

Biological Resources Assessment

Appendix F, Figure 6 - Impacts by Habitat

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		Area (acre)		
Layer	Subset	Tulare - Permanent	Kern - Permanent	Permanent Impacts
Project Area	N/A	481.68	46.67	528.35
Habitat	N/A	481.68	46.67	528.35
	Agriculture - Fallow (af)	14.78	0.00	14.78
	Agriculture - Field Crop (afc)	20.30	0.00	20.30
	Agriculture - Orchard (ao)	123.64	0.00	123.64
	Agriculture - Vineyard (av)	50.54	0.01	50.55
	Allscale Scrub (as)	1.39	0.00	1.39
	Barren/Ruderal (br)	0.00	0.00	0.00
	California Buckwheat Scrub (cbs)	7.02	0.00	7.02
	Fremont Cottonwood Forest (fcf)	0.90	0.00	0.90
	Mulefat Thickets (mt)	1.01	0.00	1.01
	Non-Native Annual Grassland (nag)	0.00	0.00	0.00
	Red Willow Thickets (rwt)	0.00	0.00	0.00
	Shining Willow Groves (swg)	0.58	0.00	0.58
	Smartweed - Cocklebur Patches (scp)	0.00	0.00	0.00
	Urban (u)	6.27	0.49	6.76
	Valley Oak Woodland (vow)	0.00	0.00	0.00
	Water (w)	255.25	46.17	301.42

		Area (acre)		
Layer	Subset	Tulare - Temporary	Kern - Temporary	Temporary Impacts
Project Area	N/A	1,298.76	90.86	1,389.62
Habitat	N/A	1,298.76	90.86	1,389.62
	Agriculture - Fallow (af)	307.73	0.00	307.73
	Agriculture - Field Crop (afc)	165.95	0.00	165.95
	Agriculture - Orchard (ao)	145.32	0.00	145.32
	Agriculture - Vineyard (av)	15.15	7.97	23.12
	Allscale Scrub (as)	0.00	0.00	0.00
	Barren/Ruderal (br)	418.04	71.42	489.46
	California Buckwheat Scrub (cbs)	0.27	0.00	0.27
	Fremont Cottonwood Forest (fcf)	0.87	0.00	0.87
	Mulefat Thickets (mt)	0.47	0.00	0.47
	Non-Native Annual Grassland (nag)	215.28	10.48	225.76
	Red Willow Thickets (rwt)	0.00	0.00	0.00
	Shining Willow Groves (swg)	0.00	0.00	0.00
	Smartweed - Cocklebur Patches (scp)	0.00	0.00	0.00
	Urban (u)	26.95	0.99	27.94
	Valley Oak Woodland (vow)	0.00	0.00	0.00
	Water (w)	2.73	0.00	2.73

		Area (acre)		
Layer	Subset	Total Area	Tulare	Kern
Project Area	N/A	2,317.15	2,179.62	137.53
Habitat	N/A	2,317.15	2,179.62	137.53
	Agriculture - Fallow (af)	324.78	324.78	0.00
	Agriculture - Field Crop (afc)	187.68	187.68	0.00
	Agriculture - Orchard (ao)	281.40	281.40	0.00
	Agriculture - Vineyard (av)	86.16	78.18	7.98
	Allscale Scrub (as)	1.39	1.39	0.00
	Barren/Ruderal (br)	826.36	754.94	71.42
	California Buckwheat Scrub (cbs)	7.55	7.55	0.00
	Fremont Cottonwood Forest (fcf)	1.77	1.77	0.00
	Mulefat Thickets (mt)	1.48	1.48	0.00
	Non-Native Annual Grassland (nag)	231.33	220.85	10.48
	Red Willow Thickets (rwt)	0.13	0.13	0.00
	Shining Willow Groves (swg)	0.58	0.58	0.00
	Smartweed - Cocklebur Patches (scp)	0.57	0.57	0.00
	Urban (u)	52.23	50.75	1.48
	Valley Oak Woodland (vow)	1.07	1.07	0.00
	Water (w)	312.67	266.50	46.17

FRIANT-KERN CANAL MIDDLE REACH CAPACITY CORRECTION PROJECT

Canal Enlargement Alternative

Impacts Table - Accompany Mapbook

Figure No. 6: Impacts

Date: Mar 04, 2020

Title

Impacts by Habitat

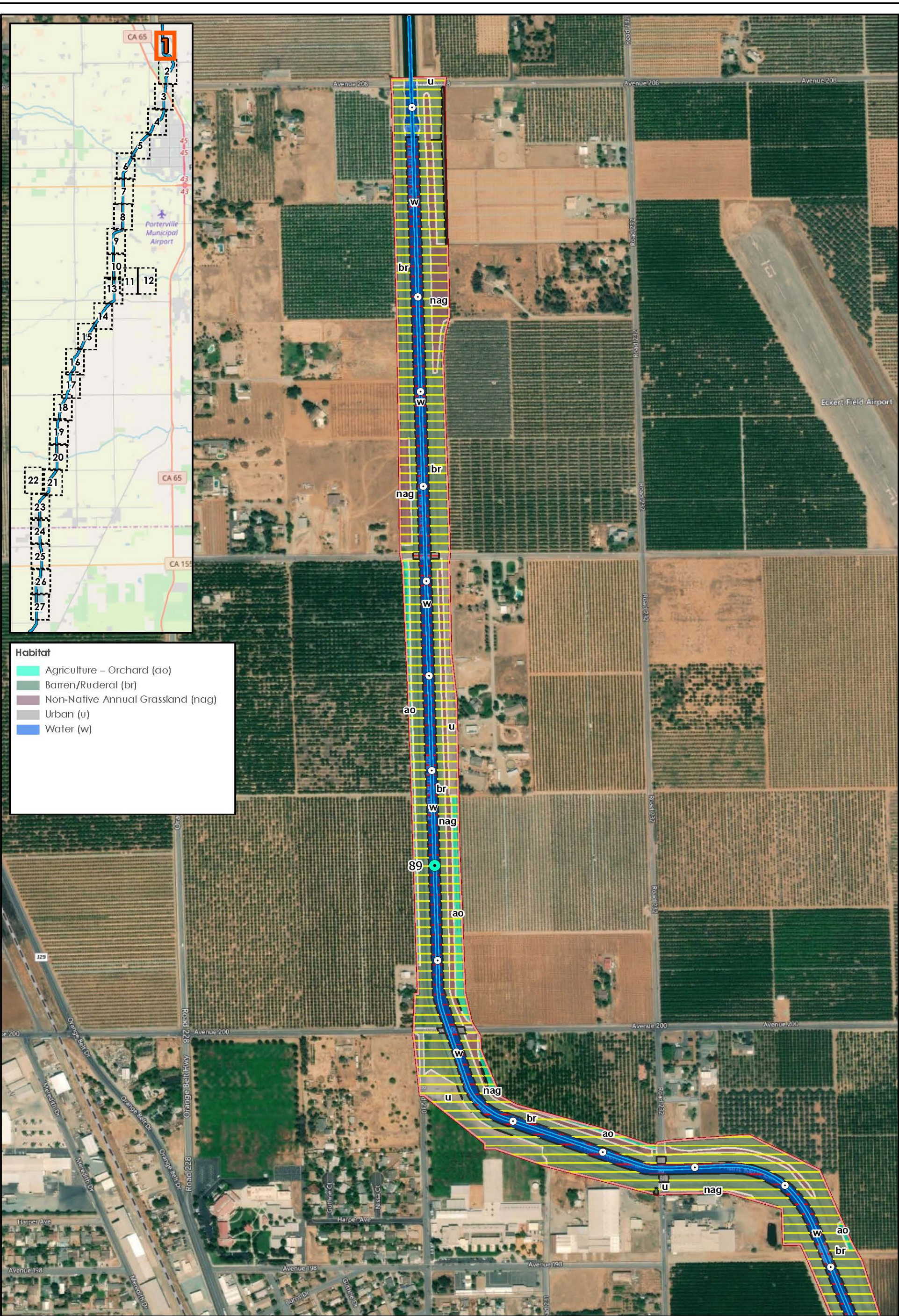
Project Location
Tulare and Kern Counties, CA
7.5' USGS Quadrangles
Porterville, California (1971)
Sausalito School, California (1971)
Ducor, California (1972)

184031016
Prepared by SCP
(2020-03-04)

Client/Project
Friant Water Authority
Friant-Kern Canal Middle Reach Capacity Correction Project



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FRIANT-KERN CANAL MIDDLE REACH CAPACITY CORRECTION PROJECT
Canal Enlargement Alternative

- Project Area**
- Project Area
- Potential Impacts**
- No Impact
 - Permanent
 - Temporary
- Proposed Canal Enlargement Centerline**
- Proposed Canal Enlargement Centerline
- Mile Post**
- Mile Post
- Tenth-of-Mile**
- Tenth-of-Mile

Figure No.
6A

Date:
Mar 04, 2020

Title
Impacts by Habitat

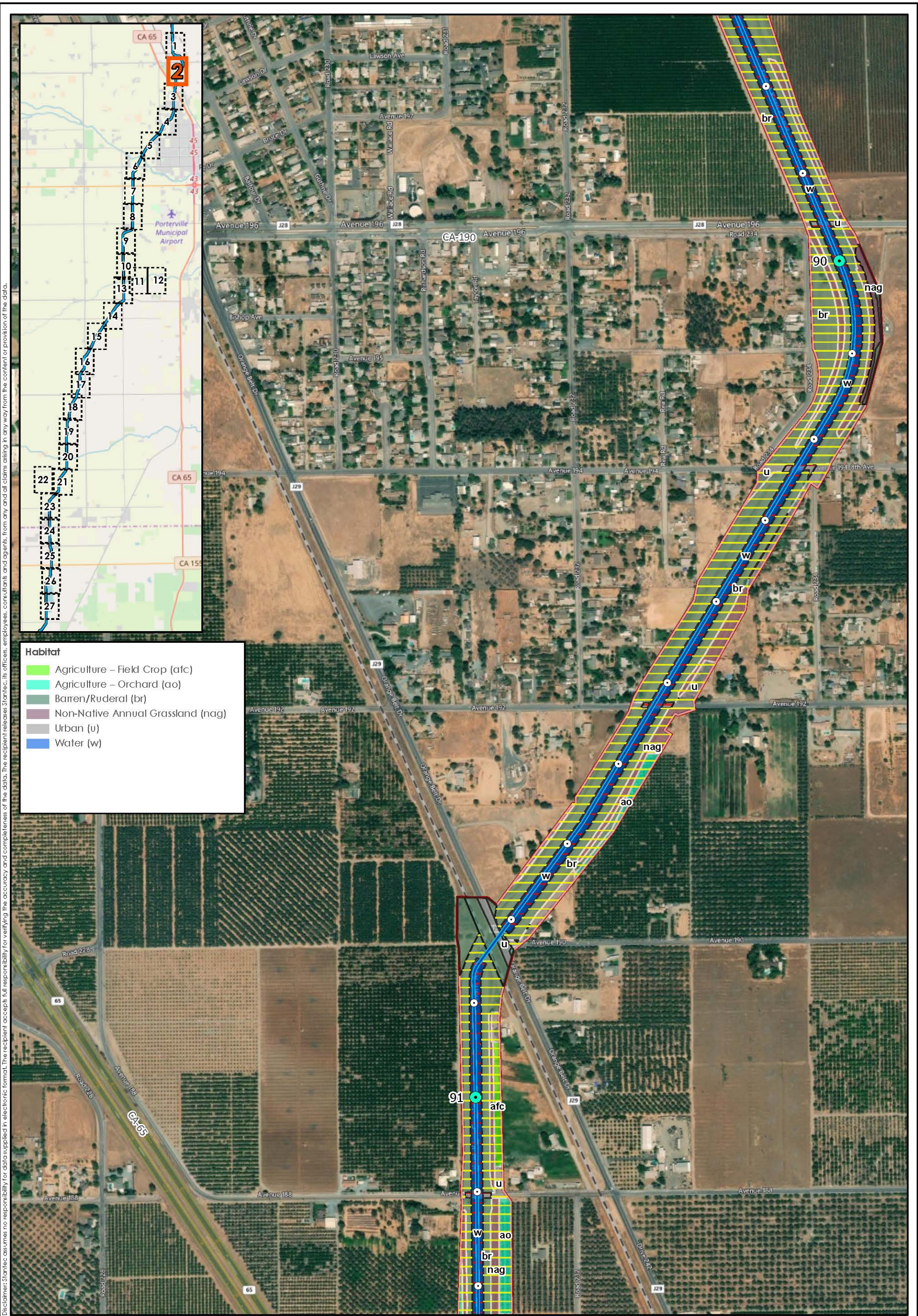
Project Location
Tulare and Kern Counties, CA
7.5' USGS Quadrangles
Porterville, California (1971)
Sausalito School, California (1971)
Ducor, California (1972)

184031016
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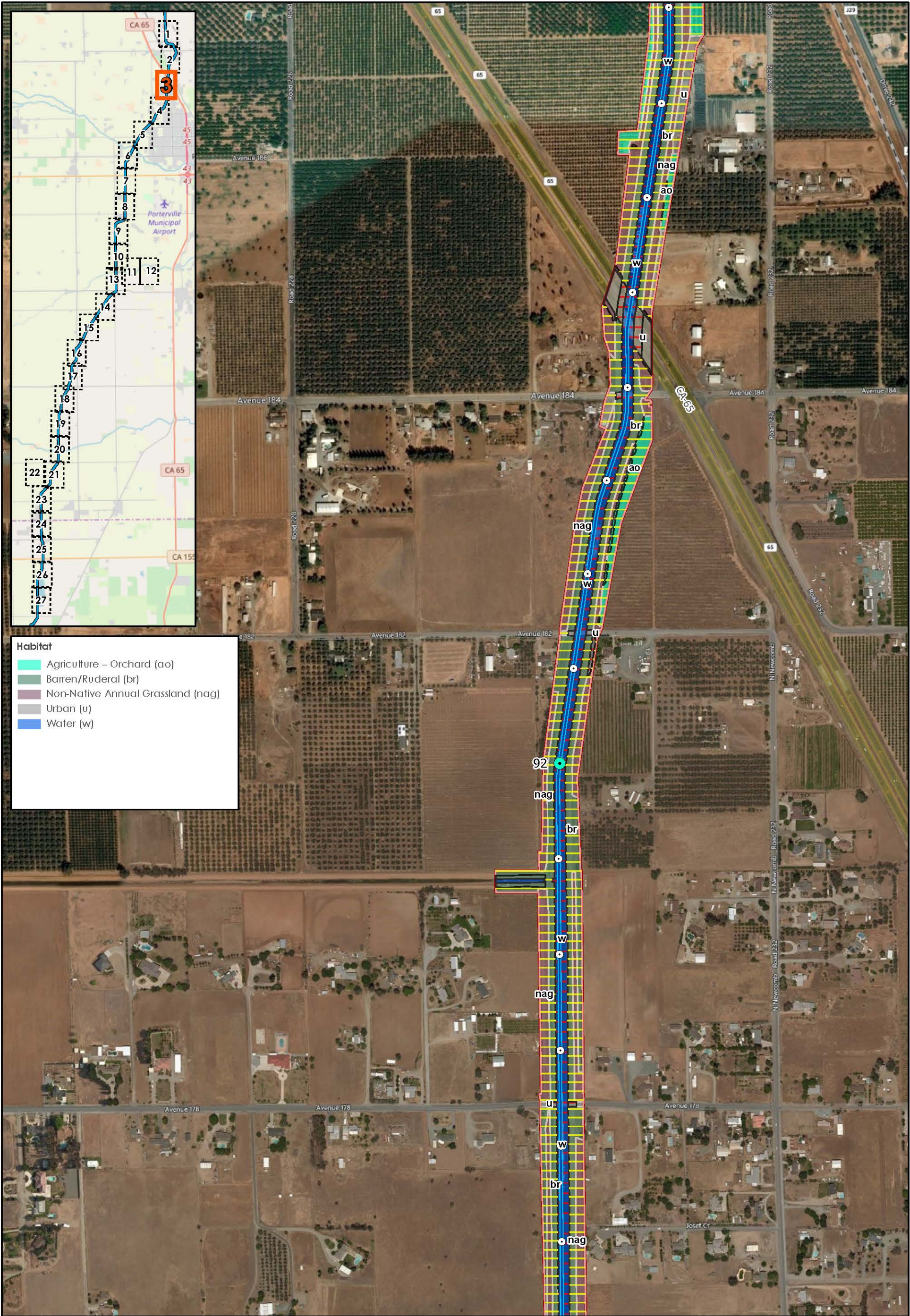


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Client/Project
Friant Water Authority
Friant-Kern Canal Middle Reach Capacity Correction Project



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FRIANT-KERN CANAL MIDDLE REACH CAPACITY CORRECTION PROJECT
Canal Enlargement Alternative

- Project Area
- Potential Impacts
- No Impact
- Permanent
- Temporary
- Proposed Canal Enlargement Centerline
- Mile Post
- Tenth-of-Mile

Figure No. **6C**
Date: **Mar 04, 2020**

Impacts by Habitat

Project Location
Tulare and Kern Counties, CA
7.5' USGS Quadrangles
Porterville, California (1971)
Sausalito School, California (1971)
Ducor, California (1972)

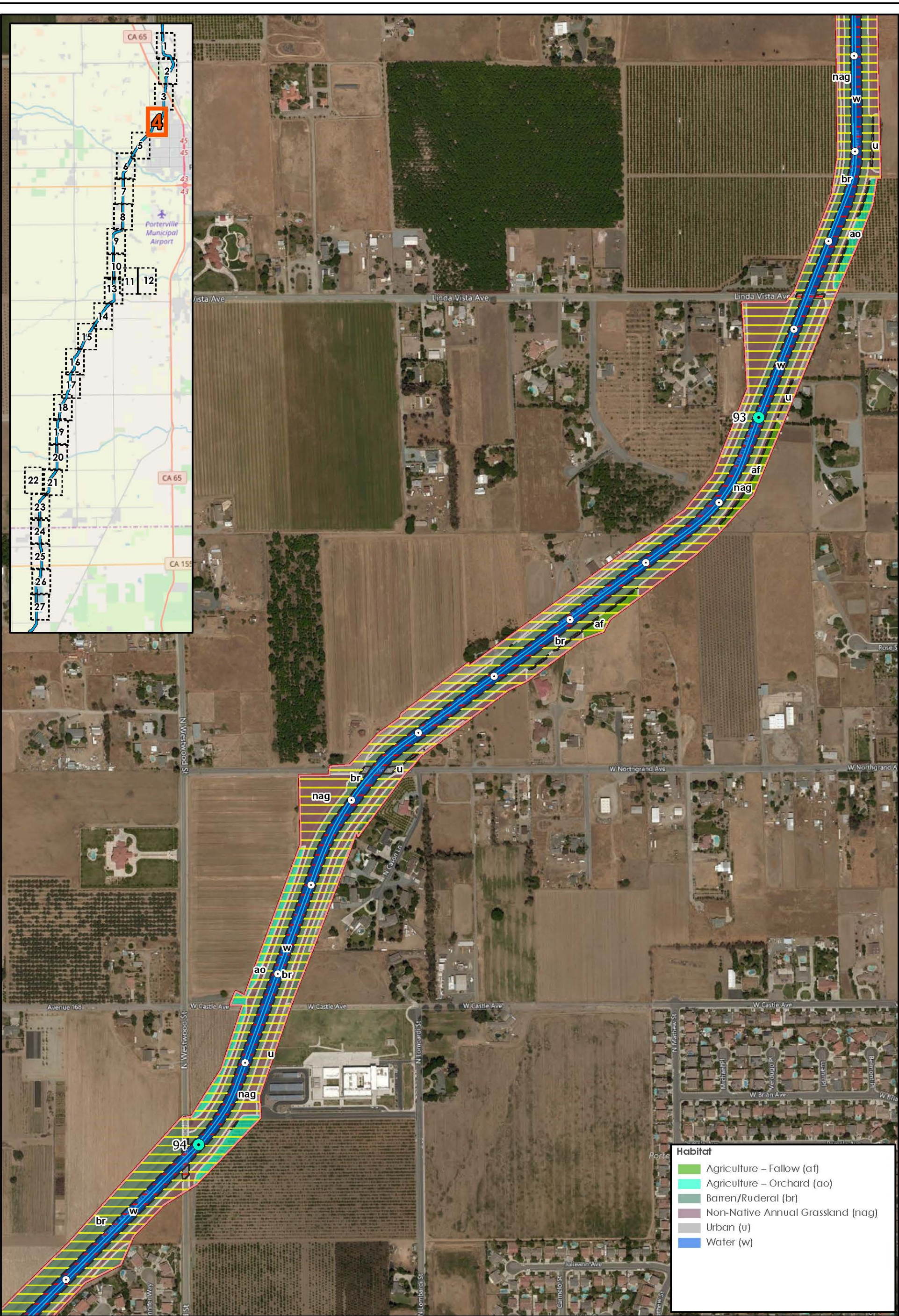
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Client/Project
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Friant-Kern Canal Middle Reach Capacity Correction Project

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FRIANT-KERN CANAL MIDDLE REACH CAPACITY CORRECTION PROJECT
Canal Enlargement Alternative

- Project Area** **Proposed Canal Enlargement Centerline**
- Potential Impacts** **Mile Post**
- No Impact** **Tenth-of-Mile**
- Permanent**
- Temporary**

Figure No. **6D** Date: **Mar 04, 2020**

Impacts by Habitat

Project Location
Tulare and Kern Counties, CA
7.5 USGS Quadrangles
Porterville, California (1971)
Sausalito School, California (1971)
Ducor, California (1972)

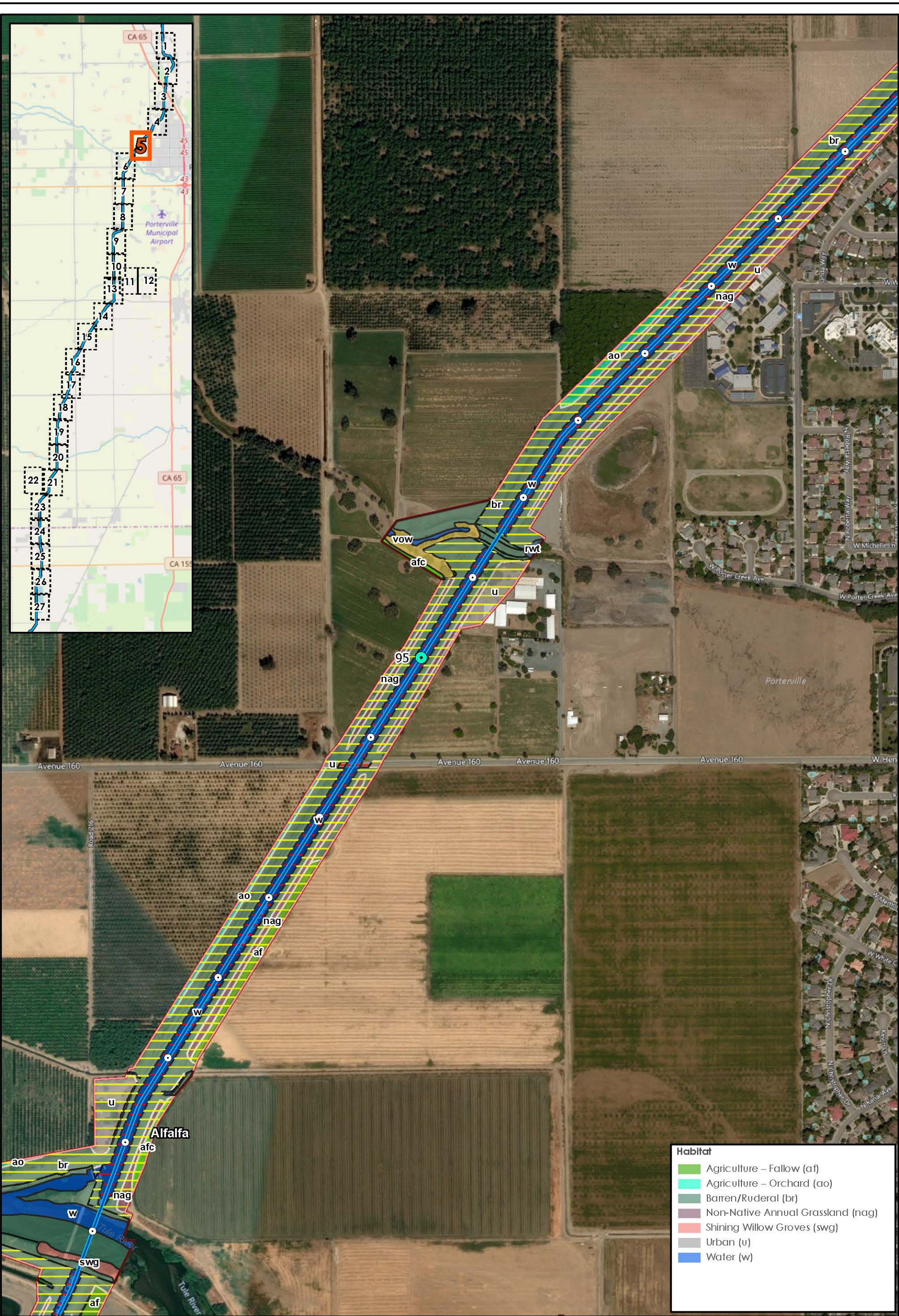
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Client/Project
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Friant-Kern Canal Middle Reach Capacity Correction Project

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FRIANT-KERN CANAL MIDDLE REACH CAPACITY CORRECTION PROJECT

Canal Enlargement Alternative

Project Area

Potential Impacts

No Impact

Permanent

Temporary

Proposed Canal Enlargement Centerline

Mile Post

Tenth-of-Mile

Figure No. **6E**

Title **Impacts by Habitat**

Project Location

Tulare and Kern Counties, CA

7.5' USGS Quadrangles

Porterville, California (1971)

Sausalito School, California (1971)

Ducor, California (1972)

Date: **Mar 04, 2020**

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Prepared by SCP

(2020-03-04)

Client/Project

Friant Water Authority

Friant-Kern Canal Middle Reach Capacity Correction Project

Scale

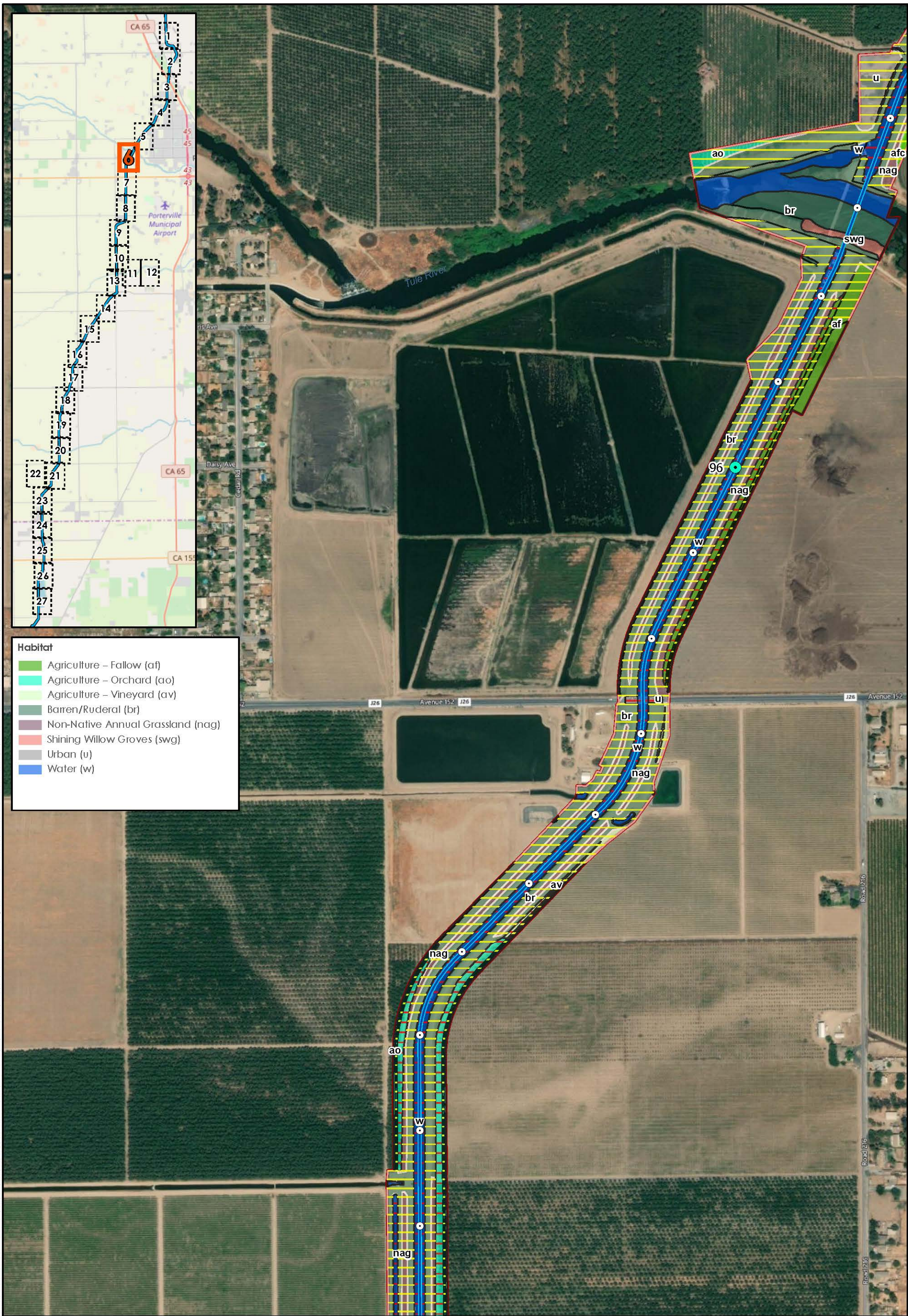
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Logos

Friant **Stantec**

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FRIANT-KERN CANAL MIDDLE REACH CAPACITY CORRECTION PROJECT
Canal Enlargement Alternative

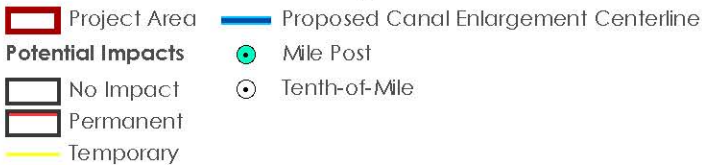


Figure No. **6F**
Date: **Mar 04, 2020**

Impacts by Habitat

Project Location
Tulare and Kern Counties, CA
7.5' USGS Quadrangles
Porterville, California (1971)
Sausalito School, California (1971)
Ducor, California (1972)

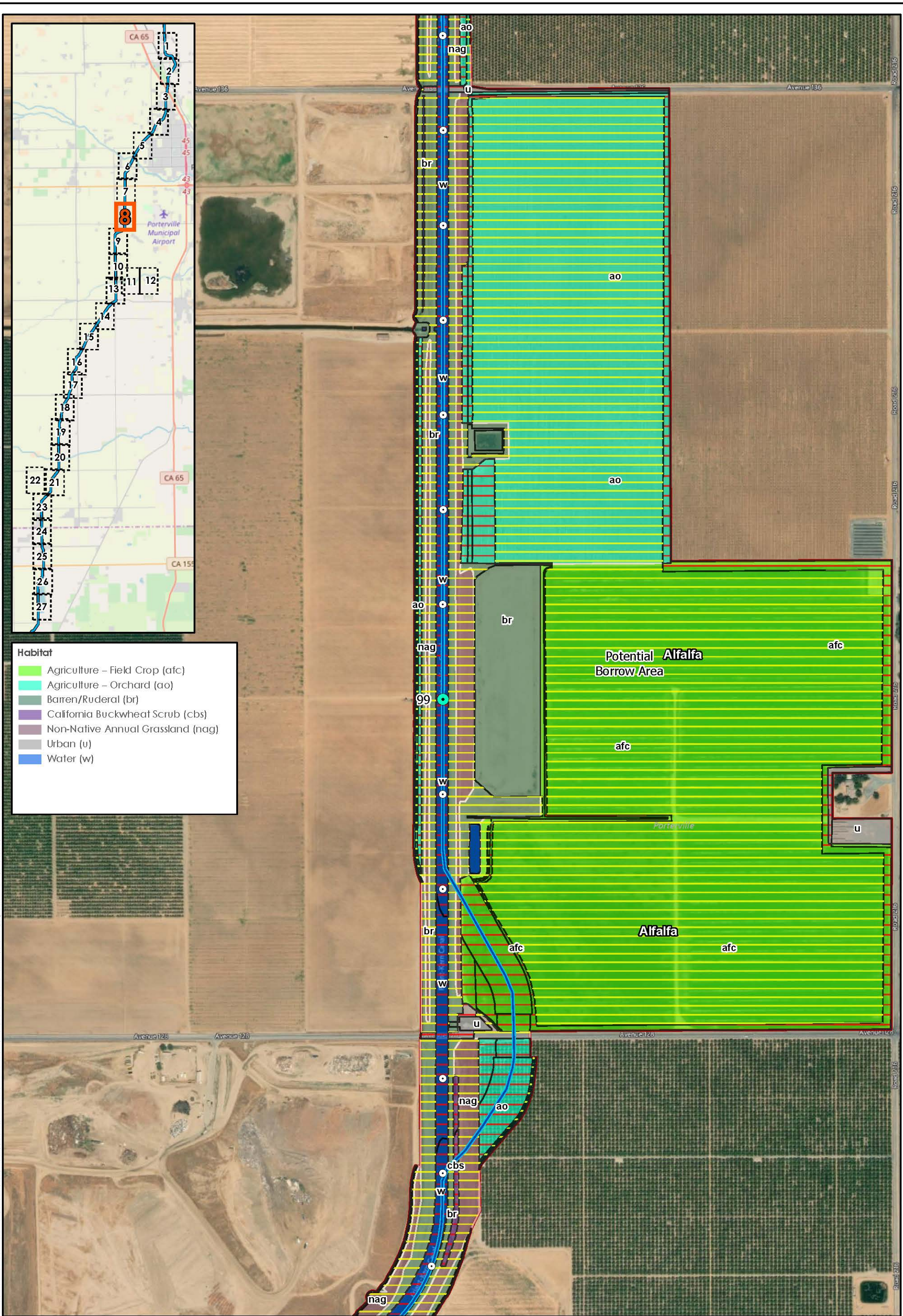
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Friant-Kern Canal Middle Reach Capacity Correction Project

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FRIANT-KERN CANAL MIDDLE REACH CAPACITY CORRECTION PROJECT
Canal Enlargement Alternative

- Project Area (Red outline)
Proposed Canal Enlargement Centerline (Blue line)
Potential Impacts:
No Impact (White box)
Permanent (Red box)
Temporary (Yellow box)
Mile Post (Green circle)
Tenth-of-Mile (White circle)

Figure No.
6H

Date:
Mar 04, 2020

Title
Impacts by Habitat

Project Location
Tulare and Kern Counties, CA
7.5' USGS Quadrangles
Porterville, California (1971)
Sausalito School, California (1971)
Ducor, California (1972)

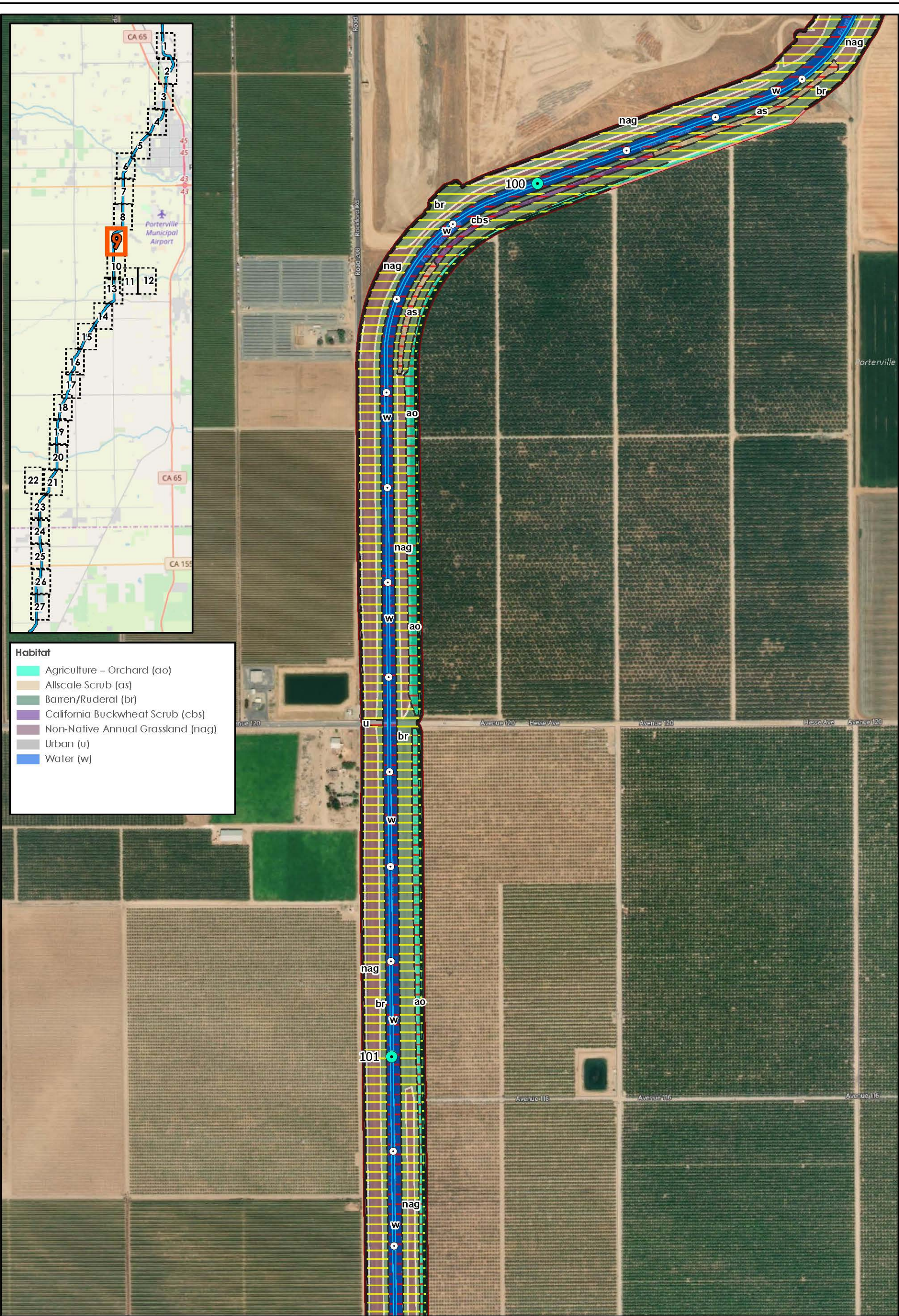
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Friant-Kern Canal Middle Reach Capacity Correction Project

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Habitat

Agriculture – Orchard (ao)

Allscale Scrub (as)

Barren/Ruderal (br)

California Buckwheat Scrub (cbs)

Non-Native Annual Grassland (nag)

Urban (u)

Water (w)

FRIANT-KERN CANAL MIDDLE REACH CAPACITY CORRECTION PROJECT

Canal Enlargement Alternative

- Project Area

Potential Impacts

No Impact

Permanent

Temporary
- Proposed Canal Enlargement Centerline

Mile Post

Tenth-of-Mile

Figure No.

61

Date:

Mar 04, 2020

Title

Impacts by Habitat

Project Location

Tulare and Kern Counties, CA

7.5' USGS Quadrangles

Porterville, California (1971)

Sausalito School, California (1971)

Ducor, California (1972)

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Prepared by SCP

(2020-03-04)

Friant

WATER AUTHORITY

Stantec

0

500

1,000

Feet

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Client/Project

Friant Water Authority

Friant-Kern Canal Middle Reach Capacity Correction Project

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Habitat

Agriculture – Fallow (af)

Agriculture – Orchard (ao)

Agriculture – Vineyard (av)

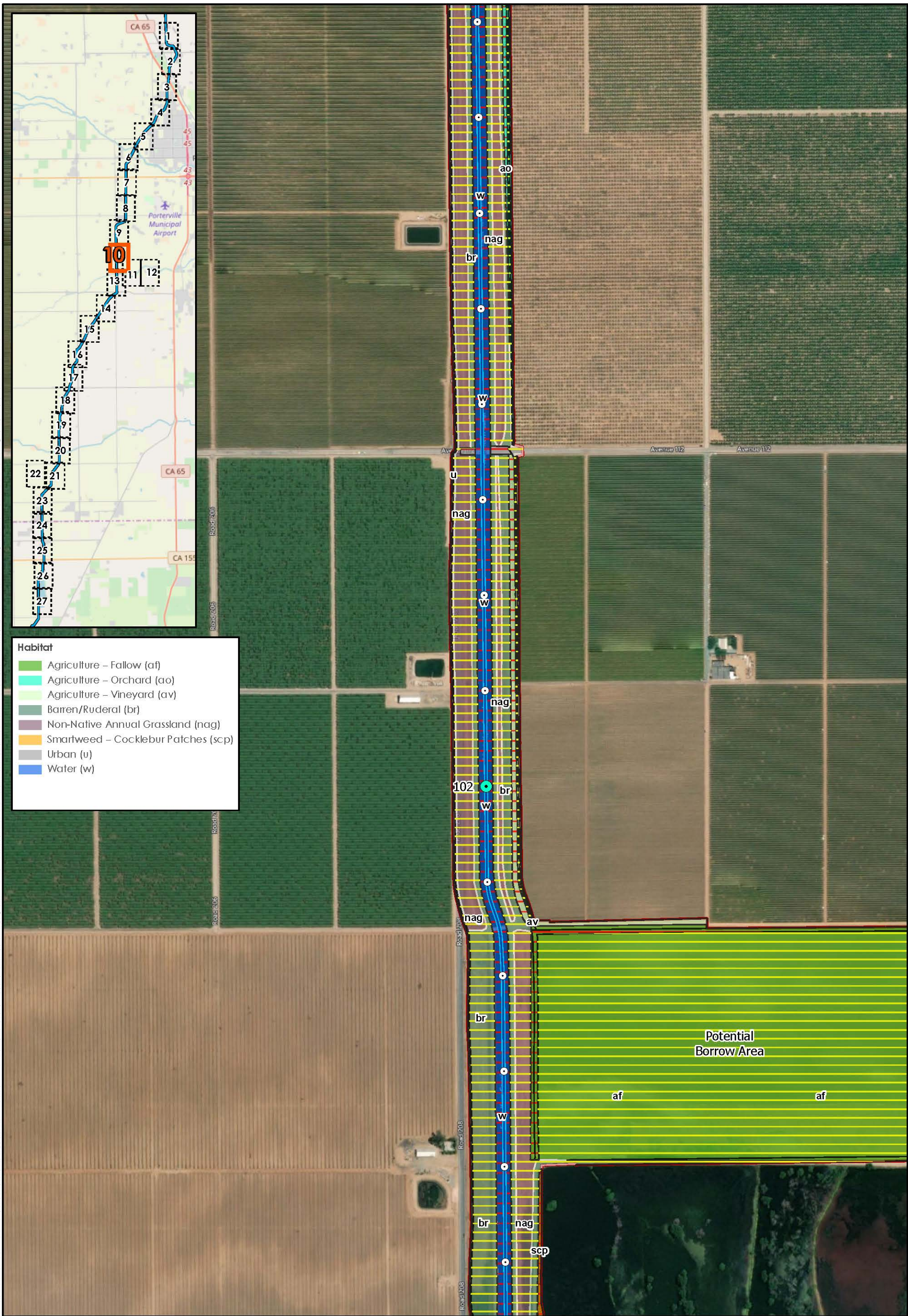
Barren/Ruderal (br)

Non-Native Annual Grassland (nag)

Smartweed – Cocklebur Patches (scp)

Urban (u)

Water (w)



Project Area

Potential Impacts

No Impact

Permanent

Temporary

Proposed Canal Enlargement Centerline

Mile Post

Tenth-of-Mile

Figure No.

6J

Title

Impacts by Habitat

Project Location

Tulare and Kern Counties, CA

7.5' USGS Quadrangles

Porterville, California (1971)

Sausalito School, California (1971)

Ducor, California (1972)

Date:

Mar 04, 2020

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(2020-03-04)

Friant

WATER AUTHORITY

Stantec

0

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1,000

Feet

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Client/Project

Friant Water Authority

Friant-Kern Canal Middle Reach Capacity Correction Project

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Revised: 2020-03-04 By: s price

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Habitat

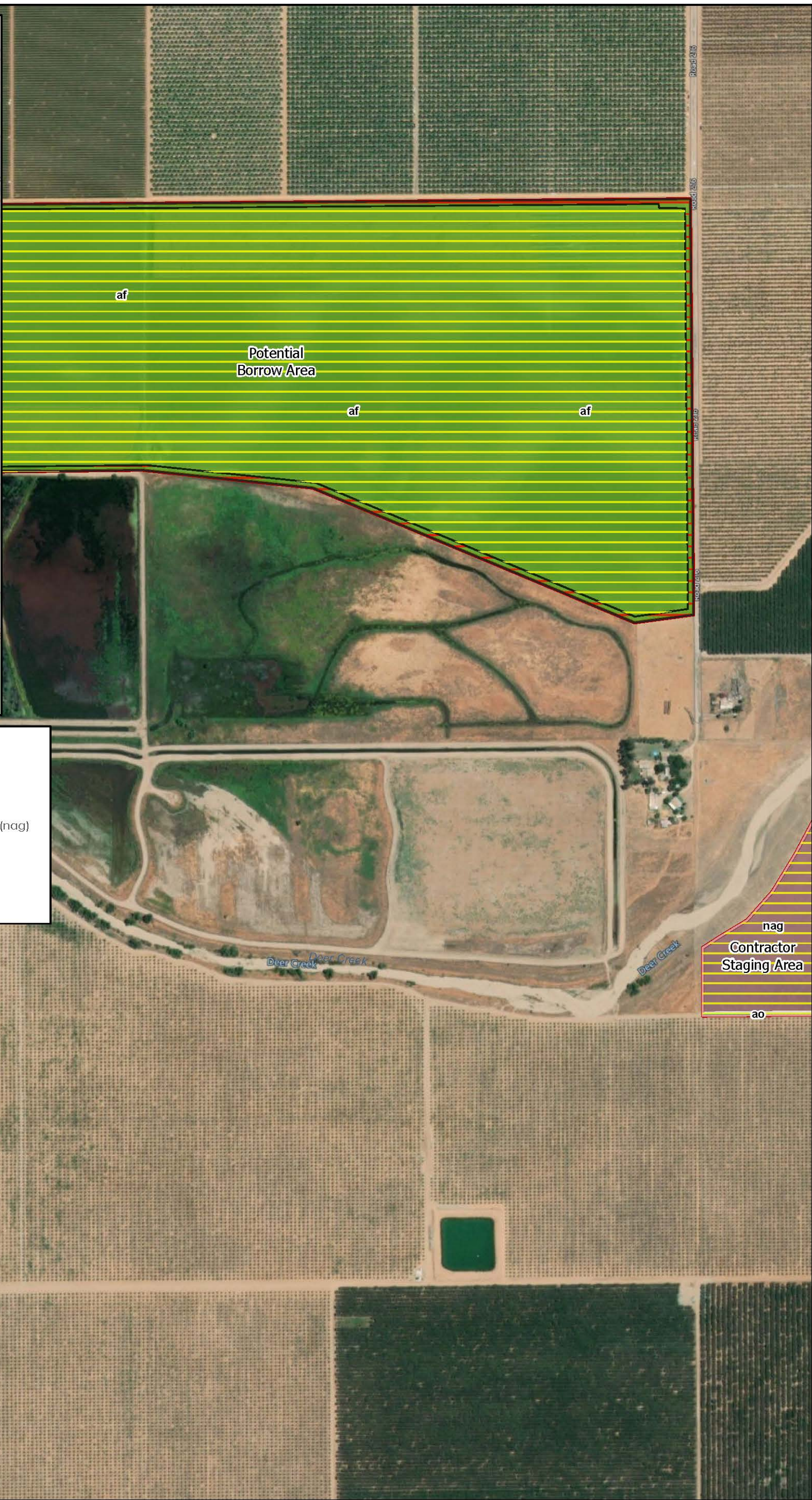
Agriculture – Fallow (af)

Agriculture – Orchard (ao)

Agriculture – Vineyard (av)

Barren/Ruderal (br)

Non-Native Annual Grassland (nag)



FRIANT-KERN CANAL MIDDLE REACH CAPACITY CORRECTION PROJECT
Canal Enlargement Alternative

- Project Area

Potential Impacts

No Impact

Permanent

Temporary
- Proposed Canal Enlargement Centerline

Mile Post

Tenth-of-Mile

Figure No.
6K

Date:
Mar 04, 2020

Title
Impacts by Habitat

Project Location
Tulare and Kern Counties, CA
7.5' USGS Quadrangles
Porterville, California (1971)
Sausalito School, California (1971)
Ducor, California (1972)

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0

500

1,000

Feet

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Client/Project
Friant Water Authority
Friant-Kern Canal Middle Reach Capacity Correction Project

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FRIANT-KERN CANAL MIDDLE REACH CAPACITY CORRECTION PROJECT
Canal Enlargement Alternative

- Project Area
- Potential Impacts
 - No Impact
 - Permanent
 - Temporary
- Proposed Canal Enlargement Centerline
- Mile Post
- Tenth-of-Mile

Figure No.
6L

Date:
Mar 04, 2020

Impacts by Habitat

Project Location
Tulare and Kern Counties, CA
7.5' USGS Quadrangles
Porterville, California (1971)
Sausalito School, California (1971)
Ducor, California (1972)

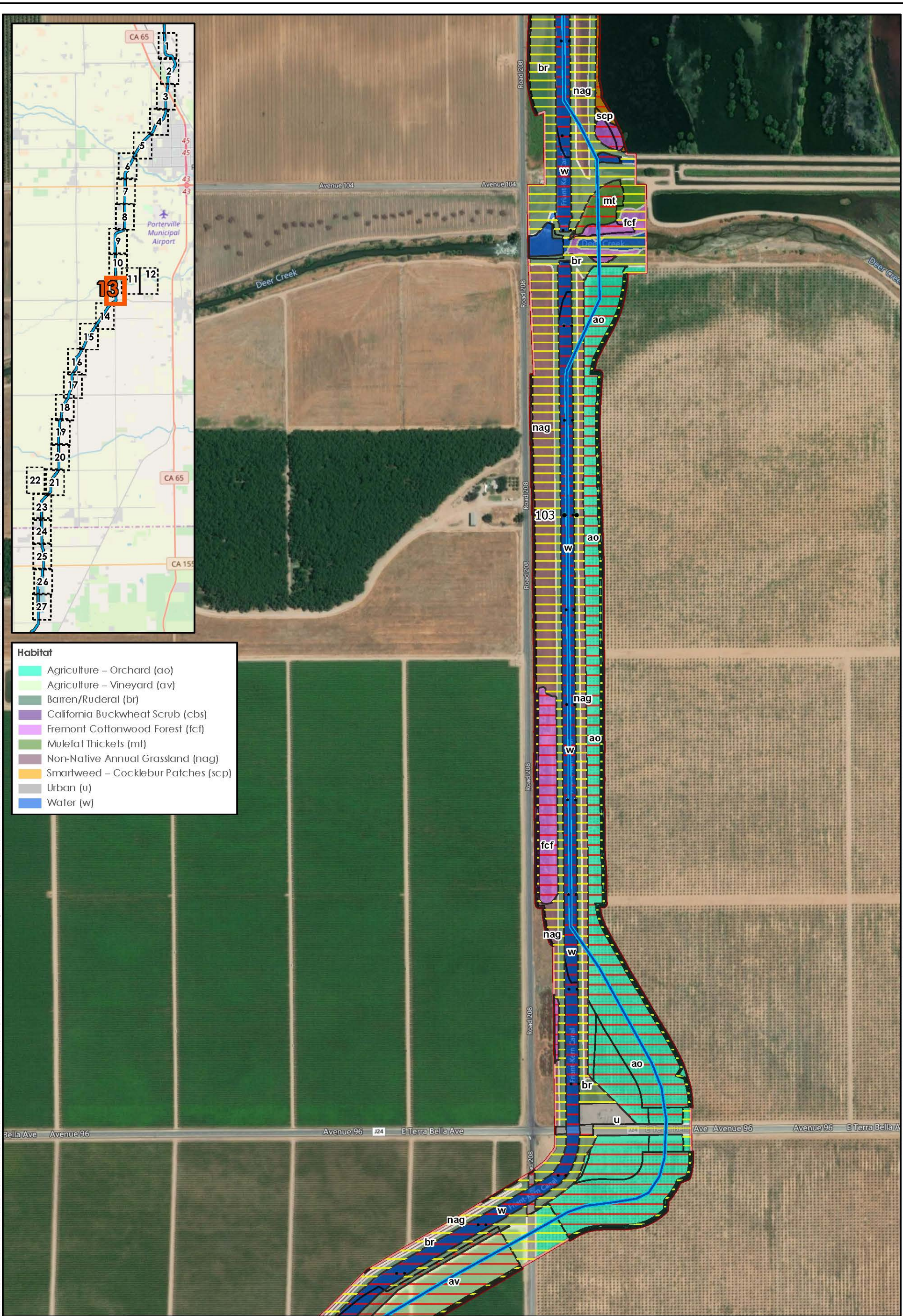
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Client/Project
Friant Water Authority
Friant-Kern Canal Middle Reach Capacity Correction Project

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FRIANT-KERN CANAL MIDDLE REACH CAPACITY CORRECTION PROJECT
Canal Enlargement Alternative

- Project Area** (Red outline)
- Potential Impacts**
- No Impact (White)
 - Permanent (Pink)
 - Temporary (Yellow)
- Proposed Canal Enlargement Centerline** (Blue line)
- Mile Post (Black dots)
 - Tenth-of-Mile (Black dots)

Figure No. **6M**
Date: **Mar 18, 2020**

Impacts by Habitat

Project Location
Tulare and Kern Counties, CA
7.5 USGS Quadrangles
Porterville, California (1971)
Sausalito School, California (1971)
Ducor, California (1972)

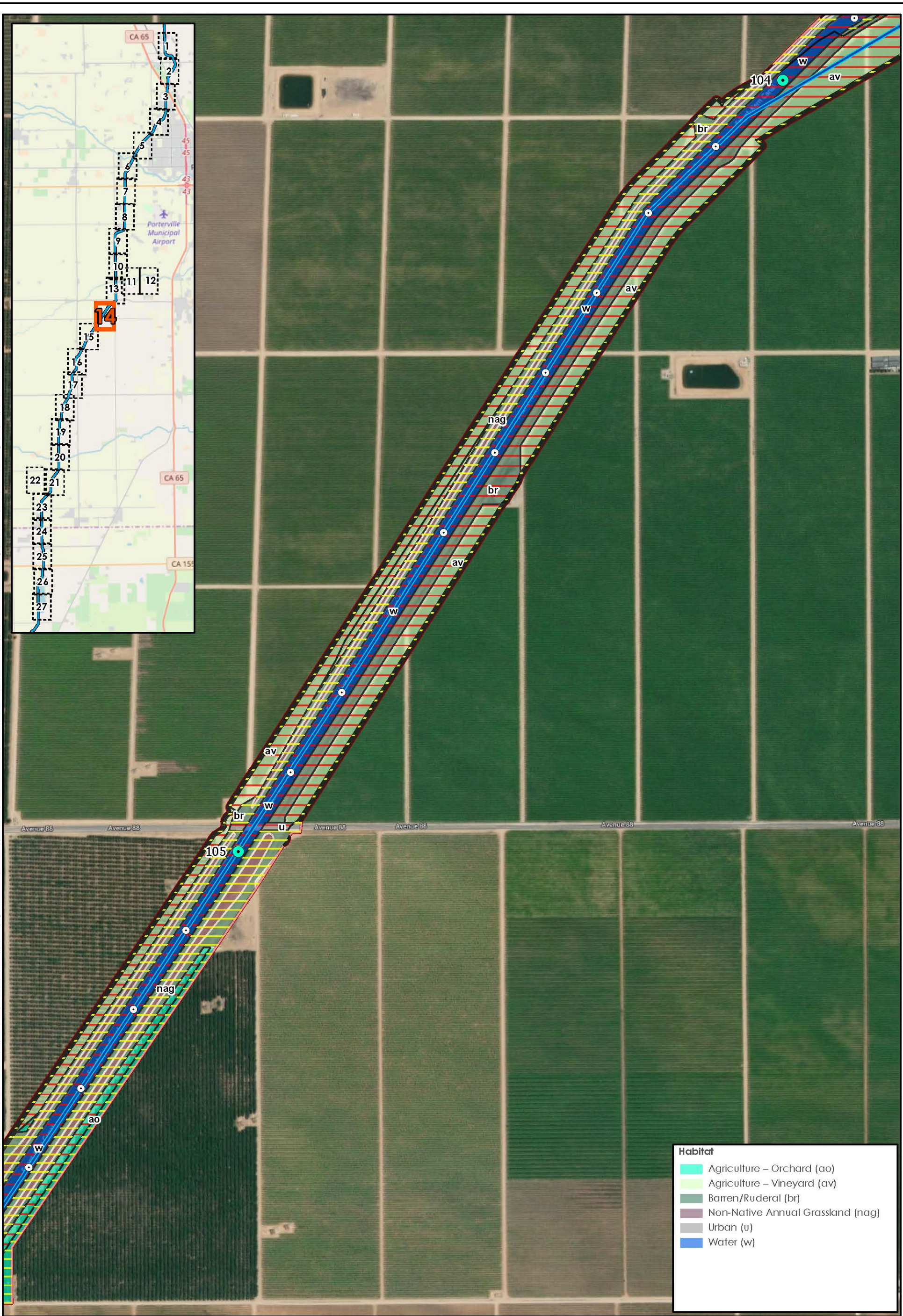
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Prepared by SCP
(2020-03-04)



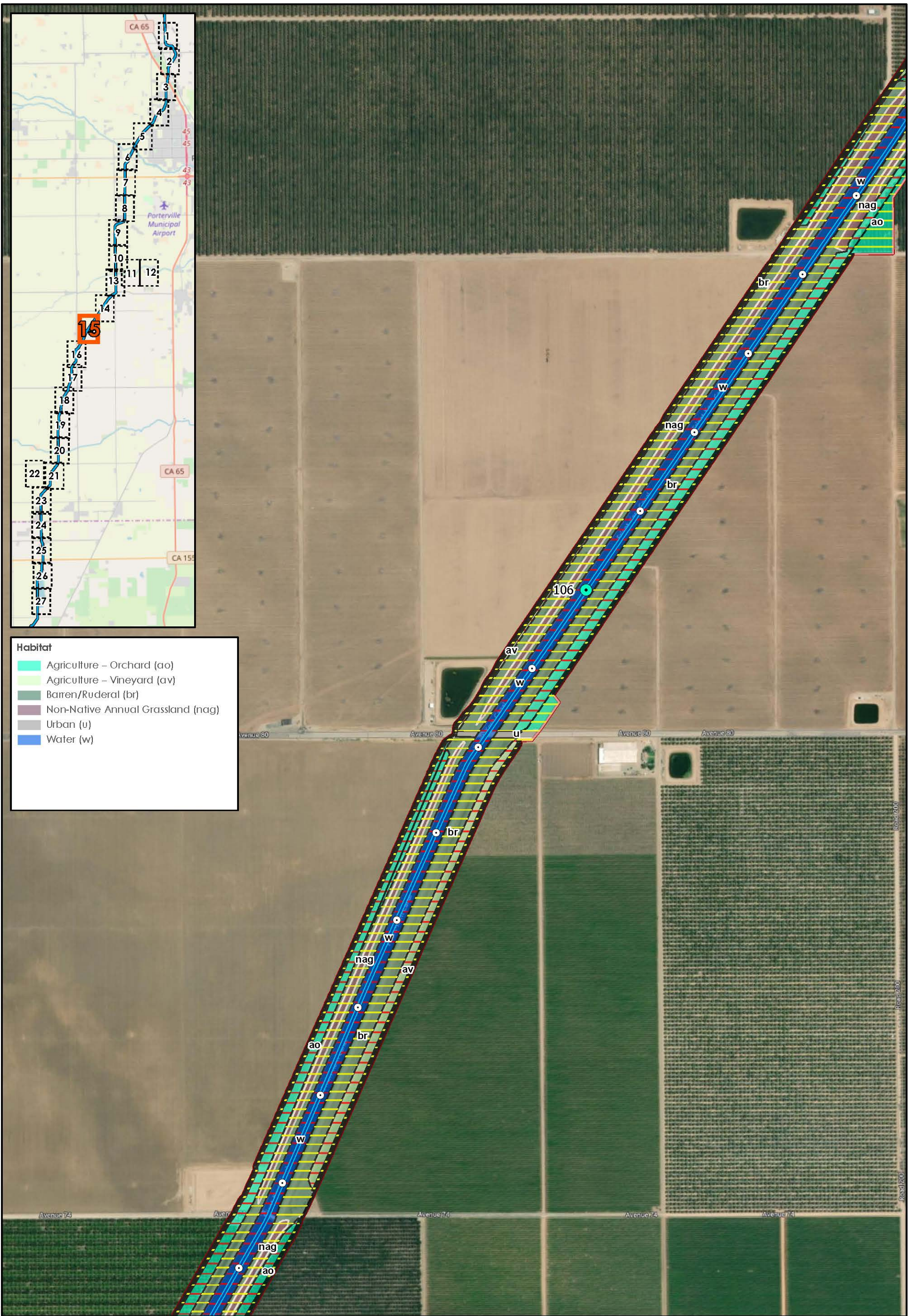
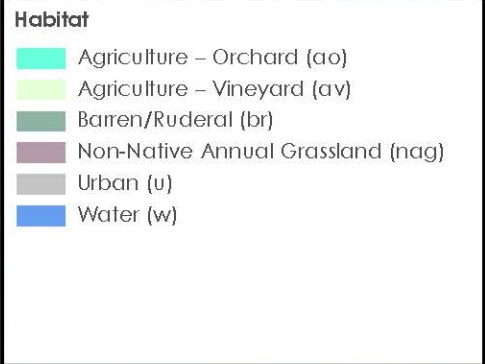
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Client/Project
Friant Water Authority
Friant-Kern Canal Middle Reach Capacity Correction Project

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FRIANT-KERN CANAL MIDDLE REACH CAPACITY CORRECTION PROJECT
Canal Enlargement Alternative

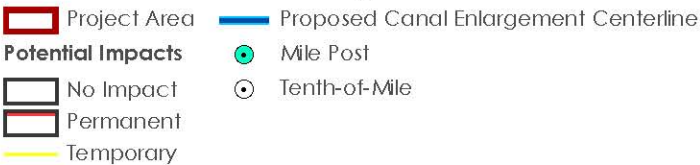


Figure No.
60

Date:
Mar 04, 2020

Impacts by Habitat

Project Location
Tulare and Kern Counties, CA
7.5' USGS Quadrangles
Porterville, California (1971)
Sausalito School, California (1971)
Ducor, California (1972)

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Prepared by SCP
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Friant-Kern Canal Middle Reach Capacity Correction Project

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Habitat

Agriculture – Orchard (ao)

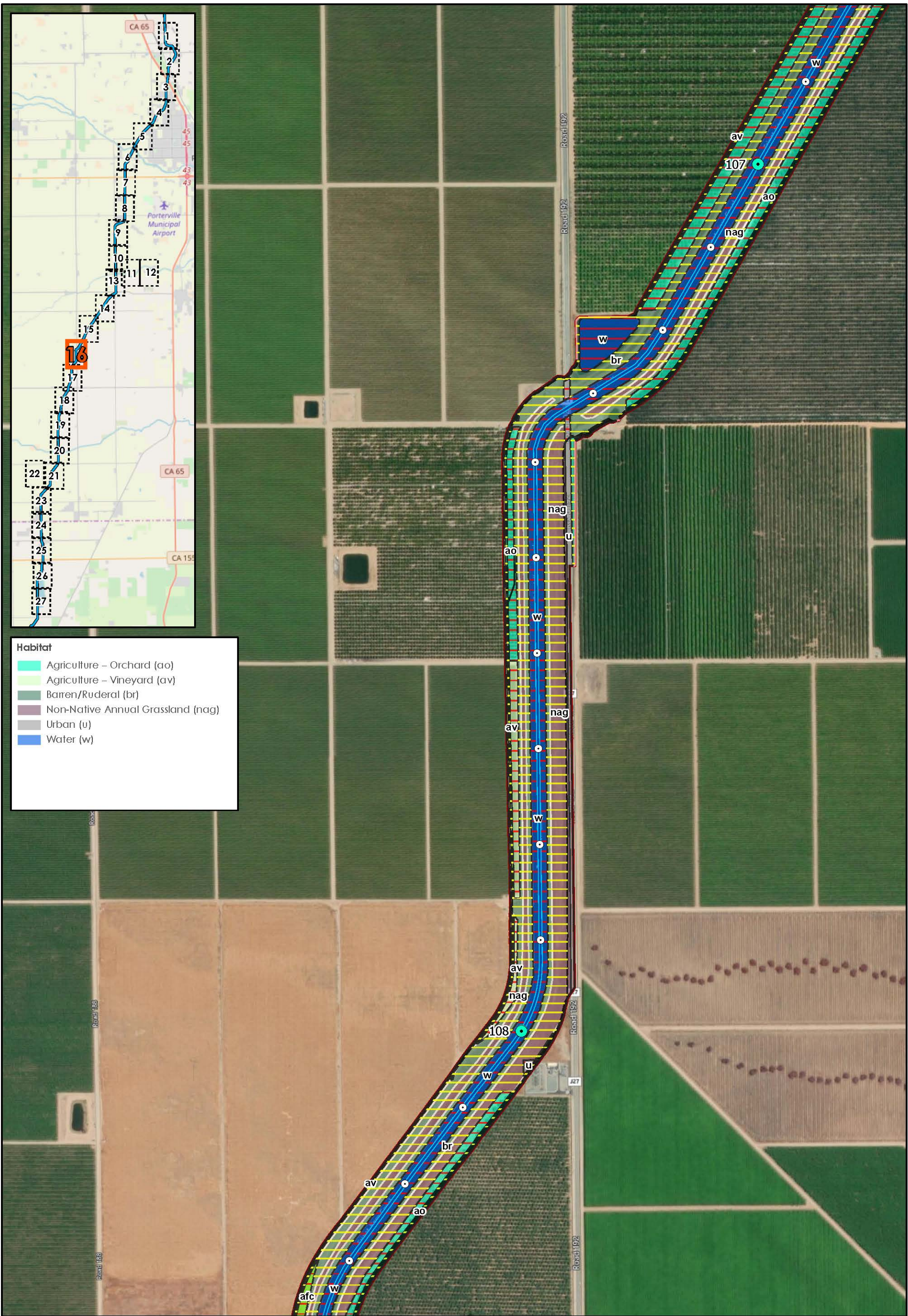
Agriculture – Vineyard (av)

Barren/Ruderal (br)

Non-Native Annual Grassland (nag)

Urban (u)

Water (w)



FRIANT-KERN CANAL MIDDLE REACH CAPACITY CORRECTION PROJECT

Canal Enlargement Alternative

- Project Area

Potential Impacts

No Impact

Permanent

Temporary
- Proposed Canal Enlargement Centerline

Mile Post

Tenth-of-Mile

Figure No. 6P

Date: Mar 04, 2020

Impacts by Habitat

Project Location
Tulare and Kern Counties, CA
7.5' USGS Quadrangles
Porterville, California (1971)
Sausalito School, California (1971)
Ducor, California (1972)

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Prepared by SCP
(2020-03-04)

Friant

WATER AUTHORITY

Stantec

0

500

1,000

Feet

1: 6,000 (At original document size of 11x17)

Client/Project
Friant Water Authority
Friant-Kern Canal Middle Reach Capacity Correction Project

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Habitat

Agriculture – Fallow (af)

Agriculture – Orchard (ao)

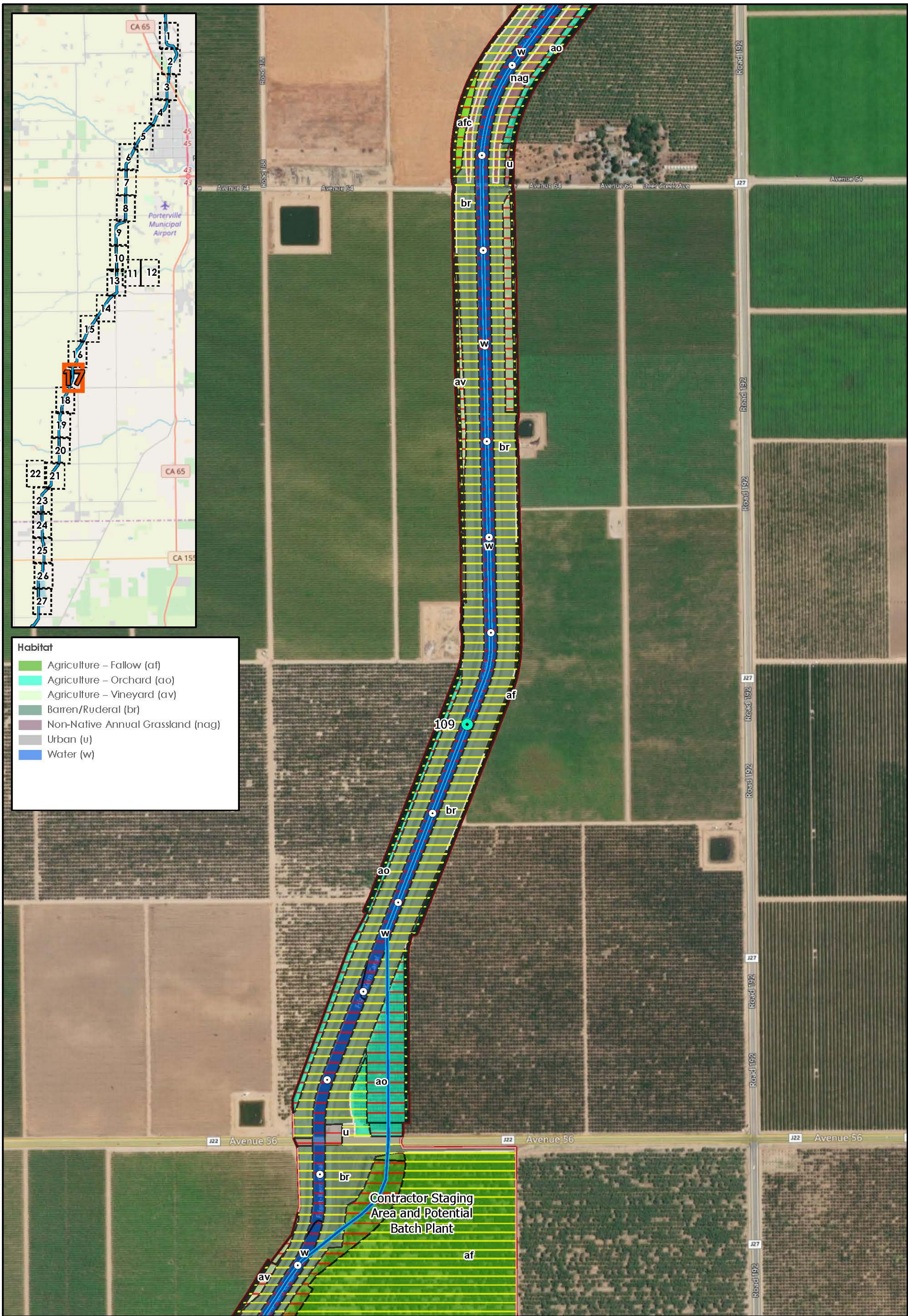
Agriculture – Vineyard (av)

Barren/Ruderal (br)

Non-Native Annual Grassland (nag)

Urban (u)

Water (w)



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FRIANT-KERN CANAL MIDDLE REACH CAPACITY CORRECTION PROJECT
Canal Enlargement Alternative

- Project Area
- Potential Impacts
- No Impact
 - Permanent
 - Temporary
- Proposed Canal Enlargement Centerline
- Mile Post
 - Tenth-of-Mile

Figure No.
6R

Date:
Mar 04, 2020

Title
Impacts by Habitat

Project Location
Tulare and Kern Counties, CA
7.5' USGS Quadrangles
Porterville, California (1971)
Sausalito School, California (1971)
Ducor, California (1972)

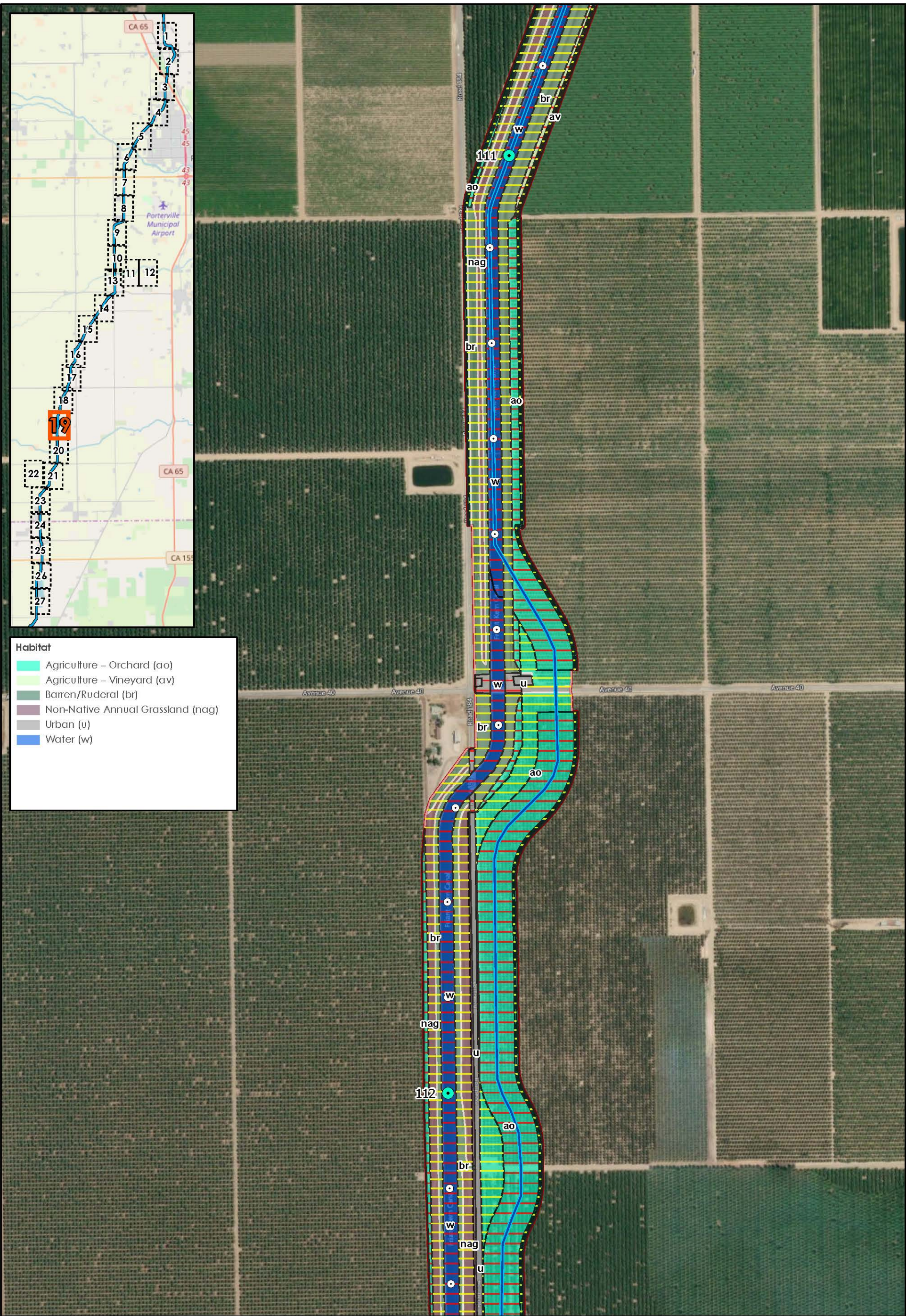
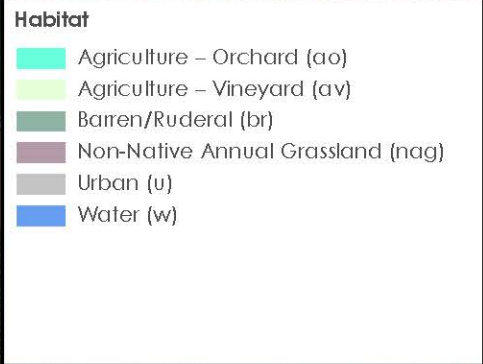
184031016
Prepared by SCP
(2020-03-04)



0 500 1,000 Feet
1:6,000 (At original document size of 11x17)

Client/Project
Friant Water Authority
Friant-Kern Canal Middle Reach Capacity Correction Project

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FRIANT-KERN CANAL MIDDLE REACH CAPACITY CORRECTION PROJECT
Canal Enlargement Alternative

- Project Area
- Potential Impacts
- No Impact
- Permanent
- Temporary
- Proposed Canal Enlargement Centerline
- Mile Post
- Tenth-of-Mile

Figure No. **6S**
Date: **Mar 04, 2020**

Impacts by Habitat

Project Location
Tulare and Kern Counties, CA
7.5' USGS Quadrangles
Porterville, California (1971)
Sausalito School, California (1971)
Ducor, California (1972)

184031016
Prepared by SCP
(2020-03-04)



Client/Project
Friant Water Authority
Friant-Kern Canal Middle Reach Capacity Correction Project

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Habitat

Agriculture – Orchard (ao)

Agriculture – Vineyard (av)

Barren/Ruderal (br)

Non-Native Annual Grassland (nag)

Urban (u)

Water (w)



FRIANT-KERN CANAL MIDDLE REACH CAPACITY CORRECTION PROJECT
Canal Enlargement Alternative

- Project Area

Potential Impacts

No Impact

Permanent

Temporary
- Proposed Canal Enlargement Centerline

Mile Post

Tenth-of-Mile

Figure No.
6T

Date:
Mar 04, 2020

Title
Impacts by Habitat

Project Location
Tulare and Kern Counties, CA
7.5' USGS Quadrangles
Porterville, California (1971)
Sausalito School, California (1971)
Ducor, California (1972)

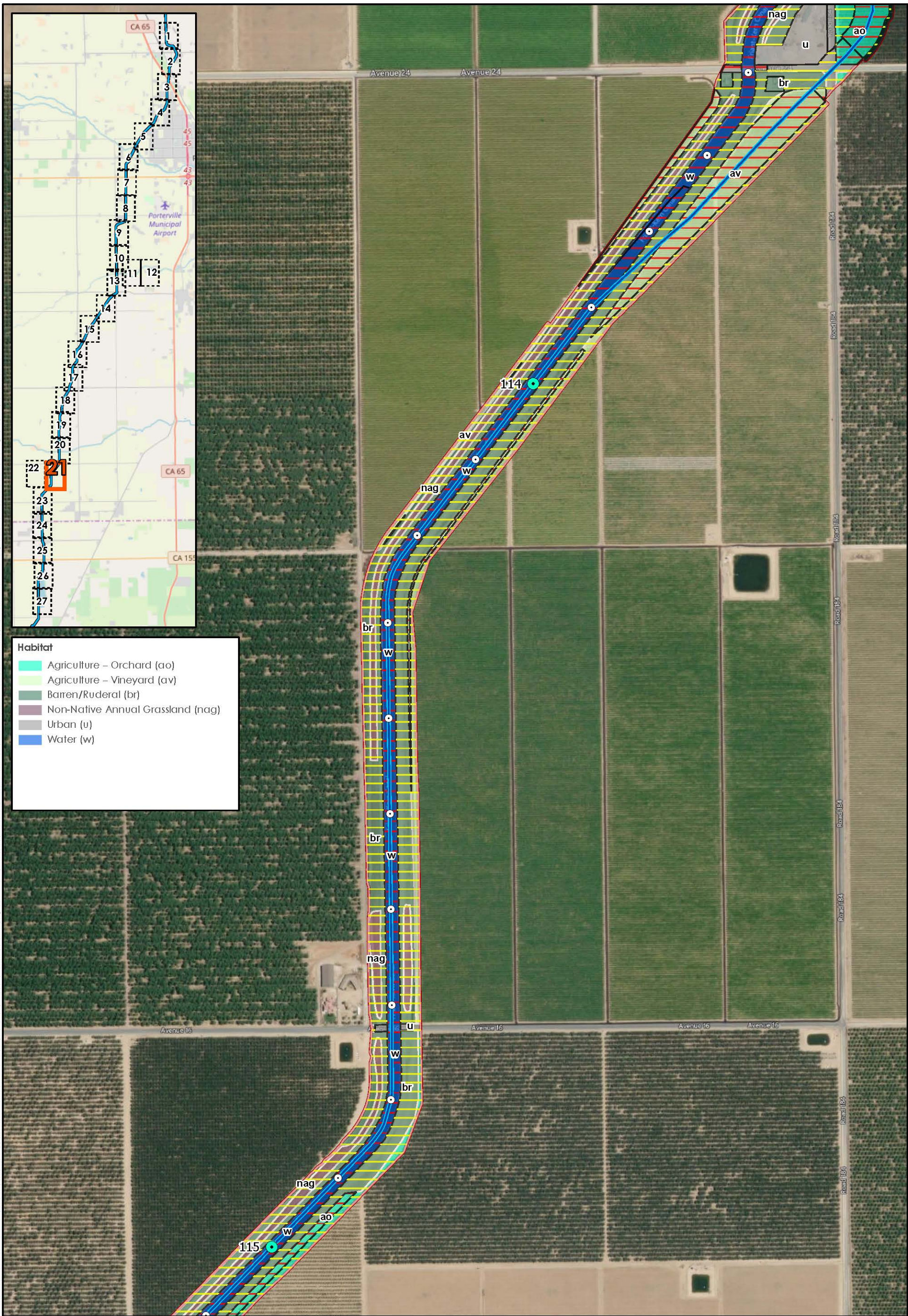
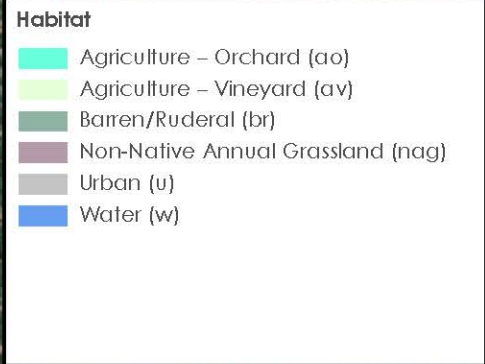
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Friant-Kern Canal Middle Reach Capacity Correction Project

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FRIANT-KERN CANAL MIDDLE REACH CAPACITY CORRECTION PROJECT
Canal Enlargement Alternative

- Project Area
- Potential Impacts
- No Impact
- Permanent
- Temporary
- Proposed Canal Enlargement Centerline
- Mile Post
- Tenth-of-Mile

Figure No.
6U

Date:
Mar 04, 2020

Impacts by Habitat

Project Location
Tulare and Kern Counties, CA
7.5' USGS Quadrangles
Porterville, California (1971)
Sausalito School, California (1971)
Ducor, California (1972)

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Prepared by SCP
(2020-03-04)



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Friant-Kern Canal Middle Reach Capacity Correction Project

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Habitat

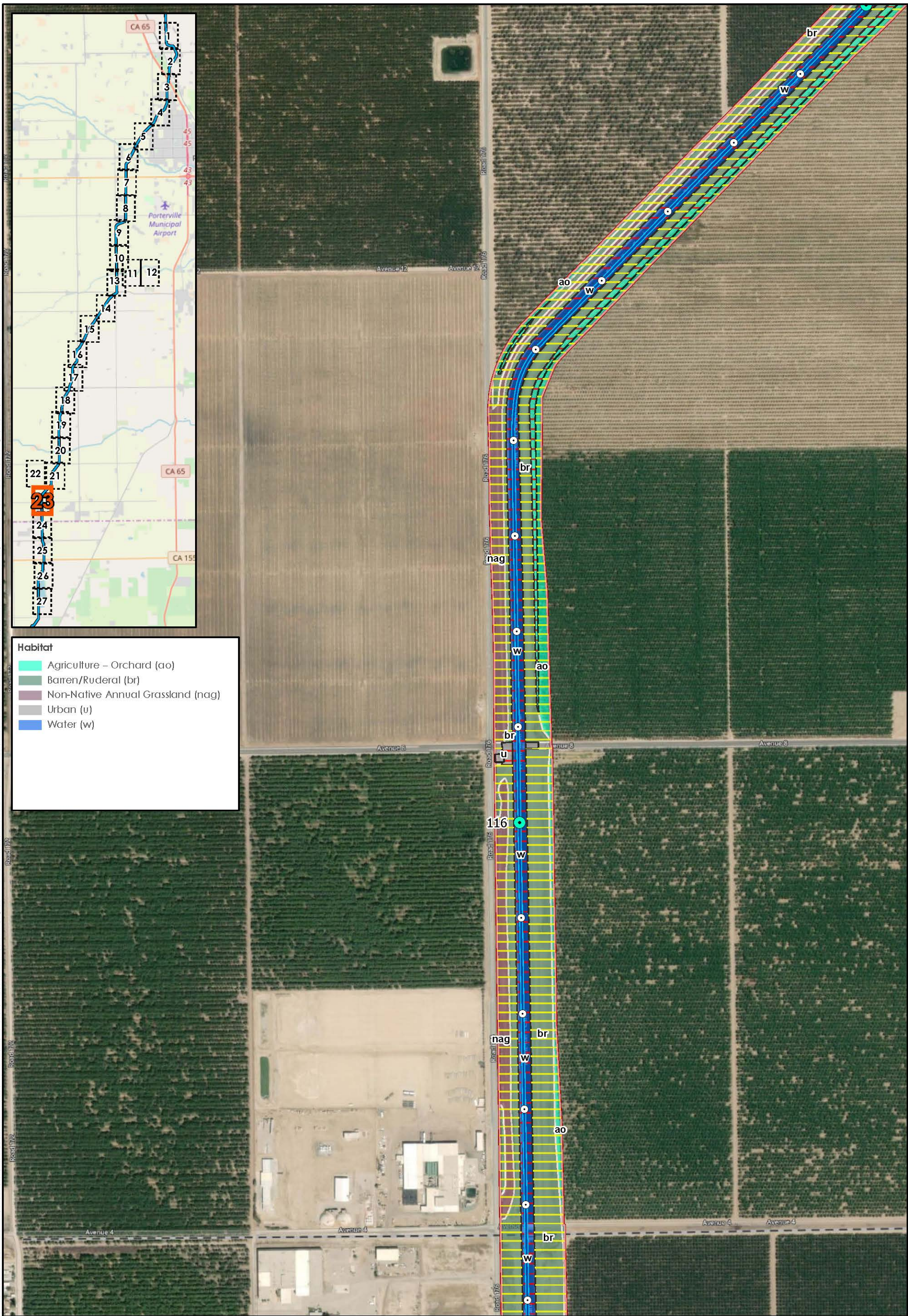
Agriculture – Orchard (ao)

Barren/Ruderal (br)

Non-Native Annual Grassland (nag)

Urban (u)

Water (w)



FRIANT-KERN CANAL MIDDLE REACH CAPACITY CORRECTION PROJECT

Canal Enlargement Alternative

- Project Area

Potential Impacts

No Impact

Permanent

Temporary
- Proposed Canal Enlargement Centerline

Mile Post

Tenth-of-Mile

Figure No.
6W

Date:
Mar 04, 2020

Title
Impacts by Habitat

Project Location
Tulare and Kern Counties, CA
7.5' USGS Quadrangles
Porterville, California (1971)
Sausalito School, California (1971)
Ducor, California (1972)

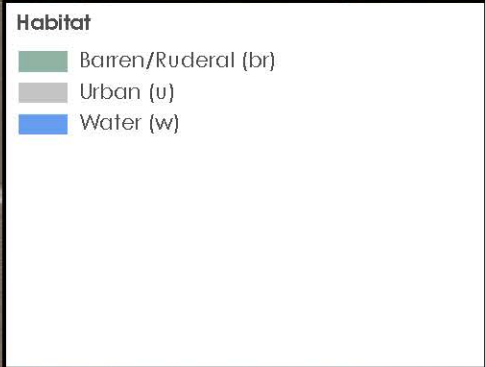
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FRIANT-KERN CANAL MIDDLE REACH CAPACITY CORRECTION PROJECT
Canal Enlargement Alternative

- Project Area
- Potential Impacts
 - No Impact
 - Permanent
 - Temporary
- Proposed Canal Enlargement Centerline
- Mile Post
- Tenth-of-Mile

Figure No. **6X** Date: **Mar 04, 2020**

Impacts by Habitat

Project Location
Tulare and Kern Counties, CA
7.5 USGS Quadrangles
Porterville, California (1971)
Sausalito School, California (1971)
Ducor, California (1972)

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Prepared by SCP
(2020-03-04)



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Habitat

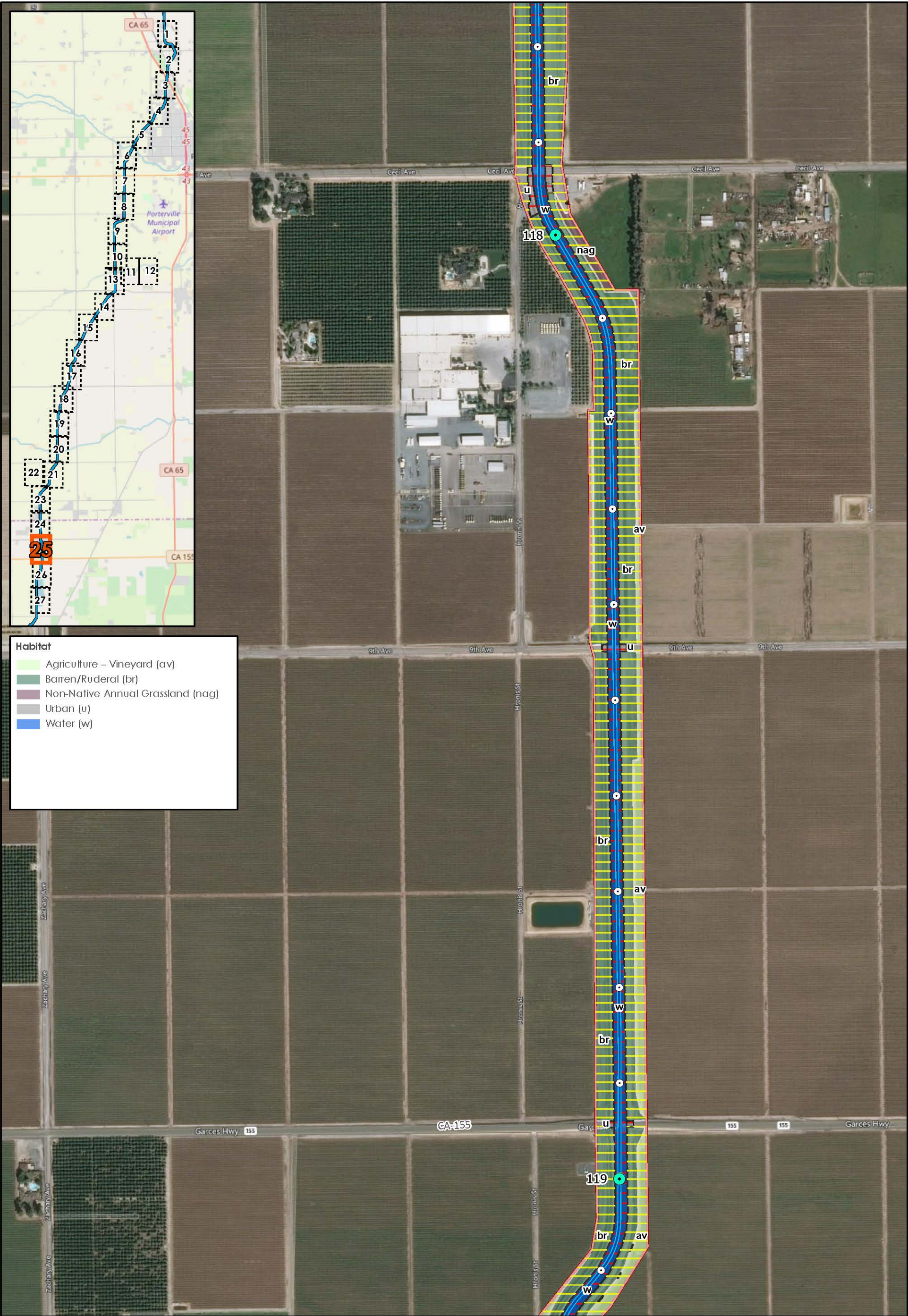
Agriculture – Vineyard (av)

Barren/Ruderal (br)

Non-Native Annual Grassland (nag)

Urban (u)

Water (w)



FRIANT-KERN CANAL MIDDLE REACH CAPACITY CORRECTION PROJECT
Canal Enlargement Alternative

Project Area

Potential Impacts

No Impact

Permanent

Temporary

Proposed Canal Enlargement Centerline

Mile Post

Tenth-of-Mile

Figure No. 6Y Date: Mar 04, 2020

Impacts by Habitat

Project Location
Tulare and Kern Counties, CA
7.5' USGS Quadrangles
Porterville, California (1971)
Sausalito School, California (1971)
Ducor, California (1972)

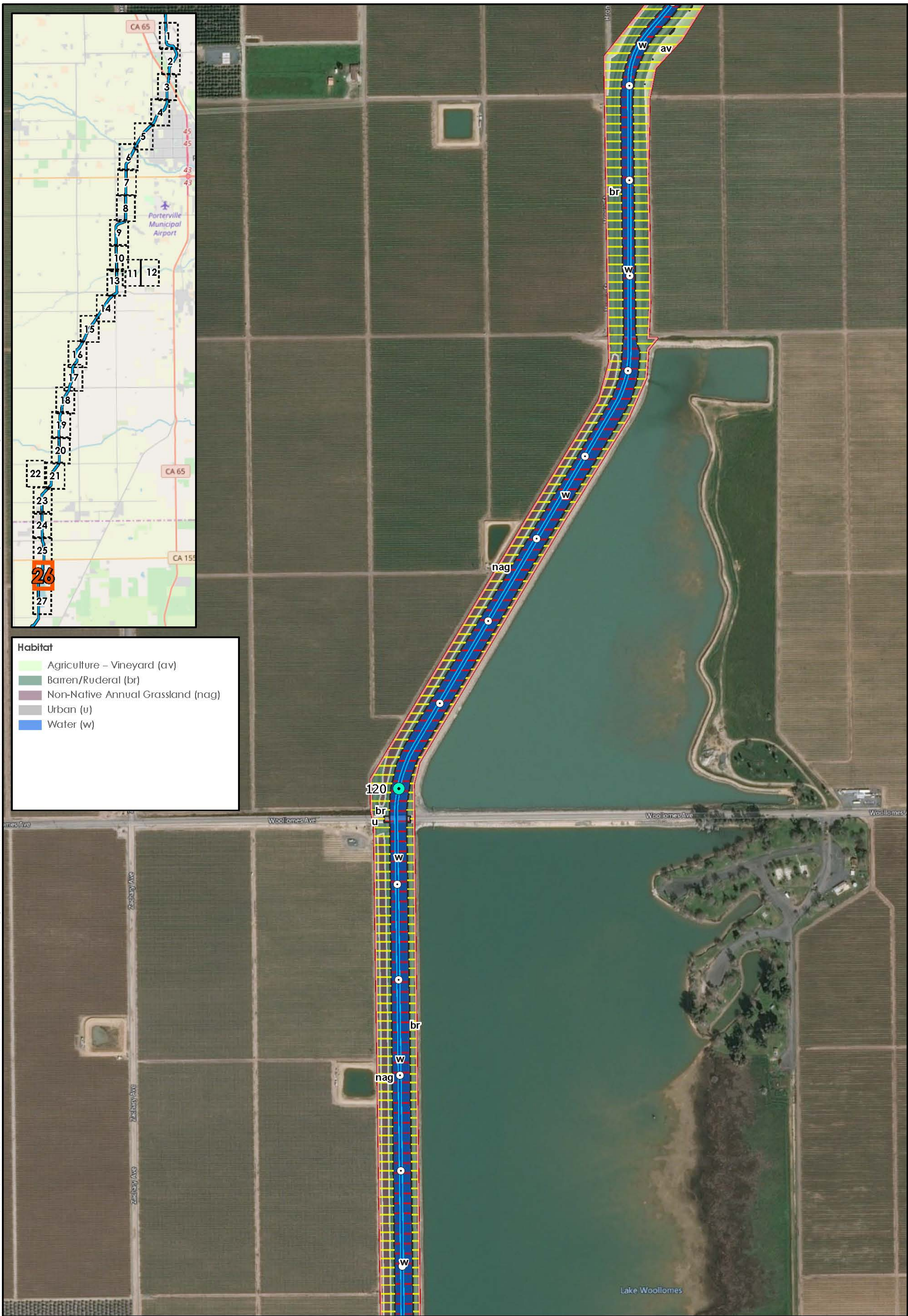
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FRIANT-KERN CANAL MIDDLE REACH CAPACITY CORRECTION PROJECT
Canal Enlargement Alternative

- Project Area
- Potential Impacts
- No Impact
- Permanent
- Temporary
- Proposed Canal Enlargement Centerline
- Mile Post
- Tenth-of-Mile

Figure No. **6Z**
Date: **Mar 04, 2020**

Impacts by Habitat

Project Location
Tulare and Kern Counties, CA
7.5' USGS Quadrangles
Porterville, California (1971)
Sausalito School, California (1971)
Ducor, California (1972)

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Client/Project
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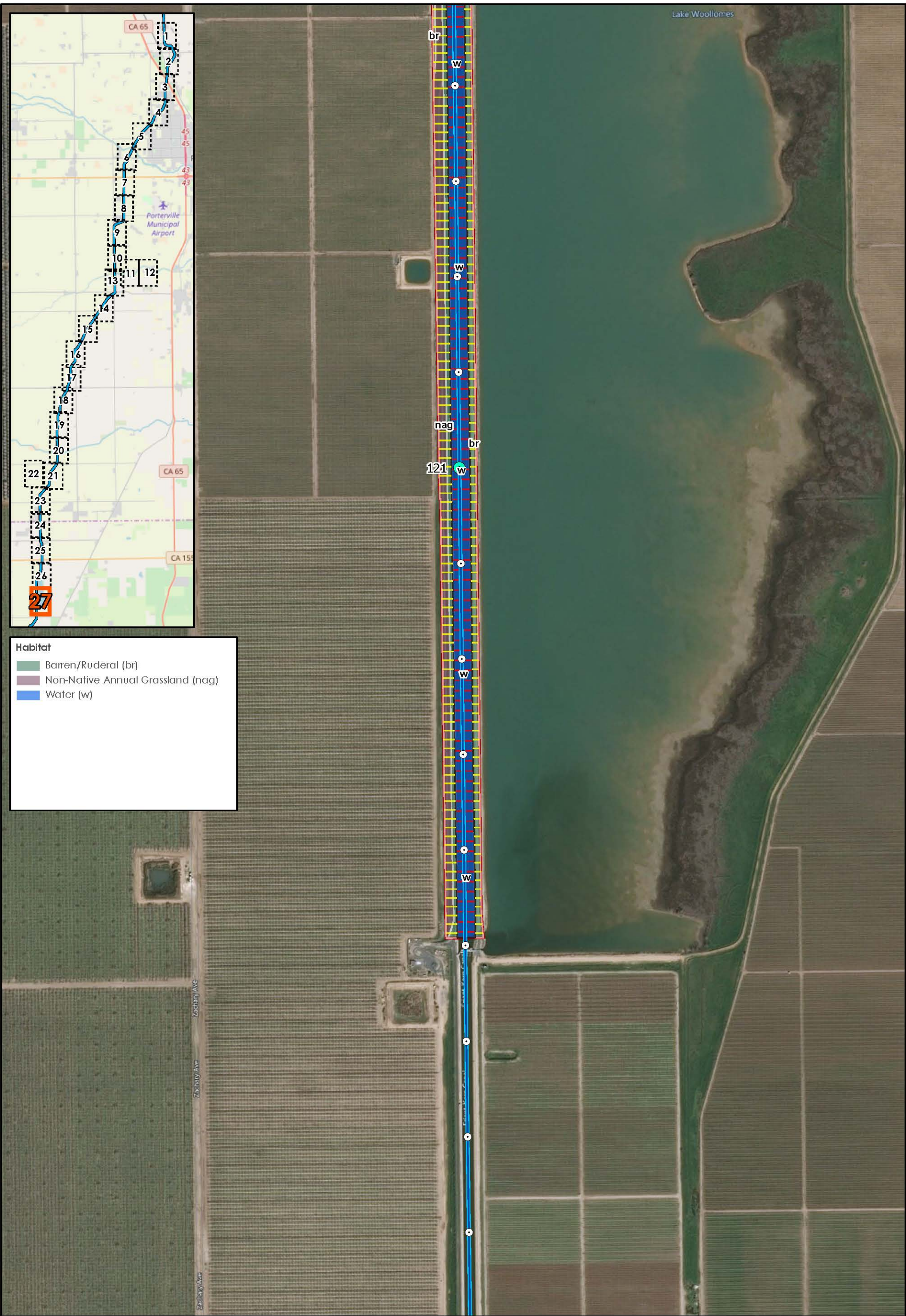


Habitat

Barren/Ruderal (br)

Non-Native Annual Grassland (nag)

Water (w)



FRIANT-KERN CANAL MIDDLE REACH CAPACITY CORRECTION PROJECT

Canal Enlargement Alternative

- Project Area
- Proposed Canal Enlargement Centerline
- Potential Impacts
- No Impact
- Permanent
- Temporary
- Mile Post
- Tenth-of-Mile

Figure No.
6A1

Date:
Mar 04, 2020

Title
Impacts by Habitat

Project Location
Tulare and Kern Counties, CA
7.5' USGS Quadrangles
Porterville, California (1971)
Sausalito School, California (1971)
Ducor, California (1972)

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