

## TABLE OF CONTENTS

Table of Contents.....	i
Abbreviations and Acronyms .....	ix
Units of Measure and Abbreviations .....	xiii
CHAPTER 1: PURPOSE OF AND NEED FOR ACTION.....	1-1
1.1 Overview.....	1-1
1.2 Location .....	1-2
1.3 Background .....	1-2
1.4 Proposed Action and USFS Decisions to be Made.....	1-8
1.4.1 Proposed Action.....	1-8
1.5 Purpose and Need for Action.....	1-10
1.6 Decision Framework.....	1-10
1.7 Scope.....	1-10
1.8 Relationship to Other Acts, Regulations, Permits and Plans .....	1-11
1.8.1 <i>Alaska National Interest Lands Conservation Act</i> and 36 CFR Part 251 Subpart D .....	1-11
1.8.2 <i>Clean Air Act</i> of 1970, as amended .....	1-12
1.8.3 <i>Clean Water Act</i> of 1972, as amended and State Requirements .....	1-13
1.8.4 Colorado Department of Transportation.....	1-13
1.8.5 <i>Endangered Species Act</i> of 1973, as amended.....	1-14
1.8.6 Forest Plan .....	1-14
1.8.7 Mineral County Requirements .....	1-15
1.8.8 <i>National Historic Preservation Act</i> of 1966, as amended.....	1-16
1.8.9 Ski Area Special Use Permit and the Wolf Creek Ski Corporation Master Development Plan .....	1-16
1.9 Public Involvement Including Interagency Cooperation .....	1-17
1.9.1 Scoping Process .....	1-17
1.10 Key Issues .....	1-22
1.11 Coordination with Agencies and Other Organizations .....	1-25
1.12 Other Environmental Considerations.....	1-25
1.13 Issues Beyond the Scope of this EIS.....	1-26
CHAPTER 2: PROPOSED ACTION AND ALTERNATIVES .....	2-1
2.1 Overview.....	2-1
2.2 Alternative 1 – No Action Alternative.....	2-1
2.2.1 Access Road.....	2-1
2.2.2 Utility Corridors.....	2-3
2.3 Alternative 2 – Proposed Action.....	2-3
2.3.1 Access Road.....	2-5
2.3.2 Utility Corridors.....	2-5
2.4 Alternative 3 – Snow Shed-East Village Access Alternative .....	2-6
2.4.1 Access Road.....	2-6

2.4.2	Utility Corridors.....	2-6
2.5	Alternative 4 – Dual Access Road Alternative .....	2-6
2.5.1	Access Roads .....	2-8
2.5.2	Utility Corridors.....	2-8
2.6	Alternatives Considered but Eliminated from Detailed Consideration.....	2-10
2.6.1	Improved Forest System Road 391 Access Alternative ...	2-10
2.6.2	Snow Shed-West Village Access Alternative.....	2-10
2.6.3	Private Property Land Trade Alternative .....	2-11
2.6.4	Realignment of Forest System Road 391.....	2-11
2.7	Project Design Criteria Common to All Action Alternatives .....	2-11
2.8	Mitigation Measures and Monitoring Requirements .....	2-11
2.8.1	Mitigation Measures .....	2-11
2.8.2	Monitoring Requirements .....	2-14
2.9	Identification of the Preferred Alternative .....	2-14
2.10	Potential Development of the Village at Wolf Creek .....	2-15
2.11	Reasonably Foreseeable Projects that May Contribute to Cumulative Effects .....	2-18
2.12	Comparison of Alternatives Summary.....	2-20
CHAPTER 3: AFFECTED ENVIRONMENT .....		
3.1	Surface Water.....	3-1
3.1.1	Hydrologic Function .....	3-1
3.1.2	Riparian Areas .....	3-2
3.1.3	Sediment Control .....	3-4
3.2	Groundwater .....	3-5
3.3	Water Rights and Use .....	3-6
3.4	Vegetation Communities .....	3-7
3.4.1	Existing Conditions.....	3-7
3.5	Animal Communities .....	3-17
3.5.1	General Fish and Wildlife.....	3-17
3.5.2	Management Indicator Species .....	3-18
3.5.3	Region 2 Sensitive Animal Species .....	3-57
3.5.4	Threatened, Endangered, and Candidate Animal Species .....	3-71
3.5.5	Migratory Birds.....	3-94
3.6	Land Tenure and Use .....	3-97
3.6.1	Affected Environment.....	3-97
3.7	Scenic Resources (USFS Scenery Management System).....	3-98
3.7.1	Affected Environment.....	3-102
3.8	Recreation Resources.....	3-106
3.8.1	Lands Within and Directly Adjacent to the Proposed Access Road and Utility Corridors .....	3-106
3.8.2	Wolf Creek Ski Area.....	3-111
3.8.3	Lands Adjacent to the Private Property .....	3-112
3.9	Traffic and Transportation .....	3-113

3.10	Cultural Resources .....	3-115
3.10.1	Cultural Resource Types.....	3-115
3.10.2	Significance of Cultural Resources.....	3-115
3.10.3	Tribal Consultation .....	3-116
3.10.4	Definition of the Region of Influence.....	3-116
3.10.5	Results of Cultural Resource Inventories in the ROI.....	3-117
3.10.6	Results of Tribal Consultation .....	3-118
3.11	Social Environment.....	3-119
3.11.1	Population .....	3-119
3.11.2	Employment and Unemployment .....	3-121
3.11.3	Current Tourism Economic Impacts on the ROI .....	3-124
3.11.4	Personal Income.....	3-125
3.11.5	Government Finance.....	3-126
3.11.6	Housing.....	3-126
3.11.7	Quality of Life.....	3-127
3.12	Environmental Justice .....	3-133
3.12.1	Environmental Justice Affected Environment.....	3-133
3.13	Infrastructure and Utilities .....	3-135
3.14	Geology, Minerals and Soils.....	3-136
3.14.1	Geology and Minerals.....	3-136
3.14.2	Soils.....	3-137
3.15	Air Quality and Noise Environment .....	3-140
3.15.1	Climate.....	3-140
3.15.2	Air Quality .....	3-141
3.15.3	Noise .....	3-143
CHAPTER 4:	ENVIRONMENTAL CONSEQUENCES .....	4-1
4.1	Surface Water.....	4-1
4.1.1	Alternative 1 – No Action Alternative.....	4-1
4.1.2	Alternative 2 – Proposed Action.....	4-2
4.1.3	Alternative 3 – Snow Shed - East Village Access Alternative.....	4-4
4.1.4	Alternative 4 – Dual Access Road Alternative .....	4-7
4.2	Groundwater .....	4-9
4.2.1	Alternative 1 – No Action Alternative.....	4-9
4.2.2	Alternative 2 – Proposed Action.....	4-10
4.2.3	Alternative 3 – Snow Shed - East Village Access Alternative.....	4-11
4.2.4	Alternative 4 – Dual Access Road Alternative .....	4-11
4.3	Water Rights and Use .....	4-13
4.3.1	Alternative 1 – No Action Alternative.....	4-13
4.3.2	Alternative 2 – Proposed Action.....	4-13
4.3.3	Alternative 3 – Snow Shed - East Village Access Alternative.....	4-14
4.3.4	Alternative 4 – Dual Access Road Alternative .....	4-14
4.4	Vegetation Communities .....	4-16

4.4.1	Analyses Common to All Alternatives .....	4-16
4.4.2	Alternative 1 – No Action Alternative.....	4-16
4.4.3	Alternative 2 – Proposed Action.....	4-17
4.4.4	Alternative 3 – Snow Shed - East Village Access Alternative.....	4-19
4.4.5	Alternative 4 – Dual Access Road Alternative .....	4-20
4.5	Animal Communities .....	4-22
4.5.1	Analyses Common to All Alternatives .....	4-22
4.5.2	Consistency Review.....	4-22
4.5.3	Alternative 1 – No Action Alternative.....	4-22
4.5.4	Alternative 2 – Proposed Action.....	4-34
4.5.5	Alternative 3 – Snow Shed - East Village Access Alternative.....	4-46
4.5.6	Alternative 4 – Dual Access Road Alternative .....	4-56
4.6	Land Tenure and Use .....	4-67
4.6.1	Alternative 1 – No Action Alternative.....	4-67
4.6.2	Alternative 2 – Proposed Action.....	4-68
4.6.3	Alternative 3 – Snow Shed - East Village Access Alternative.....	4-69
4.6.4	Alternative 4 – Dual Access Road Alternative .....	4-69
4.7	Visual Resources.....	4-71
4.7.1	Alternative 1 – No Action Alternative.....	4-71
4.7.2	Alternative 2 – Proposed Action.....	4-72
4.7.3	Alternative 3 – Snow Shed - East Village Access Alternative.....	4-73
4.7.4	Alternative 4 – Dual Access Road Alternative and Adjacent Utility Corridors.....	4-74
4.8	Recreation Resources.....	4-76
4.8.1	Alternative 1 – No Action Alternative.....	4-77
4.8.2	Alternative 2 – Proposed Action.....	4-78
4.8.3	Alternative 3 – Snow Shed - East Village Access Alternative.....	4-79
4.8.4	Alternative 4 – Dual Access Road Alternative .....	4-80
4.9	Traffic and Transportation .....	4-82
4.9.1	Alternative 1 – No Action Alternative.....	4-82
4.9.2	Alternative 2 – Proposed Action.....	4-83
4.9.3	Alternative 3 – Snow Shed - East Village Access Alternative.....	4-85
4.9.4	Alternative 4 – Dual Access Road Alternative .....	4-86
4.10	Cultural Resources .....	4-88
4.10.1	Alternative 1 – No Action Alternative.....	4-88
4.10.2	Alternative 2 – Proposed Action.....	4-89
4.10.3	Alternative 3 – Snow Shed - East Village Access Alternative.....	4-89
4.10.4	Alternative 4 – Dual Access Road Alternative .....	4-90
4.11	Social Environment.....	4-91

4.11.1	Alternative 1 – No Action Alternative.....	4-91
4.11.2	Alternative 2 – Proposed Action.....	4-91
4.11.3	Alternative 3 – Snow Shed - East Village Access Road Alternative.....	4-92
4.11.4	Alternative 4 – Combination of the Alternative 2 and Alternative 3 Actions .....	4-92
4.11.5	USFS Cost Benefit Analysis.....	4-92
4.12	Environmental Justice .....	4-94
4.12.1	Alternative 1 – No Action Alternative.....	4-94
4.12.2	Alternative 2 – Proposed Action.....	4-94
4.12.3	Alternative 3 – Snow Shed - East Village Alternative .....	4-95
4.12.4	Alternative 4 – Dual Access Road Alternative .....	4-95
4.13	Infrastructure and Utilities .....	4-96
4.13.1	Alternative 1 – No Action Alternative.....	4-96
4.13.2	Alternative 2 – Proposed Action.....	4-96
4.13.3	Alternative 3 – Snow Shed - East Village Access Alternative.....	4-97
4.13.4	Alternative 4 – Dual Access Road Alternative .....	4-98
4.14	Geology, Soils and Minerals.....	4-99
4.14.1	Alternative 1 – No Action Alternative.....	4-99
4.14.2	Alternative 2 – Proposed Action.....	4-100
4.14.3	Alternative 3 – Snow Shed - East Village Access Alternative.....	4-101
4.14.4	Alternative 4 – Dual Access Road Alternative .....	4-102
4.15	Air Quality and Noise Environment .....	4-103
4.15.1	Alternative 1 – No Action Alternative.....	4-103
4.15.2	Alternative 2 – Proposed Action.....	4-104
4.15.3	Alternative 3 – Snow Shed - East Village Access Alternative.....	4-107
4.15.4	Alternative 4 – Dual Access Road Alternative .....	4-108
4.16	Unavoidable Adverse Impacts .....	4-110
4.17	Irreversible and Irretrievable Resource Commitments .....	4-111
4.18	Relationship Between Short-Term Use and Long-Term Productivity .....	4-113
4.19	Cumulative Impacts .....	4-114
4.19.1	Reasonable and Foreseeable Actions.....	4-114
4.19.2	Cumulative Impacts to Resource Areas .....	4-116
4.20	Key Issues .....	4-136
4.20.1	Adequate Access Across NFS Land for the Applicant to Secure the Reasonable Use and Enjoyment of the Village Property.....	4-136
4.20.2	Compatibility with the Wolf Creek Ski Area .....	4-137
4.20.3	Public Safety .....	4-139
4.20.4	Public Access to NFS Land .....	4-141
CHAPTER 5	LIST OF PREPARERS.....	5-1

CHAPTER 6:	LIST OF AGENCIES, ORGANIZATIONS AND PERSONS TO WHOM COPIES OF THE EIS ARE SENT.....	6-1
CHAPTER 7:	REFERENCES .....	7-1
CHAPTER 8:	INDEX .....	8-1
APPENDIX A:	DEVELOPMENT OF THE PRIVATE PROPERTY AT WOLF CREEK ..	A-1
APPENDIX B:	MINERAL COUNTY RESOLUTION #00-13 .....	B-1
APPENDIX C:	DESIGN CRITERIA .....	C-1

## **LIST OF TABLES**

Table 1.9-1	Total Number of Comments and Commentors for Each Concern Code .....	1-19
Table 2.12-1	Summary Comparison of Environmental Impacts of the Federal Action by Alternative.....	2-21
Table 2.12-2	Comparison Summary of Key Issue Effects by Alternative.....	2-23
Table 3.4-1	Cross Walk Defining Structure Class and Habitat Structural Stage as Used in the Ecological Analyses .....	3-9
Table 3.4-2	Structure Classes of Habitat Within the 1,871-acre Wolf Creek Village Project Area .....	3-10
Table 3.4-3	Pre-Field Checklist of USFS Region 2 (R2) Sensitive Species That are Potentially Present or that May be Potentially Affected by Activities on the Rio Grande National Forest .....	3-13
Table 3.5-1	Post-Hunt Elk Population Estimates for Data Analysis Units E-34, E-32, E-26, and E-11 .....	3-33
Table 3.5-2	Post-hunt Mule Deer Population Estimates for Data Analysis Units D-36, D-35, D-26, and D-37 on the RGNF.....	3-39
Table 3.5-3	Pre-Field Checklist of USFS Region 2 (R2) Sensitive Animal Species That Occur or that May Be Affected by Activities on the Rio Grande National Forest (RGNF) .....	3-58
Table 3.5-4	Pre-Field Checklist of Federally Listed Species that May Be Affected by the Proposed at Wolf Creek Village Alternatives 1-4, Rio Grande National Forest, Colorado .....	3-72
Table 3.5-5	Results of Winter Tracking Surveys on and around the Village at Wolf Creek (WCV) Project Area, and Some Other Colorado Ski Areas ....	3-82
Table 3.5-6	Environmental Baseline Status of Lynx Habitat in the 176,750-acre Trout-Handkerchief LAU (THLAU; LAU #20913).....	3-84
Table 3.5-7	Environmental Baseline Status of Lynx Habitat in the 57,011-Acre West Fork San Juan River Lynx Analysis Unit (WFSJRLAU; LAU #21316).....	3-85
Table 3.5-8	Environmental Baseline Status of Lynx Habitat in the 72,905-Acre East Fork San Juan River Lynx Analysis Unit (EFSJRLAU; LAU #21318).....	3-86
Table 3.5-9	Obstacles Along the Highway 160 Corridor Over Wolf Creek Pass that Would Likely Block or Deflect Lynx Movements, Resulting in Greater Latency Time on the Highway and Potentially Increasing Road-Kill Potential .....	3-88

Table 3.5-10	Summary of Field Validated Lynx Habitat Classifications for Polygons in the Trout-Handkerchief LAU Relevant to the Village at Wolf Creek Project Area .....	3-93
Table 3.5-11	USFWS Birds of Conservation Concern in the Southern Rockies Colorado Plateau Bird Conservation Region (BCR 16) that Occur on the RGNF and that are not Otherwise Addressed as MIS or Region 2 Sensitive Species ...	3-96
Table 3.7-1	Definitions of Terms and Corresponding Scenic Integrity Levels of the Scenery Management System .....	3-100
Table 3.8-1	Percentage of Types Terrain at the Wolf Creek Ski Area .....	3-111
Table 3.11-1	Total Population.....	3-120
Table 3.11-2	Percent Population Change .....	3-120
Table 3.11-3	Population Projections for the ROI Counties.....	3-120
Table 3.11-4	ROI Civilian Labor Force .....	3-121
Table 3.11-5	Employment by Industry (Number of Jobs) .....	3-123
Table 3.11-6	Tourist Direct Impacts on the ROI in Year 2000.....	3-124
Table 3.11-7	Tourist Direct and Indirect Impacts on the ROI in Year 2000 .....	3-125
Table 3.11-8	Per Capita Income of ROI, Colorado, and the United States.....	3-125
Table 3.11-9	ROI Revenue Sources .....	3-126
Table 3.11-10	2000 ROI Housing Stock .....	3-126
Table 3.11-11	Number of Housing Units Built, 1980-2000 .....	3-127
Table 3.11-12	Public Schools in the ROI .....	3-129
Table 3.11-13	2001–2002 School Year Public Education Inventory by School District .....	3-129
Table 3.11-14	Revenue by Source by District, 2001–2002 School Year .....	3-130
Table 3.11-15	Police Resources for the ROI .....	3-131
Table 3.11-16	Fire Protection Personnel for the ROI .....	3-131
Table 3.12-1	Minority or Low-income Population .....	3-134
Table 3.14-1	Description of Soils within the Permitted Ski Area.....	3-137
Table 3.15-1	National Ambient Air Quality Standards (NAAQS), Colorado Ambient Air Quality Standards (CAAQS), and Significant Monitoring Concentrations .....	3-142
Table 4.1-1	Applicable Standards for Federal Action.....	4-2
Table 4.2-1	Applicable Standards for Federal Action.....	4-9
Table 4.4-1	Acreage, Type, and Habitat Structural Stage to be Directly Affected on NFS Lands by Alternatives 1-4 at Wolf Creek Village .....	4-17
Table 4.4-2	Determination Summary of Village at Wolf Creek Alternative Effects on R2 Sensitive Plant Species Potentially Present on the RGNF .....	4-18
Table 4.5-1	Determination Summary of Wolf Creek Village Alternative Effects on R2 Sensitive Animal Species Potentially Present on the RGNF .....	4-26
Table 4.5-2	Determination Summary of Wolf Creek Village Alternative Effects on Federally Listed Species Potentially Present on the RGNF.....	4-31
Table 4.5-3	Acreage of Lynx Habitat Modifications on NFS Lands by Alternatives 1-4 at Wolf Creek Village .....	4-32
Table 4.5-4	Acreage and Percentage of Lynx Habitat Modifications on NFS and Private Village at Wolf Creek Lands by Alternatives 1-4 .....	4-32

Table 4.5-5	Updated Lynx Habitat Statistics in the 176,750-acre Trout-Handkerchief LAU (THLAU; LAU #20913) under implementation of Alternatives 1-4 at Wolf Creek Village .....	4-33
Table 4.6-1	Applicable Standards for Federal Action.....	4-67
Table 4.7-1	Applicable Standards for Federal Action.....	4-71
Table 4.8-1	Applicable Standards for Federal Action.....	4-76
Table 4.9-1	Applicable Standards for Federal Action.....	4-82
Table 4.10-1	Applicable Standards for Federal Action.....	4-88
Table 4.11-1	Comparison of PNV and B/C Ratios for Proposed Alternatives .....	4-93
Table 4.14-1	Applicable Standards for Federal Action.....	4-99
Table 4.15-1	Applicable Standards for Federal Action.....	4-103
Table 4.15-2	Peak and Attenuated Noise (in dba) Levels Expected from Operation of Construction Equipment .....	4-106

## **LIST OF FIGURES**

Figure 1.2-1	Location of Proposed Project Area .....	1-3
Figure 1.4-1	Existing Tranquility Road Under Construction .....	1-9
Figure 2.2-1	Alternative 1 Map for the Village at Wolf Creek .....	2-2
Figure 2.3-1	Alternative 2 Map for the Village at Wolf Creek .....	2-4
Figure 2.4-1	Alternative 3 Map for the Village at Wolf Creek .....	2-7
Figure 2.5-1	Alternative 4 Map for the Village at Wolf Creek .....	2-9
Figure 2.10-1	Sketch Plan for the Village at Wolf Creek.....	2-16
Figure 3.4-1	IRI CVU Mapping Delineations with HSS Designations on NFS Land Surrounding the Private Property.....	3-8
Figure 3.4-2	IRI CVU Mapping Delineations with HSS Designations on NFS Land Surrounding the Private Property that are within 1,871-acre Ski Area SUP Area Boundary .....	3-11
Figure 3.7-1	Rio Grande National Forest Scenic Integrity Objectives for Lands in the Vicinity of Project Site.....	3-99
Figure 3.7-2	Management Area Prescriptions on the Rio Grande National Forest Near the Proposed Project Site .....	3-101
Figure 3.7-3	Existing Visual Condition of Rio Grande National Forest Lands Surrounding the Project Site .....	3-103
Figure 3.8-1	ROS Setting for Rio Grande National Forest Lands Surrounding the Property .....	3-108
Figure 3.14-1	Soils within the Wolf Creek Project Area.....	3-139
Figure 4.19-1	Highway 160 Traffic Projections.....	4-123

## ACRONYMS AND ABBREVIATIONS

AADT	Average annual daily traffic
AIRFA	<i>American Indian Religious Freedom Act</i>
ANILCA	<i>Alaska National Interest Lands Conservation Act</i>
Applicant	Leavell-McCombs Joint Venture
Application	Application for Transportation and Utility Systems and Facilities on Federal Lands (Form 299)
APS	Arizona Public Service Company
ATV	all-terrain-vehicle
AWITT	Arizona Willow Interagency Team
AWWA	American Water Works Association
B&B	bed and breakfast
BBS	Breeding Bird Survey
B/C	Benefit/Cost
BCP	Colorado Landbird Conservation Plan
BCR	Bird Conservation Region
BEA	Bureau of Economic Analysis
BMPs	Best Management Practices
CAA	<i>Clean Air Act</i>
CAAQS	Colorado Ambient Air Quality Standards
CAQCC	Colorado Air Quality Control Commission
CDNR	Colorado Department of Natural Resources
CDNST	Continental Divide National Scenic Trail
CDOT	Colorado Department of Transportation
CDOW	Colorado Division of Wildlife
CDPHE	Colorado Department of Public Health and Environment
CEQ	Council on Environmental Quality
CFR	<i>Code of Federal Regulations</i>
CNDR	Colorado Department of Natural Resources
CNHP	Colorado Natural Heritage Program
CPIF	Colorado Partners in Flight
CVI	Common Vegetation Unit
CVU	Common Vegetation Unit
CWA	<i>Clean Water Act</i>
CWCB	Colorado Water Conservation Board
CWD	coarse woody debris
DAU	Data Analysis Unit
DBH	Diameter at Breast Height
DEIS	Draft Environmental Impact Statement
DNP	Designed New Phase
EA	Environmental Assessment
EIS	Environmental Impact Statement
EO	Executive Order
EPA	United States Environmental Protection Agency
EQR	equivalent residential units

ESA	<i>Endangered Species Act</i>
FEIS	Final Environmental Impact Statement
FEMA	Federal Emergency Management Agency
FHWA	Federal Highway Administration
FLPMA	<i>Federal Land Policy and Management Act</i>
FONSI	Finding of No Significant Impact
Forest Plan	<i>Revised Land and Resource Management Plan for Rio Grande National Forest</i>
FS	Forest Service
FSM	Forest Service Manual
FSR	Forest System Road
FTE	full time equivalent
FSR	Forest System Road
GMU	Game Management Unit
Handme EA	Handkerchief Mesa Environmental Assessment
HCP	Habitat Conservation Plan
Highway 160	Colorado State Highway
HSS	Habitat Structural Stage
IDT	USFS Interdisciplinary Team
IMPLAN	Impact Analysis for Planning Model
IRI	Integrated Resource Inventory
Land Exchange EA	<i>Environmental Assessment for the Proposed Wolf Creek Land Exchange</i>
LAU	Lynx Analysis Unit
Leavell-McCombs	Leavell-McCombs Joint Venture
LCAS	Lynx Conservation Assessment and Strategy
LNG	Liquefied Natural Gas
LTA	Forest Land Type Associations
MBTA	Migratory Bird Treaty Act
MDP	Master Development Plan
MIS	Management Indicator Species
MW	megawatt
NAAQS	National Ambient Air Quality Standards
NAGPRA	<i>Native American Graves Protection and Repatriation Act</i>
NDIS	Natural Diversity Information Source
NEPA	<i>National Environmental Policy Act</i>
NESHAP	National Emission Standards for Hazardous Air Pollutants
NFMA	<i>National Forest Management Act</i>
NFS	National Forest System
NHPA	<i>National Historic Preservation Act</i>
NMFS	National Marine Fishery Service
NOI	Notice of Intent
NPDES	National Pollutant Discharge Elimination System
NRCS	Natural Resource Conservation Service
NRHP	National Register of Historic Places
OML	Operation Maintenance Level

PCI	per capita income
PDC	project design criteria
PDP	Preliminary Development Plan
PNM	Public Service Company of New Mexico
PNV	Present Net Value
POA	Property Owner's Association
PRWPD	Pine River Weminuche Pass Ditch
PSD	Prevention of Significant Deterioration
PSFPD	Pagosa Springs Fire Protection District
PUD	Planned Unit Development
R2	Region Two
RGNF	Rio Grande National Forest
RMP	Resource Management Plan
ROD	Record of Decision
ROI	Region of influence
ROS	Recreation Opportunity Spectrum
ROW	Right-of-way
RV	recreational vehicle
SCP	Species Conservation Project
SEO	Office of the State Engineer
SHPO	State Historic Preservation Officer
SIO	Scenic Integrity Objectives
SJNF	San Juan National Forest
SJRGNF	San Juan-Rio Grande National Forest
Ski Area	Wolf Creek Ski Area
SLV	San Luis Valley
SLVREC	San Luis Valley Rural Electric Cooperative
SLVWCD	San Luis Valley Water Conservancy District
SRMPA	Southern Rocky Mountains Physiographic Area
SUP	Special Use Permit
SWCTR	Southwest Colorado Travel Region
TCP	traditional cultural property
TES	Threatened, Endangered, and Sensitive
THLAU	Trout-Handkerchief Lynx Analysis Unit
U.S.	United States
U.S.C.	<i>United States Code</i>
USACE	United States Army Corps of Engineers
USDA	United States Department of Agriculture
USFS	United States Forest Service
USFWS	United States Fish and Wildlife Service
USJHD	Upper San Juan Health District
Village	The Village at Wolf Creek
VMS	Visual Management System
VPD	vehicles per day
VOC	volatile organic compounds
WCPLL	Wolf Creek Pass Landscape Linkage

WCSC	Wolf Creek Ski Corporation
WCV	Wolf Creek Village
WIZ	water influence zone
Wolf Creek DEIS	<i>Application for Transportation and Utility Systems and Facilities for The Village at Wolf Creek Draft Environmental Impact Statement</i>
WQCD	Water Quality Control Commission

## UNITS OF MEASURE AND ABBREVIATIONS

AF	acre-feet
amsl	above mean sea level
C	degrees Celsius
cm/sec	centimeter per second
F	degrees Fahrenheit
ft	feet/foot
gpcd	gallons per capita per day
gpd	gallons per day
gpm	gallons per minute
gvw	gross vehicle weight
ha	hectares
km	kilometers
KM/HR	kilometers per hour
kW	kilowatts
L	liter
Lpd	liters per day
lpm	liters per minute
m	meters
mi	miles
mph	miles per hour
MW	megawatt
NO <sub>x</sub>	nitrogen oxide
PM	particulate matter
PM <sub>10</sub>	particulate matter with a diameter of 10 micrometers or less
PM <sub>2.5</sub>	particulate matter with a diameter of 2.5 micrometers or less
SO <sub>2</sub>	sulfur dioxide