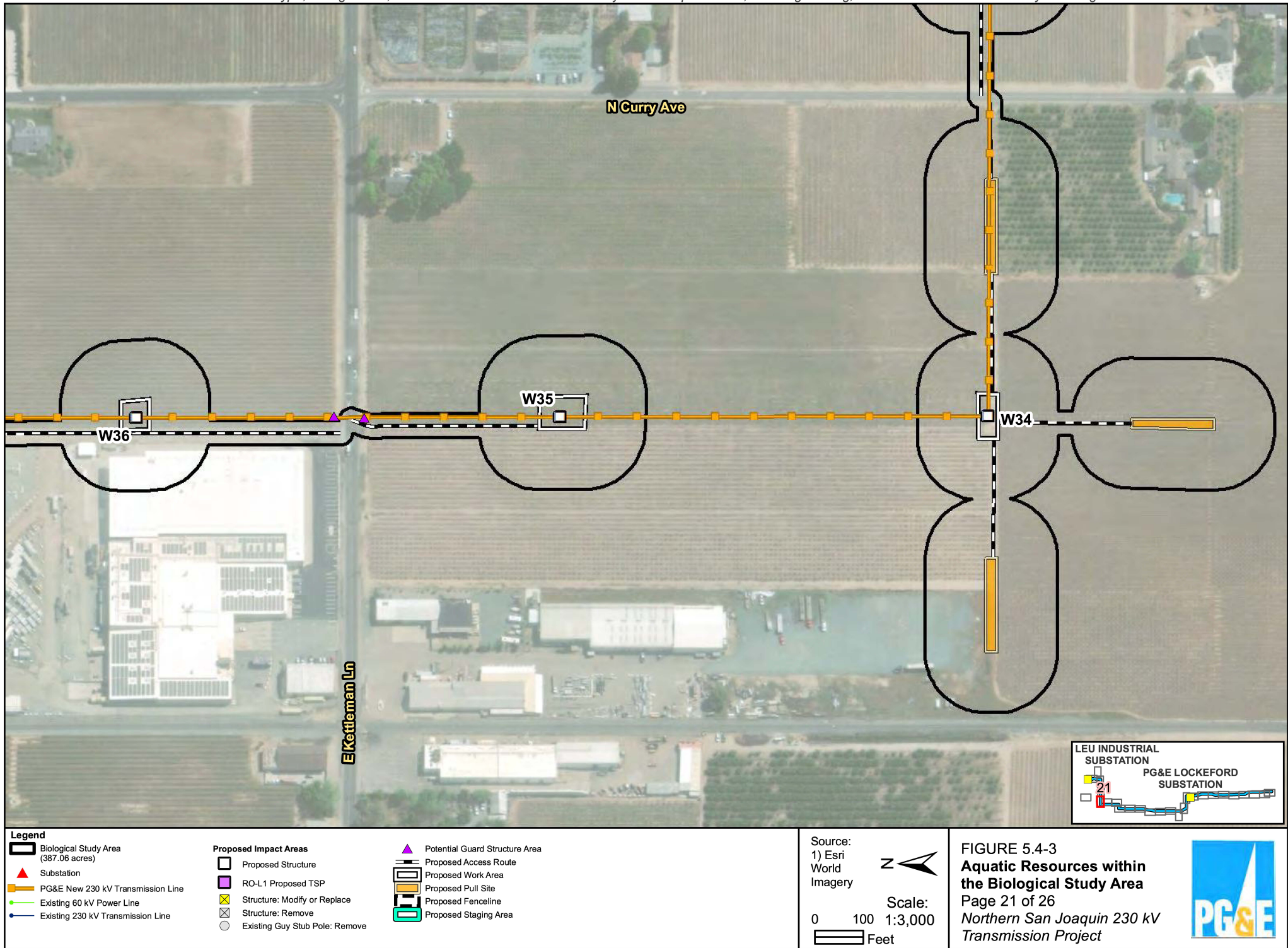
FIGURE 5.4-3
Aquatic Resources within
the Biological Study Area
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Northern San Joaquin 230 kV
Transmission Project

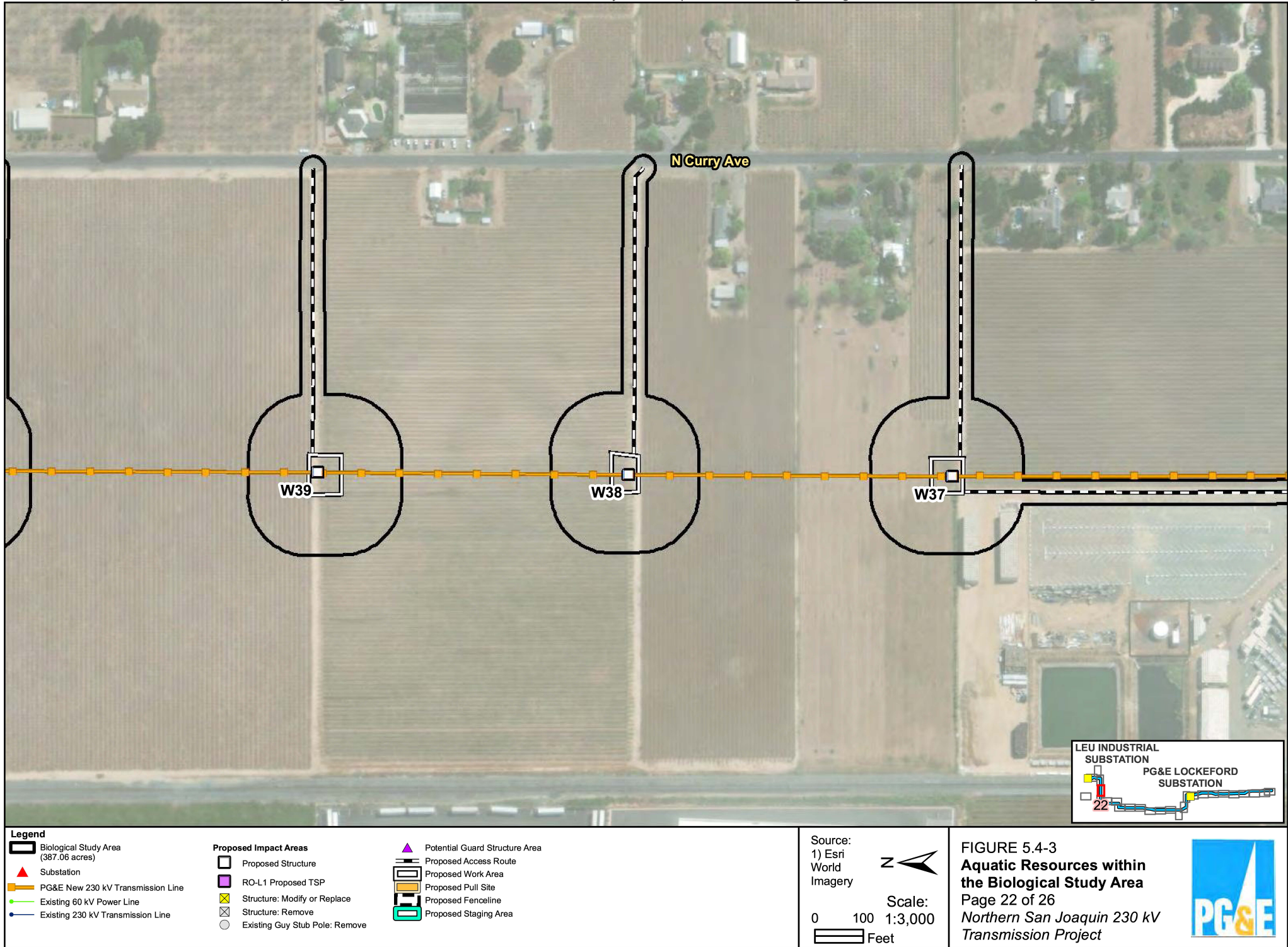




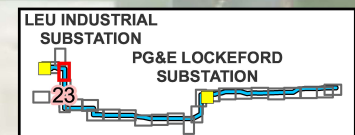
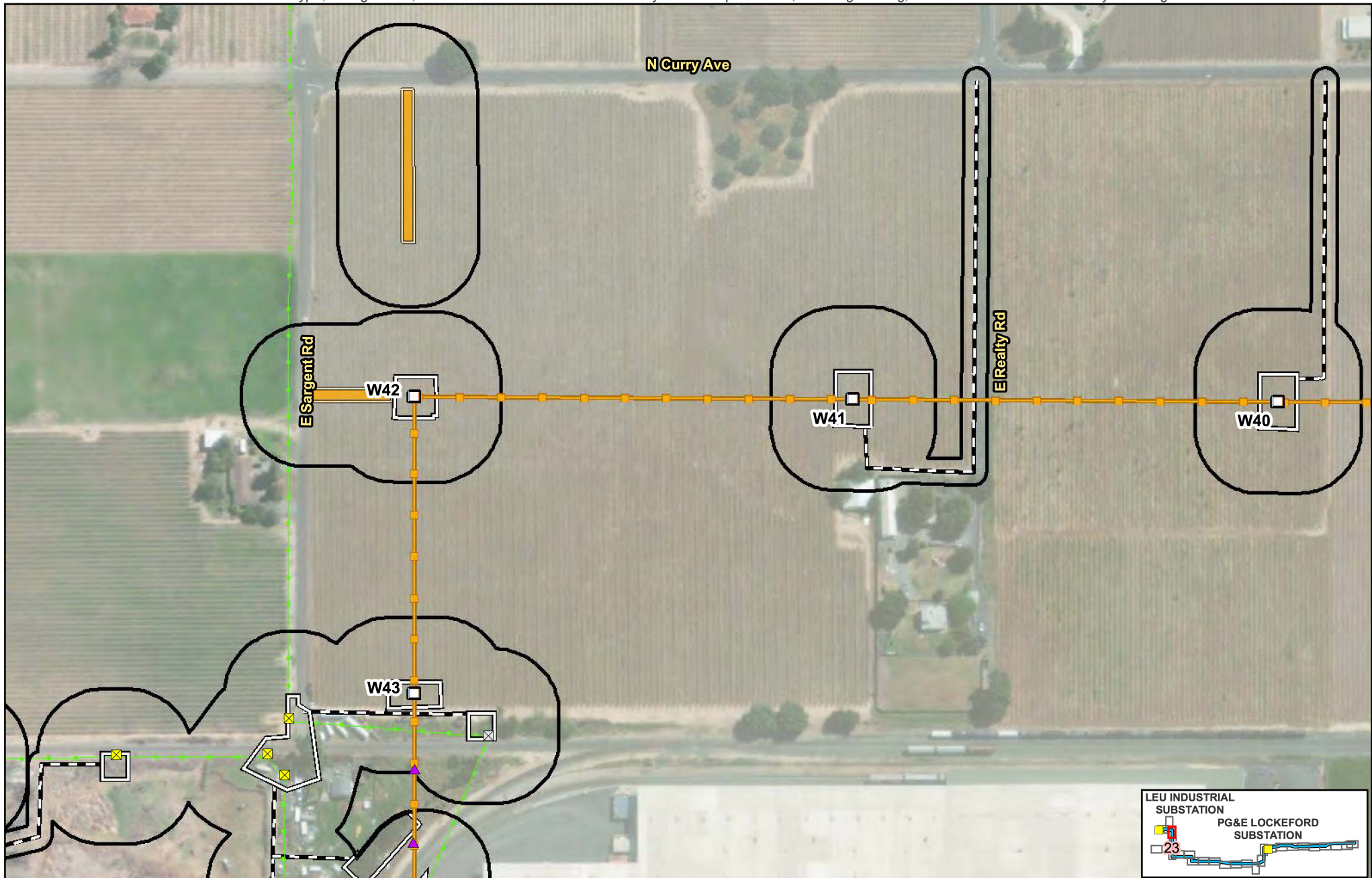


Preliminary design and engineering for the physical, civil, and outdoor components.
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Preliminary design and engineering for the physical, civil, and outdoor components.
Exact structure type, configuration, and dimensions will be determined by CPUC requirements, final engineering, and other factors and are likely to change.



- Legend**
- Biological Study Area (387.06 acres)
 - ▲ Substation
 - PG&E New 230 kV Transmission Line
 - Existing 60 kV Power Line
 - Existing 230 kV Transmission Line
 - Proposed Impact Areas
 - Proposed Structure
 - RO-L1 Proposed TSP
 - Structure: Modify or Replace
 - Structure: Remove
 - Existing Guy Stub Pole: Remove
 - ▲ Potential Guard Structure Area
 - Proposed Access Route
 - Proposed Work Area
 - Proposed Pull Site
 - Proposed Fenceline
 - Proposed Staging Area

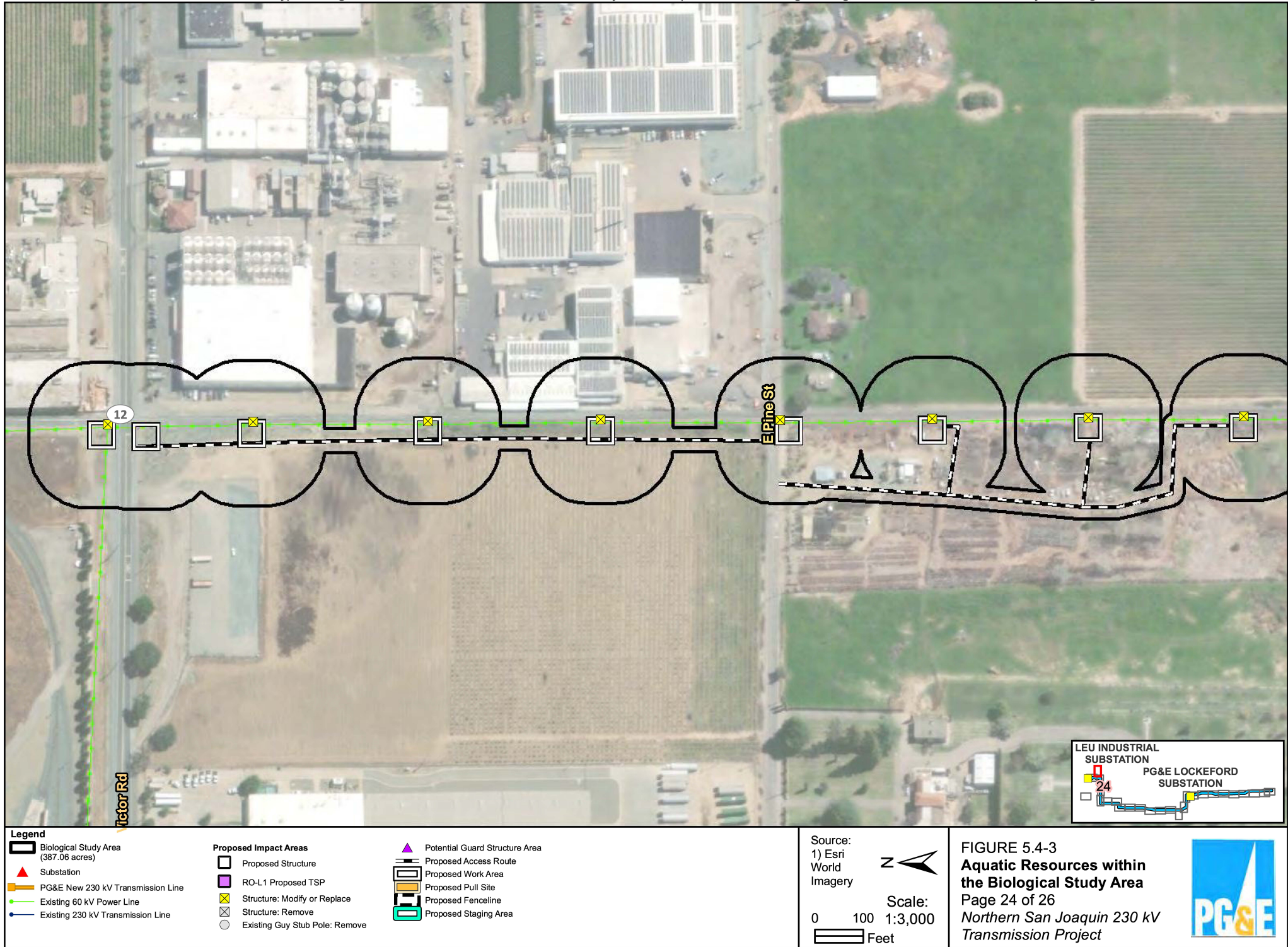
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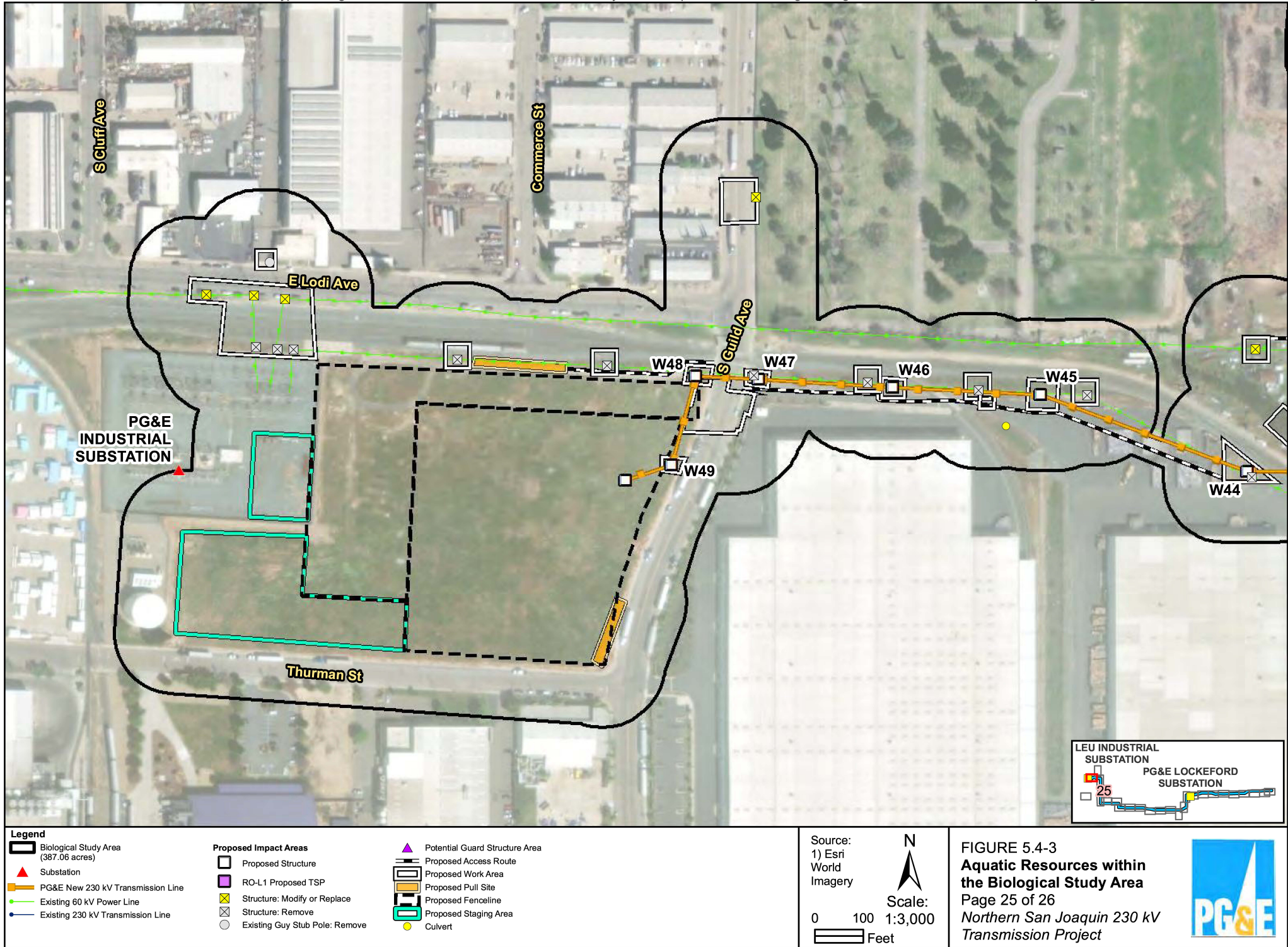


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FIGURE 5.4-3
Aquatic Resources within
the Biological Study Area
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Northern San Joaquin 230 kV
Transmission Project







Preliminary design and engineering for the physical, civil, and outdoor components.
Exact structure type, configuration, and dimensions will be determined by CPUC requirements, final engineering, and other factors and are likely to change.

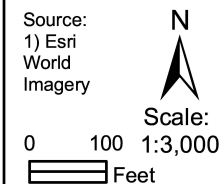
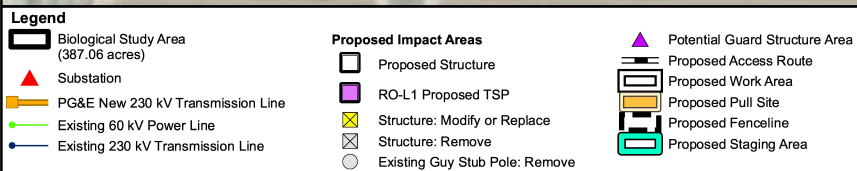
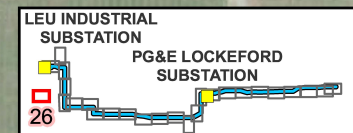
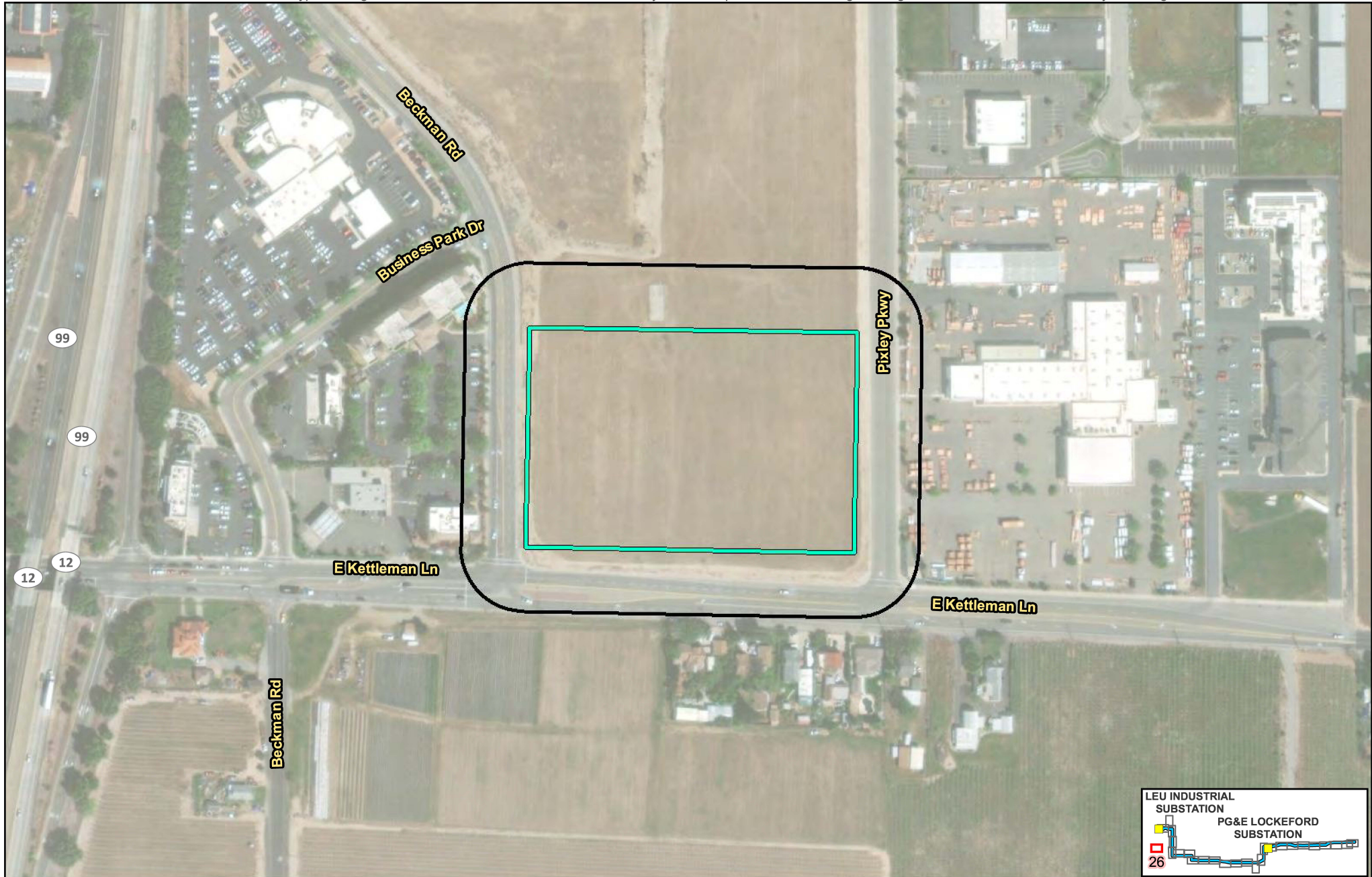


FIGURE 5.4-3
Aquatic Resources within
the Biological Study Area
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Northern San Joaquin 230 kV
Transmission Project

