

9. Glossary & Acronyms

9.1 Glossary

Adit	A nearly horizontal passage leading into a mine.
Aerobraking	A technique used to lower, or circularize, the orbit of a spacecraft that is in orbit around a planet with an atmosphere. The low point of the orbit (periapse) is set to be within the outermost portion of the planet's atmosphere. Drag on the spacecraft over a number of passes through this region removes energy from the orbit, causing the high point of the orbit (apoapse) to be lowered. When the desired orbital parameters are achieved, the low point is raised - using propellants - and the aerobraking phase is terminated. The main purpose of this technique is to achieve desired orbit parameters with minimal use of on-board propellants.
Alluvial Fan	An outspread, gently sloping mass of alluvium deposited by a stream, especially in an arid or semiarid region where a stream issues from a narrow canyon onto a plain or valley floor.
Alluvium	A general term for detrital deposits made by streams on river beds, flood plains, and alluvial fans; especially a deposit of silt or silty clay laid down during time of flood. The term applies to stream deposits of recent times.
Altitude Floor	The lower altitude boundary that defines a three-dimensional block of airspace.
Andesite	A dark-colored, fine-grained extrusive rock.
Aperture	Another name for the area of a device for collecting electromagnetic waves. At radio frequencies, aperture

would refer to the area of an antenna, or antennas if they arrayed together. At optical frequencies, it would refer to the area of the primary mirror of an optical telescope or telescopes.

Arroyo	An intermittently dry streambed or wash.
Auspices	Patronage; support; sponsorship.
Bajada	A continuous apron of coalesced alluvial fans, formed along the base of mountains in arid climates.
Basalt	A dark-colored igneous rock, commonly extrusive, composed primarily of calcic plagioclase and pyroxene, the fine-grained equivalent of <i>gabbro</i> .
Basaltic Layer	A synonym of <i>sima</i> , so named for its supposed petrologic composition. It is also called the <i>gabbroic</i> layer. A layer is sometimes termed basaltic layer if it possesses the appropriate seismic velocity (6.5-7.0 km/s), although nothing may be known about its composition.
Batholith	A large, generally discordant plutonic mass that has more than 40 sq mi (100 km ²) of surface exposure and no known floor. Its formation is believed, by most investigators, to involve magmatic processes. Also spelled: <i>bathylith</i> .
Bedload	Coarse materials that are dragged along the bed of a stream by traction or by the rolling and bouncing motion of saltation; involves particles too large to remain in suspension.
Below-grade	Below the ground surface.
Bioremediation	Use of living organisms to clean up spills or remove pollutants from soil, water, or wastewater.
Cairns	Heaps of stones piled up as a memorial or as a landmark.

Calclac Horizon	A subsurface layer in which calcium carbonate builds up, often forming a caliche or cemented layer that reduces vertical water movement.
Calclac Series	Igneous rocks in which the weight percentages of calcium oxide and potassium oxide + sodium oxide are equal.
Ceiling	In aeronautics, the height above the earth's surface of the lowest layer of clouds or obscuring phenomena that is reported as "broken," "overcast," or "obscured" and not classified as "thin" or "partial."
Cenozoic Era	The latest of the four eras into which geologic time is divided; it extends from the close of the Mesozoic Era (about 65 million years ago) to the present.
Cinder Cones	A conical hill formed by the accumulation of cinders and other pyroclasts around a volcanic vent.
Cismontane	On the writer's side of the mountain. For the purposes of this document the Mojave Desert side of the mountain.
Clutch Frequency	The number of eggs produced at one time at a certain interval.
Colloid	A particle-size range of less than 0.00024 mm. Any extremely fine-grained material in suspension, or that can be easily suspended, commonly having peculiar properties because of its very high surface area.
Confluence	The point where two streams or two glaciers meet.
Creosote	Any of several shrubs belonging to the genus <i>Larrea</i> , of the caltrop family.
Cryptogrammic Crust	An older term for macrobiotic crust.
Cyanide Washing	The process for extraction of precious metals from their ores by dissolving the ore in a cyanide solution.

Dacite	A fine-grained extrusive rock with the same general composition as <i>andesite</i> , but having a less calcic plagioclase and more quartz.
Denude	To strip of all covering or surface layers.
Depauperate	Falling short of natural development or size.
Diorite	A group of plutonic rocks intermediate in composition between acidic and basic.
Dissected	Cut by erosion, especially by streams. The term is commonly applied to plains in the process of erosion after uplift.
Easement	An interest in land owned by another that entitles its holder to a specific limited use.
Ecotone	Transition area between two adjacent ecological communities.
Edaphic	Of or relating to the soil. Resulting from or influenced by the soil rather than the climate.
Entisol	In U.S. Department of Agriculture soil taxonomy, a soil order characterized by dominance of mineral soil materials and absence of distinct horizons.
Ephemeral	Temporary, of short duration, or infrequent.
Ethnographic	Pertaining to the study and systematic recording of human cultures.
Ethnohistoric	Pertaining to the study of the development of cultures.
Evapo-transportation	The combined loss of water from a given area, and during a specified period of time, by evaporation from a surface and by transpiration from plants.
Fan Apron	Lower portion of an alluvial fan.

Fan Skirt	Upper portion of an alluvial fan.
Fan	A fan-shaped mass of congealed lava.
Flake Scatter	An archeological site containing lithic debitage (material created as a by-product of lithic tool production).
Floodplain	Portion of a river valley, adjacent to the channel, which is built of sediments deposited during the present regimen of the stream and is covered with water when the river overflows its banks at flood stages.
Floristic Province	A term in heirarchical vegetation classification in which a geographical region has similar climatic features, along with a suite of vegetation communities.
Fluvial	Of or pertaining to rivers; growing or living in a stream or river; produced by the action of a stream or river.
Gabbro	A group of dark-colored, basic, intrusive igneous rocks composed principally of labradorite or bytownite and augite, with or without olivine and orthopyroxene.
Gabions	Heavy-duty, wire-mesh tubes filled with rock to shore up the down-slope side of a trail being washed away, or on banks and trails which are being undercut. Usually some form of geotextile fabric is used, to allow the water to flow over and under the gabions without disturbing the soil.
Gas-phase Elements	Elements present in their gaseous state only.
Geomorphic	Pertaining to the form of the earth or of its surface features, e.g., a <i>geomorphic</i> province. Pertaining to geomorphology.
Geomorphology	The science that treats the general configuration of the earth's surface; specifically the study of the classification, description, nature, origin, and development of landforms and their relationships to underlying structures, and the

	history of geologic changes as recorded by these surface features.
Global Commons	Any area that is beyond the exclusive jurisdiction of any one nation. Examples include Antarctica, the atmosphere, and the oceans.
Graben	An elongated, relatively depressed crustal unit or block that is bounded by faults on its long sides. It is a structural form, which may or may not be referred to as a rift valley.
Groundwater Recharge	The process of water entering an aquifer and replenishing water-bearing strata in the groundwater system.
Hectare	A metric unit of land area equal to 10,000 square meters, or 2.471 acres.
Hydrophobic	Lacking strong affinity for water; said of colloids whose particles are not highly hydrated and coagulate easily.
Inset Fan	A small alluvial fan within a larger alluvial fan.
Intrasite	Within the site.
Knot	A unit of speed equal to one nautical mile per hour. One nautical mile equals approximately 1.15 miles per hour.
K-rail	Pre-cast concrete barrier rails, often used in highway construction.
Lacustrine	Pertaining to, produced by, or inhabiting a lake or lakes, e.g., "lacustrine sands" or a "lacustrine fauna."
Leaching	The dissolution of soluble constituents from a rock or orebody by the natural action of percolating water.
Lithic	A synonym of <i>lithologic</i> , as in "lithic unit". Said of a medium-grained sedimentary rock, and of a pyroclastic deposit,

	containing abundant fragments of previously formed rocks; also, said of such fragments.
Live-fire	A military training exercise that includes the use of live munitions. Live-fire training exercises take place only in areas that have been approved for live munitions. In live-fire training exercises, live munitions are used under strictly controlled situations and are fired at approved targets only.
Loam	A rich, permeable soil composed of a mixture of clay, silt, sand, and organic matter.
Loci	Plural for <i>locus</i> , the center of activity, attention, or concentration.
Macrobiotic Crust	A layer of algae, bacteria and other primitive organisms that forms on the soil surface and stabilizes the soil against erosion.
Mercury Amalgamation	The extraction of precious metals from their ores by treatment with mercury.
Mesozoic Era	An era of geologic time, from the end of the Paleozoic Era to the beginning of the Cenozoic Era (from about 225 to about 65 million years ago).
Mycorrhiza	The symbiotic association of the mycelium of a fungus with the roots of a seed plant.
Noise Shadow Zone	The area behind a noise barrier where the noise is reduced due to the sound propagation being blocked by the barrier.
Notice to Airman	Time-critical aeronautical information disseminated electronically via the National Notice To Airmen System.
Ochric Epipedon	A diagnostic upper soil layer that is either very light in color, low in organic matter content, or thin.

Ordination-modeling	A method of separating vegetation into units, based on minor differences in species composition.
Paleoecological	Pertaining to a branch of ecology that is concerned with the characteristics of ancient environments and with their relationships to ancient plants and animals.
Paleoeconomic	Pertaining to the distribution and use of commodities by prehistoric peoples.
Paleozoic Era	An era of geologic time, from the end of the Precambrian Era to the beginning of the Mesozoic Era (from about 570 to about 225 million years ago).
Particulate Emission Rates	The rate at which solid or liquid matter is suspended in the atmosphere.
Photochemical	Chemical reactions that occur due to an energy input from light.
Physiography	Originally, a description of the physical nature of objects, especially of natural features; later it became synonymous with <i>physical geography</i> . Still later, especially in the U.S., the term was restricted to the description and origin of landforms; in this sense, it is obsolescent and is replaced by <i>geomorphology</i> .
Playa	A term used in the southwestern U.S. for a dry, barren area in the lowest part of an undrained desert basin, underlain by clay, silt, or sand, and commonly soluble salts. It may be marked by an ephemeral lake.
Pluton	An igneous intrusion. A body of rock formed by metasomatic replacement.
Proterozoic Era	The more recent of two great divisions of the Precambrian.

Radiative Cooling	The process by which air closest to the ground cools faster than that in the atmosphere, thereby causing an inversion layer.
Region of Influence	The geographical region inside which the possible direct and indirect socioeconomic effects of the proposed expansion at Fort Irwin may occur.
Releve	A French term for a sample plot in which vegetation cover is estimated rather than measured.
Rhyolite	A group of extrusive igneous rocks, typically porphyritic and commonly exhibiting flow texture, with phenocrysts of quartz and alkali feldspar in a glassy to cryptocrystalline groundmass.
Right-of-Way	The land used by a public utility (as for a transmission line).
Riparian	Pertaining to, or situated on, the bank of a body of water, especially of a river.
Scant	Very little; widely dispersed.
Silt	A detrital particle finer than fine sand and coarser than clay, commonly in the range of 1/16 to 1/256mm.
Staging Area	Area where battalion groups set-up storage and supply.
Stream Terrace	One of a series of level surfaces in a stream valley, flanking and more or less parallel to the stream channel. It is above the level of the stream, and represents the dissected remnants of an abandoned flood plain, stream bed, or valley floor produced during a former stage of erosion or deposition.
Substrata	Underlying layers of sedimentary rock, generally each consisting of one kind of matter, representing continuous matter.

Superfund Site	A site listed under the Comprehensive Environmental Response, Compensation, and Liability Act.
Syncline	A fold of which the core contains the stratigraphically younger rocks; it is generally concave upward.
Terrane	A term applied to a rock or group of rocks and to the area in which they crop out. The term is used in a general sense and does not imply a specific rock unit. Synonym for <i>Terrain</i> .
Tool Scatter	An archaeological site containing culturally worked materials (lithic, wood, bone, etc.) created for a specific purpose or use.
Trough	Any long, narrow depression in the earth's surface, especially a glacial trough or a trench.
Tuff	A general term for all consolidated pyroclastic rocks.
Ungulate	Having hoofs; a hoofed animal.
VHF Omnidirectional Range (VOR)	A ground-based electronic navigation aid transmitter that transmits very high frequency navigation signals, 360 degrees in azimuth. The VOR provides azimuth direction to the VOR station.
VORTAC	A VOR co-located with a tactical air navigation transponder. The distance-measuring equipment element of the tactical air navigation signal provides slant range distance to/from the VORTAC station.
Wash Floodplain	The delta and edges of a periodically flowing stream in which sand is deposited during flooding.

9.2 Acronyms

AAA	Anti-Aircraft Artillery
AAQS	Ambient Air Quality Standards
AC	Alternating Current
ACEC	Area of Critical Environmental Concern
ADNL	A-Weighted Day-Night Average Sound Level
AFB	Air Force Base
AFFTC	Air Force Flight Test Center
AGL	Above Ground Level
AMSL	Above Mean Sea Level
APM	Archaeological Predictive Model
AR	Army Regulation
ARTCC	Air Route Traffic Control Center
ATC	Air Traffic Control
ATCAA	Air Traffic Control Assigned Airspace
ATA	Allen Telescope Array
ATLAM	Army Training Land Analysis Model
ATV	All Terrain Vehicle
AUM	Animal Unit Month
AVES	AeroVironment Environmental Services, Inc.
BA	Biological Assessment
BDA	Barstow-Daggett Airport
BFM	Brian F. Mooney Associates
BLM	Bureau of Land Management

BLUEFOR	Blue Force
BNSF	Burlington Northern Santa Fe
BO	Biological Opinion
BOM	Bureau of Mines
CA	California
CAAQS	California Ambient Air Quality Standards
CARB	California Air Resources Board
CCB	Complex Control Board
CCF	Central Coordinating Facility
CDCA	California Desert Conservation Area
CDFG	California Department of Fish and Game
CDNL	C-Weighted Day-Night Average Sound Level Pressure
CDPA	California Desert Protection Act
CDWR	California Department of Water Resources
CERCLA	Comprehensive Environmental Response, Compensation, and Liability Act
CESA	California Endangered Species Act
CFA	Controlled Firing Area
CFR	Code of Federal Regulations
CHRIS	California Historic Resources Inventory System
CHU	Critical Habitat Unit
CNDDB	California Natural Diversity Database
CNEL	Community Noise Equivalent Level
CNPS	California Native Plant Society
CO	Carbon Monoxide

CSSC	California Species of Special Concern
CSWSR	California Statewide Wilderness Study Report
CWA	Clean Water Act
DA	Department of the Army
DAR	Defense Access Road
dB	Decibel
dBA	Decibel A-Weighted
dBC	Decibel C-Weighted
dBP	Peak Decibels
DC	Direct Current
DCO	Digital Central Office
DEA	Draft Environmental Assessment
DEIS	Draft Environmental Impact Statement for the Army's Land Acquisition Project for the National Training Center, Fort Irwin, California
DNL	Day-Night Average Sound Pressure Level
DoD	Department of Defense
DOI	Department of the Interior
DOPAA	Description of Proposed Actions and Alternatives
DOT	Department of Transportation
DPW	Department of Public Works
DRI	Desert Research Institute
DSN	Deep Space Network
DT	Desert Tortoise
DTHMP	Desert Tortoise Habitat Management Plan
DTNA	Desert Tortoise Natural Area

DWMA	Desert Wildlife Management Area
EA	Environmental Assessment
EAFB	Edwards Air Force Base
EBS	Environmental Baseline Study
ECR	Electronic Combat Range
ECRD	Electronic Combat Range Department
EEM	Engineering-Environmental Management, Inc.
e.g.	For example
EIS	Environmental Impact Statement
ENMP	Environmental Noise Management Plan
EO	Executive Order
EPA	Environmental Protection Agency
EPCRA	Emergency Planning and Community Right-to-Know Act
EPS	Emergency Phone System
ERDC-CERL	Engineer Research and Development Center – Construction Engineering Research Laboratory
ESA	Endangered Species Act
et al.	And Others
etc.	Etcetera; and so forth
ETI	Equestrian Trails, Inc.
FAA	Federal Aviation Administration
FERC	Federal Energy Regulatory Commission
FHWA	Federal Highway Administration
FICRD	Fort Irwin Cultural Resources Database
FL	Flight Level

FLPMA	Federal Land Policy and Management Act
FR	Federal Register
FSOC	Federal Species of Concern
ft	Feet
FWARG	Far Western Anthropological Research Group, Inc.
FWS	United States Fish and Wildlife Service
GDSCC	Goldstone Deep Space Communication Complex
GHz	Gigahertz
GIS	Geographic Information Systems
GPPA	Gold Prospectors Association of America
GPS	Global Positioning System
H ₂ S	Hydrogen Sulfide
HAZMART	Hazardous Materials Pharmacy
HCA	Habitat Conservation Area
HDDV	Heavy Duty Diesel-Powered Vehicle
HET	Heavy Equipment Vehicle
HMMCC	Hazardous Material Management Control Center
H.R.	House of Representatives
HSMS	Hazardous Substance Management System
HT	Heavy Tracked
HW	Heavy Wheeled
I	Interstate
ICRMP	Integrated Cultural Resources Management Plan
IFR	Instrument Flight Rules
IMP	Interim Management Plan

Inc.	Incorporated
INRMP	Integrated Natural Resource Management Plan
IPA	Intermountain Power Agency
IR	Instrument Route
ITAM	Integrated Area Training Management
IWMB	Integrated Waste Management Board
IUCN	International Union for Conservation of Nature
JPL	Jet Propulsion Laboratory
JPPB	Joint Planning and Policy Board
km	Kilometer
KOP	Key Observation Point
KRGT	Kern River Gas Transmission Company
kV	Kilovolt
LADWP	Los Angeles Department of Water and Power
LARTA	Low Altitude Rotary-Wing Training Area
LCTA	Land Condition Trend Analysis
LDDT	Light Duty Diesel-Powered Truck
Leq	Equivalent-Continuous Sound Pressure Level
Lmax	Maximum Noise Level
LMMV	Lane Mountain Milk-vetch
Lpk	Peak Noise Level
LRWQCB	Lahontan Regional Water Quality Control Board
LT	Light Tracked
LURS	Land Use Requirement Study
LW	Light Wheeled

MAW	Marine Air Wing
MBA	Michael Brandman Associates, Inc.
MBTA	Migratory Bird Treaty Act
MCAS	Marine Corps Air Station
MCAGCC	Marine Corps Air Ground Combat Center
MCG	Mojave Coordinating Group
MDAQMD	Mojave Desert Air Quality Management District
MHDDV	Medium Heavy Duty Diesel-Powered Vehicle
MOA	Military Operations Area
MPFR	Multi-Purpose Firing Range
MPH	Miles Per Hour
MRC	Major Regional Contingency
MTR	Military Training Route
MTW	Major Theater War
MW	Megawatt
NAAQS	National Ambient Air Quality Standards
NAFB	Nellis Air Force Base
NALSA	North American Land Sailing Association
NAS	National Airspace System
NASA	National Aeronautics and Space Administration
NAWS	Naval Air Weapons Station
NBS	National Biological Service
NECO	Northern and Eastern Colorado (Desert Plan)
NEMO	Northern and Eastern Mojave (Proposed Plan)
NEPA	National Environmental Policy Act

NM	Nautical Miles
NMFS	National Marine Fisheries Service
NO ₂	Nitrogen Dioxide
NOA	Notice of Availability
NOI	Notice of Intent
NOTAM	Notice to Airman
NOx	Oxides of Nitrogen
NPS	National Park Service
NRCA	Natural Resource Conservation Agency
NRHP	National Register of Historic Places
NTC	National Training Center
NTIA	National Telecommunications and Information Administration
NTTR	Nevada Test and Training Range
NV	Nevada
O ₃	Ozone
OHV	Off-Highway Vehicle
OPFOR	Opposing Force
OPSGRP	Operations Group
OT&E	Operational Test and Evaluation
PA	Programmatic Agreement
PAS	Preliminary Assessment Screening
PM-10	Particulate Matter (less than 10 microns in diameter)
PPM	Parts Per Million
Pre-Po Fleet	Pre-Positioned Fleet

R&D	Research and Development
RC	Resource Conservation
RCRA	Resource Conservation and Recovery Act
REPR	Real Estate Planning Report
RESOLVE	Research on Operations Limiting Visual Extinction
RF	Radio Frequency
RMA	Recreation Management Area
ROC	Resource Operations Center
ROI	Region of Influence
ROW	Right-of-Way
RSOI	Reception, Staging, Onward Movement and Integration
SAAFR	Standard Army Aircraft Flight Routes
SAM	Surface to Air Missile
SARC	Small Arms Range Complexes
SCE	Southern California Edison
SCS	Soil Conservation Service
SDEIS	Supplemental Draft Environmental Impact Statement for Proposed Addition of Maneuver Training Land at Fort Irwin, CA
SFEIS	Supplemental Final Environmental Impact Statement for Proposed Addition of Maneuver Training Land at Fort Irwin, CA
SH	State Highway
SHPO	State Historic Preservation Office(r)
SKA	Square Kilometer Array
SLC	State Lands Commission
SO ₂	Sulfur Dioxide

SOP	Standard Operating Procedures
SPL	Sound Pressure Level
SPO	Strategic Planning Office
SRMA	Special Recreation Management Area
SRS	Space Research Service
SSC	Small Scale Contingencies
STATSGO	State Soil Geographic CD-ROM
SUV	Sport Utility Vehicle
SVTB	Superior Valley Tactical Bombing Range
SWDA	Solid Waste Disposal Act
SWRCB	State Water Resources Control Board
T&E	Threatened and Endangered
TFR	Terrain Following Routes
TRACON	Terminal Radar Approach Control
TRPH	Total Recoverable Petroleum Hydrocarbons
TTR	Tactical Training Range
UAV	Unmanned Aerial Vehicle
UCAV	Unmanned Combat Aerial Vehicle
ULT	Unit Level Training
UPA	Unusual Plant Assemblage
UPR	Union Pacific Railroad
URDS	Upper Respiratory Disease Syndrome
URTD	Upper Respiratory Tract Disease
U.S.	United States
USACE	United States Corps of Engineers

USACHPPM	United States Army Center for Health Promotion and Preventive Medicine
USAF	United States Air Force
USFWS	United States Fish and Wildlife Service
USN	United States Navy
UTI	Universe Technologies, Inc.
UTM	Universal Transverse Mercator
UXO	Unexploded Ordnance
VFR	Visual Flight Rules
VHF	Very High Frequency
VMT	Vehicle Miles Traveled
VOC	Volatile Organic Compounds
VOR	VHF Omnidirectional Range
VORTAC	VOR and TACAN Radio Beacon
VR	Visual Route
VRM	Visual Resource Management
vs.	Versus
WMP	West Mojave Plan
WSA	Wilderness Study Area
µg/m ³	Micrograms Per Cubic Meter
°F	Degrees Fahrenheit