TABLE OF CONTENTS

Chapter **Page**

ACRONYMS AND ABBREVIATIONS vi

1.0 INTRODUCTION 1-1
1.1 Type and Purpose of the Draft Environmental Impact Report 1-1
1.2 Scope of the EIR and Effects Found Not to be Significant 1-1
1.3 Definition of Baseline 1-4
1.4 Significance Criteria 1-4
1.5 Project Background and History 1-4
1.6 Definition of Terms 1-6
1.7 Project Review and CEQA Process 1-7

2.0 EXECUTIVE SUMMARY 2-1
2.1 Summary Description of the Proposed Project and Alternatives 2-1
2.2 Alternatives to the Proposed Project 2-4
2.3 Environmental Impacts and Mitigation 2-6

3.0 PROJECT DESCRIPTION 3-1
3.1 Project Location 3-1
3.2 Characteristics of the Project Area 3-1
3.3 Project Objectives 3-1
3.4 Description of the Proposed Project 3-5
3.5 Uses Not Addressed in this EIR 3-11
3.6 Trail and Facility Construction 3-12
3.7 Long-term Maintenance 3-13
3.8 Ongoing Management Activities 3-13
3.9 Intended Uses of this EIR 3-15

4.0 LAND USE AND AGRICULTURAL RESOURCES 4-1
4.1 Environmental Setting 4-1
4.2 Regulatory Setting 4-5
4.3 Impacts 4-9
4.4 Mitigation Measures 4-15

5.0 SOILS, GEOLOGY, AND SEISMICITY 5-1
5.1 Environmental Setting 5-1
5.2 Regulatory Setting 5-8
5.3 Impacts 5-11
5.4 Mitigation Measures 5-16

6.0 CULTURAL RESOURCES 6-1
6.1 Existing Conditions 6-1
6.2 Regulatory Setting 6-13
6.3 Impacts 6-16
6.4 Mitigation Measures 6-20

TABLE OF CONTENTS

Chapter **Page**

7.0 VISUAL RESOURCES 7-1
7.1 Environmental Setting 7-1
7.2 Regulatory Setting 7-11
7.3 Impacts 7-12
7.4 Mitigation Measures 7-17

8.0 TRANSPORTATION AND CIRCULATION 8-1
8.1 Environmental Setting 8-1
8.2 Regulatory Setting 8-4
8.3 Impacts 8-5
8.4 Mitigation Measures 8-12

9.0 AIR QUALITY 9-1
9.1 Environmental Setting 9-1
9.2 Regulatory Setting 9-12
9.3 Impacts 9-23
9.4 Mitigation Measures 9-32

10.0 NOISE 10-1
10.1 Environmental Setting 10-1
10.2 Regulatory Setting 10-9
10.3 Impacts 10-14
10.4 Mitigation Measures 10-21

11.0 HYDROLOGY AND WATER QUALITY 11-1
11.1 Environmental Setting 11-1
11.2 Regulatory Setting 11-4
11.3 Impacts 11-8
11.4 Mitigation Measures 11-13

12.0 BIOLOGICAL RESOURCES 12-1
12.1 Environmental Setting 12-1
12.2 Regulatory Setting 12-21
12.3 Impacts 12-25
12.4 Mitigation Measures 12-32

13.0 PUBLIC SERVICES AND UTILITIES 13-1
13.1 Environmental Setting 13-1
13.2 Regulatory Setting 13-2
13.3 Impacts 13-4
13.4 Mitigation Measures 13-9

14.0 HAZARDOUS MATERIALS AND HAZARDS 14-1
14.1 Environmental Setting 14-1
14.2 Regulatory Setting 14-2
14.3 Impacts 14-5
14.4 Mitigation Measures 14-9

TABLE OF CONTENTS

Chapter **Page**

15.0 OTHER CEQA-REQUIRED SECTIONS 15-1
15.1 Alternatives 15-1
15.2 Significant Environmental Effects that Cannot be Avoided 15-14
15.3 Significant Irreversible Environmental Changes 15-16
15.4 Growth-Inducing Effects 15-16
15.5 Cumulative Impacts 15-17

16.0 REPORT PREPARERS 16-1
16.1 Placer County, Department of Facility Services 16-1
16.2 EDAW, Inc — Prime Consultant 16-1
16.3 Kd Anderson—Traffic Engineering Consultant 16-1
16.4 Psomas—Civil Engineering Subconsultant 16-1

17.0 REFERENCES AND PERSONS CONSULTED 17-1
17.1 References 17-1
17.2 Persons Consulted 17-14

Appendices

A Notice of Preparation
B Traffic Report
C Traffic Safety Report
D Air Quality
E Noise Modeling
F Water Demand Calculation Report
G Rare Plant Survey
H Special-Status Wildlife Species with the Potential to Occur in the Hidden Falls Project Area and its Vicinity

Exhibits

3-1 Vicinity Map 3-2
3-2 Project Location Map 3-3
3-3 Big Hill Area Conservation Areas 3-4
3-4 Proposed Hidden Falls Park Features 3-6

4-1 Land Use Designations in the Project Vicinity 4-2
4-2 Zoning Designations in the Project Vicinity 4-4
4-3 Farmland Map 4-7
4-4 Williamson Act Contract Map 4-8

5-1 Project Area Topography 5-2
5-2 Soil Types in the Project Area 5-4

TABLE OF CONTENTS

Chapter **Page**

Exhibits - *Continued*

7-1a View of Surrounding Areas to the West from the Existing Ranch House 7-2
7-1b View of Surrounding Areas to the South from the Existing Ranch House 7-2
7-2 Nearby Ridgetop Home with Views into the Project Area 7-3
7-3 Key Observation Points Location Map 7-4
7-4 Simulated View of Facility Development Zone – View Looking Southeast from Key Observation Point 1 7-5
7-5 Simulated View of Facility Development Zone – View Looking Northeast from Key Observation Point 2 7-5
7-6 Simulated View of Facility Development Zone – View Looking North from Key Observation Point 3 7-6
7-7 Simulated View of Facility Development Zone – View Looking North from Key Observation Point 4 7-6
7-8 Simulated View of Facility Development Zone – View Looking Northwest from Key Observation Point 5 7-7
7-9 Simulated View of Facility Development Zone – View Looking Northwest from Key Observation Point 6 7-7
7-10 Simulated View of Facility Development Zone – View Looking West from Key Observation Point 7 7-8
7-11 Simulated View of Facility Development Zone – View Looking Southwest from Key Observation Point 8 7-8
7-12 Simulated View of Facility Development Zone – View Looking Southwest from Key Observation Point 9 7-9
7-13 Simulated View of Facility Development Zone – View Looking Southeast from Key Observation Point 10 7-9
7-14 Simulated View of Facility Development Zone – View Looking Southwest from Key Observation Point 11 7-10

8-1 Roadways in the Project Vicinity 8-2

10-1 Sound Wave Properties 10-1
10-2 Typical Noise Levels 10-3
10-3 Ambient Noise Measurement Locations 10-8

11-1 Watershed Hydrology Topo Map 11-2

12-1a Vegetation Communities within the Spears Ranch Property 12-3
12-1b Vegetation Communities Along Garden Bar Road and Access Road 12-5
12-2 Location of Brandegee's Clarkia and Sierra Monardella in the Spears Ranch Property 12-13

15-1 Potential Adjoining Projects WP: this needs to be replaced 15-19
15-2 Daily Traffic Volumes without Proposed Project 15-24
15-3 Daily Traffic Volumes Year 2027 plus Proposed Project 15-25

TABLE OF CONTENTS

Chapter **Page**

Tables

1-1 Hidden Falls Trail Forum Members and Affiliations 1-5

2-1 Summary of Access Phasing 2-3
2-2 Summary of Environmental Impacts and Mitigation Measures 2-7

3-1 Summary of Park Access Phasing 3-8
3-2 Agency Roles and Responsibilities 3-15

5-1 Regional Fault Activity 5-6
5-2 Soil Grading Amounts by Facility Type 5-13

6-1 Native American Contacts Provided by the Native American Heritage Commission 6-8
6-2 Cultural Resources Documented during the Cultural Resources Surveys 6-9
6-3 Preliminary NRHP/CRHR Resource Eligibility 6-17

8-1 Existing Daily Traffic Volumes and Levels of Service 8-3
8-2 Existing Intersection Levels of Service 8-3
8-3 Level of Service Definitions 8-4
8-4 Trip Generation Forecast 8-9
8-5 Existing plus Project Peak Hourly Intersection Levels of Service 8-9
8-6 Existing plus Project Daily Traffic Volumes and Levels of Service 8-10

9-1 Summary of Annual Ambient Air Quality Data (2004–2006) 9-6
9-2 Summary of Ambient Air Quality Standards and Western Placer County Designations 9-7
9-3 Summary of Modeled Short-Term Daily Emissions of Criteria Air Pollutants and Precursors Associated with Project Construction (Unmitigated) 9-27
9-4 Summary of Modeled Long-Term Emissions Associated with Project Operation 9-29

10-1 Subjective Reaction to Changes in Noise Levels of Similar Sources 10-4
10-2 Human Response to Different Levels of Groundborne Vibration 10-6
10-3 Existing Ambient Noise Levels 10-7
10-4 Summary of Modeled Existing Vehicular Traffic Noise Levels 10-9
10-5 State Noise Compatibility Guidelines, by Land Use Category 10-10
10-6 Allowable L_{dn} Noise Levels Within Specified Zone Districts Applicable to New Projects Affected by or Including Nontransportation Noise Sources 10-11
10-7 Maximum Allowable Noise Exposure for Transportation Noise Sources 10-13
10-8 On-Site Sound Level Standards in the Placer County Noise Ordinance 10-14
10-9 Typical Construction-Equipment Noise Levels 10-16
10-10 Comparison of Modeled Existing and Existing Plus Project Vehicular Traffic Noise Levels 10-19
10-11 Typical Vibration Levels of Construction Equipment 10-20
10-12 Comparison of Modeled Existing and Existing Plus Project Plus Mitigation Measure 10-1 Vehicular Traffic Noise Levels 10-21

TABLE OF CONTENTS

Chapter **Page**

Tables - *Continued*

12-1 Fish Present in Coon Creek and the ESC/NCC 12-8
12-2 Fish Sampling Results From Coon Creek (Spring 2005) 12-9
12-3 Special-Status Plants Known or Potentially Occurring in the Project Area 12-12
12-4 Special-Status Fish and Wildlife Species with Potential to Occur in the Project Area 12-17

15-1 Summary of Alternatives Analysis 15-15
15-2 Background Traffic Growth 15-22
15-3 Year 2027 Cumulative Daily Traffic Volumes and Levels of Service 15-23
15-4 Cumulative (Year 2027) Intersection LOS 15-23
15-5 Comparison of Modeled Cumulative and Cumulative Plus Project Vehicular Traffic Noise Levels ... 15-28

ACRONYMS AND ABBREVIATIONS

40 CFR	Title 40 of the Code of Federal Regulations
AATCM	Airborne Toxic Control Measure
AB	Assembly Bill
ADT	average daily traffic
AG	Agriculture
APCO	Air Pollution Control Officer
AQAP	*Air Quality Attainment Plan*
AQMDs	air quality management districts
ARB	California Air Resources Board
ASTM	American Society for Testing and Materials
ATCM	airborne toxics control measure
-B	Building Site
BACT	best available control technology for toxics
Basin Plans	water quality control plans
BMP	best management practice
BOD	biochemical oxygen demand
CAA	federal Clean Air Act
CAAA	federal Clean Air Act Amendments of 1990
CAAQS	California ambient air quality standards
Cal/OSHA	California Department of Industrial Relations, Division of Occupational Safety and Health Administration
Caltrans	California Department of Transportation
CBC	California Building Code

CCAA	California Clean Air Act
CCR	California Code of Regulations
CDF	California Department of Forestry and Fire Protection
CEQA	California Environmental Quality Act
CERCLA	Comprehensive Environmental Response, Compensation, and Liability Act of 1980
CESA	California Endangered Species Act
CFR	Code of Federal Regulations
CH_4	methane
CHABA	Committee of Hearing, Bio Acoustics, and Bio Mechanics
CNDDB	California Natural Diversity Database
CNEL	Community Noise Equivalent Level
CNPS	California Native Plant Society
CO	carbon monoxide
CO_2	carbon dioxide
CO_2e	CO_2 equivalent
County	Placer County
CWA	Clean Water Act
dB	decibels
dBA	A-weighted decibels
dBA/DD	dBA per doubling of distance
dbh	diameter at breast height
DEIR	draft environmental impact report
Delta	Sacramento–San Joaquin Delta
DFG	Department of Fish and Game
DHS	Department of Health Services
DOC	California Department of Conservation
DPS	distinct population segment
DTSC	Department of Toxic Substances Control
DWR	Department of Water Resources
eastbound	EB
EFH	essential fish habitat
EIR	environmental impact report
EPA	U.S. Environmental Protection Agency
ESA	Endangered Species Act of 1973
ESC	East Side Canal
ESU	evolutionary significant unit
F	Farm
FEMA	Federal Emergency Management Agency
FHWA	Federal Highway Administration
FHWA-RD-77-108	Traffic Noise Prediction Model
FMMP	Farmland Mapping and Monitoring Program
FTA	Federal Transit Administration

General Plan	Placer County General Plan
GHGs	greenhouse gases
GIS	geographic information system
GLO	General Land Office
GWP	global warming potential
HAPs	hazardous air pollutants
HEPA	High Efficiency Particulate Air
Hz	Hertz
in/sec	inches per second
KOPs	Key observation points
lb/day	pounds per day
L_{dn}	Day-Night Noise Level
L_{eq}	Equivalent Noise Level
LESA	Land Evaluation Site Assessment
L_{max}	Maximum Noise Level
L_{min}	Minimum Noise Level
LOS	level of service
L_X	Statistical Descriptor
M	magnitude
MACT	maximum available control technology for toxics
MCL	Maximum contaminant level
mgd	million gallons per day
MLD	Most Likely Descendant
MPN/100 ml	Most Probable Number per 100 milliliters
Mw	Moment Magnitude
N_2O	nitrous oxide
NAAQS	national ambient air quality standards
NAHC	Native American Heritage Commission
NB	northbound
NCC	Natomas Cross Canal
NCIC	North Central Information Center
NEHRP	National Earthquake Hazards Reduction Program
NEHRPA	National Earthquake Hazards Reduction Program Act
NESHAP	national emissions standards for HAP
NID	Nevada Irrigation District
NMFS	National Marine Fisheries Service
NO	nitric oxide
NO_2	nitrogen dioxide
NOP	notice of preparation
NO_X	oxides of nitrogen

NPDES	National Pollutant Discharge Elimination System
NRCS	Natural Resources Conservation Service
NRHP	National Register of Historic Places
OAP	*Ozone Attainment Plan*
^{o}F	Fahrenheit
OSHA	Occupational Safety and Health Administration
ozone	photochemical smog
PAH	polycyclic aromatic hydrocarbons
Park	Hidden Falls Regional Park
PCAPCD	Placer County Air Pollution Control District
PCCP	Placer County Conservation Plan
PCEHD	Placer County Environmental Health Division
PG&E	Pacific Gas and Electric Company
Placer Legacy Program	Placer Legacy Open Space and Agricultural Preservation Program
PM_{10}	respirable particulate matter
$PM_{2.5}$	Fine particulate matter
Porter-Cologne Act	Porter-Cologne Water Quality Control Act
ppm	part per million
PPV	peak particle velocity
PRC	Public Resources Code
proposed project, or project	Hidden Falls Regional Park Project
RCRA	Resource Conservation and Recovery Act of 1976
RMS	root mean square
ROG	reactive organic gases
RWD	report of waste discharge
RWQCB	Regional Water Quality Control Board
SARA	Superfund Amendments and Reauthorization Act
SB	Senate Bill
SENL	Single Event [Impulsive] Noise Level
SFNA	Sacramento Federal Nonattainment Area
SIP	state implementation plan
SO_2	sulfur dioxide
southbound	SB
SO_X	oxides of sulfur
SR	State Route
SRA	Shaded riverine aquatic
SVAB	Sacramento Valley Air Basin
SWRCB	State Water Resources Control Board
T	Timberland
TAC	toxic air contaminant
TAG	Trail Advisory Group

TCM	transportation control measure
tpy	tons per year
TSS	total suspended solids
USACE	U.S. Army Corps of Engineers
USFWS	U.S. Fish and Wildlife Service
USGS	U.S. Geological Survey
VdB	velocity decibels
VMT	vehicle miles traveled
VOC	volatile organic carbon
WDR	Waste Discharge Requirements
WWTP	Wastewater Treatment Plant
$\mu g/m^3$	micrograms per cubic meter
µin/sec	microinch per second