### APPENDIX A NATIONAL AMBIENT AIR QUALITY STANDARDS

	Primary Standards		Secondar	Secondary Standards	
Pollutant	Level	Averaging Time	Level	Averaging Time	
Carbon	9 ppm	8-hour <sup>(1)</sup>	N	lone	
Monoxide	(10 mg/m³)				
	35 ppm	1-hour <sup>(1)</sup>			
	(40 mg/m <sup>3</sup> )				
Lead	1.5 µg/m³	Quarterly Average	Same a	as Primary	
Nitrogen	0.053 ppm	Annual	Same a	as Primary	
Dioxide	(100 µg/m³)	(Arithmetic Mean)			
Particulate	150 μg/m³	24-hour <sup>(2)</sup>	Same a	as Primary	
Matter (PM <sub>10</sub> )					
Particulate	15.0 μg/m <sup>3</sup>	Annual <sup>(3)</sup>	Same a	as Primary	
Matter (PM <sub>2.5</sub> )		(Arithmetic Mean)			
	35 μg/m <sup>3</sup>	24-hour(4)	Same a	as Primary	
Ozone	0.075 ppm (2008 std)	8-hour <sup>(5)</sup>	Same a	as Primary	
	0.08 ppm (1997 std)	8-hour <sub>6</sub>	Same a	as Primary	
	0.12 ppm	1-hour <sup>(7)</sup>	Same a	as Primary	
		(Applies only in limited			
		areas)			
Sulfur	0.03 ppm	Annual	0.5 ppm	3-hour <u>(1)</u>	
Dioxide		(Arithmetic Mean)	(1300 µg/m³)		
	0.14 ppm	24-hour <sup>(1)</sup>			

<sup>(1)</sup> Not to be exceeded more than once per year.

<sup>(2)</sup> Not to be exceeded more than once per year on average over 3 years.

<sup>(3)</sup> To attain this standard, the 3-year average of the weighted annual mean PM2.5 concentrations from single or multiple community-oriented monitors must not exceed 15.0 µg/m3.

 $<sup>^{(4)}</sup>$  To attain this standard, the 3-year average of the 98th percentile of 24-hour concentrations at each population-oriented monitor within an area must not exceed 35  $\mu$ g/m3 (effective December 17, 2006).

<sup>(5)</sup> To attain this standard, the 3-year average of the fourth-highest daily maximum 8-hour average ozone concentrations measured at each monitor within an area over each year must not exceed 0.075 ppm. (effective May 27, 2008)

<sup>(6) (</sup>a) To attain this standard, the 3-year average of the fourth-highest daily maximum 8-hour average ozone concentrations measured at each monitor within an area over each year must not exceed 0.08 ppm.

<sup>(</sup>b) The 1997 standard—and the implementation rules for that standard—will remain in place for implementation purposes as EPA undertakes rulemaking to address the transition from the 1997 ozone standard to the 2008 ozone standard.

 $<sup>^{(7)}</sup>$  (a) The standard is attained when the expected number of days per calendar year with maximum hourly average concentrations above 0.12 ppm is < 1.

<sup>(</sup>b) As of June 15, 2005 EPA revoked the <u>1-hour ozone standard</u> in all areas except the 8-hour ozone nonattainment <u>Early Action Compact (EAC) Areas</u>.

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#### APPENDIX B NOXIOUS WEEDS

TABLE 1. LIST OF NEVADA'S NOXIOUS WEEDS

Scientific Name	Common Name
Category A Weeds	
Peganum harmala	African rue
Rorippa austriaca	Austrian fieldcress
Sphaerophysa salsula / Swainsona salsula	Austrian peaweed
Hyoscyamus niger	Black henbane
Alhagi camelorum	Camelthorn
Crupina vulgaris	Common crupina
Linaria dalmatica	Dalmation toadflax
Isatis tinctoria	Dyer's woad
Myriophyllum spicatum	Eurasian water-milfoil
Arundo donax	Giant Reed
Salvinia molesta	Giant salvinia
Galega officinalis	Goats rue
Pennisetum setaceum	Green fountain grass
Cynoglossum officinale	Houndstongue
Hydrilla verticillata	Hydrilla
Centaurea iberica	Iberian starthistle
Hypericum perforatum	Klamath weed
Centaurea melitensis	Malta star thistle
Anthemis cotula	Mayweed chamomile
Salvia aethiopis	Mediterranean sage
Lythrum salicaria, L.virgatum and their cultivars	Purple loosestrife
Centaurea calcitrapa	Purple starthistle
Chondrilla juncea	Rush skeletonweed
Sonchus arvensis	Sow thistle
Centaurea masculosa	Spotted knapweed
Centaurea virgata	Squarrose knapweed
Potentilla recta	Sulfur cinquefoil
Zygophyllum fabago	Syrian bean caper
Centaurea solstiltialis	Yellow starthistle
Linaria vulgaris	Yellow toadflax
Category B Weeds	
Solanum carolinense	Carolina horse-nettle
Centaurea diffusa	Diffuse knapweed
Euphorbia esula	Leafy spurge

Scientific Name	Common Name
Taeniatherum caput-medusae	Medusahead
Carduus nutans	Musk thistle
Acroptilon repens	Russian knapweed
Brassica tournefortii	Sahara mustard
Onopordum acanthium	Scotch thistle
Solanum elaeagnifolium	White horse-nettle
Category C Weeds	
Cirsium arvense	Canada thistle
Cardaria draba	Hoary cress
Sorghum halepense	Johnson grass
Lepidium latifolium	Perennial pepperweed
Conium maculatum	Poison hemlock
Tribulus terrestris	Puncture vine
Tamarix spp	Salt cedar (tamarisk)
Cicuta maculata	Water hemlock

Source: Nevada Department of Agriculture (NDA 2005).

**CATEGORY** "A": Weeds not found or limited in distribution throughout the state; actively excluded from the state and actively eradicated wherever found; actively eradicated from nursery stock dealer premises; control required by the state in all infestations.

**CATEGORY "B"**: Weeds established in scattered populations in some counties of the state; actively excluded where possible, actively eradicated from nursery stock dealer premises; control required by the state in areas where populations are not well established or previously unknown to occur.

**CATEGORY "C"**: Weeds currently established and generally widespread in many counties of the state; actively eradicated from nursery stock dealer premises; abatement at the discretion of the state quarantine officer.

B-2 DECEMBER 2009 APPENDIX B – NOXIOUS WEEDS

#### APPENDIX C OBSERVED PLANT SPECIES

FAMILY	SCIENTIFIC NAME	COMMON NAME
Asteraceae	Adenophyllum cooperi	Cooper's dogweed
Asteraceae	Ambrosia dumosa	burrobush
Asteraceae	Ambrosia eriocentra	woolly bur-sage
Asteraceae	Bebbia juncea var. aspera	sweetbush
Asteraceae	Brickellia arguta	pungent brickellbush
Asteraceae	Encelia frutescens	California encelia
Asteraceae	Ericameria pinifolia	pinebush
Asteraceae	Filgao californica	California cottonrose
Asteraceae	Guttierezia microcephala	matchweed
Asteraceae	Hymenoclea salsola	burrobrush
Asteraceae	Malacothrix californica	desert dandelion
Asteraceae	Porophyllum gracile	odora
Asteraceae	Stephanomeria pauciflora	small wire lettuce
Asteraceae	Viguiera parishii	Parish's goldeneye
Asteraceae	Xylorhiza tortifolia var. tortifolia	Mojave woody aster
Bignoniaceae	Chilopsis linearis	desert willow
Boraginaceae	Amsinckia tessellata var. tessellata	bristly fiddleneck
Boraginaceae	Cryptantha circumcissa	cushion cryptantha
Boraginaceae	Cryptantha micrantha	redroot cryptantha
Boraginaceae	Cryptantha nevadensis	Nevada cryptantha
Boraginaceae	Cryptantha utahense	scented cryptantha
Brassicaceae	Guillenia lasiophylla	California mustard
Brassicaceae	Lepidium flavum	yellow pepperweed
Brassicaceae	Lepidium fremontii	Desert pepperweed
Brassicaceae	Lepidium nitidum var. howellii	shining pepperweed
Cactaceae	Echinocactus polycephalus	many-headed barrel cactus
Cactaceae	Echinocereus fasciculatus	robust hedgehog cactus
Cactaceae	Ferocactus cylindraceus	California barrel cactus
Cactaceae	Mammillaria tetrancistra	many-spined fishhook cactus
Cactaceae	Opuntia acanthocarpa ssp. Coloradensis	buckhorn cholla
Cactaceae	Opuntia basilaris	beavertail cholla
Cactaceae	Opuntia echinocarpa ssp. echinocarpa	silver cholla
Cactaceae	Opuntia ramosissima	diamond cholla
Cactaceae	Sclerocactus johnsonii	Johnson's devil claw
Chenopodiaceae	Atriplex canescens	fourwing saltbrush
Chenopodiaceae	Grayia spinosa	hosage

FAMILY	SCIENTIFIC NAME	COMMON NAME
Chenopodiaceae	Krasheninnikovia lanata	winter fat
Cucurbitaceae	Cucurbita palmata	coyote melon
Ephedraceae	Ephedra cf. nevadensis	Nevada jointfir
Ephedraceae	Ephedra viridis	mormon tea
Euphorbiaceae	Chamaesyce albomarginata	rattlesnake weed
Fabaceae	Dalea mollisma	silk dalea
Fabaceae	Psorothamnus arborescens var. minutifolius	Johnson's indigo bush
Fabaceae	Senna armata	spiny senna
Geraniaceae	Erodium cicutarium	redstem stork's bill
Hydrophyllaceae	Phacelia sp.	likely <i>crenulata</i> (notchleaved phacelia)
Hydrophyllaceae	Phacelia distans	distant phacelia
Krameriaceae	Krameria erecta	Pima rhatany
Lamiaceae	Salazaria mexicana	bladder sage
Lamiaceae	Salvia columbariae	chia
Lamiaceae	Salvia mojavensis	Mojave sage
Liliaceae	Yucca brevifolia	Joshua tree
Liliaceae	Yucca schidigera	Mojave yucca
Loasaceae	Mentzelia albicaulis	whitestem blazingstar
Loasaceae	Mentzelia involucrata	whitebract blazingstar
Loasaceae	Petalonyx nitidus	shiny-leaf sandpaper plant
Malvaceae	Sphaeralcea ambigua	desert apricot mallow
Nyctaginaceae	Alliona incarnata	trailing four o'clock
Nyctaginaceae	Mirabilis bigelovii	wishbone bush
Onagraceae	Oenothera deltoides	basket evening primrose
Papaveraceae	Eschscholzia munitiflora ssp. minutiflora	pygmy poppy
Plantaginaceae	Plantago ovata	desert plantain
Poaceae	Acnatherum hymenoides	indian ricegrass
Poaceae	Acnatherum speciosum	desert needlegrass
Poaceae	Aristida purpurea	three-awn
Poaceae	Bromus madritensis ssp. rubens	red brome
Poaceae	Bromus tectorum	cheat grass
Poaceae	Erioneuron pulchellum	fluff grass
Poaceae	Melica sp.	likely frutescens
Poaceae	Pleuraphis rigida	big galleta
Poaceae	Schismus arabicus	split grass
Poaceae	Vulpia myuros	foxtail fescue
Polemoniaceae	Gilia brecciarum	Nevada gilia
Polemoniaceae	Langloisia setosissima ssp. setosissima	bristly langloisia
Polemoniaceae	Linanthus dichotomus	evening snow
Polygonaceae	Chorizanthe brevicornu	brittle spineflower

FAMILY	SCIENTIFIC NAME	COMMON NAME
Polygonaceae	Chorizanthe rigida	rigid spiny herb
Polygonaceae	Eriogonum angulosum	anglestem buckwheat
Polygonaceae	Eriogonum brachypodium	skeleton weed
Polygonaceae	Eriogonum fasciculatum	eastern Mojave buckwheat
Polygonaceae	Eriogonum inflatum	desert trumpet
Polygonaceae	Eriogonum mohavense	western Mojave buckwheat
Polygonaceae	Eriogonum palmerianum	Palmer's buckwheat
Polygonaceae	Eriogonum pusillum	puny buckwheat
Polygonaceae	Oxytheca perfoliata	round-leaved spineflower
Polygonaceae	Salsola tragus	Russian thistle
Pteridaceae	Cheilanthes parryi	cloak fern
Rosaceae	Prunus fasciculata	desert almond
Rutaceae	Thamnosa montana	turperntine-broom
Scrophulariaceae	Penstemon bicolor spp. roseus	rosy twin-toned beardtongue
Scrophulariaceae	Penstemon sp.	likely <i>floridus</i> (Panamint beardtongue)
Solanaceae	Lycium andersonii	water jacket
Solanaceae	Lycium cooperi	peach thorn
Solanaceae	Physalis crassifolia	ground-cherry
Solanaceae	Nicotiana obtusifolia	desert tobacco
Viscaceae	Phoradendron californicum	desert mistletoe
Zygophyllaceae	Larrea tridentata	creosote bush

# APPENDIX D U.S. FISH AND WILDLIFE SERVICE RECOMMENDATIONS, REASONABLE AND PRUDENT MEASURES TO MINIMIZE THE TAKING OF DESERT TORTOISE

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#### REASONABLE AND PRUDENT MEASURES WITH TERMS AND CONDITIONS

The Service believes that the following Reasonable and Prudent Measures (RPMs) are necessary and appropriate to minimize take of desert tortoise.

**RPM 1:** The BLM, or other jurisdictional Federal agency, shall ensure that agency personnel, or project proponent and their contractors implement the following measures to minimize injury or mortality of desert tortoises due to project activities.

#### Terms and Conditions:

- 1.a. *Speed limit:* Within Clark County, the speed limit is 25 miles-per-hour on unposted county roads; this speed shall be established for all activities at all times unless otherwise designated.
- 1.b. *Vehicles:* All project/event-related individuals shall check underneath stationary vehicles before moving them.
- 1.c. Education Program: A BLM or Service-approved biologist (as defined below) shall facilitate a tortoise education program to all supervisors, workers, permittees and other employees or participants involved in projects covered under the Sloan Canyon NCA RMP. The program will consist of either a presentation or fact sheet as determined by project-level consultation between BLM and the Service, and will include information on the life history of the desert tortoise, legal protection for desert tortoises, penalties for violations of Federal and State laws, general tortoise activity patterns, reporting requirements, measures to protect tortoises, terms and conditions of the biological opinion, and personal measures employees can take to promote the conservation of desert tortoises. "Take," which is defined to include any harm or harassment to desert tortoise, including significant habitat modification, will also be explained. Workers and project associates will be encouraged to carpool to and from the project sites. Specific and detailed instructions will be provided on the proper techniques for capturing and moving tortoises which appear onsite if appropriate. These instructions will be in accordance with Service-approved protocol. Currently, the Serviceapproved protocol is Desert Tortoise Council 1994, revised 1999.
- 1.d. *Biologist approval:* BLM and Service wildlife staff shall approve the biologists who will be assigned to implement the terms and conditions of the biological opinion, or permit issued by BLM. Any biologist not previously approved must submit a statement of qualifications in the Service-developed format and be approved by the wildlife staff, before authorized to represent BLM in meeting compliance with the terms and conditions of the biological opinion. Other personnel may assist with implementing conservation measures, but must be under direct field supervision by the authorized biologist.

- 1.e. Biologist qualifications: In accordance with Procedures for Endangered Species Act Compliance for the Mojave Desert Tortoise (Service 1992), an authorized desert tortoise biologist should possess a bachelor's degree in biology, ecology, wildlife biology, herpetology, or closely related fields as determined by BLM and the Service. The biologist must have demonstrated prior field experience using accepted resource agency techniques to survey for desert tortoises and tortoise sign, which should include a minimum of 60 days field experience. All tortoise biologists shall comply with the Service-approved handling protocol (Desert Tortoise Council 1994, revised 1999). In addition, the biologist shall have the ability to recognize and accurately record survey results and must be familiar with the terms and conditions of the biological opinion that resulted from project-level consultation between BLM and the Service.
- 1.f. *Tortoises in harm's way:* If a tortoise is found within the project/activity site in harm's way, all potentially harmful activity shall cease until the tortoise moves or is moved out of harm's way by an authorized biologist. If a desert tortoise is in *imminent danger*, the tortoise shall be moved out of harm's way and on to adjacent BLM land, using techniques described in the tortoise education program.
- 1.g. *Moving tortoises:* Tortoises that are moved offsite and released into undisturbed habitat on public land, shall be placed in the shade of a shrub, in a natural unoccupied burrow similar to the hibernaculum in which it was found, or in an artificially constructed burrow in accordance with the tortoise handling protocol. Tortoises encountered shall be treated in a manner consistent with the appropriate measures in this biological opinion.
- 1.h. *Permits:* All appropriate State and Federal permits, including Nevada Department of Wildlife permits for handling desert tortoises or their parts, shall be acquired by the tortoise biologists or other personnel before project initiation and prior to handling any desert tortoise or their parts, or conducting any activity requiring a permit.
- 1.i. *Project oversight:* One or more BLM representatives shall be designated who will be responsible for overseeing compliance with the reasonable and prudent measures, terms and conditions, reporting requirements, and reinitiation requirements identified in this biological opinion. The designated representatives shall provide coordination among the permittee, project proponent, BLM, and the Service.
- 1.j. *Desert tortoise burrows*: Shall be avoided whenever possible; if not, the burrow will be cleared in accordance with the measures set forth in this biological opinion.

- 1.k. *Heat stress:* Desert tortoises encountered experiencing heat stress shall be placed in a tub, by an authorized tortoise biologist, with one inch of 76-90°F (24-32°C) water for at least 20 minutes or until heat stress symptoms are no longer evident.
- 1.1. Temperature restrictions: Desert tortoises shall be treated in a manner to ensure that they do not overheat, exhibit signs of overheating (e.g., gaping, foaming at the mouth, etc.), or are placed in a situation where they cannot maintain surface and core temperatures necessary to their well-being. Desert tortoises shall be kept shaded at all times until it is safe to release them. No desert tortoise shall be captured, moved, transported, released, or purposefully caused to leave its burrow for whatever reason when the ambient air temperature is above 95°F (35°C). Ambient air temperature shall be measured in the shade, protected from wind, at a height of 2 inches (5 centimeters) above the ground surface. No desert tortoise shall be captured if the ambient air temperature is anticipated to exceed 95°F before handling and relocation can be completed. If the ambient air temperature exceeds 95°F during handling or processing, desert tortoises shall be kept shaded in an environment that does not exceed 95°F, and the animals shall not be released until ambient air temperature declines to below 95°F.
- 1.m. Clearance: All project areas, fence lines, staging areas, etc. shall be cleared of tortoises by an authorized biologist immediately before the start of ground disturbance using 100-percent coverage survey techniques. During the tortoise active season, an authorized tortoise biologist will be onsite during fence construction to ensure that no tortoises are harmed. Burrows found outside the area to be disturbed, will be flagged and avoided. Clearance will involve excavating nests; relocating eggs; flagging avoidable burrows; collapsing unavoidable, unoccupied burrows; and relocating tortoises in accordance with the Service-approved protocol for handling desert tortoises (Desert Tortoise Council 1994, revised 1999). If disturbance is planned to occur during a period when tortoise are not anticipated to be active, surveys may be conducted earlier as determined during project-specific consultation.
- 1.n. *On-site biologist:* Unless the area has been fenced and cleared, or the Service and BLM have determined an onsite biologist is not necessary through project-level consultation, the project shall require at least one authorized biologist onsite for project construction during the period of greatest tortoise activity (*e.g.*, March 1 through October 31). The biologist shall be on-call at other times.

**RPM 2**: The BLM, or other jurisdictional Federal agency, shall ensure that agency personnel, or project proponent and their contractors implement the following measures to minimize predation on desert tortoises by predators drawn to the project area.

#### Term and Condition:

- 2. *Litter-control*: Shall be implemented and enforced by the project proponent or BLM. Trash containers shall remain covered, must be raven-proof, and emptied frequently enough to prevent overflow of materials. Trash, litter, project debris, etc. shall be transferred to a designated solid waste disposal facility. Vehicles hauling trash must be secured to prevent litter from blowing out along the road.
- **RPM 3**: The BLM, or other jurisdictional Federal agency, shall ensure that agency personnel, or project proponent and their contractors implement the following measures to minimize loss and long-term degradation and fragmentation of desert tortoise habitat, such as soil compaction, erosion, crushed vegetation, and introduction of weeds or contaminants:

#### Terms and Conditions:

- 3.a. *Vehicle traffic*: Shall be restricted to designated roads, except for emergency and administrative-related traffic.
- 3.b. *Previous disturbance:* Overnight parking and storage of equipment and materials, including stockpiling, shall be within previously-disturbed areas or within areas cleared by a tortoise biologist to minimize habitat destruction.
- 3.c. *Project boundaries:* Project activity areas shall be clearly marked or flagged at the outer boundaries before the onset of construction. All activities shall be confined to designated areas. When new access routes have been identified for development, the tortoise biologist will flag routes before surface disturbance.
- 3.d. *Blading of vegetation:* Shall occur only to the extent necessary and shall be limited to areas designated for that purpose by BLM or a tortoise biologist.
- 3.e. *Fees:* Prior to issuance of authorization, and prior to any surface-disturbing activity associated with the proposed project, BLM shall pay a remuneration fee of \$754 for each acre of surface disturbance, if paid prior to March 1, 2010. This rate will be indexed annually for inflation based on the Bureau of Labor Statistics Consumer Price index for All Urban Consumers (CPI-U). Information on the CPI-U can be found on the internet at <a href="http://stats.bls.gov/news.release/cpi.nws.htm">http://stats.bls.gov/news.release/cpi.nws.htm</a>. The payments shall be accompanied by the enclosed Section 7 Fee Payment Form (Appendix A), and

completed by the payee. Payment shall be by certified check or money order payable to Clark County and delivered to:

Clark County Desert Conservation Program c/o Dept. of Air Quality and Environmental Management Clark County Government Center 500 S. Grand Central Parkway, first floor (front counter) Las Vegas, Nevada 89106 (702) 455-5821

- 3.f. *Restoration:* Temporary disturbance areas shall be restored in accordance with the restoration protocols for the project.
- 3.g. *Leaks/spills:* All vehicles shall be inspected prior to moving into the project area to ensure proper fluid containment. Any vehicles leaking fluid (oil, transmission fluid, etc.) will not be allowed in the project area. Any fuel or hazardous waste leaks/spills shall be contained immediately and cleaned up at the time of occurrence. Contaminated soil will be removed and disposed of at an appropriate facility.
- RPM 4. The BLM, or other jurisdictional Federal agency, shall ensure their agency personnel, or project proponent and their contractors implement the following measure to comply with the reasonable and prudent measures, terms and conditions, reporting requirements, and reinitiation requirements contained in this biological opinion.

#### Terms and Conditions:

- 4.a. Tortoise mortality/injury: BLM wildlife staff (702/515-5000) and the Service (702/515-5230) must be notified of any desert tortoise death or injury in the NCA by close of business on the following work day. In addition, the Service's Division of Law Enforcement shall be notified in accordance with the reporting requirements of this biological opinion.
- 4.b. *Reporting:* Within 30 days of completion of a project, the project proponent, permittee, or BLM shall submit a document to a BLM wildlife biologist showing the number of acres disturbed, remuneration fees paid, and number of tortoises observed or taken, which includes capture and displacement, killed, injured, or harassed by other means, during implementation of programmatic actions.
- 4.c. *Notification:* The project applicant/BLM lead shall notify BLM wildlife staff representative responsible for NEPA review of the project, at least 10 days before initiation of the project (702 515-5000).

## APPENDIX E RESPONSE TO PUBLIC COMMENTS RECEIVED ON THE DRAFT EA

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Table 1. Public Draft EA Comments and Responses.

Commenter	Comm. #	Original Comment	Bureau of Land Management Response
The Wilderness Society	1	We encourage BLM to dedicate the resources necessary to implement the trails plan through maps, signage, and monitoring and enforcement. A 2009 GAO report found that the most effective ORV enforcement action is routinely monitoring areas where violations are known and/or likely to take place. The report recommended BLM develop user-friendly signs and maps to improve visitor experiences and help curb unauthorized use.	The BLM proposes to use various signage and wayfinding markers to improve visitor experiences and deter unauthorized uses. The proposed signage and wayfinding techniques are described on page 2-23 of the Public Draft EA. In non-wilderness areas, BLM intends to install directional signage and markers to assist with wayfinding and visitor safety. Temporary and permanent exhibits, highlighting interpretive themes or providing information on points of interest, would also be used to convey information to visitors. In wilderness areas, trail junctions and trail beds (where necessary) would be marked with low-profile native materials. No directional signs would be provided in the wilderness outside of the Petroglyph Management Area.
Southern Nevada Regional Trails Partnership	1	Hopefully, in the future, equestrian and bicycle camping will be added to this NCA without another long, drawn-out process.	Equestrian and bicycle camping may be considered in a separate planning process.
State of Nevada Department of Cultural Affairs	1	On page 3-28 of the document a statement is made that consultation with our office occurred for eight resources identified on Table 3-7 in the area of potential effect for the subject undertaking (26Ck8636, 26Ck8637, 26Ck8638, 26Ck8639, 26Ck8640, 26Ck8642, 26Ck8641, 26Ck8643). The SHPO cannot find any record of the consultation mentioned in the document. If our records are in error, please provide this office with the documentation cited in the Environmental Assessment.	The cultural resources section has been revised to reflect the BLM-State Protocol Agreement. Pursuant to the BLM-State Protocol Agreement, the BLM determines that the undertaking would have "no effect" to historic properties, including the Sloan Canyon Petroglyph Site.
Friends of Nevada Wilderness	1	The analysis in Chapter 4 really never addresses how these trails would conserve, enhance and protect the cultural, archaeological, natural, wilderness, scientific, geological, historical, biological, wildlife, educational and scenic resources of the NCA. There is discussion of how building the trails would impact rare plants, spread invasive plants, impact soil and wildlife, etc. This seems especially true of the network of trails proposed in the northern part of the NCA. How do these conserve, enhance and protect the values for which the NCA was created?	Beneficial effects of the proposed trails project are noted, by resource, in Chapter 4. Although construction of the trail network would result in short-term adverse effects as well as some long-term adverse effects, the project would conserve, enhance, and protect the values for which the NCA was created. For example, the Proposed Action (Alternative D) would have no effect on, thereby conserving, the outstanding opportunities for solitude or a primitive and unconfined type of recreation. Scenic resources would be conserved or enhanced by providing a designated, low-impact trail system that, in the long-term, should reduce visual impacts associated with social trail proliferation. As noted in the vegetation section, although some long-term adverse effects are anticipated, "the new trail construction and improved user experience will likely bring more visitors to the Sloan Canyon NCA. The increased number of visitors would likely create greater interest in desert ecology and a greater awareness and appreciation for the native plants and vegetation communities, which would be a beneficial effect since it could help promote more stewardship and conservation interest."

Commenter	Comm. #	Original Comment	Bureau of Land Management Response
Friends of Nevada Wilderness	2	Recognizing that the BLM may have already made commitments for the trail work perhaps there is little opportunity for reassessing the scope of this project but I hope that before the final decision is signed, the BLM will consider both the scope of the trails and the need to include extensive restoration.	In Section 1.5.5, the BLM acknowledges that resource damage as a result of unauthorized uses is extensive and is perpetuating a number of resource issues. Extensive restoration in the Sloan Canyon NCA would require a dedicated and focused planning process to identify and prioritize areas for restoration and to develop appropriate restoration strategies. An extensive restoration program is beyond the scope of this Trails Master Plan; however, the BLM does recognize that some immediate restoration must occur in conjunction with the trails effort to deter further proliferation of unauthorized routes <i>from</i> the designated trail system.  As part of this Trails Master Plan project, some restoration of user-created
			(unauthorized) routes is proposed. Page 2-24 of the Public Draft EA states," the BLM intends to close OHV or other user created routes that intersect proposed trails to facilitate appropriate use of the designated trail system. Specific techniques for route closure and restoration would vary by site. Restoration would include the use of a variety of techniques, including breaking up compacted surfaces, recontouring to the natural grade, seeding or planting of vegetation from local genetic sources, rock placement to mimic the form and texture of the surrounding landscape, or scattering vegetative debris to disguise the old route. Ultimately, the restored portion of the social routes would appear as natural.
Friends of Nevada Wilderness	3	It seems that with all the money the BLM has to rebuild new trails there might be a higher priority placed on being good stewards of the NCA and restoring the damaged and degraded habitat mentioned above. It seems that restoration would truly be conserving, protecting and enhancing the values of the NCA.	See response to Friend of Nevada Wilderness, #2. Additionally, the BLM has determined that in order to prevent further unauthorized uses and the proliferation of unauthorized routes, the NCA must provide designated trail facilities for acceptable uses. BLM intends to implement a more extensive restoration effort in the future, which may be compromised if unauthorized uses continue in response to a lack of appropriate, designated trails.
Friends of Nevada Wilderness	4	Maybe there is a way to incorporate a much more robust restoration component of this project in order to provide mitigation for the impacts associated with all the trail building.	The majority of identified impacts of trail construction in the NCA are short-term in nature, and related primarily to construction period disturbances (e.g., noise, presence of humans, etc.). See also Section 2.2.6, <i>Project Design Features</i> , which indicate several methods for using excess trail construction materials for on-site restoration (specifically, Vegetation #1, #2, #8, #10-#15 and Cultural #1, #2, and #4).
Thomas L. Butler	1	[Comments are general in nature and are supportive of the project.]	Comment noted.
State of Nevada Department of Wildlife	1	Generally, the Department remains concerned about increased recreational use of the Petroglyph Canyon area indicated in all alternatives analyzed. A number of studies (see enclosed Suggested References) have described negative impacts to desert bighorn sheep by recreational activities.	Once appropriate infrastructure is in place (e.g, designated trails, trailheads, etc.) visitor access to the Petroglyph Management Area, including the Petroglyph Canyon, will be regulated through a permit system and a requirement to visit the area with a BLM guide/docent. The BLM will be able to monitor and adjust permits, tour numbers, and/or group sizes as necessary to limit or reduce negative impacts to desert bighorn sheep as a result of recreational activities in this area.

Commenter	Comm. #	Original Comment	Bureau of Land Management Response
State of Nevada Department of Wildlife	2	A related observation is that the NCA's RMP refers to and agrees to manage bighorn sheep habitat in accordance with the BLM's <i>Rangewide Plan for Managing Habitat of Desert Bighorn Sheep on Public Lands</i> (1986). Pages 18 and 19 of the <i>Rangewide Plan</i> contain the 15 management practices and standards. However, two of these practices and standards could stand enhanced consideration in the Trails Plan.	Alternative D (Proposed Action) trails have been developed consistent with the RMP guidance to avoid new trail construction within 0.25 miles of wildlife water guzzlers. The only routes in the vicinity of the Poppy Guzzler are those that were previously agreed to by NDOW during the development of the RMP.  The following statement has been added to Section 2.4.2, Future
		The first standard establishes that, "Crucial areas, such as lambing grounds, migration routes, mineral licks, and areas within 1 mile of permanent water sources, will receive maximum habitat protection." Should trail use in the area negatively impact wildlife in the Poppy area, we anticipate that if effectively implemented, the BLM's monitoring will be adequate to demonstrate a need for corrective action such as realignment of the trail.	"Crucial wildlife areas, such as bighorn sheep lambing grounds, migration routes, mineral licks, and areas near permanent water sources, will receive maximum habitat protection. Excessive use by recreationists will be regulated on major desert bighorn use areas. The BLM will monitor trail use near the Poppy Guzzler to for effects on wildlife; should trail use near the guzzler be determined to have negative impacts on wildlife in the area, the BLM will pursue corrective actions such as realignment of the trail or seasonal closures."
State of Nevada Department of Wildlife	3	A related observation is that the NCA's RMP refers to and agrees to manage bighorn sheep habitat in accordance with the BLM's <i>Rangewide Plan for Managing Habitat of Desert Bighorn Sheep on Public Lands</i> (1986). Pages 18 and 19 of the <i>Rangewide Plan</i> contain the 15 management practices and standards. However, two of these practices and standards could stand enhanced consideration in the Trails Plan.  The ninth standard states, "Excessive use by recreationists will be regulated on major desert bighorn use areas." Should trail use in the area negatively impact wildlife in the Poppy area, we anticipate that if effectively implemented, the BLM's monitoring will be adequate to demonstrate a need	See response to previous comment (NDOW Comment #2).
State of Nevada Department of Wildlife	4	for corrective action such as realignment of the trail.  The Trails Plan does not disclose the RMP requirement that all dogs are to be on a leash in the NCA and that dogs are prohibited from Petroglyph Canyon.  This needs to be corrected.	A statement will be added to the Final EA to clarify the RMP requirement that all dogs must be on a leash in designated areas and that dogs are not permitted in the Petroglyph Management Area.
State of Nevada Department of Wildlife	5	The Department insists that the Trails Plan include a monitoring program inclusive of addressing the NCA dog regulations and which provides a mechanism for proactive measurement of non-compliance upon which responsive management actions are based.	The following statement has been added to Section 2.4.2, Future Effectiveness Monitoring, per NDOW's suggestion:  "The BLM will monitor and enforce NCA dog regulations on designated trails and cross-country hiking areas in the NCA."

Commenter	Comm. #	Original Comment	Bureau of Land Management Response
State of Nevada Department of Wildlife	6	The Department is generally supportive of Alternative D, but contingent on a strongly recommended modification. In Alternative D, the Dutchman Pass area appears to have become sacrificial to accommodate heightened recreation opportunities. In view of the clear mandate for the NCA and the stated intent by Senators Reid and Ensign, the trails system in the Dutchman Pass area should more resemble that described in Alternative B.	The goal of the additional Alternative D trails in the Dutchman Pass area is to incorporate routes that have been traditionally used and are in areas that are currently impacted. Several Dutchman Pass area trail connections shown in the Public Draft EA have been determined to be unnecessary and will be removed from the final plan.
State of Nevada Department of Wildlife	7	Regardless of the alternative selected, the Department recommends a phased approach to trails development, particularly in the Dutchman Pass area.	The BLM's original intent was to phase construction of the trail system. However, with the reduction in proposed trails under Alternative D due to resource concerns and the fact that outside funding has been secured to construct the entire system, it is the BLM's plan to build the system in one phase.
Rodney Ward	1	The Alternative D, 2 miles of hike and Equestrian only trail should be changed to Hiking only or include Mountain Biking. There is no reason not to allow Mountain Bikes.	The 2.0 miles of hiking and equestrian only trails shown in Table 2-3 (page 2-4) are located in the Hidden Valley area, outside of the Petroglyph Management Area and areas intended for hiking only. Mountain biking is not allowed in this portion of the NCA per the 2006 RMP. See also Map 3 (page 1-10) which indicates where mountain biking is allowed per the 2006 RMP.
Rodney Ward	2	Table 2-2 Trail Widths: Need clarification of width of trails for by trail.	A description of trail tread, surface, and conditions is provided on pages 2-16 and 2-17.
Rodney Ward	3	Going forward on the trail building and design, I suggest hiring or consulting with the International Mountain Bike Association to create a sustainable, multiuse trail system.	Comment noted. A representative of IMBA has been on the project mailing list since the beginning of the project and has been included in project notifications and solicitations for comments and stakeholder involvement throughout this process.
Rodney Ward	4	Include all user groups to ensure a sustainable, multiuse trail system. As it appears today, the plan appears to be built specifically for 1 main user group. This should NOT be the case.	The 2006 RMP identifies three primary trail user types: equestrian, mountain bike, and hiking. The 2006 RMP established zones for where each of these uses is and is not allowed, as well as cross-country travel restrictions for each use type. The BLM has developed trail network alternatives consistent with the acceptable uses and zones identified in the 2006 RMP. Proposed trails in the Dutchman Pass area are intended for each of the three user types; trails in the Black Mountain area are intended for hiking only, consistent with RMP requirements; and trails in the Hidden Valley area (with the exception of the Petroglyph Management Area) have been developed for hiking and equestrian uses. Sections 1.5.1 and 1.5.2 and Map 3 provide a summary description of RMP-defined Management Emphasis Areas, designated use areas, and prohibited use areas.