Appendix L

Biological Resources Documented at Battle Creek Project Sites

This new appendix presents biological resources that were documented at two new sites (Jeffcoat and Willow Springs mitigation sites), as well as new biological information documented at the Asbury Diversion Dam project site. The new information presented in this appendix does not necessarily require recirculation for public comment. However, Reclamation and the State Water Board have deemed that the new information presented in this appendix supports significant new information presented in this Draft SEIS/REIR (see Impact 4.1-8 in Section 4.1, Fish, of this document). As a result, the lead agencies have included this appendix here for public comment. The complete new appendix will be presented in the Final EIS/EIR.

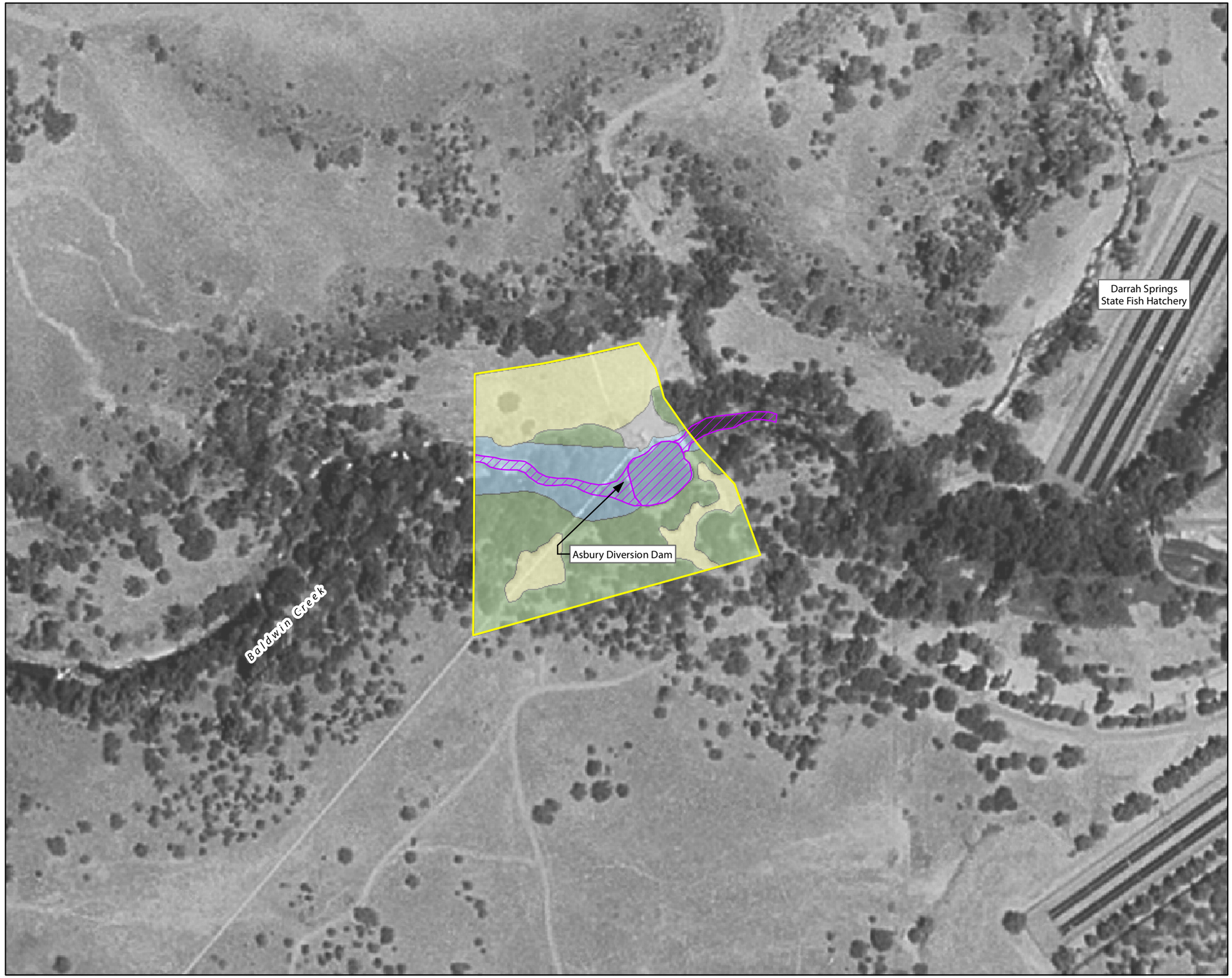

FIGURE L-10

BIOLOGICAL RESOURCES

BATTLE CREEK SALMON AND STEELHEAD RESTORATION PROJECT

ASBURY PUMP HOUSE AND DIVERSION DAM

- ANNUAL GRASSLAND
- LIVE OAK WOODLANDS
- OTHER WATERS OF THE U.S.
- DEVELOPED
- POTENTIAL CALIFORNIA RED-LEGGED FROG HABITAT
- STUDY AREA BOUNDARY

TYPE	AREA (ACRES)
ANNUAL GRASSLANDS	1.71
LIVE OAK WOODLANDS	2.43
OTHER WATERS OF THE U.S.	1.28
TOTAL AREA AFFECTED	5.42

N

200 0 200 Feet

1 inch equals 200 feet

SOURCE: USGS DOQQ 1998

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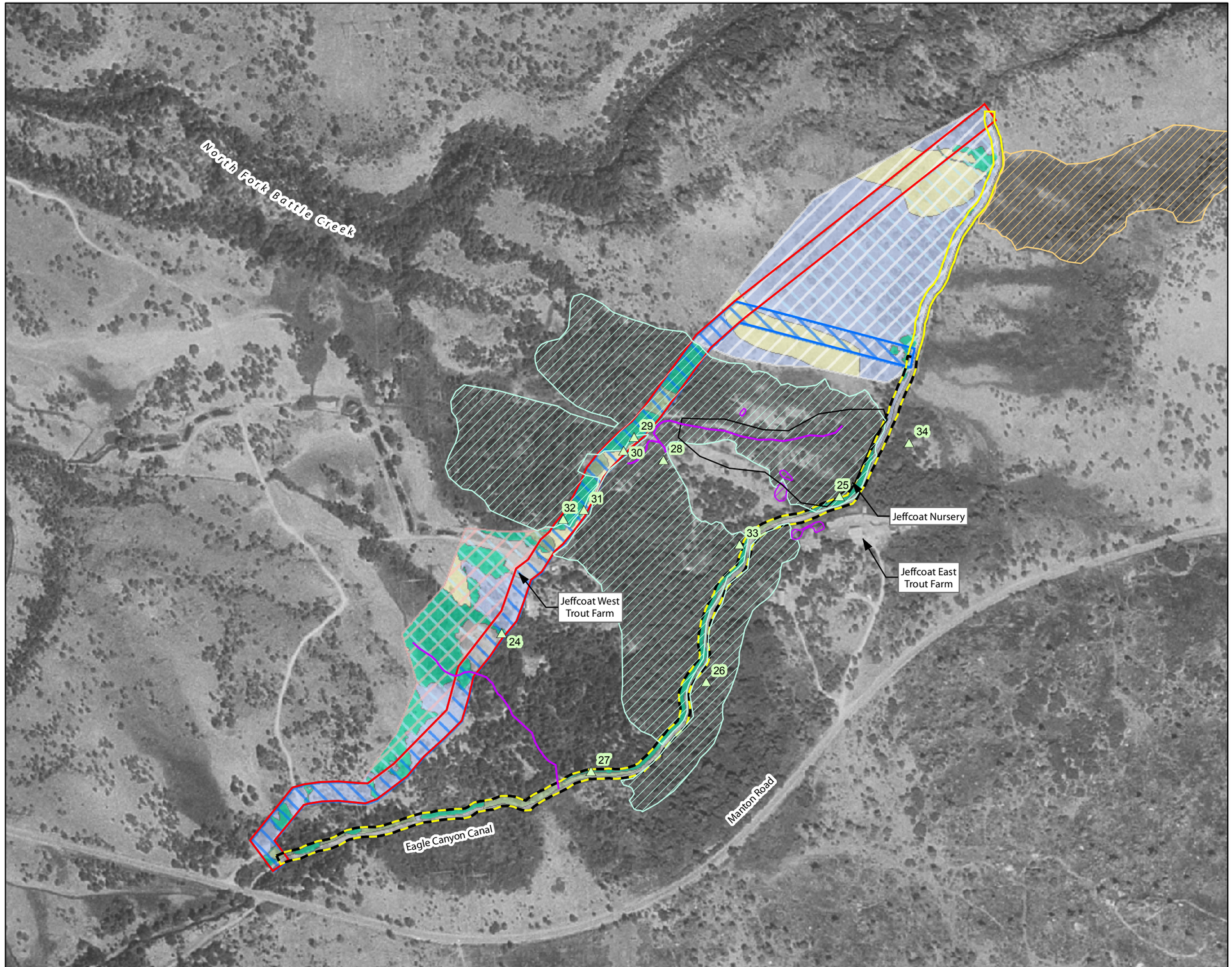

FIGURE L-11

BIOLOGICAL RESOURCES

BATTLE CREEK SALMON AND STEELHEAD RESTORATION PROJECT

JEFFCOAT MITIGATION SITE

HABITAT TYPES

- ANNUAL GRASSLANDS
- BLUE OAK WOODLANDS / SAVANNA
- LIVE OAK WOODLANDS
- WETLANDS
- OTHER WATERS OF THE U.S.
- DEVELOPED

BIOLOGICAL RESOURCES

- POTENTIAL CALIFORNIA RED-LEGGED FROG HABITAT
- ELDERBERRY SHRUBS
- CALIFORNIA BLACK RAIL POTENTIAL HABITAT
- YELLOW-BREASTED CHAT POTENTIAL HABITAT

CONSTRUCTION BOUNDARIES

- PROPOSED ALTERNATIVE A
- PROPOSED ALTERNATIVE B
- ALTERNATIVE C
- ALTERNATIVE D
- POTENTIALLY AFFECTED BY ALTERNATIVE A
- POTENTIALLY AFFECTED BY ALTERNATIVE B
- POTENTIAL STAGING AREA

	AREA (ACRES)[1]	
HABITAT TYPE	ALT. A[2]	ALT. B[2]
ANNUAL GRASSLANDS	4.31	4.31
BLUE OAK WOODLANDS / SAVANNA	14.13	14.12
LIVE OAK WOODLANDS	0.47	0.47
WETLANDS	2.16	2.16
OTHER WATERS OF THE U.S.	0.01	0.01
TOTAL AREA AFFECTED	**21.08**	**21.07**
HABITAT TYPE	ALT. C	ALT. D
ANNUAL GRASSLANDS	3.91	3.91
BLUE OAK WOODLANDS / SAVANNA	12.21	12.10
LIVE OAK WOODLANDS	0.55	0.55
WETLANDS	1.41	1.41
OTHER WATERS OF THE U.S.	0.67	0.52
TOTAL AREA AFFECTED	**18.75**	**18.49**

N

400 0 400 Feet

1 inch equals 400 feet

SOURCE: USGS DOQQ 1998

NOTES: [1] ACREAGE CALCULATIONS FOR EACH ALTERNATIVE INCLUDE THE ENTIRE POTENTIAL STAGING AREA; HOWEVER, THE FINAL STAGING AREA IS EXPECTED TO COVER ONLY 3 ACRES OF THE CROSS-HATCHED AREA

[2] ACREAGES WERE BASED ON THE PROPOSED ALIGNMENTS FOR ALTERNATIVES A AND B; HOWEVER, THE ACTUAL ALIGNMENT(S) COULD POTENTIALLY OCCUR IN AND AFFECT HABITAT ANYWHERE WITHIN THE CROSS-HATCHED AREA IDENTIFIED AS "POTENTIALLY AFFECTED BY ALTERNATIVE A/B"

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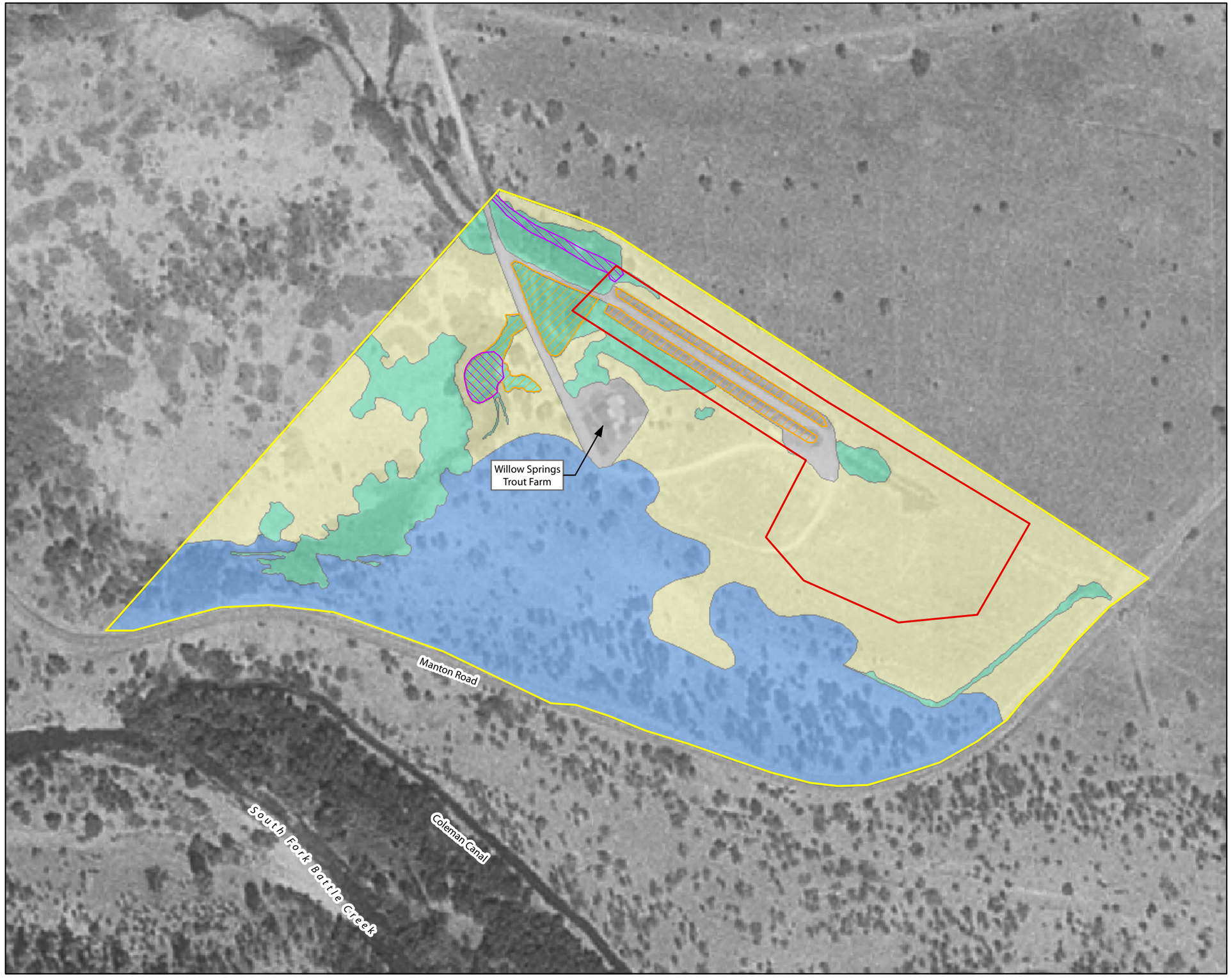

FIGURE L-12

BIOLOGICAL RESOURCES

BATTLE CREEK SALMON AND STEELHEAD RESTORATION PROJECT

WILLOW SPRINGS MITIGATION SITE

OPTION A—WATER TREATMENT FACILITY

- ANNUAL GRASSLAND
- BLUE OAK WOODLANDS / SAVANNA
- WETLANDS
- DEVELOPED
- POTENTIAL CALIFORNIA RED-LEGGED FROG HABITAT
- POTENTIAL CALIFORNIA BLACK RAIL HABITAT
- CONSTRUCTION BOUNDARY
- STUDY AREA BOUNDARY

TYPE	AREA (ACRES)[1]
ANNUAL GRASSLANDS	3.51
WETLANDS	0.45
TOTAL AREA AFFECTED	3.96

N

200 0 200 Feet

1 inch equals 200 feet

SOURCE: USGS DOQQ 1998

NOTES: [1] AREA AFFECTED WITHIN THE CONSTRUCTION BOUNDARY

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