



QUARTERLY REPORT

First Quarter 2016
To the Habitat Conservation Advisory Committee
From the Habitat Conservation Plan Administrator
April 26, 2016

Introduction:

Quarterly reports are due in January, April, July, and October of each year. Page 107 of the Habitat Conservation Plan cites what information will be included and which agency or entity (Washington County, USFWS, BLM, UDNR, & Ivins) will provide it.

The first segment of this Quarterly Report deals with general items not associated with clearing and removing tortoises while the latter half will provide details on these and related items.

RESERVE MANAGEMENT

Administration:

- HCP staff attended and presented at the Desert Tortoise Council Symposium in Las Vegas, Nevada. The presentation included a brief 20 year overview of the HCP.
- HCP staff participated in meetings with the Quad State Organization.
- HCP staff participated in meetings with the Management Oversight Group (MOG).
- Members of the County Commission, County Attorney's Office, and HCP Administrator met with representatives of the FWS in Denver, CO to discuss the permit renewal.
- HCP staff have worked with BLM to issue and administer contracts for Long Valley Land Exchange EA and associated cultural mitigation contracts in fulfillment of Land Acquisition efforts.
- Eagar mining claims assessment work coordination in Zone 4.

Fire Management:

- HCP staff continued to work with and support the DWR and Agricultural Research Service in their study of restoration methods and adapted plant species at the Turkey Farm.

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- HCP staff continued its involvement with the Lower Virgin River Fire Council, Washington County Emergency Management, and County Fire Warden to stay coordinated on fire related issues.

Utility Projects

- Rocky Mountain Power poles
- Washington City and St. George City well repairs

TORTOISE CLEARANCES, MONITORING AND MANAGEMENT

Clearances Requested:

- Kayenta Posovi – Private Lot
- 600 N. 2200 W., Hurricane
- Springdale mesa near town hall
- 1200 N. 200 W., Hurricane – Waterline

Surveys Conducted:

- Kayenta Posovi – Private Lot
- 600 N. 2200 W., Hurricane
- Springdale mesa near town hall
- 1200 N. 200 W., Hurricane – Waterline
- Sentierre property (follow up survey)

Removals Conducted:

- No live tortoises or active sign were found in the above surveys.

Take animals:

- There was 1 captive tortoise recovered during the quarter.
- There were 0 “take” tortoises recovered during the quarter.
- There were 2 untested take animals at the TCF as of March 31st.

*Attached is a report showing all tortoises processed or handled by HCP staff during the quarter.

Blood Work:

- There were 0 tortoises tested during the 1st quarter.
ELISA Positive: 0
ELISA Negative: 0
ELISA Suspect: 0

Translocation:

- There were 0 tortoises translocated during the 1st quarter.

Adoption & Captive Tortoises:

- There were 0 tortoises placed in the DWR adoption program during the quarter.
- As of 03/31/15 there were 3 tortoises awaiting adoption at the TCF.

EDUCATION

Outreach and Education:

- Staff made 7 presentations to 222 people during the 1st quarter.
- Staff completed 9 Tortoise Awareness Training classes for 263 people. These trainings were for Hurricane City, the Washington County Sheriff's office, Washington City and St. George City road and water well work, and the new Temple Quarry Trail.
- Staff created an ad that was placed in the Southern Utah Family and Kids magazine.
- Staff submitted a spring awareness press release to The Spectrum that was also featured on The Spectrum website.
- Staff submitted a spring awareness press release to St. George News, which was featured on the St. George News website.
- A 6 week promotional pre-movie ad was run in the Megaplex theaters, Hurricane Theater, and Cedar City Theater beginning March 4th.

RECREATION MANAGEMENT

Trails and Trailheads:

- A trail to a historic rock quarry near Red Hills Golf course was finished and the dedication took place on March 19th.

Trail stewards:

- We currently have 19 active trail stewards operating on the ground. This quarter the volunteers donated a total of 334 hours of time on trail monitoring, trail maintenance, and visitor contact within the Reserve. They documented 108 visits in reporting their work and observations. They monitored 70 trails or areas during the quarter. Zones 1-5 of the Reserve were visited during the quarter by trail stewards.
- Social trail use continues in Paradise Canyon and in the lower sections of Zone 3 where biking and equestrian activity is at its highest. Authorized trails, however, are generally clear of trash due to the work of volunteers and community groups who use the trails and assist in the removal of trash and other debris. Substantial erosion remains in effect on some Paradise Canyon trails along with small portions of the Prospector trail and trails in the Sandstone Mountain area.

Additional Volunteer Work:

- During the quarter, 44 hours of steward training and 49 hours of trail steward volunteer program administration were contributed. Total Volunteer time for the quarter amounts to 427 hours.

Signage:

- The biologist installed new signs or improved signage at all Pioneer Park entrances and stepovers and the following trails within the Reserve: Mill Creek, Grapevine, Dino Cliffs, Elephant Arch, Spanish Wash, and Cottonwood Hills.
- Improved maps and information panels were installed at several of the major Reserve trailheads on the City and SITLA properties.

Human Impact Monitoring:

- None

LAW ENFORCEMENT

- During the first quarter, Washington County deputies made 731 vehicle contacts, 155 person contacts, issued 0 citations, and 2 warnings.
- HCP staff met with law enforcement personnel in the scheduled quarterly meeting to review activities and patrols in the Reserve.
- HCP staff also reported 3 illegal camps north of St. George to City law enforcement. The camps have since been removed.
- Sheriff's department detailed report is attached.

FENCING

Boundary Surveys completed:

- None

Fence Constructed:

- Pioneer Park Fencing was completed, which plugs the last fencing gap along Red Hills Parkway.
- Range fence was added to existing tortoise mesh in Zone 5 to prevent livestock trespass.

Planned Fencing:

- Ledges West boundary fencing

Vandalism:

- There were 8 occurrences of cutting the fence or damaging stepovers and gates. All issues were repaired.

Maintenance:

- Maintenance is an ongoing issue created from sources such as washouts from heavy rain storms or vandalism as noted above.

RESERVE ACQUISITIONS/BOUNDARY ISSUES

Section 6 Acquisitions:

- The HCP administrator met with UDNR and UDWR representatives to determine how to most effectively use the remaining funding from the 2013 Sec. 6 grant in meeting the goals of the HCP.
- HCP staff completed applications for the State DWR Endangered Species Mitigation Fund and for USFWS Section 6 Fund in cooperation with Utah DWR. If received, the ESMF funding would be used to help fulfill the match requirement for the Section 6 funding.

BLM Acquisitions:

- Long Valley Exchange EA contract was awarded to SWCA, and the initial in person meeting was held with the contractor and BLM. The schedule has been modified slightly due to review comments and additional drafts. The draft will be posted for public review in April.
- BLM contacted in holders relative to their interest in selling their property. BLM has money from the sale of BLM property in the County that they can use to acquire private property in the Reserve and NCA.
- BLM has applied for a recreation and public access grant to acquire private property in the Babylon area.

Boundary Issues:

- One issue came up in Zone 5, where only tortoise mesh fencing was in place along the boundary of private property and the Reserve. Cattle on the private property were coming onto BLM land by going over the tortoise mesh fence. BLM provided fence material and the livestock owner added range fence to the tortoise mesh to resolve the issue. (See Fencing above)
- An issue of conflicting surveys on the boundary of the Reserve in Ivins at the Palisades' development occurred.

RESERVE MONITORING

- DWR is working to complete the report of the monitoring done in 2015, which should be out sometime in the second quarter of 2016.

OTHER SPECIES

- Virgin River Land Preservation Association approached HCP about providing funds to help with the purchase of property adjacent to Confluence Park. The property has some potential tortoise habitat and contains habitat for several species of Virgin River Fishes and other important wildlife species.
- HCP staff made applications to the State DWR Endangered Species Mitigation Fund and USFWS Section 6 fund for assistance in raising the money necessary for purchase of the property noted above.
- Work on the Access Points Grant at Confluence Park is complete. Main Street Trail Head in Hurricane City has been finished and a ribbon cutting celebration took place on April 16th. Work on the Center Street and SR 9 Trails in LaVerkin is complete. Information signage and maps have been installed.
- Noxious weed control work was undertaken again this quarter to try eradicating Scotch Thistle and Silver Leaf Nightshade.

Attached reports:

HCP Staff Training
Tortoises processed by HCP Staff
Outreach and education presentations
Tortoise awareness training provided
Trail steward volunteers
WCSO quarterly summary
UDWR report



HCP Staff Training

1st Quarter 2016

Training Record for Lacey McIntyre

Date	Training Type	Topic	Location	Comments	Trainer 1	Trainer 2	Trainer 3
1/27/2016	Classroom	Other	Admin Bldg	EOC training for emergencies in Washington County	EOC Department		



REDCLIFFS
DESERT RESERVE

Tortoises Processed - 1st QTR 2016

		MAIN INFORMATION							OBSERVATIONS	ELISA TESTS	CURRENT LOCATION
Tag #	File #	Location Picked Up	Captured	Sex	Date	Observer	Status	MCL			
721	7444	LaVerkin	WashCo	U	1/2/16	Justin Neighbor	Captive	70	Health Observation	Elisa Test Date #1	Current Location
										Awaiting Adoption	HCP - Visitors Center



Outreach and Education Presentations 1st Quarter 2016

Date: 3/15/2016 Topic: RCDR & wildlife Attendees: 9
Presenter: Cornell Christensen Comments: Group: Scouts - Cubs
Presenter: Comments: Explained purpose of Reserve and how
Presenter: it was founded to the children and adults. Also
Presenter: explained how the desert mammals and reptiles
have adapted to the desert environment over time. I
explained the biology and life cycle functions of the
Tortoise

Wildlife displayed: Tortoise(s) Gila monster King snake Condor

Date: 3/16/2016 Topic: RCDR & wildlife Attendees: 5
Presenter: Cornell Christensen Comments: Group: Scouts - Cubs
Presenter: Comments: Explained purpose of Reserve and how
Presenter: it was founded to the children and adults. Also
Presenter: explained how the desert mammals and reptiles
have adapted to the desert environment over time. I
explained the biology and life cycle functions of the
Tortoise

Wildlife displayed: Tortoise(s) Gila monster King snake Condor

Date: 3/22/2016 Topic: RCDR & wildlife Attendees: 14
Presenter: Cornell Christensen Comments: Group: Homeschool Group
Presenter: Explained purpose of Reserve and how it was
Presenter: founded. Also explained how the desert mammals
Presenter: and reptiles have adapted to the desert
environment over time. I explained the biology and
life cycle functions of Mojave Desert Tortoise.
Tank, Chips and Tiny capt

Wildlife displayed: Tortoise(s) Gila monster King snake Condor

Date: 3/24/2016 Topic: RCDR & wildlife Attendees: 75
Presenter: Cornell Christensen Comments: Group: School - Elementary
Presenter: Comments: Explained purpose of Reserve and how
Presenter: it was founded. Also explained how the desert
Presenter: mammals and reptiles have adapted to the desert
environment over time. I explained the biology and
life cycle functions of Mojave Desert Tortoise.

Wildlife di

Wildlife displayed: Tortoise(s) Gila monster King snake Condor

Date: 3/28/2016 Topic: RCDR & wildlife Attendees: 10
Presenter: Cornell Christensen Comments: Group: Temple RV Park
Presenter: Monday Night get together for all residents of the
Presenter: RV Park
Presenter: Comments: Explained purpose of Reserve and how
it was founded. Also explained how the desert
mammals and reptiles have adapted to the desert
environment over time. I explained the biology and
lif

Wildlife displayed: Tortoise(s) Gila monster King snake Condor

Date: 3/29/2016 Topic: RCDR & wildlife Attendees: 56
Presenter: Cornell Christensen Comments: Group: School - Elementary
Presenter: Comments: Explained purpose of Reserve and how
Presenter: it was founded to the children and adults. Also
Presenter: explained how the desert mammals and reptiles
have adapted to the desert environment over time. I
explained the biology and life cycle functions of the
Tortoise

Wildlife displayed: Tortoise(s) Gila monster King snake Condor

Date: 3/31/2016 Topic: RCDR & wildlife Attendees: 53
Presenter: Cameron Rognan Comments: Group: School - Elementary
Presenter: Dixie Montesory 1st and 3rd grade
Presenter:
Presenter:

Wildlife displayed: Tortoise(s) Gila monster King snake Condor

Number of presentations
being reported: 7

Number of attendees
being reported: 222



Tortoise Awareness Training 1st Quarter 2016

Class Date: 1/20/2016

Sam	Laub	St George City	St. George City Water	Justin Neighbor - HCP Bob Sandberg - HCP
Scott	Bowler	St George City	St. George City Water	Justin Neighbor - HCP Bob Sandberg - HCP
Jay	Rhodes	St George City	St. George City Water	Justin Neighbor - HCP Bob Sandberg - HCP
Raphael	Erickson	Gardners Bro Drilling	St. George City Water	Justin Neighbor - HCP Bob Sandberg - HCP
James	Hulef	Gardners Bro Drilling	St. George City Water	Justin Neighbor - HCP Bob Sandberg - HCP
Jeff	Lance	St George City	St. George City Water	Justin Neighbor - HCP Bob Sandberg - HCP
Larry	Delane	St George City	St. George City Water	Justin Neighbor - HCP Bob Sandberg - HCP
Dustin	Bracken	St George City	St. George City Water	Justin Neighbor - HCP Bob Sandberg - HCP
Josh	Haycock	St George City	St. George City Water	Justin Neighbor - HCP Bob Sandberg - HCP
Jacob	Terry	St George City	St. George City Water	Justin Neighbor - HCP Bob Sandberg - HCP
Trent	Bowler	St George City	St. George City Water	Justin Neighbor - HCP Bob Sandberg - HCP
Shayne	DeKorver	St George City	St. George City Water	Justin Neighbor - HCP Bob Sandberg - HCP
Brad	Drummond	St George City	St. George City Water	Justin Neighbor - HCP Bob Sandberg - HCP
Ron	Busic	St George City	St. George City Water	Justin Neighbor - HCP Bob Sandberg - HCP
Tim	Dotson	St George City	St. George City Water	Justin Neighbor - HCP Bob Sandberg - HCP
Talen	Bundy	St George City	St. George City Water	Justin Neighbor - HCP Bob Sandberg - HCP
Tyler	Stubbs	St George City	St. George City Water	Justin Neighbor - HCP Bob Sandberg - HCP

Jayden	Darrington	St George City	St. George City Water	Justin Neighbor - HCP Bob Sandberg - HCP
Willy	Packer	St George City	St. George City Water	Justin Neighbor - HCP Bob Sandberg - HCP
Austin	Robinson	St George City	St. George City Water	Justin Neighbor - HCP Bob Sandberg - HCP
Tyler	Davis	St George City	St. George City Water	Justin Neighbor - HCP Bob Sandberg - HCP
Brandon	Canfield	St George City	St. George City Water	Justin Neighbor - HCP Bob Sandberg - HCP
Royal	Boling	St George City	St. George City Water	Justin Neighbor - HCP Bob Sandberg - HCP
Bobby	Cox	St George City	St. George City Water	Justin Neighbor - HCP Bob Sandberg - HCP
Reed	Leavitt	St George City	St. George City Water	Justin Neighbor - HCP Bob Sandberg - HCP
Brandon	Taylor	St George City	St. George City Water	Justin Neighbor - HCP Bob Sandberg - HCP
Darby	Nielsen	St George City	St. George City Water	Justin Neighbor - HCP Bob Sandberg - HCP
Robert	Lucero	St George City	St. George City Water	Justin Neighbor - HCP Bob Sandberg - HCP
Gary	Knight	St George City	St. George City Water	Justin Neighbor - HCP Bob Sandberg - HCP
Ted	Hurst	St George City	St. George City Water	Justin Neighbor - HCP Bob Sandberg - HCP
Nolan	Gardner	St George City	St. George City Water	Justin Neighbor - HCP Bob Sandberg - HCP
Kevin	Condie	St George City	St. George City Water	Justin Neighbor - HCP Bob Sandberg - HCP
Daren	Judd	St George City	St. George City Water	Justin Neighbor - HCP Bob Sandberg - HCP
Tim	Jonas	St George City	St. George City Water	Justin Neighbor - HCP Bob Sandberg - HCP
Carzson	Tait	St George City	St. George City Water	Justin Neighbor - HCP Bob Sandberg - HCP
Brent	Larkin	St George City	St. George City Water	Justin Neighbor - HCP Bob Sandberg - HCP
Hilton	Covington	St George City	St. George City Water	Justin Neighbor - HCP Bob Sandberg - HCP
Richard	Jones	St George City	St. George City Water	Justin Neighbor - HCP Bob Sandberg - HCP
Kirk	Klotz	St George City	St. George City Water	Justin Neighbor - HCP Bob Sandberg - HCP

Tony Cannon St George City St. George City Water Justin Neighbor - HCP Bob Sandberg - HCP

Class Date: 1/28/2016

Adam	Butterfield	Sunroc	Cameron Rognan - HCP
Taylor	Ricks	Civil Science	Cameron Rognan - HCP
Tyler	Turner	Civil Science	Cameron Rognan - HCP
Russ	Jaynes	Sunroc	Cameron Rognan - HCP
Gyle	Geuch	Sunroc	Cameron Rognan - HCP
Trevor	Chadburn	Tri-State	Cameron Rognan - HCP
Byron	Haslam	Civil Science	Cameron Rognan - HCP
David	Viets	Civil Science	Cameron Rognan - HCP
Samuel	Castillo	Tri-State	Cameron Rognan - HCP
Diego	Castillo	Tri-State	Cameron Rognan - HCP
Israel	Tinoco	Coughlin Co.	Cameron Rognan - HCP
Eliezer	Orozco	Coughlin Co.	Cameron Rognan - HCP
Dave	Hernandez	Coughlin Co.	Cameron Rognan - HCP
Brit	Olsen	Tri-State	Cameron Rognan - HCP
Tony	Filice	Tri-State	Cameron Rognan - HCP
Inga	Filice	Tri-State	Cameron Rognan - HCP
Anthony	Filice	Tri-State	Cameron Rognan - HCP
Kalvin	Bowler	Sunroc	Cameron Rognan - HCP
Trevor	Leach	Tri-State	Cameron Rognan - HCP
Vidal	Maravilla	Tri-State	Cameron Rognan - HCP
Wesley	Hanberg	Santa Clara City	Cameron Rognan - HCP

Gary	Hall	Santa Clara City	Cameron Rognan - HCP
Andrew	Milner	SW Paleo Consulting	Cameron Rognan - HCP
Jeremy	LeFevre	Sunroc	Cameron Rognan - HCP
Tyler	Cornelius	Sunroc	Cameron Rognan - HCP
Ted	Parker	Sunroc	Cameron Rognan - HCP
Arnold	Button	Taylor Made Fencing	Cameron Rognan - HCP
James	Matthews	Taylor Made Fencing	Cameron Rognan - HCP
Barbara	Button	Taylor Made Fencing	Cameron Rognan - HCP
Mark	Broadbent	Taylor Made Fencing	Cameron Rognan - HCP
Mickel	Spencer	Sunroc	Cameron Rognan - HCP
Lisa	Beck	Frontline PI	Cameron Rognan - HCP
Bryan	Finley	Ivins City Power	Cameron Rognan - HCP
Travis	Gubler	Ivins City Power	Cameron Rognan - HCP
Rick	West	Sunroc	Cameron Rognan - HCP
Shawn	Fenstermake	Sunroc	Cameron Rognan - HCP
Jordan	Steed	Sunroc	Cameron Rognan - HCP
Mike	Ballard	Sunroc	Cameron Rognan - HCP
Cody	Cox	Sunroc	Cameron Rognan - HCP
Trevor	Jenkins	Sunroc	Cameron Rognan - HCP
John	Williams	Sunroc	Cameron Rognan - HCP
Brandon	Gainey	Sunroc	Cameron Rognan - HCP
Daniel	Callahan	Santa Clara City	Cameron Rognan - HCP

Scott	Vernon	Rosenberg	Cameron Rognan - HCP
Dalan	Briggs	Ivins City	Cameron Rognan - HCP
Kelly	Rogers	Ivins City	Cameron Rognan - HCP
Terry	Erickson	Ivins City	Cameron Rognan - HCP
Page	Bowler	Ivins City	Cameron Rognan - HCP
Corinne	Brent	Ivins City	Cameron Rognan - HCP
Thomas	Jorgensen	Ivins City	Cameron Rognan - HCP
Chuck	Gillette	Ivins City	Cameron Rognan - HCP
Shiloh	Pentz	Ivins City	Cameron Rognan - HCP
Justin	Davenport	Ivins City	Cameron Rognan - HCP
Jason	Smith	Rosenberg	Cameron Rognan - HCP
Fred	Fage	Santa Clara City	Cameron Rognan - HCP
Randy	Guymon	Landmark Test & Eng.	Cameron Rognan - HCP
Matt	Cooper	Ivins City	Cameron Rognan - HCP

Class Date: 2/4/2016

Mike	Winters	Washington City	Justin Neighbor - HCP Bob Sandberg - HCP
Lester	Dalton	Washington City	Justin Neighbor - HCP Bob Sandberg - HCP
Laura	Ross	Washington City	Justin Neighbor - HCP Bob Sandberg - HCP
Nick	Morris	Washington City	Justin Neighbor - HCP Bob Sandberg - HCP
Brandt	Stubbs	Washington City	Justin Neighbor - HCP Bob Sandberg - HCP
Isaac	Tripp	Washington City	Justin Neighbor - HCP Bob Sandberg - HCP
Jed	Richins	Washington City	Justin Neighbor - HCP Bob Sandberg - HCP
Brett	Christensen	Washington City	Justin Neighbor - HCP Bob Sandberg - HCP

Rick	Roberts	Washington City		Justin Neighbor - HCP	Bob Sandberg - HCP
Charles	Gardner	Washington City		Justin Neighbor - HCP	Bob Sandberg - HCP
Ronnie	Warren	Petersen Bros Drilling		Justin Neighbor - HCP	Bob Sandberg - HCP
Taylor	Gibson	Petersen Bros. Drilling		Justin Neighbor - HCP	Bob Sandberg - HCP
Jay	Harren	Petersen Bros. Drilling		Justin Neighbor - HCP	Bob Sandberg - HCP
Robert	Myers	Washington City		Justin Neighbor - HCP	Bob Sandberg - HCP
Darin	McConell	Washington City		Justin Neighbor - HCP	Bob Sandberg - HCP
Carlos	Trias	Washington City		Justin Neighbor - HCP	Bob Sandberg - HCP
Steven	Hirschi	Washington City		Justin Neighbor - HCP	Bob Sandberg - HCP
Josh	Faulkner	Washington City		Justin Neighbor - HCP	Bob Sandberg - HCP
Bronson	Bundy	Washington City		Justin Neighbor - HCP	Bob Sandberg - HCP
Andy	Stevens	Washington City		Justin Neighbor - HCP	Bob Sandberg - HCP
Jesus	Medina	Washington City		Justin Neighbor - HCP	Bob Sandberg - HCP
Travis	Tait	Washington City		Justin Neighbor - HCP	Bob Sandberg - HCP
Rigoberto	Rosules	Washington City		Justin Neighbor - HCP	Bob Sandberg - HCP
Jayden	Smith	Washington City		Justin Neighbor - HCP	Bob Sandberg - HCP
Waylon	Bundy	Washington City		Justin Neighbor - HCP	Bob Sandberg - HCP
Daniel	Mendoza	Washington City		Justin Neighbor - HCP	Bob Sandberg - HCP
Harvey	Hamer	Washington City		Justin Neighbor - HCP	Bob Sandberg - HCP

Class Date: 2/25/2016

Ken	Richins	Hurricane Water	Hurricane City	Bob Sandberg - HCP	Justin Neighbor - HCP
Austin	Barney	Hurricane Water	Hurricane City	Bob Sandberg - HCP	Justin Neighbor - HCP
Troy	Mitchell	Hurricane Parks	Hurricane City	Bob Sandberg - HCP	Justin Neighbor - HCP

Vicky	Odgen	Hurricane Power	Hurricane City	Bob Sandberg - HCP	Justin Neighbor - HCP
Michael	Ramirez	Hurricane Power	Hurricane City	Bob Sandberg - HCP	Justin Neighbor - HCP
Darren	Barney	Hurricane Parks	Hurricane City	Bob Sandberg - HCP	Justin Neighbor - HCP
Dennis	Bodine	Hurricane Parks	Hurricane City	Bob Sandberg - HCP	Justin Neighbor - HCP
Daringer	Scow	Hurricane Parks	Hurricane City	Bob Sandberg - HCP	Justin Neighbor - HCP
Brian	Anderson	Hurricane Power	Hurricane City	Bob Sandberg - HCP	Justin Neighbor - HCP
Chase	Stout	Hurricane Water	Hurricane City	Bob Sandberg - HCP	Justin Neighbor - HCP
TJ	Rees	Hurricane Power	Hurricane City	Bob Sandberg - HCP	Justin Neighbor - HCP
Connie	Martin	Hurricane Water	Hurricane City	Bob Sandberg - HCP	Justin Neighbor - HCP
Ryan	Miller	Hurricane Parks	Hurricane City	Bob Sandberg - HCP	Justin Neighbor - HCP
Kory	Wright	Hurricane Water	Hurricane City	Bob Sandberg - HCP	Justin Neighbor - HCP
Kyle	Fern	Hurricane Power	Hurricane City	Bob Sandberg - HCP	Justin Neighbor - HCP
Robert	Chynunth	Hurricane Power	Hurricane City	Bob Sandberg - HCP	Justin Neighbor - HCP
Joe	Peine	Hurricane Streets	Hurricane City	Bob Sandberg - HCP	Justin Neighbor - HCP
Dale	Wanz	Hurricane Water	Hurricane City	Bob Sandberg - HCP	Justin Neighbor - HCP
Mike	Eager	Hurricane Mining	Hurricane City	Bob Sandberg - HCP	Justin Neighbor - HCP
Cord	Datts	Hurricane Water	Hurricane City	Bob Sandberg - HCP	Justin Neighbor - HCP
John	Opets	Hurricane Parks	Hurricane City	Bob Sandberg - HCP	Justin Neighbor - HCP
Matthew	Rytyl	Hurricane Parks	Hurricane City	Bob Sandberg - HCP	Justin Neighbor - HCP
Larry	Hutchings	Hurricane Streets	Hurricane City	Bob Sandberg - HCP	Justin Neighbor - HCP
Brandon	Kuhlmann	Hurricane Parks	Hurricane City	Bob Sandberg - HCP	Justin Neighbor - HCP
Layne	Lavigne	Hurricane Streets	Hurricane City	Bob Sandberg - HCP	Justin Neighbor - HCP

Kyle	Loursbury	Hurricane Parks	Hurricane City	Bob Sandberg - HCP	Justin Neighbor - HCP
Dave	Imlay	Hurricane Power	Hurricane City	Bob Sandberg - HCP	Justin Neighbor - HCP
Hans	Christensen	Hurricane Reader	Hurricane City	Bob Sandberg - HCP	Justin Neighbor - HCP
Don	Behunin	Hurricane Power	Hurricane City	Bob Sandberg - HCP	Justin Neighbor - HCP
Jared	Ross	Hurricane Power	Hurricane City	Bob Sandberg - HCP	Justin Neighbor - HCP
Scott	Hughes	Hurricane Power	Hurricane City	Bob Sandberg - HCP	Justin Neighbor - HCP
Bret	Beagley	Hurricane Streets	Hurricane City	Bob Sandberg - HCP	Justin Neighbor - HCP
Alan	Clark	Hurricane Power	Hurricane City	Bob Sandberg - HCP	Justin Neighbor - HCP

Class Date: 2/26/2016

Noah	Sato	Quarry Trail	Cameron Rognan - HCP
George	Lamb	Quarry Trail	Cameron Rognan - HCP
Michael	Mullins	Quarry Trail	Cameron Rognan - HCP
Guy	Ludlow	Quarry Trail	Cameron Rognan - HCP
Kobe	Ray	Quarry Trail	Cameron Rognan - HCP
David	Peterson	Quarry Trail	Cameron Rognan - HCP
Malia	Mullins	Quarry Trail	Cameron Rognan - HCP
Jamelle	Mullins	Quarry Trail	Cameron Rognan - HCP
Jeff	Mullins	Quarry Trail	Cameron Rognan - HCP
Jenna	Mullins	Quarry Trail	Cameron Rognan - HCP

Class Date: 2/27/2016

Dean	Baxter	Quarry Trail	Cameron Rognan - HCP
Aaron	Carey Jr.	Quarry Trail	Cameron Rognan - HCP
Carter	Webb	Quarry Trail	Cameron Rognan - HCP

Guy	Ludlow	Quarry Trail	Cameron Rognan - HCP
Brendan	Geertsen	Quarry Trail	Cameron Rognan - HCP
Scott	Davis	Quarry Trail	Cameron Rognan - HCP
Nate	Davis	Quarry Trail	Cameron Rognan - HCP
Holland	Webb	Quarry Trail	Cameron Rognan - HCP
Brian	Ludlow	Quarry Trail	Cameron Rognan - HCP
Wendy	Ludlow	Quarry Trail	Cameron Rognan - HCP
Ruby	Ludlow	Quarry Trail	Cameron Rognan - HCP
Dave	Peterson	Quarry Trail	Cameron Rognan - HCP
Tanner	Nelson	Quarry Trail	Cameron Rognan - HCP
Carter	Nelson	Quarry Trail	Cameron Rognan - HCP
Jessie	Romney	Quarry Trail	Cameron Rognan - HCP
Paul	Geertsen	Quarry Trail	Cameron Rognan - HCP
Ava	Geertsen	Quarry Trail	Cameron Rognan - HCP
Heather	Geertsen	Quarry Trail	Cameron Rognan - HCP
Cooper	Pepples	Quarry Trail	Cameron Rognan - HCP
Sandi	Pepples	Quarry Trail	Cameron Rognan - HCP

Class Date: 3/5/2016

Jace	Larkin	Quarry Trail	Cameron Rognan - HCP
Drew	Durrant	Quarry Trail	Cameron Rognan - HCP
Christian	Wittwer	Quarry Trail	Cameron Rognan - HCP
Jordon	Edwards	Quarry Trail	Cameron Rognan - HCP
Andy	Rich	Quarry Trail	Cameron Rognan - HCP

Treylin	McArthur	Quarry Trail	Cameron Rognan - HCP
Dustin	McArtur	Quarry Trail	Cameron Rognan - HCP
Kyle	Wells	Quarry Trail	Cameron Rognan - HCP
Milton	Francom	Quarry Trail	Cameron Rognan - HCP
Joe	Francom	Quarry Trail	Cameron Rognan - HCP
Rebeka	Francom	Quarry Trail	Cameron Rognan - HCP
Josie	Francom	Quarry Trail	Cameron Rognan - HCP
Cheree	Francom	Quarry Trail	Cameron Rognan - HCP
Bryan	Brazzeal	Quarry Trail	Cameron Rognan - HCP
Robert	Vovas	Quarry Trail	Cameron Rognan - HCP
Dustin	Alldredge	Quarry Trail	Cameron Rognan - HCP
Alex	Alldredge	Quarry Trail	Cameron Rognan - HCP
Kaden	Humphrey	Quarry Trail	Cameron Rognan - HCP
Logan	Cook	Quarry Trail	Cameron Rognan - HCP
Dallin	Alldredge	Quarry Trail	Cameron Rognan - HCP
Paul	Geertsen	Quarry Trail	Cameron Rognan - HCP
Heather	Geertsen	Quarry Trail	Cameron Rognan - HCP
Ava	Geertsen	Quarry Trail	Cameron Rognan - HCP
Brendan	Geertsen	Quarry Trail	Cameron Rognan - HCP
Cooper	Peppler	Quarry Trail	Cameron Rognan - HCP
Sandi	Peppler	Quarry Trail	Cameron Rognan - HCP
Curtis	Anderson	Quarry Trail	Cameron Rognan - HCP

Cade Humphrey Quarry Trail Cameron Rognan - HCP

Class Date: 3/15/2016

Kaelon Abbott Quarry Trail Cameron Rognan - HCP
Peyton Abbott Quarry Trail Cameron Rognan - HCP
Brynlei Abbott Quarry Trail Cameron Rognan - HCP
Joel Brown Quarry Trail Cameron Rognan - HCP
Brekken Abbott Quarry Trail Cameron Rognan - HCP
Traevn Abbott Quarry Trail Cameron Rognan - HCP
Dan Abbott Quarry Trail Cameron Rognan - HCP
Brie Graff Quarry Trail Cameron Rognan - HCP
Adam Graff Quarry Trail Cameron Rognan - HCP
Kathy Abbott Quarry Trail Cameron Rognan - HCP
George Wells Quarry Trail Cameron Rognan - HCP
Karter Abbott Quarry Trail Cameron Rognan - HCP
Drew Durrant Quarry Trail Cameron Rognan - HCP

Class Date: 3/31/2016

Nathan Abbott Washington County Sheriff's Office Cameron Rognan - HCP
Lucas Alfred Washington County Sheriff's Office Cameron Rognan - HCP
Jeff Bailey Washington County Sheriff's Office Cameron Rognan - HCP
Brock Bentley Washington County Sheriff's Office Cameron Rognan - HCP
Dave Bolander Washington County Sheriff's Office Cameron Rognan - HCP
Darrell Cashin Washington County Sheriff's Office Cameron Rognan - HCP
Matt Cochran Washington County Sheriff's Office Cameron Rognan - HCP

Dave	Crouse	Washington County Sheriff's Office	Cameron Rognan - HCP
Steve	Despain	Washington County Sheriff's Office	Cameron Rognan - HCP
Paul	Gates	Washington County Sheriff's Office	Cameron Rognan - HCP
Mike	Graf	Washington County Sheriff's Office	Cameron Rognan - HCP
Matt	Hansen	Washington County Sheriff's Office	Cameron Rognan - HCP
Jim	Jessop	Washington County Sheriff's Office	Cameron Rognan - HCP
Ed	Keil	Washington County Sheriff's Office	Cameron Rognan - HCP
Dan	Kroff	Washington County Sheriff's Office	Cameron Rognan - HCP
Wesley	LiCalzi	Washington County Sheriff's Office	Cameron Rognan - HCP
Mike	Mitchell	Washington County Sheriff's Office	Cameron Rognan - HCP
Simon	Pikyavit	Washington County Sheriff's Office	Cameron Rognan - HCP
Judy	Randall	Washington County Sheriff's Office	Cameron Rognan - HCP
Jared	Redfearn	Washington County Sheriff's Office	Cameron Rognan - HCP
Mike	Richardson	Washington County Sheriff's Office	Cameron Rognan - HCP
Darren	Richmond	Washington County Sheriff's Office	Cameron Rognan - HCP
Jesse	Sanchez	Washington County Sheriff's Office	Cameron Rognan - HCP
Ali	Snow	Washington County Sheriff's Office	Cameron Rognan - HCP
Sean	Sparks	Washington County Sheriff's Office	Cameron Rognan - HCP
Situli	Tafili	Washington County Sheriff's Office	Cameron Rognan - HCP
Rob	Tersigni	Washington County Sheriff's Office	Cameron Rognan - HCP
Aaron	Thompson	Washington County Sheriff's Office	Cameron Rognan - HCP
Bob	Tibbits	Washington County Sheriff's Office	Cameron Rognan - HCP

Omar	Torres	Washington County Sheriff's Office	Cameron Rognan - HCP
Forrest	Vanwest	Washington County Sheriff's Office	Cameron Rognan - HCP
Clint	Whitney	Washington County Sheriff's Office	Cameron Rognan - HCP
Russ	Wright	Washington County Sheriff's Office	Cameron Rognan - HCP
Erick	Baron	Washington County Sheriff's Office	Cameron Rognan - HCP
James	Standley	Washington County Sheriff's Office	Cameron Rognan - HCP

Number of classes
being reported: 9

Number of attendees
being reported: 263

Red Cliffs Desert Reserve (NCA)
January-March 2016 Report
Trail Steward Volunteers

Red Cliffs Desert Reserve trail stewards donated a total of **334 hours** of time on trail monitoring, trail maintenance, and visitor contact within the Reserve during January through March of 2016. They documented **108 visits** in reporting their work, their observations, and their recommendations. The reports show that **70 trails or areas** were monitored during the quarter (see attached summary). Trails in Zones 1-5 were included in the field reports submitted. During the quarter, **44 hours** of steward training and **49 hours** of trail steward volunteer program administration were contributed. **Total volunteer time** for the quarter amounts to **427 hours**.

Social trail use continues in Paradise Canyon and in the lower sections of Zone 3 where biking and equestrian activity is at its highest. Authorized trails, however, are generally clear of trash due to the work of volunteer s and community groups who use the trails and assist in the removal of trash and other debris. Substantial erosion remains in effect on some Paradise Canyon trails along with small portions of the Prospector trail and trails in the Sandstone Mountain area.

Attachment:

Trails monitored report

Trails Monitored in RCDR Jan-Mar 2016

Adams
Adit
Anasazi
Arch
Babylon Road
Beck Hill *
Black Gulch
Bone Wash
Bracken's Loop
Brooks Nature
Chuckwalla*
City Creek
Cordura
Cottonwood Canyon
Cottonwood Hills
Cottonwood Road (aka Turkey Farm)
East Cinder Knoll
East Reef
Elephant Arch
Flicker
Gap
Gecko
Gila*
Grapevine
Grubstake
Halfway Wash
Hellhole
High Point
Historic Babylon
Johnson Canyon*
Leeds Reef
Little Purgatory
McMullin
Metate
Mill Creek
Owen's Loop
Padre Canyon*
Paradise Rim*
Pioneer Hills
Pioneer Rim
Prospector
Quail Creek
Red Hills Connector
Red Hills Parkway
Red Mountain*
Red Reef
Red Reef East
Roadrunner

Sand Cove Access
Scout Cave*
Snow Canyon Overlook
Spanish Wash
SR-18
T-Bone
Tipple
Toe*
Turtle Wall
Virgin River
West Cinder Knoll
White Reef
Winchester
Yellow Knolls
600 North
5 Unnamed trails/areas in RCDR/NCA
Trails Outside of RCDR
Confluence Park
Juniper

*Partly or wholly in non-fee area of SCSP
Data as of 08/05/15 (107 trails total)

**RED CLIFFS DESERT RESERVE PATROL STATISTICS
2016**

January					Total Hrs	
VEHICLE CONTACTS	PERSON CONTACTS & MISC.	CITATIONS	WARNINGS	Patrolled		
01/03/16	Chuckwalla-10 vehicles at trailhead, several climbers. 600 N Hurricane-1 truck. Confluence Park-2 mtn bikers on rd. Turkey Farm Rd-1 vehicle parked on rd unoccupied, was gone when I left reserve.	01/02/16	No of Diamond Valley East trail-spoke to two males spotting deer. Black Gulch Trail-two males spotting deer UT/D673AV. Cottonwood -UT/D673AV parked one male arrived, spotting deer Nick wilson. SandCove trail-UT/D314M, Lower Babylon-C562YV. UT/Y322PT-3 males hiking. Toquerville Mine Trail UT/Z343SA.			
01/07/16	Rec Cliffs CG-PAW7367/CO, Y889FV/UT.	01/03/16	Turkey Farm Rd-male picking up trash and walking dog. Another male looking at deer. Confluence-vehicle parked, male was reading the paper.			
01/09/16	Chuckwalla-MT/BHS575. T-Bone-UT/X221ZA, UT/Z321UK. Cottonwood Springs-UT/C659EC. Mesa Rim-UT/X417ZA.	01/05/16	Grapevine-checked on vehicle parked on the trail unoccupied but later met w/3 occupants hiking inside the reserve.			
01/09/16	Chuckwalla-29 cars in pkg lot. Pioneer Hills-4 cars in lot.	01/28/16	Grapevine-mtn biker and couple jogging. Contacted 5 yr old female playing by herself on trail, mother was contacted and returned home.			
01/10/16	Turkey farm Rd+UTX324WL. White Reef-SD/19BJ87. Babylon-UT/D732DN-male & female w/2 dogs, advised of leash requirements. Lower Babylon-UT/D314M.					
01/12/16	Cinder Knolls-UT/440UAK,C276UR/NV, 13A972. Sand Cove Trailhead-UT/X151WM. Two males hiking the area. Cinder Knolls-UT/X508XP, X188UB.					
01/14/16	Pioneer Park-2 vehicles. Toquerville Mine-2 vehicles. Sand Cove-1 vehicle. Cottonwood-4 vehicles. T-Bone-1 vehicle.					
01/21/16	Chuckwalla trailhead-10 vehicles Y583MX/UT, W315BV/UT, A762BL/UT, Z077VU/UT. Pioneer trailhead Y435FL/UT, D740KN/UT, 019NEU/UT. Grapevine-X005RB/UT, Y942XP/UT. T-Bone trailhead-UT/E044EN.					

January

01/22/16	Chuckwalla-1 vehicle at trailhead. Turkey Farm Rd-Road work below Yellow Knolls, 2 dump truck & a loader. Grapevine-2 vans at trailhead. Cottonwood-6 cars in pkg area, 3 trucks w/horse trailers. Babylon-1 vehicle at Toquerville. Confluence Park-1 vehicle parked.							
01/23/16	Red Cliffs GC-talked w/New Harmony Scout Group-Y045VJ, X444EJ, 354YJG. White Reef-717558A/MT, Y493BY. Babylon-observed two Razor's w/people..Turkey Farm Rd-X258NH.							
01/24/16	Red Cliffs GC-multiple campsites occupied, camp tags appeared valid. Babylon-UT/E984EN , 3 hikers at trail. Grapevine-UT/Y010ZN, UT/B614VC.T-Bone-ITX633VM hiker w/dog, informed about pet rules. Verbal warning.							
01/30/16	Chuckwalla-20 cars in pkg lot.UT/Y528GK, UT/D180TA, UT/Y551US, UT/Y083XP, UT/X044CG, UT/E507FA, UT/647PLE. Pioneer Hills 9 cards in pkg lot, UT/X649VM, UT/W716BU, UT/Z080ZN, UT/C546GG. Pioneer Park-ID/WEROCK, AZ/BEN8290, UT/E951AN, UT/W332BU, UT/B464VB, UT/E939EM. Grapevine-8 cars in pkg lot. UT/E813AK, UT/C298UV, UT/W670BU, UT/Y444BY, UT/304PCK, UT/837VTX. Cottonwood-UT/X680XP.							
	Total Vehicles		Total Person Contacts		Total		Total	Total Hrs
	201		50		0		0	110

**RED CLIFFS DESERT RESERVE PATROL STATISTICS
2016**

February								Total Hrs
VEHICLE CONTACTS	PERSON CONTACTS & MISC.	CITATIONS	WARNINGS	Patrolled				
02/02/16	Turkey Farm Rd-pick-up truck headed North at the end of the new road construction. Power company still out installing new power poles.	02/13/16	Toquerville Mine trail-Talked with some hikers at SandCove trailhead. Red Cliffs campground-packed with campers and hikers.			02/14/16	verbal warning-vehicle in no vehicle area.	
02/04/16	Chuckwalla-CA/7ECC502, X924PE, Y583MX, C836UU, W065DH, E026B.Pioneer Trl-Y273FL, B543ZX, Y239BT, MI/CC79299, C482VH, Y435FL. T-bone-E453AV.Red Cliffs-AK/DRZ172.	02/21/16	Turkey farm rd-talked with some hikers at Mesa Rim trailhead, answered questions they had about the tortoises.					
02/05/16	Chuckwalla-2 vehicles at trailhead. Turkey Farm-2 Jeeps. Grapevine-3 vehicles. Cottonwood-6 vehicles. Babylon-1 Jeep at Toquerville mine. Confluence-1 vehicles & Ash Creek Water truck went through gate.	02/25/16	Babylon-contacted several people picnicking at the edge of the river by the old Toquerville cement building. Turkey Farm Rd-Area was not busy but there were a few vehicles.					
02/05/16	Babylon-2 vehicles around, no violations. Red Cliffs CG-few campers and day use vehicles.							
02/06/16	Chuckwalla-912HCM/OR.Turkey Farm Rd-X682PR. Cottonwood-Z940DX.Confluence Park-BKY9726/AZ.							
02/06/16	Grapevine-X641UB/UT, X299LZ/UT, JPG312/NV, Y629EJ/UT, 410ZAD/ID, W221BU/UT, Y912XN/UT. Lots of people hiking, horseback riding and mtn biking. Pioneer Park-G392D/UT, X071ZV/UT & Y519AZ/UT. Chuckwalla-709UVV/UT, B248TM/UT, X420SN/UT, 761UDK/UT, W067AD/UT, X320XR/UT, X140VM/UT, Y781FL/UT, X099MB/UT, 7KVZ308/CA. Turkey Farm Rd-X191WF/UT, X661LJ/UT. Red Cliffs-257qkv/co.d364pj/ut, 716Int/nv.							
02/09/16	Cinder Knolls-MT/180047B.Turtle hospital-UT/Y788NH, one male hiking. Confluence Park-people waking around. Toquerville mine-ID/1M83674-2 males, 1 female camping for the night.							
02/11/16	Snow Canyon Park-hikers/climbers. Turkey Farm Rd-various vehicles leaving the area. Mesa Rim trailhead-X094UC leaving area.							
02/12/16	Chuckawalla-4 cars at pkg lot. Turkey Farm-5 dump trucks, waste and Garbage, 2 other cars on rd. Cottonwood-3 vehicles. Confluence-3 cars in pkg area.							

02/13/16	2 cars UT/X874WM, UT/B430BV.Chuckwalla-50 cars. UT/X104NY, UT/X410OFF, UT/Y113XP, UT/X042XM, UT/Y205CW, UT/861WNW, UT/X094MH, NV/GORVN. Pioneer Hills-9 cars, UT/Y254EK, UT/X986RA, UT/X984SS, UT/120MJT, UT/W445BU Grapevine-18 cars, UT/709UVVV, UT/D744HG/UT/E042EP, UT/688BY, UT/X904RK, UT/C915XJ, UT/051PFR, UT/B937HE, UT/X752GJ.Cottonwood-3 CARS ut/226urw, ut/d495tu, ut/x014gf,White Reef-UT/A294K. Red Cliffs-7 CARS, UT/100UEG, UT/C819DD, UT/X918XH, UT/521DL. SandCove-UT/630PFFK.							
02/14/16	Chuckwalla-Y607CR, X971XM, X813RB,D786LT,W920CB, B441UK. City Creek-D903WF. .							
02/18/16	Lava Flow-3 cards, UT/B993CG, 279WTJ,ID/8BEF4492.Butterfly-6 cars UT/D824XJ, UT/Z838JP.West Canyon-5 cars-NV/81B818, UT/E62EB,D214WJ,C676SM. Pioneer Hills-2 cars UT/D100WD, UT/W660BZ.White Reef-UT/Y856VU. Red Cliffs-UT/BZZYBEE, W349BV.Turkey Farm Rd-UT/Y921PE.							
02/19/16	Cinder Knoll-3 cars. Confluence-4 cars & 2 side by sides. Babylon-2 trucks. Cottonwood-1 truck & horse trailer. Grapevine-3 vehicles. Turkey Farm-4 vehicles in reserve.							
02/20/16	Chuckawalla-8-C009WR, Y605HK,Y708NP,E791F,D312ZW ,X641XR,Z905HZ,917WHU.Grap evine-3- W638AD,438MPF,B998XM.Turkey Farm-6- A235EC,Y853FL,X947WL,AXX7850/AZ, Y311ZK, B871JJ.Millcreek-10- LNT727/NV,X258NF, W670AD,283XEF/CO,X997UB,B D753V,C351RD,D993VJ,1BU5556/ID,X148FH.Red Cliffs-4 E02GJ,X779GU,755NVD, 594PFC.							
02/23/16	Y207TN 2004 Jeep parked at Diamond Valley East Trail.							
02/26/16	Cinder Knolls-2 vehicles at trailhead. Confluence Park-4 vehicles in parking area. Cottonwood-2 vehicles at trailhead, runners at the gate. Grapevine-1 car near the road.							
	Total Vehicles		Total Person Contacts		Total		Total	Total Hrs
	273		30		0		1	90

March

**RED CLIFFS DESERT RESERVE PATROL STATISTICS
2016**

March								Total Hrs
VEHICLE CONTACTS		PERSON CONTACTS & MISC.		CITATIONS		WARNINGS		Patrolled
DATE	DETAILS	DATE	DETAILS	DATE	DETAILS	DATE	DETAILS	
03/04/16	Sand Cove-UT/MNKYCGE. Historic Babylon trail-UT/Y672PB. East Reef Trail-ID/1LD7817. Sandstone primitive camp area-family hiking Arch trail. 900 N Main Leeds-WI/209MDB-needed directions. Cottonwood trail-UT/D224MM, Y322JN.	03/01/16	Virgin River trail-1 male 2 female walking dog. Tortoise trail-2 juvenile males out for a hike. Toquerville trail-Babylon-talked with couple on horses Y448SE-11129ZZ horse trailer plate.			03/20/16	Kimberly Holloway-dogs off leash W10445241.	
03/04/16	Confluence Park-1 vehicle & 1 hiker with dog on leash. Babylon-1 truck & horse trailer. Grapevine-9 vehicles. Turkey Farm-10 vehicles. Chuckawalla-17 vehicles at trailhead.	03/08/16	Sand Cove camping area-UT/X685YZ, two males taking photos.					
03/05/16	Historic Babylon-E535HD. Cottonwood-Y322JN. Mesa Rim-C395VM. Black Gulch-X266UB. Turkey Farm Rd-D905TV. Pioneer trails-B397KL. CHUCKAWALLA-UT/AB.	03/10/16	Babylon-made contact with several people hiking and driving through the area. Grapevine-runners in the area.					
03/06/16	Chuckwalla-UT/717UKL, X981MH, D897LA, NV/AUSTINC. Turkey Farm Rd-UT/C659EC, X235AU.	03/18/16	Cottonwood-hikers, bikers, horseback riders. Talked about regulations and picked up trash. Sand Cove-I observed 2 four wheelers driving on main rd. Boy Scout group heading toward camping area. Verified permits. Mine Shaft-UT/Y788TM, located hikers. Babylon-multiple vehicles and individuals in area. Confluence Park-UT/B701RL two individuals hiking.					
03/11/16	Chuckawalla-3 vehicles at trailhead. Turkey Farm-1 truck, spoke w/Justin Neighbor. Grapevine-2 vehicles. Cottonwood-8 vehicles. Red Cliffs-14 cars. Babylon-5 vehicles. Confluence Park-1 car in parking area.	03/22/16	Turtle Hospital-one male & son hiking the area. Confluence Park-UT/960XSL driving on rd, 2 people hiking the area. Sand Cove area-CA/7RJY059.					
03/12/16	Turkey Farm Rd-X286RH, T-Bone Trl-"Fish Whisperer". Cottonwood-Ca731ke. Cottonwood tri-E535F. Pioneer Trls-B893BZ.	03/24/16	Babylon-made contact with two gentlemen hanging out at the bottom of Babylon Rd near old structure. They were enjoying the warm morning sun. Turkey Farm Rd-Contacted hikers and mtn bikers in area. I checked on an unoccupied vehicle parked halfway up the rd.					
03/13/16	Chuckawalla-UT/X649UP. City Creek-UT/418WGZ. Babylon-male walking-stated he got in an argument w/his wife and was walking home-Dustin Kitcher. Sandcove camp-"may" camping party, dog off leash, warned. Sandcove camp"Stagg" party, Mrs Kitcher stated all was ok. Party warned for no fire ring.	03/29/16	Confluence Park-Tortoise trail-DWR truck parked by river. Cottonwood B456EE. X557GU one male jogging on the trails. Babylon Rd-Ford truck with two occupants driving out. 3 males on 4-wheelers traveling on main rd. Sand Cove-White Jeep driving on main rd, Blue Subaru on Main rd headed out.					

03/18/16	Confluence Park-3 vehicles & hikers w/ 2 dogs. Cottonwood-1 truck & horse trailer.2 other cars. Grapevine-4 cars w/mtn bikers at trailhead. Turkey Farm-6 vehicles leaving the reserve.	03/31/16	Turtle Hospital-One hiker visible on trail. Toquerville Mine-CA/4RNW314.					
03/19/16	White Reef-X991AV.Mesa Rim-D686TV & HUNTNMN. Turkey Farm-8S15096/CA near water tower. Chuckawalla-X100RA.							
03/20/16	Snow Canyon Park-several campers @ camp location. Overlook-UT/X945TY. Red Mtn Trail-UT/X563ML. Chuckawalla-several walkers and bicyclers. Mesa Rim Trail-UT/D686TV. Cottonwood Trail-several on horseback/hikers. White Reef trail-several parked vehicles. Red Cliffs-several hikers/campers.							
03/20/16	Grapevine-993NFV/UT, Z391XV/UT, W871DG/UT, C608RD/UT, E672BU/UT. Advised a few people to keep their dogs on leash. Chuckawalla-Y341AA/UT, 426JBD/OR, E613BH/UT, X137RZ/UT, X543PP/UT, E917EZ/UT, 146MVR/DC, X476YE/UT. Turkey Farm Rd-BSD3657/AZ, Y966RP/UT, B52XGZ/CO, 731QUB/CO.Red Cliffs-7KLC882/CA, 157VBE/UT, A642MM/UT, Y863XP/UT, Y907XN/UT, C371W/UT. Advised a few people to pay their camping permits. Millcreek-E574CN/UT, W535DH/UT.							
03/25/16	Chuckawalla-6 vehicles at trailhead. Turkey Farm Rd-passed 2 vehicles a County water truck on the rd. Cottonwood-3 vehicles in parking area. Babylon-3 OHV's & 4 Jeep's on rd. Confluence Park-2 cars in parking area.							
03/26/16	Chuckawalla-35 cars UT/D433FY, UT/C224RH/UT, E4963AC/UT,W689CT, X349PW, Y437WE, B947JG.Pioneer Hills-5 cars UT/B598XM, D070EY, Y033ZN. Yellow Knolls-UT/X769GR.							
03/27/16	Chuckawalla-X512PY. Babylon-W327AE, Y320VW, Y867XP.							
03/31/16	Red Cliffs-W535DH, C823ZF, C040ST, C4778SY, CA7KDX149, D527XN, X044XE, WY/226432, B226HR, D583XG. Cottonwood-E035F, F970H, Y869KH. Black Gulch-D869XJ-spoke with two hikers. Chuckawalla-D824LF.							
	Total Vehicles		Total Person Contacts		Total		Total	Total Hrs
	257		75		0		1	115
	1st Quarter Totals		1st Quarter Totals		Total		Total	Total Hrs
	731		155		0		2	320



GARY R. HERBERT
Governor

GREGORY S. BELL
Lieutenant Governor

State of Utah

DEPARTMENT OF NATURAL RESOURCES

MICHAEL R. STYLER
Executive Director

Division of Wildlife Resources

GREGORY SHEEHAN
Division Director

DATE: April 18, 2015

RE: Quarterly Report, Washington County Habitat Conservation Plan

The Division of Wildlife Resources has completed the 2015 monitoring report, *Regional Desert Tortoise Monitoring in the Red Cliffs Desert Reserve, 2015*. Status of the Red Cliffs Desert Reserve population was presented in February at the Desert Tortoise Symposium in Las Vegas, Nevada and in March at The Wildlife Society meeting in St. George. Density estimates obtained in 2015 are significantly different from the first four years of monitoring (1998 to 2001) indicating a biologically significant decline of tortoises since regional monitoring began in 1998. However, since 2007, the tortoise population appears to have stabilized and there is no evidence of a further decrease in tortoise densities. Primary factors for declines of tortoises within the Red Cliffs Desert Reserve include habitat degradation (e.g., wildfires, etc), drought, and disease.

Health assessments were conducted for tortoises encountered during monitoring. Tortoises with clinical signs of disease have remained relatively stable since the 2007 monitoring season. Of the tortoises processed, 7% were observed with clinical signs of the Upper Respiratory Tract Disease (URTD) including swollen eyes, nares with exudate present (i.e., clear, watery, cloudy or thick) or one or both nares completely impacted, in addition to labored breathing (i.e., rasping). Tortoises with URTD clinical signs were found in Buckskin Hollow, Cottonwood, Hurricane, Industrial Wash, Middleton Wash, Red Hills Parkway, and Rusty Cliffs.

Monitoring within Zone 4 indicates that tortoises have established themselves. A variety of sign was observed (i.e., deep burrows, shells and scat) throughout Zone 4. Density was highest along Babylon Road, the areas that contained the majority of translocation sites (i.e., Babylon, Sand Cove and East Reef). Recaptured translocated tortoises appear to have high site fidelity within Zone 4; some recaptured tortoises have remained on site for over fourteen years. We will continue to monitor tortoise populations to assess the population structure and spatial distribution of tortoises within Management Zone 4. In addition, future efforts will focus on translocating tortoises away from roads and heavily recreated areas.

Habitat Restoration in Middleton Wash:

A 13 acre parcel within Middleton Wash in the Red Cliffs Desert Reserve was recently acquired in 2015 by UDWR (through Section 6 funds). From March 9 to 12, 2016, the American Conservation Experience work crew restored riparian habitat in the wash including: 1) cut and removed tamarisk, Russian olive, and other non-native woody invasive species along 0.25 miles of wash, 2) applied the herbicide, Polaris, to recently cut stumps to prevent regrowth, 3) pulverized cut woody material using a chipper and raked



out on site, and 4) removed 25+ old tires and large debris items. The site will be resurveyed in the fall to determine if additional restoration work is required.

Habitat Restoration in Burned Areas

The interagency work project, Desert Tortoise Habitat Restoration in Burned Areas is progressing as planned. During the first quarter, University of Nevada, Las Vegas (UNLV) set up active accounts with the three major funding agencies including U.S. Fish and Wildlife Service, Utah Department of Natural Resources (Watershed Restoration Initiative), and Washington County Red Cliffs Desert Reserve.

UNLV worked closely with the Seeds of Success program to identify available seed and obtained four species at the Bend, Oregon seed repository including Big Galleta (*Hilaria rigida*), Bush Muhly (*Muhlenbergia porter*), brittlebush (*Encelia farinosa*) and *Astragalus* sp.. Additional seed was obtained through Utah Division of Wildlife Resources (i.e., Globe Mallow, *Sphaeralcea ambigua*) and USGS office in Las Vegas, NV (i.e., white bursage, *Ambrosia dumosa*, and creosote, *Larrea tridentata*). In addition, the Bureau of Land Management provided large quantities of Globe mallow. UNLV is also prepared to obtain additional seed in the field for species that are either: 1) not available through the seed repository, 2) available only in small quantities, or 3) showing low germination rates with the current seed stock.

In early February, UNLV initiated work on the project by hiring two part time students and setting up the greenhouse with benches and a spray irrigation system. In addition, chicken wire, stakes and shade cloth were purchased to establish holding areas for the seedlings once when they leave the greenhouse. The seedlings will remain in these shade closures until they are ready for transplanting in Fall 2016.

UNLV reported that some species are showing low germination rates likely due to the soil mix (i.e., crust formation and high moisture retention). To resolve these issues, species were leached with water to remove possible inhibitory compounds, and establishment and pretreatment protocols were adjusted based on suggestions from Lake Mead Nursery and ARS (Agricultural Research Station) in Logan, Utah. Germination rates for creosote, white bursage, and globe mallow remain low but the other species are responding favorably.

On February 12, 2016, BLM, UDWR, USFWS, RCDR, and UNLV met on site at the two plots to discuss the project including planting protocols, planting strategy, monitoring efforts, and project challenges. Monthly conference calls (i.e., January, March) have been conducted to flush out issues such as available seeds, monitoring protocols, planting methods, material needs (e.g., cages), volunteer efforts, and intern needs. Monthly conference calls will continue to flush out issues and identify monthly action items.

Culvert Monitoring

Five culverts, specifically designed to facilitate tortoise movement, were built in 2012 along the Red Hills Parkway. These culverts were constructed to mitigate the impacts of a road expansion that bisected an existing high density tortoise population within the Red

Cliffs Desert Reserve. Anecdotal information, based on presence of sign (e.g., tracks and scat) indicates that tortoises use the culverts as temporary shelters; however, it is unknown if they are used as movement corridors. UDWR is currently monitoring these five culverts along Red Hills Parkway to: 1) record and identify the species using the culverts, with an emphasis on the desert tortoise, 2) determine how they are used (i.e., movement corridor, shelter) and 3) determine use patterns (e.g., frequency).

From February 2014 to December 2015, 36 species of mammals, birds, and reptiles were observed using the culverts as temporary shelters; several species used the culverts as movement corridors. Desert tortoises have been recorded at seven of the ten culverts; preliminary data shows that they use the culverts primarily as temporary shelters. We have recorded several unexpected observations, including a series of photos of an individual entering the Reserve, picking up a desert tortoise, and walking out of the Reserve with the tortoise in hand. We will continue to monitor the culverts to document the species using the structures as well as the type of use (i.e., shelter vs. movement corridor).

