

Management Action Description		Priority	Cost	Frequency	Status	Quarterly Accomplishments (October 1, 2016 - December 31, 2016)
1.0	Restore and enhance habitat for desert tortoise					
1.1	Evaluate easement for the spatial extent and trends of desert tortoise occupancy					
	Occupancy sampling pilot study determines spatial extent of desert tortoises and provides a baseline to detect changes in spatial extent and numbers of tortoises by which to identify and prioritize areas for habitat restoration/ enhancement.	H	VH		Year 4 completed	Year 4 of data collection was completed on June 13, 2016. Year 5 will begin in March of 2017.
1.2	Assess environmental variables that influence the spatial extent and trends of desert tortoise occupancy					
	Covariates monitoring project assesses the relationship of desert tortoise occupancy with multiple environmental covariates (vegetation, substrate, topographic features, precipitation, distance to disturbances and habitat alteration, and management actions). The data will be used to develop a predictive model of where tortoises are and could be in the BCCE.	H	VH		Soils, vegetation, and remote sensing contracts are ongoing	All datasets have been delivered and we are working on extracting the necessary information from each to use in modeling tortoise habitat
1.3	Identify and prioritize locations for habitat restoration and enhancement					
	Statistically analyze data from occupancy sampling and covariates monitoring projects using PRESENCE model to prioritize areas for habitat restoration/enhancement.	H	L-M	Upon completion of analysis	Not started	No activities this quarter. This will begin after we have completed 1.2.
1.4	Develop restoration/enhancement plans for priority locations					
	Use results from 1.3 to plan location, type, and extent of restoration/enhancement; determine if plans are prepared by DCP staff or by contract	M	M	Upon completion of each plan	Not started	No activities this quarter. This will begin after we complete 1.3.
1.5	Implement restoration/enhancement plans					
	Prepare contract(s), schedule and implement plans	M	H	Upon completion of each restoration project	Not started	No activities this quarter. This will begin after the completion of 1.4

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1.6	Monitor and adaptively manage restoration/enhancement					
	Establish success criteria and monitoring schedule; assess success of restoration/enhancement against criteria; continue/augment restoration actions to maintain investment	VH	L	2-3 weeks after initial planting; according to monitoring schedule	Not started	This will begin after the completion of 1.5
1.7	Evaluate locations and options to reconnect habitat separated by infrastructure					
	Incidental take permit and ecological theory state that tortoise populations should have internal connectivity. Connectivity is considered important within BCCE across major roadways (through culverts) and north to south on the east side of US 95.	M	L	Upon completion of evaluation	Not started	This will begin after the completion of 1.5
2.0	Install and maintain infrastructure that controls tortoise movement					
2.1	Inspect tortoise fences, road crossing guards, gates, and culverts for maintenance needs					
	Schedule and conduct periodic inspections of infrastructure; conduct inspections when opportunities arise or in conjunction with other activities	VH	L	Yearly	Ongoing	Inspections are a part of the weekly site visit to the BCCE. Two cattle guard were cleaned this quarter and major enhancements were made to the roadways around the guards to prevent future flooding problems.
2.2	Conduct emergency repairs and/or schedule maintenance repairs					
	DCP staff can repair minor fence damage; contact NDF to schedule maintenance/repairs	VH	L	After inspections, when needed	Ongoing	The DCP executed a new contract to handle timely repairs and restoration of fencing, barriers, roads, cattle guards, and kiosk signage. Twenty feet of fencing was repaired this quarter.
2.3	Notify NDOT for highway fence repairs and culvert cleaning/maintenance					
	Call NDOT point of contact to request maintenance crew; provide location and type of repair/maintenance needed	VH	L	After inspections, when needed	Ongoing	There were no heavy rain events this quarter. No damage to fencing bordering the BCCE was noted.

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2.4	Identify locations for new or replacement tortoise fences, gates, and road crossing guards					
	Use results from 2.1, 4.2, and 5.3 and from general observations of user activities and adjacent development to determine need to install new or replace infrastructure	M	M	Ongoing	Started	This quarter we completed the bid process for the Energy Zone fencing project. This project will involve the construction of more than 11 miles of desert tortoise fencing, five new desert tortoise guards, and a new desert tortoise culvert to maintain habitat connectivity between the north and south sides of Eldorado Valley Drive. A winning bid was selected and construction will begin next quarter.
2.5	Install new or replace tortoise fences, road crossing guards, and gates					
	Use results from 2.4; prepare scope of work and contract, complete installation	M	M-H	Whenever installations are done	Started	Completed the construction bid process for the Energy Zone fencing project and awarded the contract.
3.0	Manage direct threats to desert tortoise					
3.1	Evaluate prevalence of predators to determine need for control					
	Continued study that assessed abundance of predators (coyotes, ravens) and predation rates on desert tortoises	H	H	Ongoing	Started	Continued to administer a contract with Conservation Science Research & Consulting. The purpose of this contract is to collect data on desert tortoise predators in the BCCE and to ultimately develop a management plan.
3.2	Evaluate effective predator control techniques					
	Review outcomes of 3.1 predator assessment; evaluate recommendations, determine short- and long-term costs/benefits (effectiveness)	H	M-H	After evaluation is completed	Not started	No activities this quarter.

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3.3	Develop plan to implement and monitor predator control techniques					
	Based on results of 3.2, develop goals and objectives for predator reduction/control, prepare and implement plan; monitor status of meeting goals and objectives.	H	M-VH	Incremental based on implementation schedule	Not started	No activities this quarter.
4.0	Manage road network to support conservation and provide appropriate access for management and public use					
4.1	Inventory and identify (name) open and closed roads					
	Named roads are useful for implementing management actions, public use, law enforcement, and safety; roads are inventoried and assigned a name/letter designation	H	L	Once	Completed	Approximately 100 miles of roads have been designated as open in the BCCE. Open roads are designated with a sign that indicates the road is open. Signs also contain a letter that designates the route. Open roads are managed by conducting weekly site visits to inspect areas and repair/maintain signs as needed.
4.2	Determine travel patterns and usage					
	Install traffic counters at different locations and at different times to evaluate travel patterns and frequency of use; use data for 5.2 law enforcement patrols	H	M	After data is compiled from counters	Ongoing	This quarter four traffic monitors were placed at problem locations. The software problem from last quarter were resolved. The patrol officer always assist in determining the sites to be monitored.
4.3	Identify and prioritize road closures					
	Use results from 4.2, 5.3, and other criteria to identify roads for closure	H	L	Once	Ongoing	Analysis for road closures is currently ongoing and no new areas have been identified for closure.
4.4	Post and maintain open road signs					
	Review open road network, post open road markers, replace damaged or faded markers	VH	M	Quarterly or as needed	Ongoing	Signage is reviewed during every site visit.

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4.5	Implement road closures					
	Notify law enforcement, update maps/public information showing closed roads; install barriers (post and cable, boulders)	H	L	Continually	Ongoing	No new barriers were constructed during this last quarter. Several areas are being analyzed for barrier construction. Google Maps has been updated to reflect current status of both closed and open roads.
4.6	Develop restoration plans for closed roads					
	Based on results of 4.5, prepare plan(s) to restore road to native habitat or hide/mask road presence; determine length of road to restore using data from 4.2 and 5.3; establish success criteria	H	M	When restoration plans are completed	Ongoing	Staff began planning efforts to conduct restoration of closed roads this quarter. Discussions were held with Bureau of Land Management (BLM) staff regarding the restoration of closed roads that originate within BLM utility corridors.
4.7	Implement and monitor restoration of closed roads					
	Implement plan(s) prepared for 4.6; prepare scope of work/contract; establish monitoring schedule; assess success of restoration against criteria; continue/augment restoration actions to maintain investment	H	M	2-3 weeks after initial planting; according to monitoring schedule	Ongoing	Restorative measures used to close roads in 2013 and 2014 are monitored on an ongoing basis. Plans to augment these restoration actions are being developed where deemed necessary. No new restoration actions have been implemented this quarter.
5.0	Provide law enforcement					
5.1	Maintain patrols by Boulder City peace officers					
	Maintain and renew contract in accordance with Section 5(c) of 2010 grant amendment	VH	VH	Biennially	2015-2017 Renewed	Officers patrol the BCCE a minimum of 32 hours per week. During their patrols they travel each of the open roads a minimum of once per month. Popular open roads are patrolled multiple times per week.

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5.2	Monitor and adjust patrol schedule and locations					
	Review patrol reports from peace officers; adjust patrols based on season, public contacts, infractions, and discussions with officers	H	L	As needed	Ongoing	This quarter we continued to meet with the Boulder City Police Department Patrol Officer on site. The officer provides insights into the activities he observes and we discuss options for handling issues.
5.3	Monitor and enforce prohibited uses					
	Review patrol reports from peace officers for number, frequency, and type of prohibited use	H	L	Monthly	Ongoing	The regular patrols and consistent contact with the public on the BCCE is showing positive results.
5.4	Evaluate officer/public contacts for opportunities to improve patrols					
	Review patrol reports and discuss the type, frequency, and location of public contacts with officers; update officers on DCP ongoing activities and public outreach/education initiatives	H	L	As needed	Ongoing	The continued patrols and contacts with visitors are resulting in fewer violations and repeat offenders.
6.0	Manage property to control invasive plant species and noxious weeds to reduce threat of fire					
6.1	Identify locations infested or susceptible to invasive plant species and noxious weeds					
	Determine type of assessment (focused observations, comprehensive survey); record locations, identify species of concern	H	L-M	Completion of assessment	Ongoing	National Park Service (NPS), under contract with the DCP, completed winter surveys on invasive plants and noxious weeds. Areas with weed infestations were documented with GIS.
6.2	Develop plan to eradicate or reduce invasive plant species and noxious weeds					
	Use results from 6.1 to prepare treatment plan(s); prioritize treatment locations; establish success criteria	H	L	When plan(s) is completed	Ongoing	NPS used data gathered during weed surveys to develop a plan to manage weeds on the BCCE. A priority list of sites was established for future action.

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6.3	Implement the plan to eradicate or reduce invasive plant species and noxious weeds					
	Implement plan(s) prepared in 6.2; prepare scope of work/contract	H	L-M	After treatment is completed	Ongoing	NPS continues to treat invasive plants and noxious weeds documented during surveys. The BCCE is relatively free of heavy infestation of weeds at this time.
6.4	Monitor locations for recurrence of invasive plant species and noxious weeds					
	Establish monitoring schedule; assess success of treatment/eradication against criteria; schedule additional treatments as needed	H	L-M	Seasonally	Ongoing	NPS continues to monitor the BCCE for weeds on a semi-annual schedule (summer and winter). This allows them to treat the weed problems at the proper growth stage.
7.0	Educate the public on allowable uses and current activities					
7.1	Establish a consistent brand and design for signs, kiosks, interpretive materials, and webpage					
	Review recommendations of branding/interpretive planning master plan report (2011-LGA-910C); select a DCP brand and designs for signs, kiosks, and interpretive materials; pursue approval of brand and designs	H	H	Within 1 year of project completion	Branding contract completed; selection pending	Negotiated a contract with Robertson and Partners to provide branding and marketing support to the DCP. Relevant tasks in this contract will include the design of additional interpretive signage for the BCCE and other reserve units and development of brochures and other marketing materials that will inform the public about the BCCE.
7.2	Identify locations and maintain database for signs and kiosks					
	Create/update inventory/database of locations of existing signs and markers; review recommendations of branding/interpretive planning master plan report (2011-LGA-910C); select preferred locations for interpretive signs/kiosks	H	L	Within 1 year of project completion	Ongoing	A database of signage is being maintained for the BCCE and updated as needed.
7.3	Post easement boundary signs					
	Install signs to identify BCCE boundary; select appropriate locations for posting; review existing signs to determine if text adequately identifies boundary; determine need for contracted installation	H	L-H	After signs are posted	Ongoing	All signage was inspected and maintained/repaired during this quarter.

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7.4	Post "Limited Use Area" signs					
	Install signs to identify limited use areas; select appropriate locations for posting; review existing signs to determine if text adequately defines and identifies limited use; determine need for contracted installation	H	L-M	After signs are posted	Ongoing	New "Limited Use Signage" has been created and installed at all locations on the BCCE. The new signage indicates 'No Shooting, Camping or dumping' in addition to the no off-roading.
7.5	Develop content, purchase, and install interpretive signs and kiosks					
	Prepare scope of work and contract; based on results of 7.2, request right-of-way if selected location(s) is on BLM land	H	H-VH	At end of project	Completed	Three additional locations for kiosks have been identified for future placement on the BCCE.
7.6	Monitor and maintain condition of all posted signs and kiosks					
	Establish monitoring schedule, document condition of signs and kiosks, schedule maintenance/replacements as necessary	H	L-M	Upon completion of monitoring	Started	All signage was maintained during this quarter. Most areas are visited three times during the quarter to assure the signage is in good condition.
7.7	Develop content, print, and distribute interpretive brochure(s)					
	Prepare scope of work and contract; identify locations to distribute brochures; provide brochures to Boulder City peace officers	M	M-H	After brochures printed and distributed	Not started	A new location to place brochures has been identified. It is on the Kiosk at the border of Route G. Brochures will be put at this spot next quarter.
7.8	Update information on BCCE webpage					
	Use results of 7.1 to update look of webpage; use results from 9.1 to review, confirm accuracy, and update information on Boulder City code/ordinances, use results from 4.1 and 4.4 to update road information and map	H	L	Upon completion of action	Not started	The webpage was updated this quarter with a new map.
8.0	Manage allowable uses					
8.1	Monitor condition of three historic sites located on the BCCE					
	Photo document condition of sites; establish schedule to monitor condition; develop plan of action if sites degrade or are vandalized	M	L	Based on monitoring schedule	Not started	No activities this quarter.

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8.2	Maintain relationships and coordinate with adjacent landowners to protect conservation values of the BCCE					
	Establish schedule to communicate (formal and/or informal, as appropriate) with landowners on BCCE management actions, issues, and ongoing and pending projects	H	L	Annually, at year end	Not started	No activities this quarter.
8.3	Monitor and coordinate with utility companies to minimize impacts from existing and proposed transmission corridors and facilities					
	Identify representatives for utility companies on, adjacent, or crossing BCCE (request assistance from Boulder City and/or BLM, if necessary); establish schedule to communicate (formal and/or informal, as appropriate) with representatives to exchange information	H	L	Annually, at year end	Ongoing	No new disturbance requests were received this quarter.
8.4	Review exceptions to prohibited uses (discharge of firearms) for conflicts with Boulder City Code and Ordinances and Nevada hunting regulations					
	Review seasonal exception for discharge of firearms for hunting/trapping against seasonal NV hunting regulations for possible conflicts, and against Boulder City Code 7-1-3 for restricted distances; determine corrective action if conflicts exist	M	L	After action is completed	Not started	We are currently looking at requesting a change in the ordinance by City of Boulder City.
8.5	Monitor location and effects of treated effluent discharge					
	Establish schedule to monitor condition and location of discharge; photo document condition of discharge channel; develop plan of action if discharge channel creates nuisance and/or undesirable habitat	H	L	Quarterly	Not started	No activities this quarter.
9.0	Manage prohibited uses					
9.1	Review and revise easement documents for conflicting uses and restrictions with Boulder City Code					
	Review sections 4-Prohibited Uses and 5-Reserved Rights for possible conflicts with Boulder City codes/ordinances and future management of BCCE; for example, camping on BCCE and public parks/undeveloped land	H	L	After action is completed	Ongoing	The patrol officer continues his patrol and warns all persons he finds doing any restricted activities.

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9.2	Maintain fence and gate installed around pet cemetery					
	Schedule inspections to monitor and maintain condition of fence and gate; repair and/or schedule repairs when damage is observed	H	L	Quarterly	Ongoing	On a monthly basis the fence, gate, and cable barriers were checked at the pet cemetery. No new damage to fencing, gates, or cable barriers was found this quarter. We have had no vandalism for over seven quarters at the pet cemetery.
9.3	Monitor for and remove burials of animal remains outside the fenced pet cemetery area					
	In conjunction with 9.2, monitor for burial activity outside fenced area; identify options to safely remove and location(s) for disposal of buried remains	H	L	Quarterly	Not started	No new burial activity recorded this reporting period.
9.4	Monitor known and potential locations of illegal dumping activity					
	Establish schedule to regularly monitor locations of past dumping activities	M	L	Quarterly, as observed	Ongoing	During the past quarter DCP staff and the patrol officer have seen no significant dumping on the BCCE. The patrol officer and DCP staff regularly inspect common dumping sites during patrols and site visits.
9.5	Remove trash and debris from illegal dump sites					
	Establish procedure and/or contract to safely remove materials from dump sites for disposal at appropriate landfill (construction debris, household trash, hazardous waste)	M	L-M	Quarterly, after inspections	Ongoing/pending	During the past quarter no trash or debris was removed. Minor dumping activities have been noted and will be addressed in future reporting periods.
9.6	Monitor for other prohibited uses					
	In conjunction with inspections/monitoring of other actions, monitor site conditions and user activities for prohibited conduct; coordinate with Boulder City peace officers on observations and findings	M	L	Annually, at year end	Ongoing	During the past quarter the DCP staff and patrol officer continued to observe illegal shooting at a site by Route C. This as at a site we have previously removed trash from after a target shooting event.