

APPENDIX B

Management Action Implementation Schedule

Action Item	Timeframe Within				Lead & Partners	Priority
	On Going	2 Yrs	5 Yrs	10 Yrs		
TRAVEL MANAGEMENT AND ACCESS (Section 3.2.1)						
Motorized Recreation						
Install trail signage to clearly indicate authorized travel.			X		BLM & Counties	Medium
Provide maps at kiosks; partner with user groups to distribute maps and responsible riding ethic materials to users and the public.	X				BLM & Counties, Tread Lightly, Stay the Trail	High
Travel Management Network						
Designate and sign 16.4 miles of existing roads and trails as open to different types of motorized and non-motorized public access as illustrated in Table 3.7 and shown in Figure 2-2.				X	BLM	Medium
Recommend 15 miles of Cement Creek and Corkscrew Roads to the Colorado Scenic and Historic Byway Committee to become part of the Alpine Loop (Figure 2-1).			X		BLM & Byway committee members	Medium
Evaluate all new single track trails proposed for other uses (e.g., foot, horse) outside of Wilderness and Wilderness Study Areas for their potential and suitability for use by mountain bikes.		X			BLM & mountain bikers	Low
Manage new and existing trails in RMZ-1 - Alpine Backcountry exclusively for non-motorized use.		X			BLM	Medium
Transportation Facilities						
Monitor existing ATV staging area at Henson Creek; expand facility if demand regularly exceeds capacity.	X				BLM & Hinsdale County	Low
Maintain and improve, as necessary, the existing ATV staging areas at Henson Creek, Lake Fork of the Gunnison River, and town of Eureka along the Alpine Loop.	X				BLM	Medium
Expand parking at Williams Creek Trailhead to accommodate up to six vehicles. Prior to implementation of this proposed action, all Forest Service-particular environmental requirements, including MIS surveys, would be completed.	X				Full cooperation with GNF.	
Expand parking at the American Basin Trailhead to accommodate up to 15 vehicles, with special attention to mitigation of visual impacts the expansion.			X		BLM	Low
Develop designated trailheads and associated parking areas at the entry points to Grouse Gulch and Cunningham Gulch Trails.					BLM	Medium

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Designate access routes and parking at various undeveloped campsites locations in the Project Area and delineate pullouts and parking areas to prevent them from increasing in size and unnecessarily effecting resources.	X				BLM	Medium
Monitor undeveloped campsites for impacts to cultural resources and close campsites that are impacting cultural resources or are within 150 feet of historic structures.	X				BLM	High
Management, Maintenance and Monitoring of the Transportation System						
Management						
Install barriers or signs at the end of designated roads.			X		BLM & Counties	Medium
Block and/or rehabilitate closed roads and trails, as funding permits, with the most appropriate site-specific strategy.			X		BLM	Medium
Prioritize enforcement of the travel management network by keeping all types of use (e.g., street legal motorized vehicle, bicycle, ATV) on designated roads and trails.	X				BLM	Medium
Pursue additional funding and/or partnerships to improve management.	X				BLM & Counties	High
Work cooperatively with county and other agency law enforcement officials to increase patrols along the Alpine Loop during the high use season (i.e., July and August), during special events (e.g., Colorado 500), and in areas experiencing high levels of unauthorized, cross-country travel.	X				BLM	Medium
Train law enforcement personnel, permanent staff, seasonal employees, and volunteers who work in the Project Area about the management goals, and rules and regulations that apply.	X				BLM & Counties	High
Encourage law enforcement personnel to attend the Archaeological Resource Protection Training Program.	X				BLM	High
Manage roads and trails on public land that are not designated as open to the public to minimize resource impacts and prevent their unauthorized use.	X				BLM	Medium
Work with the Forest Service to cooperatively manage trails located on both BLM and Forest Service lands, share information on trail conditions, and coordinate trail maintenance activities.	X				BLM	Medium
Evaluate the feasibility of building and maintaining a limited number of trails in the urban interface to Silverton and Lake City. To the extent possible, connect these trails with existing or future systems of trails surrounding these towns.	X				BLM	Medium
Maintenance						
Periodically maintain the transportation management network be to ensure reasonable public access, minimize resource impacts, and reduce safety hazards.	X				BLM & Counties	High
Monitoring						
Encourage all permanent, seasonal, and volunteer recreation staff working in the Project Area to monitor road and trail conditions as they carry out their daily work activities.	X				BLM	High

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Maintain regular communication with county road crews, visitor center staff, outfitters and other sources of information to stay informed about current road and trail conditions.	X				BLM & Counties & Visitor Centers	Medium
Provide backcountry patrols to protect WSAs consistent with the BLM's Interim Management Policy (IMP) until legislation takes effect to change their status.	X				BLM	High
Improve patrol and enforcement presence in the Project Area.	X				BLM & Counties	High
Provide support for the SJMA CSSP to monitor the condition of key historic/heritage tourism resources and those along vehicle transportation routes and assist where needed with preservation efforts at these sites.	X				BLM & Historic Societies	Medium
Winter Transportation System						
Work cooperatively with such groups as the Continental Divide Snowmobile Club in Lake City and the Silverton Snowmobile Club in Silverton to allow them to groom authorized routes. .	X				BLM	High
Monitor the winter transportation system periodically to ensure that it meets recreation goals for the area, and to ensure that inappropriate impacts to other resources are minimized or eliminated.	X				BLM & Snowmobile Clubs	Medium
Maintain and improve partnerships with cross-country skiing organizations to address such issues as trail grooming, safety, and skier education.	X				BLM & Nordic Skiers	Low
Work with the snowmobile community to educate snowmobile operators on wilderness restrictions and boundaries.	X				BLM & Snowmobile Clubs	High
Patrol the boundaries of designated wilderness and WSAs to identify and resolve illegal snowmobile incursions into these areas.	X				BLM	Medium
Public Access Easements						
Develop a process for identifying those easements which are currently needed or may be needed in the future in order to support the transportation management network.	X				BLM & Counties	Medium
Prioritize the acquisition of these easements across private lands from willing landowners.	X				BLM & Counties	Medium
Pursue public access easements, with willing landowners, on private property that is crossed by Grouse Gulch Trail and Maggie Gulch Trail.	X					

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	On Going	2 Yrs	5 Yrs	10 Yrs		
RECREATION MANAGEMENT – SPRING, SUMMER, AND FALL USE (Section 3.2.2)						
Visiting Cultural Sites and Heritage Tourism						
Cooperate with cultural program specialists and other partners to identify, document and prioritize the cultural resources on public land that attract visitors and residents or are marketed as heritage tourism sites and can benefit from improved management and stabilization.	X				BLM	Medium
Prepare Public Use and Preservation Plans for these sites and stabilize historic structures to prevent their deterioration.			X		BLM	Medium
Repair damage to historic structures from public use and natural causes where feasible or necessary to resolve or maintain safety issues and assure site accessibility/interpretability for public use.	X				BLM & Historical Societies	Medium
Continue to cooperate with a variety of interests including historical societies, individuals, and groups in surrounding towns as well as national and state conservation groups and educational institutions to accomplish cultural resource programs.	X				BLM & many partners	Medium
Look for grant opportunities, assistance from the State Historic Fund, and other funding sources to help accomplish cultural resource programs in accordance with the Secretary of the Interior's Standards and Guidelines for Historic Preservation.	X				BLM & Historical Societies	Medium
Investigate marketing strategies to get cultural resource program work done through the recreation industry.						
Update the Alpine Triangle CRMP to direct and schedule implementation to assure sustainable heritage tourism			X?		BLM	Medium
Work with agency Cultural Resource Specialists to initiate a Site Steward program in Hinsdale County with volunteers to help monitor and preserve high priority heritage tourism sites.	X				BLM & Historical Societies	Medium
Continue to support the San Juan Mountain Association's Cultural Site Steward Program to provide a cadre of trained monitoring and preservation volunteers for San Juan County.	X				BLM & Historical Societies	High
Identify high priority cultural resource sites on private land that are in reasonably good condition, played an important role in the history of the area, and are currently visited by the public or have the potential to be an interesting site that the public could visit.		X			BLM	Medium
Prohibit camping or fires within 150 feet of historical structures.		X			BLM	Medium
Review undeveloped campsites for impacts to cultural resources and close or dismantle campsites that have been established too close to cultural sites.	X				BLM	Medium
Acquire private parcels through purchase or exchange, to the extent allowed by budget and staffing to help ensure the protection of high value historical buildings or sites.	X				BLM	Medium

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	On Going	2 Yrs	5 Yrs	10 Yrs		
Develop educational recreation programs targeted at discovering, protecting, interpreting and enhancing cultural resource sites through stewardship activities at heritage tourism sites.	X				BLM	Medium
Work with recreation outfitters that visit historic sites to include historic preservation practices and education in their offerings.	X				BLM	Medium
Document and preserve the historic landscape on BLM (and adjacent visible FS lands).	X				BLM	Medium
Work with counties and private landowners to eliminate or minimize impacts to the quality of heritage tourism.	X				BLM & Counties & landowners	Medium
Hunting and Shooting						
Continue regular patrols during hunting season.	X				BLM	High
Fishing						
Clearly mark boundaries of isolated parcels of public land that offer good opportunities for fishing.	X				BLM	High
Maintain and improve streams with good fishery potential. Look for opportunities to cooperate with the CDOW and interest groups (e.g., Trout Unlimited) to carry out appropriate habitat improvement projects.	X				BLM & DOW & Trout Unlimited	Medium
Reduce the amount of impacts to riparian vegetation from recreation and other causes to provide shade, hiding cover and food sources.	X				BLM	Medium
Continue ongoing efforts to identify point source pollution coming from old mines and remediate those problems to improve water quality.	X				BLM & CO Mined Land Reclamation	High
Work with County Road crews and other partners to reduce the amount of sediment that flows into streams.	X				BLM & Counties	Medium
Camping						
Provide maintenance for developed and undeveloped campground sites.	X				BLM & volunteers	High
Recruit and support volunteer campground hosts to help with maintenance and to offer information and education to visitors.	X				BLM & volunteers	Medium
Acquire and install bear boxes at all sites in campgrounds where bears are becoming a problem.			X		BLM	High
Patrol the Project Area to detect and resolve problems with illegal squatters and campers staying beyond the 14-day limit.	X				BLM	High
Continue discussions with San Juan County concerning the possibility of developing a campground near the historic townsite of Eureka.						
Designate already established vehicle-based dispersed camping sites as appropriate and manage them to reduce impacts from parking and camping activities.			X		BLM	Low

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Rock Climbing						
Monitor known climbing areas to evaluate the amount of use they are receiving and to detect problems or resource impacts.	X				BLM	Medium
Close climbing areas where active cliff nesting birds are present within 100 yards on either side of the nest until the birds have left the nest for the season.	X					Medium
Evaluate undesignated trails leading to climbing areas following the objectives and management actions prescribed under Travel Management and Access.	X					Medium
Remove anchors found in wilderness areas.						
Horseback Riding and Pack Animals						
Consider establish hitching racks, adequate parking for vehicles with horse trailers or other horse related accommodations at trailheads receiving regular stock.	X				BLM	Low
Geocaching						
Remove artificial cache materials established in designated wilderness or WSAs.	X				BLM	Low
Review the location of existing caches on public land to identify those that may be steering increased use to sensitive areas or encouraging trespass on private lands.	X				BLM	Medium
Consider identifying existing cache locations that are in appropriate places and providing information on those caches to visitors.	X				BLM	Low
RECREATION MANAGEMENT – WINTER USE (Section 3.2.3)						
Snowmobiling						
Continue to work with snowmobile clubs to decide which trails may be groomed. Apply for grant funding from the State Snowmobile Fund to support grooming future trails as they are identified.	X				BLM & Snowmobile clubs	High
Review and permit grooming operations on approved trails, as appropriate.	X				BLM & Snowmobile clubs	Medium
Manage and maintain trailhead facilities for winter recreation activities.	X				BLM & Snowmobile clubs	Medium
Monitor less traditional downhill activities (i.e., hybrid skiing) that are supported with snowmobiles to detect and resolve any resource impact, skier conflicts, or safety concerns that may be occurring.	X				BLM	Low
Developed Downhill Skiing, Snowboarding, Cross-country Skiing, and Snowshoeing						
Monitor the operations at Silverton Mountain Ski Area to ensure that they are following the terms of their lease.	X				BLM	High

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	On Going	2 Yrs	5 Yrs	10 Yrs		
Monitor the operations at Kendall Mountain Ski Area and Lake City Ski Hill to ensure that they are following the terms of their Recreation and Public Purposes Act lease.	X				BLM	Medium
Ice Climbing						
Evaluate natural ice climbing areas to determine their suitability for regular use based on legal access, resource impacts, and safety.			X		BLM & Ice Climbers	Medium
Consider marking access routes to ice climbing areas to avoid trespass or inappropriate resource impacts.	X				BLM & Ice Climbers	Medium
RECREATION MANAGEMENT – RESOURCE PROTECTION (Section 3.2.4)						
Threatened, Endangered, and Sensitive Species						
Manage recreation to minimize or eliminate impacts to federally listed threatened, endangered, or candidate species in accordance with the Endangered Species Act (ESA).	X				BLM	High
Manage recreation to prevent associated impacts from pushing sensitive species on to the list of federally threatened, endangered, or candidate species.	X				BLM	High
Comply with Canada lynx conservation measures as required by USFWS.	X				BLM	High
Continue to manage the upper part of the hiking trail to Redcloud Peak to reduce off-trail travel that could impact habitat for the endangered insect that occurs there.	X				BLM	High
Outfitters would be required and the public would be encouraged to camp below 12,000 feet in the Silver Creek drainage.	X				BLM	Medium
Wilderness and Wilderness Study Areas						
Manage WSAs in the Project Area as directed by the BLM's IMP Handbook.	X				BLM & Volunteers	High
Manage commercial outfitter use in designated wilderness and WSAs to reduce crowding and to maintain the desired social settings for RMZs.	X				BLM & Outfitters	Medium
Lands & Realty						
Work with willing landowners to reduce impacts that threaten the Project Area's recreation potential on private inholdings by means of education, conservation easements, donation, exchange, or acquisition.	X				BLM & Landowners	Medium
Work in partnership with organizations, such as the San Juan Alpine Task Force and Red Mountain Project, to protect and preserve historic landscapes and structures within the project area through acquisition from willing sellers.	X				BLM & Alpine Task Force, Red Mt. Project	Medium
Local Land Use Plans						

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	On Going	2 Yrs	5 Yrs	10 Yrs		
Participate in local land use planning efforts to ensure that public land perspectives are considered.	X				BLM & Counties & Towns	High
Visual Resources						
Work with local municipalities, land trusts and other willing partners to acquire lands or conservation easements on lands that are key scenic assets as viewed from the Alpine Triangle.	X				BLM & many partners	Medium
Educate local land owners, municipalities and other willing partners concerning best management practices for protection of scenic qualities of the natural and cultural landscape.	X				BLM & landowners	Medium
Conduct a visual resource inventory of the Alpine Triangle to assess current visual resource conditions, to identify valued cultural components and landscapes, and to identify areas for enhancement and restoration.						
Other Resources						
Identify incentives and options for willing landowners to protect cultural resources located on their private property. If possible, work with landowners and local governments to create these incentives or options if they do not exist.	X				BLM, Historical Societies & landowners	Medium
Look for opportunities to improve water quality to help ensure healthy fisheries.	X				BLM & CO DRMS	High
Treat known weed infestations to reduce the potential for recreation activities to spread seeds.	X				BLM	High
Work with livestock operators to exclude or minimize the time that livestock spend in and around popular recreation sites and facilities to reduce conflicts between grazing and recreation.	X				BLM & ranchers	Low
Coordinate the annual release and collection of domestic sheep to be sure it does not occur on weekends or over holidays during July and August.	X				BLM & ranchers	High
Work with livestock operators to ensure that sheep camps are 500 feet from historic structures, and require livestock operators to educate their employees on the laws protecting cultural resources, which include prohibiting the use of wood from historic structures as firewood.	X				BLM & ranchers	Medium
RECREATION MANAGEMENT – FACILITIES, SIGNS, AND INTERPRETATION AND EDUCATION (Section 3.2.5)						
Facilities						
Continue to manage the BLM visitor contact station in Lake City in cooperation with the Chamber of Commerce and U.S. Forest Service.	X				BLM, FS & Chamber	High
Continue to manage the BLM visitor contact station at the Silverton Public Lands Center in cooperation with the San Juan Mountains Association and U.S. Forest Service.	X				BLM & FS	High

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	On Going	2 Yrs	5 Yrs	10 Yrs		
Continue to work in partnership with the U.S. Forest Service to provide informational and educational materials to the Visitor Information Centers in Ouray, Montrose and Durango for distribution to visitors.	X				BLM & Chambers	Medium
Work in cooperation with local communities (e.g., Chambers of Commerce), counties, and other stakeholder groups to identify and prioritize the need for additional facilities.	X				BLM & Chambers	Low
Maintain facilities using the guidance outlined in Section 3.2.5 of the RAMP.	X					
Signs						
Maintain an inventory of all signs in the Project Area, and regularly evaluate their necessity and effectiveness.	X				BLM & Counties	Medium
Work in cooperation with local communities, counties, and other stakeholder groups to develop and maintain an effective sign program using the criteria outlined in Section 3.2.5 of the RAMP.	X				BLM & various partners	Medium
Maintain and monitor signs, including replacing/repairing at the beginning of each season, as necessary.	X				BLM & Counties	Medium
Outfitters and Special Events						
Encourage outfitter permittees to incorporate interpretive/educational components into their trips.	X				BLM & Outfitters	Medium
Develop and offer training programs, as necessary, to assist outfitters and guides in understanding and presenting Tread Lightly, Leave No Trace, local history, cultural site etiquette and other topics to their clients.	X				BLM & Outfitters	Medium
Fees						
Reevaluate fees periodically to ensure that they are at or near fair market value.	X				BLM	Medium
RECREATION INFORMATION, EDUCATION, AND MARKETING (Section 3.2.7)						
Work with community partners to develop, produce, fund, and distribute a variety of appropriate information and marketing materials, including periodic review of these materials, to ensure consistency with the management objectives and framework identified and to ensure that information is accurate.	X				BLM, FS & Chambers	Medium
Develop general message materials using a variety of media for the following: information, rules and regulations, education and interpretation, and promotion and advertising.	X				BLM, FS & Chambers	Medium
Develop specific message materials using a variety of media for the following activities: motorized vehicle recreation; hunting; fishing; boating; cultural resources; mountain biking; camping; rock climbing; geocaching; horse use; snowmobiling; cross-country skiing; ice climbing; noise; interpretation; and education.	X				BLM, FS & Chambers	Medium

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	On Going	2 Yrs	5 Yrs	10 Yrs		
Continue to develop, review, update, and distribute the following marketing materials: Alpine Loop two-fold lure piece; Alpine Explorer; The Alpine Loop, ATV's and Unlicensed Motorcycles Summer Travel Routes; Guided Tour of Animas Forks and the Sound Democrat Mill; Alpine Wildflowers brochure; Wildlife of the Alpine Loop.	X				BLM, FS & Chambers	Medium
Work with local clubs, Chambers of Commerce, U.S. Forest Service and others to actively promote winter recreation activities (e.g., snowmobiling, skiing, snowshoeing, ice climbing) as a means of drawing additional business to local communities during the slow winter season.	X				BLM, FS & Chambers	Medium
RECREATION MONITORING (Section 3.2.8)						
Develop a monitoring strategy that uses key indicators to evaluate social, environmental, and administrative standards and documents findings (Appendix A).	X				BLM	Medium
Continue to work with a variety of partners including the counties, county historical societies, San Juan Mountain Association, Colorado Historical Society, and willing private land owners to assist with identifying, monitoring and preserving heritage tourism sites.	X				BLM & various partners	Medium
Assess and managing vehicle-use in the Project Area applying the monitoring strategy outlined in Section 3.2.9 of the RAMP.	X				BLM	High
Monitor physical, social, and administrative conditions of each RMZ to ensure that the desired settings are being managed for.	X				BLM	Medium
RECREATION COLLABORATION (Section 3.2.9)						
Build and maintain partnerships with agencies, groups, and individuals that have an interest in recreation and recreation resource management in the Project Area.	X				BLM & various partners	High
Work toward entering into cooperative agreements with non-profit organizations (e.g., Mountain Studies Institute) and citizens and user groups that have adequate resources and expertise to assist in the management of public lands in the Project Area.	X				BLM & various partners	Medium
Consider, where appropriate, contracting with private sector businesses, nonprofit organizations, academic institutions, or State and local agencies to accomplish essential studies, monitoring, or project development.	X				BLM & various partners	Medium
MANAGEMENT UNIQUE TO EACH RECREATION MANAGEMENT ZONE (Section 3.3)						
Specific Management for RMZ 1 – Alpine Backcountry						
Facilities and Signs						
Allow a limited number of signs for resource protection or public safety.	X				BLM	Medium

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Install a sign would along Silver Creek Trail, where it descends from Redcloud Peak, educating visitors to stay on the trail to avoid Uncompahgre Fritillary Butterfly colonies located in the area.		X			BLM	High
Periodically maintain trails to provide access for recreation but no additional water, restrooms, or other visitor amenities or facilities would be provided unless they are necessary to protect resource values.	X				BLM & various partners	Medium
Resource Protection						
No ground-disturbing activities would be allowed in snow willow patches above 12,500 feet in elevation in order to protect potential habitat for the Uncompahgre Fritillary Butterfly.	X				BLM	High
Specific Management for RMZ 2 – Heritage Roads						
Facilities and Signs						
Facilities and signs would be added as necessary for visitor use, safety, and the protection of sensitive resources.	X				BLM	Medium
Develop a designated camping area at Cunningham Gulch to include up to 10 camping areas that could accommodate 2-3 vehicles and one larger area for 8-10 vehicles; install vault toilets and picnic tables.						
Develop a designated camping area in close proximity to the town of Eureka only if San Juan County partners with BLM toward funding its construction and long-term maintenance.						
Work in partnership with Hinsdale County to formally develop manmade ice climbing opportunities outside the town of Lake City on the south side of Henson Creek canyon as far up as the Henson Creek ATV Staging Area (~0.5 mile).			X		BLM & Ice Climbing group	Medium
Work in partnership with San Juan County to formally designate and improve the existing Eureka ice-climbing area, outside the historic town of Silverton.						
Examine the necessity of installing a universal access vault restroom near the entrance to American Basin.	X				BLM	Low
Specific Management for RMZ 3 – Animas/Lake Fork River Corridor						
Whitewater Boating						
Look for an opportunity to identify and secure a legal put-in for boaters in or near Lake City that includes some parking and reasonable access to the river.	X				BLM, Town & County	Medium
Improve boater's access to the river at the Devil's Creek Bridge area by clearing a path down to a suitable launch site on the river.		X			BLM	Medium
Improve boater access to the river at or near the Red Bridge Campground.			X		BLM	Medium
Construct a put-in for boaters and kayakers along the Animas River.						
Conduct periodic patrols during the early boating season to determine if there are obstructions on private land that might lead to trespass if boaters portage around these obstacles.	X				BLM & River outfitters	Medium

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Work with volunteers during National Rivers Week in May to conduct cleanup, rehabilitation or improvement of the river and riparian corridors.	X				BLM & Volunteers	Medium
Work cooperatively with the Colorado River Outfitters Association (CROA) to educate boaters and/or improve the river and riparian corridors under the existing Memorandum of Understanding (MOU) that BLM has signed with them.	X				BLM & River Outfitters	Medium
<i>Travel Management and Access</i>						
Maintain and improve public access to fishing and boating opportunities, whenever possible.	X				BLM	Medium
<i>Facilities and Signs</i>						
Add facilities and signs as necessary for visitor use, safety, and the protection of sensitive resources.	X				BLM	Medium
Improve public fishing opportunities by appropriately signing existing public land and public fishing easements.	X				BLM	High
<i>Resource Protection</i>						
Work in cooperation with CDOW to evaluate the need to institute a mandatory catch and release program.	X				BLM & DOW	Low
Comply with conservation measures for wintering bald eagles required by the USFWS.	X				BLM	Medium

APPENDIX C

Monitoring Plan Example – Compliance with Travel Designations

Management Goal – Motorized and mechanized vehicle users are expected to comply with BLM travel designations. During the spring, summer and fall all motorized vehicles and mountain bikes will stay on routes designated as open for those uses and vehicle type. During the winter, snowmobiles, snowcats, tracked ATVs and other motorized vehicles may travel over the snow, but must not operate within the boundaries of designated Wilderness or Wilderness Study Areas.

Monitoring Actions – BLM staff and volunteers will be made aware of the vehicle and route designations in the SRMA by formal training and on-the-job training. During regular duties of patrol, maintenance and visitor contact BLM staff and volunteers will make observations and routinely monitor for evidence of non-compliance with designations. BLM Rangers, the cooperative Alpine Ranger, and the local sheriff office will be encouraged to periodically patrol the routes in the SRMA looking for conditions generally and violations of travel designations. Periodic patrols during the winter would be carried out to detect inappropriate snowmobile use in closed areas as resources allow. Reports of inappropriate use from the staff/volunteers/public would be followed used to determine patterns of use or reported to BLM Rangers for investigation if necessary

Indicators That Will Be Monitored – Staff will look for vehicles parked or driving off the designated routes. They will also look for evidence such as tracks, disturbed soil or crushed vegetation that indicates patterns of vehicles traveling off designated routes.

Locations and Times BLM Plans to Monitor – The land immediately adjacent to all designated routes are the most likely places to detect inappropriate use. The boundaries of Wilderness and Wilderness Study Areas will be high priority areas for regular patrols to detect and deal with inappropriate uses. A recurring problem spot that should be regularly monitored is the Snare Creek Road. Particular attention should also be paid to the boundaries between public land and private land where unauthorized access routes can often develop. Popular camping areas such as Burrows Park and the Eureka Townsite are also likely locations for vehicles to push into areas that they should not be. Popular, scenic or sensitive areas such as American Basin or Animas Forks are also areas that should be regularly monitored. The peak of the summer season (July 1st to August 20th) and the hunting season (Sept 1st to November 15th) will be a priority for patrols.

Limits of Acceptable Change – Isolated instances of vehicle violations rarely cause enough damage to be of significant concern though violations in wet or muddy conditions can be more noticeable. These isolated violations will be treated as an enforcement issue. Patterns of repeated violations occurring in the same area require corrective management action. Areas with repeated violations can start to create a noticeable route that other recreationists follow. With increased use on a particular unauthorized route, impacts to soils, vegetation and scenery are more noticeable. These would be considered unacceptable changes since these types of impacts are often slow to heal in alpine and subalpine ecosystems. Our goal would be to curtail repeated use before these noticeable impacts develop.

Corrective Actions To Be Taken – BLM will continue to be sure that information about vehicle designations and responsible use are included in visitor information materials. All observed violations of vehicle designations should be dealt with immediately. If vehicles are noted in areas they should not be the staff will make an attempt to contact the owner or operator of the vehicle either directly or with a written warning to encourage compliance with the rules. If the violation is blatant or causes significant damage then staff will be encouraged to record pertinent information such as name, location, date, time, license number and photographs so that law enforcement can follow up. Violations detected after the fact should be repaired or obliterated as much as possible to discourage repeated use. Areas where repeated violations are starting to occur should be physically blocked with rocks, logs or other barriers. Signs reminding visitors to stay on the designated routes may also be appropriate. These areas would also benefit from increased patrol.

APPENDIX D

Name	Ownership	MAINT_RESP
Access to Crystal Lodge	BLM	BLM
Alaska Basin	BLM	County
Alaska Basin	FS	County
Alaska Basin	PVT	County
Alpine Gulch Trail	BLM	BLM
Alpine Gulch Trail	PVT	BLM
Alpine Loop	BLM	County
Alpine Loop	PVT	County
Alpine Loop	PVT	County
Alpine Loop	PUB	State
Alpine Loop - Cinnamon Pass	BLM	County
Alpine Loop - Cinnamon Pass	PVT	County
Alpine Loop - Engineer Pass	BLM	County
Alpine Loop - Engineer Pass	BLM	County
Alpine Loop - Engineer Pass	BLM	County
Alpine Loop - Engineer Pass	PVT	County
Alpine Loop - Engineer Pass	PVT	County
Alpine Loop Byway	BLM	BLM
Alpine Loop Byway	BLM	County
Alpine Loop Byway	PVT	County
Alpine Plateau Rd	PVT	None
Am Basin to Grouse Gulch	BLM	BLM
American Basin Rd 3314	BLM	BLM
American Basin Rd 3314	PVT	BLM
American Basin Trail	BLM	BLM
American Basin Trail	PVT	BLM
Animas Forks	BLM	County
Animas Forks	PVT	County
Arrastra Gulch	BLM	County
Arrastra Gulch	PVT	County
Back of Lake San Cristobal	CO053	County
Bear Creek Trail	BLM	BLM
Blue Mesa Cutoff	BLM	County
Blue Mesa Cutoff	PVT	County
Bonne Homme Mine	BLM	Private
Boulder Gulch Trail	BLM	Private
Burns Gulch	BLM	County
Burns Gulch	PVT	County
Burrows Creek	BLM	County
Burrows Creek	PVT	County
Caledonia Mine Rd	PVT	County
California Gulch	BLM	County
California Gulch	PVT	County
Capitol City sheep corrals	BLM	BLM
Cataract Gulch Trail T3318	BLM	BLM
Cataract Gulch Trail T3318	PVT	BLM
Cement Creek Rd	BLM	County
Cement Creek Rd	BLM	County
Cement Creek Rd	PVT	County
Champion Mine	BLM	County
Champion Mine	PVT	County

Clausen Mesa Meadow Rd	BLM	BLM
Clausen Mesa Rd	BLM	BLM
Colorado Trail	BLM	BLM
Continental Divide NST ReRoute	FS	None
Cooper Creek Trail T-3313	BLM	BLM
Corkskrew Rd	BLM	County
Corkskrew Rd	PVT	County
Cottonwood Creek Rd	BLM	BLM
Cottonwood Creek Rd	BLM	County
Cottonwood Creek Rd	PVT	County
Crystal Lake Trail	BLM	BLM
Cuba Gulch Trail	BLM	BLM
Cuba Gulch Trailhead	BLM	BLM
Cunningham Gulch Rd	BLM	County
Cunningham Gulch Rd	PVT	County
Cunningham Gulch Trail	BLM	County
Devil's Creek Trail	BLM	BLM
Devil's Creek Trailheads Rd	BLM	BLM
East Cement Creek	BLM	County
East Cement Creek	PVT	County
Eureka Gulch Rd	BLM	County
Eureka Gulch Rd	PVT	County
Grizzly Gulch Trail	BLM	BLM
Grouse Gulch/American Basin Tr	BLM	BLM
Hanson Peak	BLM	County
Hanson Peak	PVT	County
Henson Creek ATV Staging area	BLM	BLM
Henson Creek Rd	BLM	County
Henson Creek Rd	PVT	County
Henson Creek Trail	BLM	BLM
Henson Hilton Rd	BLM	BLM
Highland Mary Lakes Trail	BLM	BLM
Highland Mary Lakes Trail	FS	None
Hill 71 Rd	BLM	BLM
Horseshoe Lake Trail	BLM	BLM
Horseshoe Lake Trail	PVT	BLM
Horsethief Trail	BLM	BLM
Hundred Mine Rd	BLM	County
Hundred Mine Rd	PVT	County
Hurricane Peak	BLM	County
Hurricane Peak	PVT	County
Kansas City Mine Rd	BLM	County
Kansas City Mine Rd	PVT	County
Kendall Cr	BLM	County
Kendall Cr	PVT	County
Kitty Mack Mine Rd	BLM	County
Kitty Mack Mine Rd	PVT	County
Lake City Streets & Subdiv Rds	PUB	City
Lake City Streets & Subdivis	PUB	City
Lake Fork Canyon Rd	BLM	County
Lake Fork Trail	BLM	BLM
Lake To Lake Trail	BLM	BLM

Lake To Lake Trail	BLM	BLM
Lake To Lake Trail	CO053	BLM
Lake to Lake Trail	BLM	BLM
Lead Carbonate Mill	PVT	County
Little Giant Basin	BLM	County
Little Giant Basin	PVT	County
Little Giant Basin	PVT	County
Lower Bent Creek	BLM	BLM
Maggie Gulch Rd	BLM	County
Maggie Gulch Rd	PVT	County
Maggie Gulch Trail	FS	None
Mayflower Mine	BLM	County
Mayflower Mine	PVT	County
Middle Fork Cement Creek	PVT	County
Mill Creek Campground Rd	BLM	BLM
Mill Gulch Trail	BLM	BLM
Minnehaha Basin	BLM	County
Minnehaha Basin	PVT	County
Minnehaha Basin	PVT	Private
Minnie Gulch Rd	BLM	County
Minnie Gulch Rd	PVT	County
Minnie Gulch Trail	FS	FS
Minnie Gulch Trail	BLM	BLM
Molas Lake Campground	PVT	Private
Molas Trailhead	BLM	State
Nellie Creek Meadow Rd	BLM	BLM
Nellie Creek Rd	BLM	County
Nellie Creek Rd	FS	County
North Henson Creek Rd	BLM	County
North Henson Creek Rd	FS	County
North Henson Creek Rd	PVT	County
Ooh Point Rd	BLM	County
Picayne Gulch Rd	BLM	County
Picayne Gulch Rd	PVT	County
Placer Gulch Rd	BLM	County
Placer Gulch Rd	PVT	County
Poughkeepsie Gulch	BLM	BLM
Prospect Gulch - Lark Mine	BLM	County
Prospect Gulch - Lark Mine	PVT	County
Pull Out	BLM	BLM
Rambouillet Park Rd	BLM	BLM
Rambouillet Park Rd	FS	None
Red Mountain Gulch Rd	BLM	County
Ridge Stock Driveway	BLM	BLM
Road above Crystal Lodge	BLM	BLM
Road to LC Water Tank	BLM	BLM
Rocky Gulch	BLM	BLM
Rocky Gulch	BLM	County
Rocky Gulch	PVT	County
Rose's Cabin Rd	BLM	County
Rose's Cabin Rd	PVT	County
Roundtop Mountain Rd	BLM	County

Roundtop Mountain Rd 3305	BLM	County
Sawmill Park Rd	BLM	County
Schafer Gulch Rd	BLM	County
Silver Creek Trail	BLM	BLM
Silver Lake Trail	BLM	County
Silverton	PUB	City
Silverton	PUB	Private
Ski Hill Parking	BLM	BLM
Skunk Creek Rd 3018	BLM	BLM
Snare Basin Rd	BLM	BLM
Snare Basin Roads	BLM	BLM
Sound Democrat Mill	PVT	County
South Fork Cement Creek	BLM	County
South Fork Cement Creek	PVT	County
South Fork Silver Ck Trail	BLM	BLM
State Highway 149	CDOT	State
State Highway 550	CDOT	State
Stony Pass Rd	BLM	County
Stony Pass Rd	PVT	County
Sunnyside Saddle	PVT	County
The Gate Campground Rd	BLM	BLM
Tobasco Cabin Rd	BLM	BLM
Trail to lake in Grizzly Gulch	BLM	BLM
Unknown Route Name	BLM	
Unknown Route Name	PVT	
Unknown Route Name	BLM	
Unknown Route Name	BLM	BLM
Unknown Route Name	PUB	BLM
Unknown Route Name	PUB	City
Unknown Route Name	BLM	County
Unknown Route Name	BLM	County
Unknown Route Name	PVT	County
Unknown Route Name	PVT	County
Unknown Route Name	FS	None
Unknown Route Name	PVT	Private
Unknown Route Name	PVT	Private
Upper Bent Creek	BLM	BLM
Upper Lake Fork Rd	BLM	County
Upper Lake Fork Rd	BLM	County
Upper Lake Fork Rd	FS	County
Upper Lake Fork Rd	PVT	County
Upper Lake Fork Rd	PVT	County
Upper Snare Basin Rd	BLM	BLM
Wade's Gulch Campsite	BLM	BLM
Wager Gulch Rd	BLM	County
Wager Gulch Rd	PVT	County
Waterdog Lake Trail	BLM	BLM
Waterdog Lake Trail	PVT	BLM
Waterdog Lake Trail	PVT	Private
West Cement (CorkScrew Pass)	BLM	County
West Cement (CorkScrew Pass)	PVT	County
Whitehead Trail	BLM	BLM

Whitehead Trail	PVT	Private
Whitmore Falls Trail	BLM	BLM
Williams Creek Trail	BLM	BLM
Williams Creek Trail	FS	BLM
Wilson Ranch Rd	BLM	BLM
Z5-18	BLM	BLM
Z5-27	BLM	BLM
Z5-38	BLM	BLM
Z5-48	BLM	BLM
Z5-49	BLM	BLM
Z5-53	BLM	BLM
Z5-56	BLM	BLM
Z6-	BLM	BLM
Z6-	BLM	BLM
Z6-1	BLM	BLM
Z6-14	BLM	BLM
Z6-15	BLM	BLM
Z6-18	BLM	BLM
Z6-19	BLM	BLM
Z6-19	BLM	BLM
Z6-2	BLM	BLM
Z6-21	BLM	BLM
Z6-24	BLM	BLM
Z6-31	BLM	BLM
Z6-50	BLM	BLM
Z7-270	BLM	BLM
Z7-271	BLM	BLM

Allowable Use in Travel Management Network	Miles
Foot, Horse, Mountain Bike and Street Legal Vehicles	0.2
Foot, Horse, Mountain Bike, Motorcycle, ATV and Full Sized Vehicles	1.0
Foot, Horse, Mountain Bike, Motorcycle, ATV and Full Sized Vehicles	0.1
Foot, Horse, Mountain Bike, Motorcycle, ATV and Full Sized Vehicles	0.2
Foot and Horse	5.3
Foot and Horse	0.3
Foot, Horse, Mountain Bike, Motorcycle, ATV and Full Sized Vehicles	6.6
Foot, Horse, Mountain Bike, Motorcycle, ATV and Full Sized Vehicles	5.1
Foot, Horse, Mountain Bike and Street Legal Vehicles	1.4
Foot, Horse, Mountain Bike and Street Legal Vehicles	1.4
Foot, Horse, Mountain Bike, Motorcycle, ATV and Full Sized Vehicles	2.1
Foot, Horse, Mountain Bike, Motorcycle, ATV and Full Sized Vehicles	0.1
Foot and Horse	0.1
Foot, Horse and Mountain Bike	0.1
Foot, Horse, Mountain Bike, Motorcycle, ATV and Full Sized Vehicles	1.4
Foot, Horse and Mountain Bike	0.1
Foot, Horse, Mountain Bike, Motorcycle, ATV and Full Sized Vehicles	0.9
Foot, Horse, Mountain Bike, Motorcycle, ATV and Full Sized Vehicles	0.0
Foot, Horse, Mountain Bike, Motorcycle, ATV and Full Sized Vehicles	0.1
Foot, Horse, Mountain Bike, Motorcycle, ATV and Full Sized Vehicles	0.1
Foot, Horse, Mountain Bike, Motorcycle, ATV and Full Sized Vehicles	0.3
Foot and Horse	0.8
Foot, Horse, Mountain Bike, Motorcycle, ATV and Full Sized Vehicles	0.8
Foot, Horse, Mountain Bike, Motorcycle, ATV and Full Sized Vehicles	0.1
Foot and Horse	2.5
Foot and Horse	0.0
Foot, Horse, Mountain Bike, Motorcycle, ATV and Full Sized Vehicles	1.3
Foot, Horse, Mountain Bike, Motorcycle, ATV and Full Sized Vehicles	0.2
Foot, Horse, Mountain Bike, Motorcycle, ATV and Full Sized Vehicles	1.0
Foot, Horse, Mountain Bike, Motorcycle, ATV and Full Sized Vehicles	0.3
Foot, Horse, Mountain Bike and Street Legal Vehicles	3.0
Foot and Horse	1.1
Foot, Horse, Mountain Bike and Street Legal Vehicles	3.2
Foot, Horse, Mountain Bike and Street Legal Vehicles	0.0
Foot, Horse, Mountain Bike, Motorcycle, ATV and Full Sized Vehicles	0.2
Foot, Horse and Mountain Bike	7.4
Foot, Horse, Mountain Bike, Motorcycle, ATV and Full Sized Vehicles	0.7
Foot, Horse, Mountain Bike, Motorcycle, ATV and Full Sized Vehicles	1.8
Foot, Horse, Mountain Bike, Motorcycle, ATV and Full Sized Vehicles	0.4
Foot, Horse, Mountain Bike, Motorcycle, ATV and Full Sized Vehicles	1.6
Foot, Horse, Mountain Bike, Motorcycle, ATV and Full Sized Vehicles	0.2
Foot, Horse, Mountain Bike, Motorcycle, ATV and Full Sized Vehicles	6.1
Foot, Horse, Mountain Bike, Motorcycle, ATV and Full Sized Vehicles	0.3
Foot, Horse, Mountain Bike, Motorcycle, ATV and Full Sized Vehicles	0.4
Foot and Horse	2.0
Foot and Horse	0.1
Foot, Horse, Mountain Bike, Motorcycle, ATV and Full Sized Vehicles	0.8
Foot, Horse, Mountain Bike and Street Legal Vehicles	3.8
Foot, Horse, Mountain Bike and Street Legal Vehicles	2.6
Foot, Horse, Mountain Bike and Street Legal Vehicles	0.1
Foot, Horse, Mountain Bike and Street Legal Vehicles	1.0

Foot, Horse, Mountain Bike, Motorcycle, ATV and Full Sized Vehicles	0.0
Foot, Horse, Mountain Bike, Motorcycle, ATV and Full Sized Vehicles	0.2
Foot, Horse and Mountain Bike	3.3
Foot, Horse and Mountain Bike	3.0
Foot and Horse	3.7
Foot, Horse, Mountain Bike, Motorcycle, ATV and Full Sized Vehicles	2.3
Foot, Horse, Mountain Bike, Motorcycle, ATV and Full Sized Vehicles	0.8
Foot, Horse, Mountain Bike, Motorcycle, ATV and Full Sized Vehicles	0.8
Foot, Horse, Mountain Bike, Motorcycle, ATV and Full Sized Vehicles	3.9
Foot, Horse, Mountain Bike, Motorcycle, ATV and Full Sized Vehicles	0.6
Foot and Horse	1.2
Foot and Horse	0.7
Foot, Horse, Mountain Bike, Motorcycle, ATV and Full Sized Vehicles	0.0
Foot, Horse, Mountain Bike, Motorcycle, ATV and Full Sized Vehicles	2.0
Foot, Horse, Mountain Bike, Motorcycle, ATV and Full Sized Vehicles	1.7
Foot, Horse and Mountain Bike	1.5
Foot and Horse	1.9
Foot, Horse, Mountain Bike, Motorcycle, ATV and Full Sized Vehicles	1.2
Foot, Horse, Mountain Bike, Motorcycle, ATV and Full Sized Vehicles	0.1
Foot, Horse, Mountain Bike, Motorcycle, ATV and Full Sized Vehicles	1.6
Foot, Horse, Mountain Bike, Motorcycle, ATV and Full Sized Vehicles	2.2
Foot, Horse, Mountain Bike, Motorcycle, ATV and Full Sized Vehicles	1.1
Foot and Horse	3.7
Foot and Horse	2.2
Foot, Horse, Mountain Bike, Motorcycle, ATV and Full Sized Vehicles	0.1
Foot, Horse, Mountain Bike, Motorcycle, ATV and Full Sized Vehicles	0.8
Foot, Horse, Mountain Bike, Motorcycle, ATV and Full Sized Vehicles	0.1
Foot, Horse, Mountain Bike, Motorcycle, ATV and Full Sized Vehicles	13.4
Foot, Horse, Mountain Bike, Motorcycle, ATV and Full Sized Vehicles	4.7
Foot, Horse and Mountain Bike	0.5
Foot, Horse, Mountain Bike, Motorcycle, ATV and Full Sized Vehicles	0.1
Foot, Horse and Mountain Bike	0.7
Foot, Horse and Mountain Bike	0.0
Foot, Horse, Mountain Bike, Motorcycle, ATV and Full Sized Vehicles	0.7
Foot, Horse and Mountain Bike	1.3
Foot, Horse and Mountain Bike	0.1
Foot and Horse	1.1
Foot, Horse, Mountain Bike, Motorcycle, ATV and Full Sized Vehicles	0.5
Foot, Horse, Mountain Bike, Motorcycle, ATV and Full Sized Vehicles	1.0
Foot, Horse, Mountain Bike, Motorcycle, ATV and Full Sized Vehicles	0.4
Foot, Horse, Mountain Bike, Motorcycle, ATV and Full Sized Vehicles	0.8
Foot, Horse, Mountain Bike, Motorcycle, ATV and Full Sized Vehicles	1.3
Foot, Horse, Mountain Bike, Motorcycle, ATV and Full Sized Vehicles	0.5
Foot, Horse, Mountain Bike, Motorcycle, ATV and Full Sized Vehicles	2.3
Foot, Horse, Mountain Bike, Motorcycle, ATV and Full Sized Vehicles	0.6
Foot, Horse, Mountain Bike, Motorcycle, ATV and Full Sized Vehicles	0.7
Foot, Horse, Mountain Bike, Motorcycle, ATV and Full Sized Vehicles	0.8
Foot, Horse, Mountain Bike and Street Legal Vehicles	9.1
Foot, Horse, Mountain Bike and Street Legal Vehicles	0.5
Foot, Horse, Mountain Bike, Motorcycle, ATV and Full Sized Vehicles	4.0
Foot and Horse	0.2
Foot, Horse and Mountain Bike	0.7

Foot, Horse, Mountain Bike, Motorcycle, ATV and Full Sized Vehicles	0.6
Foot, Horse, Mountain Bike, Motorcycle, ATV and Full Sized Vehicles	4.7
Foot, Horse, Mountain Bike, Motorcycle, ATV and Full Sized Vehicles	2.4
Foot and Horse	5.9
Foot, Horse and Mountain Bike	1.3
Foot, Horse, Mountain Bike and Street Legal Vehicles	9.6
Foot, Horse, Mountain Bike and Street Legal Vehicles	1.3
Foot, Horse, Mountain Bike and Street Legal Vehicles	0.1
Foot, Horse, Mountain Bike, Motorcycle, ATV and Full Sized Vehicles	1.6
Foot and Horse	2.3
Foot and Horse	0.8
Foot, Horse, Mountain Bike, Motorcycle, ATV and Full Sized Vehicles	0.4
Foot, Horse, Mountain Bike, Motorcycle, ATV and Full Sized Vehicles	1.2
Foot, Horse, Mountain Bike, Motorcycle, ATV and Full Sized Vehicles	0.3
Foot and Horse	1.2
Street Legal Vehicles	28.4
Street Legal Vehicles	6.4
Foot, Horse, Mountain Bike, Motorcycle, ATV and Full Sized Vehicles	1.0
Foot, Horse, Mountain Bike, Motorcycle, ATV and Full Sized Vehicles	3.1
Foot, Horse, Mountain Bike, Motorcycle, ATV and Full Sized Vehicles	0.5
Foot, Horse, Mountain Bike, Motorcycle, ATV and Full Sized Vehicles	0.1
Foot, Horse, Mountain Bike, Motorcycle, ATV and Full Sized Vehicles	0.0
Foot and Horse	0.6
Foot, Horse and Mountain Bike	1.4
Foot, Horse, Mountain Bike, Motorcycle, ATV and Full Sized Vehicles	0.6
Foot, Horse, Mountain Bike, Motorcycle, ATV and Full Sized Vehicles	0.2
Foot, Horse, Mountain Bike, Motorcycle, ATV and Full Sized Vehicles	2.5
Foot, Horse, Mountain Bike and Street Legal Vehicles	0.1
Foot, Horse, Mountain Bike and Street Legal Vehicles	0.1
Foot, Horse, Mountain Bike, Motorcycle, ATV and Full Sized Vehicles	12.0
Foot, Horse, Mountain Bike and Street Legal Vehicles	0.2
Foot, Horse, Mountain Bike, Motorcycle, ATV and Full Sized Vehicles	10.6
Foot, Horse, Mountain Bike and Street Legal Vehicles	3.2
Foot, Horse and Mountain Bike	0.1
Foot, Horse, Mountain Bike, Motorcycle, ATV and Full Sized Vehicles	0.1
Foot, Horse, Mountain Bike and Street Legal Vehicles	1.0
Foot, Horse, Mountain Bike, Motorcycle, ATV and Full Sized Vehicles	0.2
Foot, Horse, Mountain Bike, Motorcycle, ATV and Full Sized Vehicles	12.7
Foot, Horse, Mountain Bike and Street Legal Vehicles	1.5
Foot, Horse, Mountain Bike, Motorcycle, ATV and Full Sized Vehicles	0.3
Foot, Horse, Mountain Bike, Motorcycle, ATV and Full Sized Vehicles	3.7
Foot, Horse, Mountain Bike and Street Legal Vehicles	2.7
Foot and Horse	1.8
Foot, Horse, Mountain Bike, Motorcycle, ATV and Full Sized Vehicles	0.1
Foot, Horse, Mountain Bike, Motorcycle, ATV and Full Sized Vehicles	1.7
Foot, Horse, Mountain Bike, Motorcycle, ATV and Full Sized Vehicles	0.2
Foot, Horse and Mountain Bike	2.7
Foot, Horse and Mountain Bike	0.8
Foot, Horse and Mountain Bike	0.2
Foot, Horse, Mountain Bike, Motorcycle, ATV and Full Sized Vehicles	0.6
Foot, Horse, Mountain Bike, Motorcycle, ATV and Full Sized Vehicles	0.6
Foot, Horse and Mountain Bike	0.7

Foot, Horse and Mountain Bike	0.6
Foot and Horse	0.1
Foot and Horse	6.5
Foot and Horse	0.5
Foot, Horse, Mountain Bike, Motorcycle, ATV and Full Sized Vehicles	1.1
Foot, Horse, Mountain Bike, Motorcycle, ATV and Full Sized Vehicles	0.8
Foot, Horse, Mountain Bike, Motorcycle, ATV and Full Sized Vehicles	0.1
Foot, Horse, Mountain Bike, Motorcycle, ATV and Full Sized Vehicles	0.1
Foot, Horse, Mountain Bike, Motorcycle, ATV and Full Sized Vehicles	0.3
Foot, Horse, Mountain Bike, Motorcycle, ATV and Full Sized Vehicles	0.4
Foot, Horse, Mountain Bike, Motorcycle, ATV and Full Sized Vehicles	0.4
Foot, Horse, Mountain Bike, Motorcycle, ATV and Full Sized Vehicles	0.2
Foot and Horse	6.5
Foot, Horse, Mountain Bike, Motorcycle, ATV and Full Sized Vehicles	0.2
Foot, Horse, Mountain Bike, Motorcycle, ATV and Full Sized Vehicles	0.1
Foot, Horse, Mountain Bike, Motorcycle, ATV and Full Sized Vehicles	0.1
Foot, Horse, Mountain Bike, Motorcycle, ATV and Full Sized Vehicles	0.1
Foot, Horse, Mountain Bike, Motorcycle, ATV and Full Sized Vehicles	0.4
Foot and Horse	0.1
Foot, Horse, Mountain Bike, Motorcycle, ATV and Full Sized Vehicles	0.1
Foot, Horse, Mountain Bike, Motorcycle, ATV and Full Sized Vehicles	0.2
Foot and Horse	0.1
Foot, Horse, Mountain Bike, Motorcycle, ATV and Full Sized Vehicles	0.1
Foot, Horse, Mountain Bike, Motorcycle, ATV and Full Sized Vehicles	0.3
Foot, Horse, Mountain Bike, Motorcycle, ATV and Full Sized Vehicles	0.0
Foot, Horse, Mountain Bike, Motorcycle, ATV and Full Sized Vehicles	0.1
Foot, Horse, Mountain Bike, Motorcycle, ATV and Full Sized Vehicles	0.1

APPENDIX E. VEGETATION COMMUNITIES

Vegetation analysis for the Project Area (186,252 acres) was based upon the South West ReGap Analysis Project (SWReGAP). SWReGAP land classifications were grouped into 14 generalized vegetation communities, as described below, for the purposes of analyzing impacts to resources from the Proposed Action: spruce-fir, conifer, aspen, piñon-juniper, alpine tundra, mountain shrubland, sagebrush shrubland, mountain grassland, riparian, open water, cliff and canyon, agricultural, developed, and disturbed.

1. SPRUCE-FIR

The spruce-fir vegetation community is dominated by Engelmann spruce (*Picea engelmannii*), subalpine fir (*Abies lasiocarpa*), and lodgepole pine (*Pinus contorta*) trees and generally occurs at the highest elevation of forested types ranging from 9,000 - 12,000 feet.

Corresponding SWReGAP Landcover Classification:

- S028. Rocky Mountain Subalpine Dry-Mesic Spruce-Fir Forest and Woodland
- S030. Rocky Mountain Subalpine Mesic Spruce-Fir Forest and Woodland
- S031. Rocky Mountain Lodgepole Pine Forest

2. CONIFER

The conifer forest vegetation community is composed of conifer trees not included in the spruce-fir vegetation community, including ponderosa pine (*Pinus ponderosa*), white fir (*Abies concolor*), and Douglas-fir (*Pseudotsuga menziesii*) trees. This broad vegetation community is found 6,000 – 10,500 feet in montane climate zones (Buttery and Gillam 1987).

Corresponding SWReGAP Landcover Classification:

- S032. Rocky Mountain Dry-Mesic and Montane Mixed Conifer Forest and Woodland
- S034. Rocky Mountain Montane Mesic Mixed Conifer Forest and Woodland
- S036. Rocky Mountain Ponderosa Pine Woodland

3. ASPEN

The aspen vegetation community is dominated by aspen (*Populus tremuloides*) trees. It is associated with the subalpine and montane climate zones, and is best developed in the central and southwestern portions of Colorado (Buttery and Gillam 1987). Aspens occur at elevations ranging from about 6,000 to 10,500 feet.

Corresponding SWReGAP Landcover Classification:

- S023. Rocky Mountain Aspen Forest and Woodland
- S042. Inter-Mountain West Aspen-Mixed Conifer Forest and Woodland Complex

4. PIÑON-JUNIPER

The piñon-juniper vegetation community is typically dominated by piñon pine (*Pinus edulis*), Rocky Mountain juniper (*Juniperus scopulorum*), Utah juniper (*Juniperus osteosperma*), and one-seed juniper (*Juniperus monosperma*) trees. It occurs on mountains, hills, and mesas at elevations ranging from about 5,000 to 8,500 feet (Buttery and Gillam 1987).

Corresponding SW ReGAP Landcover Classification:

- S039. Colorado Plateau Pinyon-Juniper Woodland
- S038. Southern Rocky Mountain Pinyon-Juiper Woodland

APPENDIX E. VEGETATION COMMUNITIES

5. ALPINE TUNDRA

Alpine tundra is a mountaintop vegetation community that typically occurs at elevations >11,500 feet (Dick-Peddie 1992). Krummholz (or “twisted wood”) occurs in this community, as well as scree, talus, and rock fields. Alpine tundra is characterized by short, cool growing seasons, long winters, snow, high wind, and intense sunlight.

- S002. Rocky Mountain Alpine Bedrock and Scree
- S003. Rocky Mountain Dry Tundra
- S001. Rocky Mountain Alpine Fell-Field
- S102. Rocky Mountain Alpine-Montane Wet Meadow

6. MOUNTAIN SHRUBLAND

The mountain shrubland vegetation community is a diverse, shrub-dominated community occurring on mountains, hills, and canyon slopes at elevations ranging from about 6,000 to 9,500 feet. It occurs on upland sites with well-drained soils, and is often found on steep slopes with southerly aspects. It occurs as small patches in forest-dominated landscapes, but sometimes occupies extensive areas (Jeff Redders, SJPLO ecologist, personal communication).

Corresponding SWReGAP Landcover Classification:

- S046. Rocky Mountain Gambel Oak-Mixed Montane Shrubland
- S047. Rocky Mountain Lower Montane-Foothill Shrubland
- S050. Inter-Mountain Basins Mountain Mahogany Woodland and Shrubland

7. SAGEBRUSH SHRUBLAND

The sagebrush shrubland vegetation community is a sagebrush-dominated community occurring on hills, mesas, and valley floors at elevations ranging from about 6,000 to 10,000 feet. It occurs as small patches in forest-dominated landscapes, in association with piñon-juniper, ponderosa pine, and mountain grassland communities

Corresponding SWReGAP Landcover Classification:

- S054. Inter-Mountain Basins Big Sagebrush Shrubland
- S078. Inter-Mountain Basins Montane Sagebrush Steppe

8. MOUNTAIN GRASSLAND

The mountain grassland vegetation community typically occurs as openings in forest-dominated landscapes. It is associated with the lower montane, montane, and subalpine climate zones at elevations ranging from about 7,500 to 11,800 feet (J. Redders, pers. comm.).

Corresponding SWReGAP Landcover Classification:

- S085. Southern Rocky Mountain Montane-Subalpine Grassland
- S090. Inter-Mountain Basins Semi-Desert Grassland
- S083. Rocky Mountain Subalpine Mesic Meadow
- D06. Invasive Perennial Grassland
- S012. Inter-Mountain Basins Active and Stabilized Dune

APPENDIX E. VEGETATION COMMUNITIES

9. RIPARIAN

The Riparian vegetation community can occur at all elevations. It occurs on valley floors and in other low-lying landscape positions, and is primarily associated with perennial streams. This community is frequently flooded with plant species, soils, and topography that differ considerably from those of the adjacent uplands (Elmore and Beschta 1987).

Corresponding SWReGAP Landcover Classification:

- S091. Rocky Mountain Subalpine-Montane Riparian Shrubland
- S093. Rocky Mountain Lower Montane Riparian Woodland and Shrubland

10. OPEN WATER

Corresponding SWReGAP Landcover Classification:

- N11. Open Water

11. CLIFF AND CANYON

Corresponding SWReGAP Landcover Classification:

- S006. Rocky Mountain Cliff and Canyon

12. AGRICULTURE

Corresponding SWReGAP Landcover Classification:

- N80. Agriculture

13. DEVELOPED

These are areas most commonly associated with single-family housing units or more low-intensity development such as a mixture of construction materials with mostly vegetation in the form of lawn grasses.

Corresponding SWReGAP Landcover Classification:

- N22. Developed, Medium – High Intensity
- N21. Developed, Open Space- Low Intensity

14. DISTURBED

These areas include those that have been recently logged (i.e. clear-cut or thinned $\geq 50\%$), as well as areas that have been recently mined or quarried (i.e. >4.9 acres).

Corresponding SWReGAP Landcover Classification:

- D10. Recently Logged Areas
- D03. Recently Mined or Quarried

APPENDIX F. COLORADO BLM STATE DIRECTOR'S SENSITIVE SPECIES FOR BLM GUNNISON AND SAN JUAN FIELD OFFICES

Status	Common Name	Scientific Name	Field Office	Habitat Association	Potential to occur in Project Area (PA)
G4/S2	Crandall Rockcress	<i>Arabis (Boechera) crandallii</i>	GN	Limestone chip-rock and stony areas, often among sagebrush 7,600–9,880 feet	None. PA not within range of this species – occurs in the Arkansas Headwaters Watershed
G2/S2	Cronquist's milkvetch	<i>Astragalus cronquistii</i>	SJ	Low, sandy or gravelly ridges and sandy washes in blackbrush and salt desert shrub communities on sandstone or red sandstone of the Cutler and Morrison formations. (4,000-5,000 feet elevation)	None. Elevation of PA is >7,500 feet
G3/S2	Gunnison milkvetch	<i>Astragalus anisus</i>	GN	Sagebrush Shrubland on flats on the floor of the Gunnison Basin and on hillsides. (7,500-9,500 feet elevation)	Potential to occur
G1/S1	Skiff milkvetch	<i>Astragalus microcymbus</i>	GN	Open sagebrush or juniper-sagebrush communities on moderately steep to steep slopes. Often found in rocky areas with a wide variety of soil conditions (7,800-8,500 feet elevation)	Potential to occur
G3/S2,S3	Naturita milkvetch	<i>Astragalus naturitensis</i>	SJ	Cracks and ledges of sandstone cliffs and flat bedrock area with some shallow soil development, within pinyon-juniper woodland. (5,400-6,700 feet elevation)	None. Elevation of PA is >7,500 feet
G2/S1	Kachina daisy	<i>Erigeron kachinensis</i>	SJ	Low elevation seeps and hanging gardens to high elevation mesic	None. Elevation of PA not within range of this

APPENDIX F. COLORADO BLM STATE DIRECTOR'S SENSITIVE SPECIES FOR BLM GUNNISON AND SAN JUAN FIELD OFFICES

				sandstone outcrops in aspen and ponderosa pine communities. Saline soils (5,200-8,200 feet elevation)	species – occurs in Montrose County
G3/S1	Comb Wash buckwheat	<i>Eriogonum clavellatum</i>	SJ	Sandy to heavy clay washes, hills, and slopes; also on shales. Occurs on the Cutler Formation as well as the Mancos Shale Formation. Found within shadscale, blackbrush, and saltbush communities. Co-occurring species include <i>Astragalus cronquistii</i> and <i>Astragalus tortipes</i> . (4,200-6,000 feet elevation)	None. Elevation of PA is >7,500 feet
G3/S2	Colorado wild buckwheat	<i>Eriogonum coloradense</i>	GN	Subalpine and alpine. Gravels and clays of high mountain parks up to talus slopes of the alpine. Gravelly or sandy soil, often subalpine and alpine slopes, sometimes montane grasslands (8,500-12,500 feet elevation)	None. PA not within range of this species – Occurs in northern Gunnison, Park, Pitkin, and Saguache Counties
G1/S1	Pagosa trumpet gilia	<i>Ipomopsis polyantha</i> var. <i>polyantha</i>	SJ	Occurs in a 13-mile range on outcrops of Upper Cretaceous Mancos Shale in Archuleta County	None. PA not in Archuleta County
G2/S2	Pagosa bladderpod	<i>Lesquerella pruinosa</i>	SJ	Mancos Shale. open clay barrens surrounded by montane grasslands (6,810 -7,440 feet elevation)	None. Occurs only in Pagosa Springs, Colorado
G4/S2	Northern twayblade	<i>Listera borealis</i>	GN	Moist, shady spruce forests. 8700-10,800 feet elevation	None. PA not within range of this species

Source: http://www.blm.gov/co/st/en/BLM_Programs/botany/Sensitive_Species_List_.html; accessed January 2009

SJ=San Juan, GN=Gunnison Field Office

Status = Colorado Natural Heritage Program ranking:

APPENDIX F. COLORADO BLM STATE DIRECTOR'S SENSITIVE SPECIES FOR BLM GUNNISON AND SAN JUAN FIELD OFFICES

G1 - critically imperiled globally (5 or fewer occurrences or very few remaining individuals); critically endangered throughout its range

G2 - imperiled globally (6 to 20 occurrences); endangered throughout its range

G3 - very rare or local throughout its range or found locally in a restricted range (21 to 100 occurrences); threatened throughout its range

G4 - apparently secure globally, though it might be quite rare in parts of its range, especially at the periphery

G5 - demonstrably secure globally, though it might be quite rare in parts of its range, especially at the periphery

T - taxa of subspecies or varieties, ranked on same criteria as G1-G5

GQ - Indicates uncertainty about taxonomic status

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APPENDIX G. SPECIES OF CONCERN FOR SAN JUAN PUBLIC LANDS

Status	Common Name	Scientific Name	Habitat Association	Potential to occur in Project Area (PA)
G2, S1	Nodule lichen	cracked <i>Acarospora nodulosa nodulosa</i>	var. Pinyon-Juniper, Semi-desert shrubland, Sagebrush	None. PA not within range of this species – occurs in the Upper Dolores watershed
G2, S2	Cliff milkvetch	Palace <i>Astragalus deterior</i>	Pinyon-Juniper, In sand-filled depressions of flat rimrocks, on cliffs, and on adjacent sandy talus. Always associated with the white zone of the Upper Cliff House Sandstone. Populations occur where this zone is cut by small streams and where the soils below are white zone-derived. (6,400-8,100 feet elevation)	None. PA not within range of this species – occurs in Montezuma County
G2, S2 BLM Sensitive	Naturita milkvetch	<i>Astragalus naturitensis</i>	Pinyon-Juniper, Sandstone mesas, ledges, crevices and slopes (5,000 to 7,000ft elevation)	None. Elevation of PA >7,500 feet
G1, S1	Gypsum Cateye	Valley <i>Cryptantha gypsophila</i>	Pinyon-Juniper, Semi-desert shrubland, Sagebrush	None. PA not within range of this species – occurs in Upper and Lower Dolores and San Miguel Watersheds
G3, S3	Thick-leaf Whitlow-grass	<i>Draba crassa</i>	Alpine, talus or rock ridges (10,000 -12,000ft elevation)	Potential to occur
G3, S1	Porsild's Whitlow-grass	<i>Draba porsildii</i>	Moist to sometimes drier sites, generally rocky or gravelly, in the subalpine and alpine zones on ridges, slopes, cliffs, ledges, and summits. Habitats include limestone or shale talus, scree, and gravel slopes; moist banks; moist turfy sites (incl. slopes); moist gravelly open soil; and grassy meadows. Sites sometimes within boreal spruce forest matrix.	Potential to occur

**APPENDIX G. SPECIES OF CONCERN
FOR SAN JUAN PUBLIC LANDS**

G2, S2	San Juan Whitlow-grass	<i>Draba graminea</i>	exposed ridges and slopes and in alpine fell-fields. Typically in late snowmelt areas. Above 12,000ft elevation	Potential to occur
G3, S3	Colorado Divide Whitlow-grass	<i>Draba streptobrachia</i>	Alpine, Occurs on scree slopes and edges of talus slopes and sometimes in fell-fields	Potential to occur
G3, S2	Giant Helleborine	<i>Epipactis gigantea</i>	Riparian/Wetland, Decomposed sandstone; sandstone seeps; 4,800- 8,000 feet elevation	None. PA not within range of this species
G1, S1 BLM Sensitive	Kachina Daisy	<i>Erigeron kachinensis</i>	Riparian/Wetland, Saline soils in alcove and seeps in canyon walls (4,800 to 5,600 feet elevation)	None. Elevation of PA >7,500 feet
G4, S3, T3, N3	Altai Cotton-grass	<i>Eriophorum altaicum</i> var. <i>neogaenum</i>	Riparian/Wetland	Potential to occur
G3, S2	San Juan gilia	<i>Gilia haydenii</i>	Pinyon-Juniper, Blackbrush, matchweed, and shadscale communities. (4,500-5,000 feet elevation)	None. Elevation of PA >7,500 feet
G3, S1	largeleaf gypsoplaca lichen	<i>Gypsoplaca macrophylla</i>	Semi-desert Grassland, Semi-desert Shrubland	None. PA not within range of this species – occurs in Eagle and Upper Dolores Watersheds
G1, S1	Colorado stickseed	<i>Hackelia gracilentia</i>	Dense litter of oakbrush canyons; deep loam or sandy soil associated with pinyon-juniper woodlands. Primarily a plant of shady canyons, but in times of above average precipitation it has also been found on mesa tops.	None. PA not within range of this species – occurs in Montezuma County

APPENDIX G. SPECIES OF CONCERN FOR SAN JUAN PUBLIC LANDS

				Anecdotal information suggests fire tolerance - a population is reported to have returned with increased vigor following a burn. (6,900-8,000 feet elevation)	
G1, S1 USFWS Candidate, BLM Sensitive	Pagosa	Gilia	<i>Ipomopsis polyantha</i>	Mountain Grassland, Mountain Shrubland, Mancos shale; barren shrublands; 6,800-7,200 feet elevation	None. PA not within range of this species, occurs in Archuleta County
G1, S1			<i>Lecanora gypsicola</i>	Pinyon-Juniper, Semi-desert shrubland, Sagebrush	None. PA not within range of this species – occurs in San Miguel County
G2, S2 BLM Sensitive	Pagosa	Springs bladderpod	<i>Lesquerella pruinosa</i>	Mountain Grassland, Mountain Shrubland, Mancos shale; ponderosa pine, Gambel oak, open clay barrens surrounded by montane grasslands (6,800 - 7,500ft elevation)	None. PA not within range of this species – Occurs in Archuleta County
G3, S1 BLM Sensitive	Eastwood's	monkeyflower	<i>Mimulus eastwoodiae</i>	Riparian/Wetland, Shallow caves and seeps on canyon walls, Moist seeps and hanging garden communities in sandstone cliffs in the Canyonlands. Co-occurring species include <i>Primula specuicola</i> , <i>Adiantum capillus-veneris</i> , <i>Aquilegia micrantha</i> , and <i>Epipactis gigantea</i> (4,700 to 5,800ft elevation)	None. Elevation of PA >7,500 feet
G3, S2 BLM Sensitive	aromatic	Indian	<i>Pediomelum aromaticum</i>	Semi-desert Shrubland, Sagebrush (4,800-5,700 feet)	None. Elevation of PA >7,500 feet
G3, S2	Short-stem	beardtongue		Sandstone and shale, in clayey loam soils, in	None. Elevation of PA >7,500 feet

APPENDIX G. SPECIES OF CONCERN FOR SAN JUAN PUBLIC LANDS

			Penstemon breviculus	sagebrush, juniper and pinyon-grassland communities (4,800-6,700ft elevation)	
G2, S2	Gray's daisy	Townsend	Townsendia glabella	Ponderosa pine, Pinyon-Juniper, steeply sloping shale slopes, in lower altitudes	None. PA not within range of this species
G2, S2	Rothrock's Townsend daisy		Townsendia rothrockii	Alpine, Spruce-Fir Areas above timberline that retain snow into summer. Also high plateau ridgetops in openings in ponderosa pine forest. (8,000-13,500 feet elevation)	Potential to occur

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APPENDIX H. PLANT SPECIES OF INTEREST FOR SAN JUAN PUBLIC LANDS

Status	Common Name	Scientific Name	Habitat Association	Potential to Occur in Project Area (PA)
G5, S2	Southern maiden-hair fern	<i>Adiantum capillus-veneris</i>	Dripping cliffs, sandstone or calcareous rocks, (elevation 4,800-7,800 feet)	None. PA not within range of this species
S1	Pygmy sagebrush	<i>Artemisia pygmaea</i>	Semi-desert Shrubland, Sagebrush on Green River Shale or Mancos Shale	None. Occurs in Rio Blanco and San Miguel counties
G5, S1 BLM Sensitive	Green sedge	<i>Carex viridula</i>	Riparian/Wetland (elevation 8,700-9,200 feet)	None. PA no within range of this species
S1	Nine-awned Pappus Grass	<i>Enneapogon desvauxii</i>	Semi-Desert Grassland	None. Occurs in the Upper Dolores watershed

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