

## CONTENTS

3	AFFECTED ENVIRONMENT, ENVIRONMENTAL CONSEQUENCES, AND MITIGATION MEASURES	
3.7	Biological and Aquatic Resources .....	3.7-1
3.7.4	Consultation with Regulatory Agencies for Federal Endangered Species Act Compliance .....	3.7-1
3.7.5	Methods for Evaluating Impacts.....	3.7-2
3.7.6	Affected Environment .....	3.7-4
3.7.7	Environmental Consequences .....	3.7-7
3.7.8	Mitigation Measures.....	3.7-21
3.7.9	Impact Summary for NEPA Comparison of Alternatives.....	3.7-29
3.7.10	CEQA Significance Conclusions.....	3.7-36
3.19	Cumulative impacts .....	3.19-1
3.19.6	Cumulative Impacts Analysis .....	3.19-1
12	REFERENCES.....	12-1
	Section 3.7, Biological and Aquatic Resources.....	12-1
	Section 3.19, Cumulative Impacts.....	12-2

## APPENDICES

Appendix 3.7-A, Special-Status Species Subject to Project Impacts	
Appendix 3.7-D, Supplemental Species Habitat Model Descriptions	
Appendix 3.7-E, Supplemental Noise Analysis on Terrestrial Wildlife Species	
Appendix 3.7-F, Supplemental Artificial Light Analysis on Terrestrial Wildlife Species	

## TABLES

Table 3.7-13 Direct Impacts on Special-Status Wildlife Species Habitat by Project Alternative (acres) .....	3.7-8
Table 3.7-24 Mitigation Measures for Impacts on Biological and Aquatic Resources by Alternative .....	3.7-21
Table 3.7-26 Comparison of Project Alternative Impacts for Biological and Aquatic Resources (acres).....	3.7-30
Table 3.7-27 CEQA Significance Conclusions and Mitigation Measures for Biological and Aquatic Resources.....	3.7-37

## ACRONYMS AND ABBREVIATIONS

ALAN	artificial light at night
Authority	California High-Speed Rail Authority
BA	biological assessment
BMP	best management practice
Caltrans	California Department of Transportation
CC-C	central coast central
CC-N	central coast north
CDFW	California Department of Fish and Wildlife
CEQA	California Environmental Quality Act
CESA	California Endangered Species Act
C.F.R.	Code of Federal Regulations
CMP	compensatory mitigation plan
CROS	California Roadkill Observation System
CRPR	California Rare Plant Rank
CVJV	Central Valley Joint Venture
CWA	Clean Water Act
dBA	A-weighted decibel
EFH	essential fish habitat
EIR	environmental impact report
EIS	environmental impact statement
ESA	environmentally sensitive area
ESU	evolutionarily significant unit
FAST Act	Fixing America's Surface Transportation Act
FESA	federal Endangered Species Act
FRA	Federal Railroad Administration
GAMMP	groundwater adaptive management and monitoring plan
GEA	Grasslands Ecological Area
GIS	geographic information system
GPS	global positioning system
HSR	high-speed rail
I-	Interstate
IAMF	impact avoidance and minimization feature
IBA	National Audubon Society's Important Bird Area
MOWF	maintenance of way facility
mph	miles per hour

NEPA	National Environmental Policy Act
NMFS	National Marine Fisheries Service
OCS	overhead contact system
O&M	operations and maintenance
OSHA	Occupational Safety and Health Administration
project, project extent	San Jose to Central Valley Wye Project Extent
RRP	restoration and revegetation plan
RSA	resource study area
SCVHA	Santa Clara Valley Habitat Agency
SCVOSA	Santa Clara Valley Open Space Authority
SR	State Route
TCE	temporary construction easement
UPR	Upper Pajaro River
UPRR	Union Pacific Railroad
U.S.C.	United States Code
USFWS	U.S. Fish and Wildlife Service
VCP	vegetation control plan
WCA	Wildlife Corridor Assessment
WCP	weed control plan
WEAP	worker environmental awareness program
WEF	wildlife exclusion fencing