AUGUST 2022



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OVERVIEW







Property Acquisition Management Restoration







PROPERTY ACQUISITION







Condition K of Incidental Take Permit,

Requires DCP acquire private lands in desert riparian habitats along the Muddy and Virgin rivers (and Meadow Valley Wash) to conserve habitat for riparian birds covered by the MSHCP.

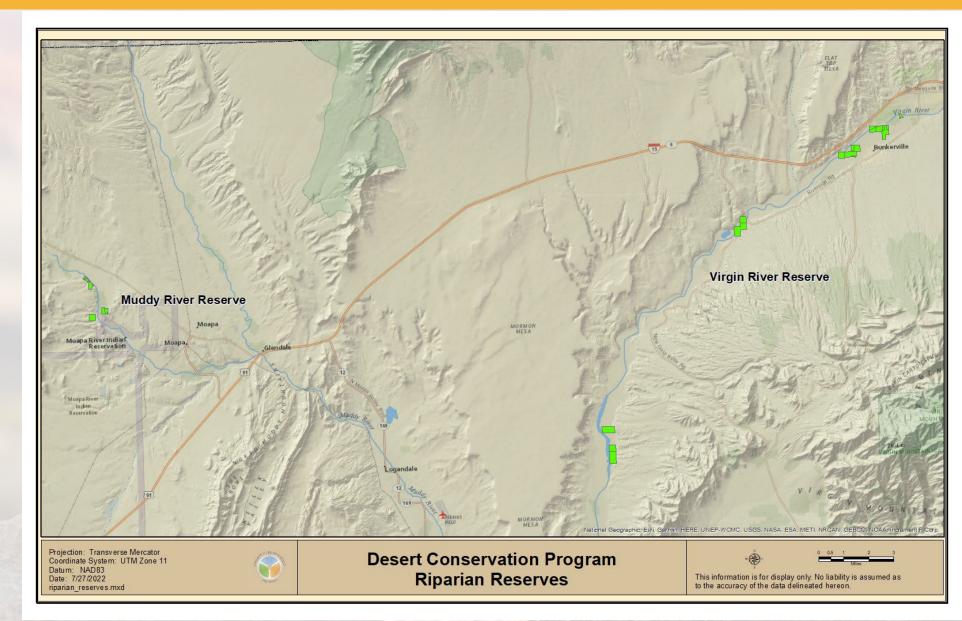
Southwestern Willow Flycatcher Yellow-billed Cuckoo Arizona Bell's Vireo Vermilion Flycatcher Summer Tanager Blue Grosbeak

© Brian E. Small



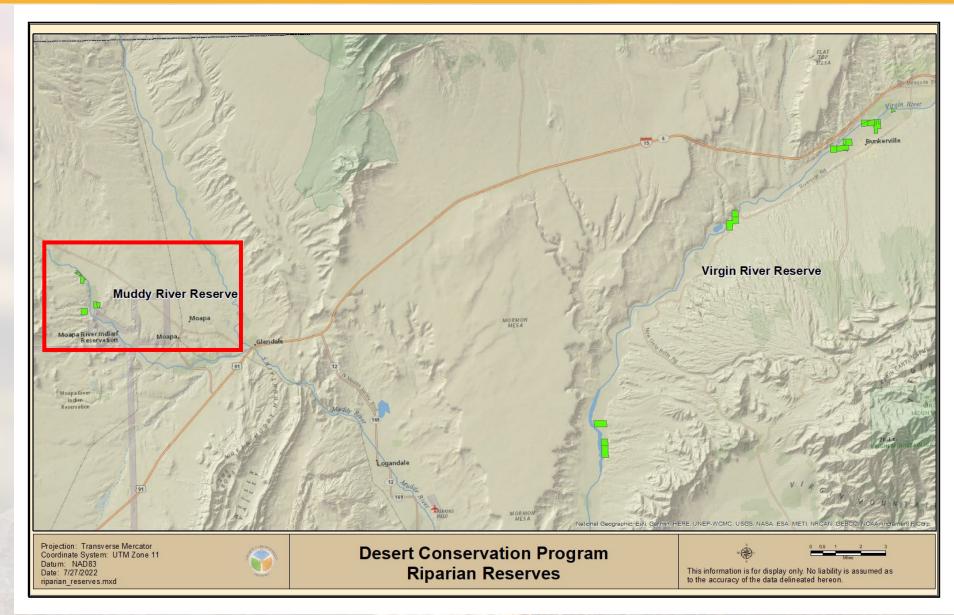


Overview of DCP properties along the Muddy and Virgin Rivers

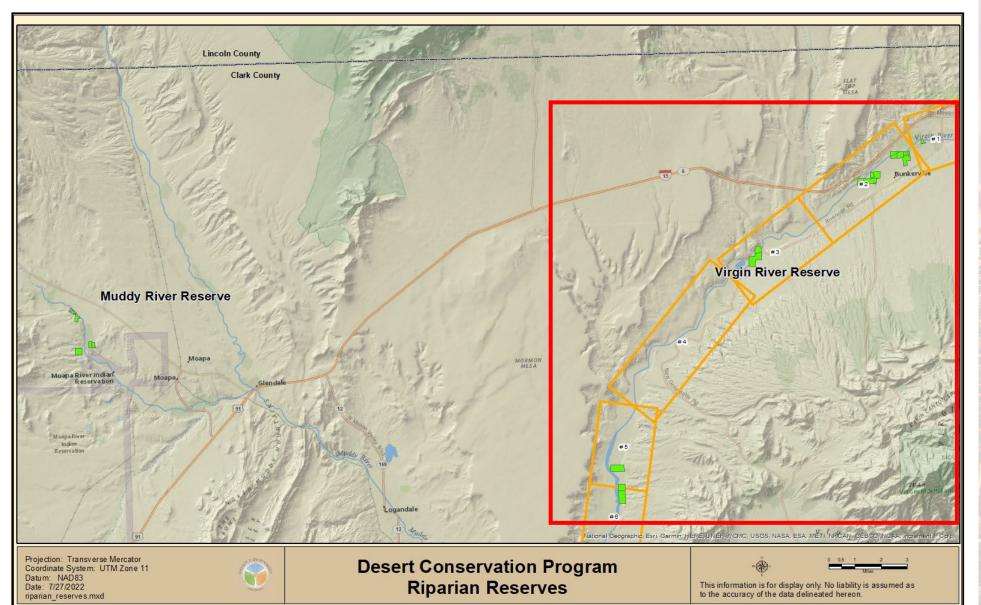




Muddy River Reserve comprised of 9 parcels totaling 116 acres along the Muddy River.





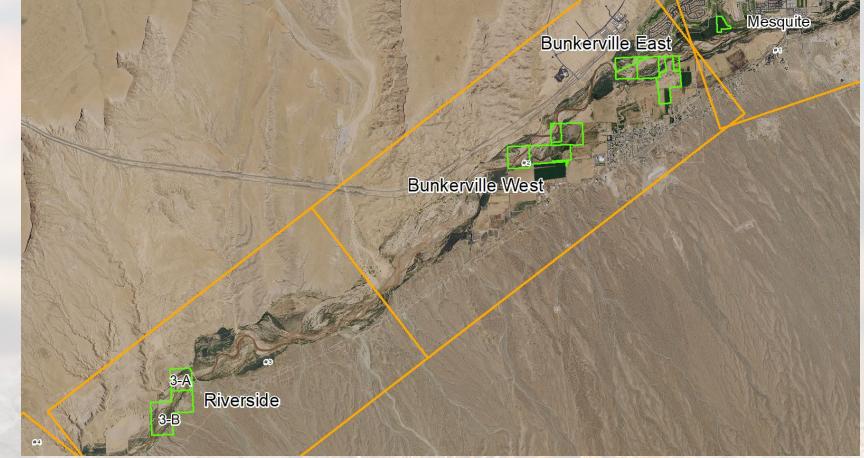


Virgin River Reserve total of 665 acres.

Properties are identified by the river reach they are located in, numbered 1-5, upstream to downstream, based on HUC designation

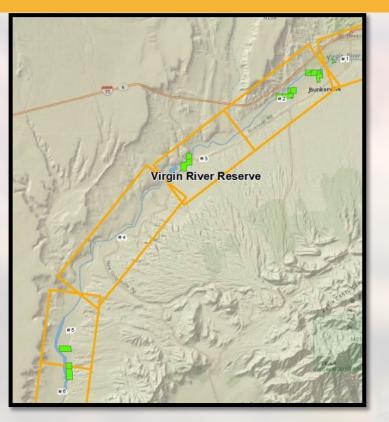






Adjacent parcels are aggregated for management actions: Bunkerville East, Bunkerville West, Riverside We have added 59 acres to BW since 2019







We have added 120 acres to Mormon Mesa since 2019.

OVERVIEW - MANAGEMENT





DCP is responsible for planning and implementing management actions for the long-term maintenance of the reserves for the benefit of species covered by the MSHCP.

•Oversee contactors who implement management activities, such as, weed control, fuel management, and site maintenance.

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OVERVIEW - MANAGEMENT





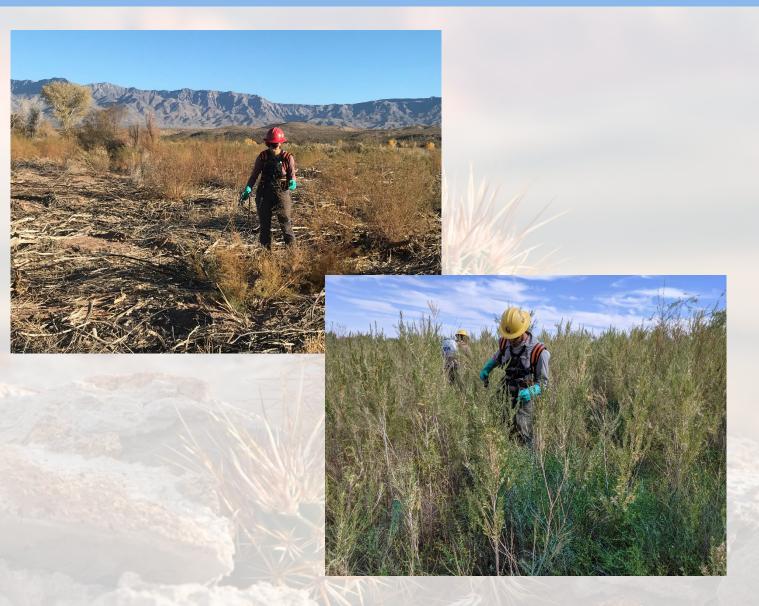
- Coordination/collaboration with neighboring landowners (public and private).
- Coordination/collaboration with federal, state, and/or local agencies.



MANAGEMENT - VEGETATION



- DCP maintains an agreement with the National Park Service Invasive Plant Management Team
- Conduct regular surveys and treatments on DCP properties:
- Priorities are Tamarisk resprout treatments, Camelthorn, and tall whitetop



MANAGEMENT - MISC

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- DCP maintains a contract with a local company for miscellaneous maintenance items, access road clearing, fence/gate repair
- Demolished a shed that was becoming a location for people to dump trash
- First Choice Tree palm tree removal on Muddy River





MANAGEMENT- MISC







- In 2019, some individuals dumped several vehicles on our Riverside property.
- A total of 16 vehicles were removed.

OVERVIEW-RESTORATION







Restoration - design, management, implementation, and monitoring of restoration projects to create and/or enhance riparian habitat for the covered bird species.

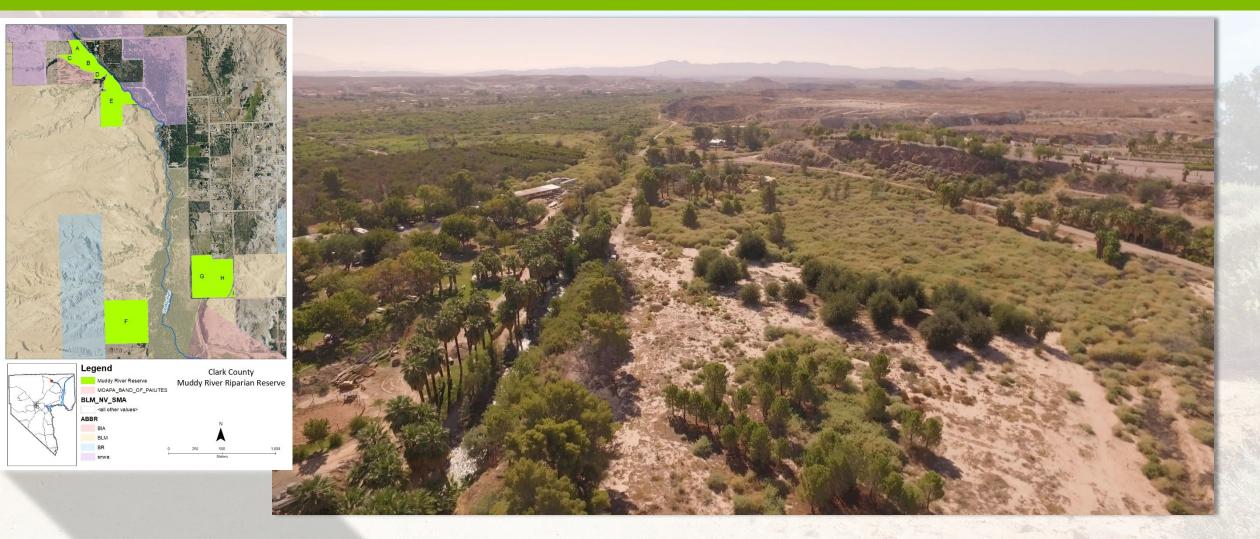
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RESTORATION - MUDDY RIVER





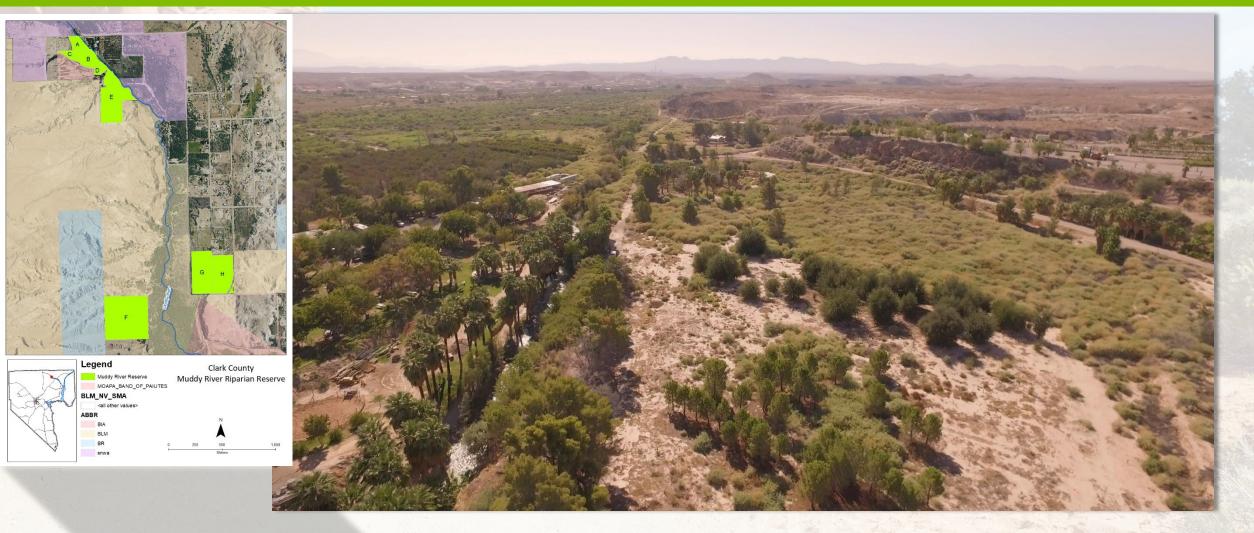


In 2019 – the DCP awarded a contract to Natural Channel Design for the restoration design of 40-acres on Muddy River Reserve.

RESTORATION - MUDDY RIVER



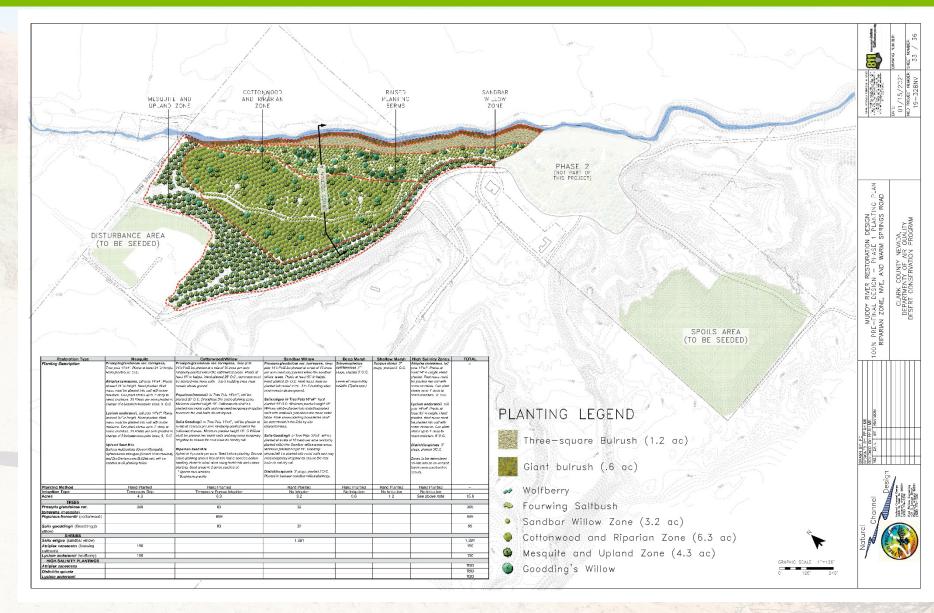




Our goal is to restore the river by reconnecting the channel to the floodplain which will better mimic flood regimes and create habitat for native vegetation and bird species.

RESTORATION - MUDDY RIVER

- Planting Plan from Natural Channel Design engineering set
- Currently the design is in last round of approvals
- Anticipate beginning construction this winter.



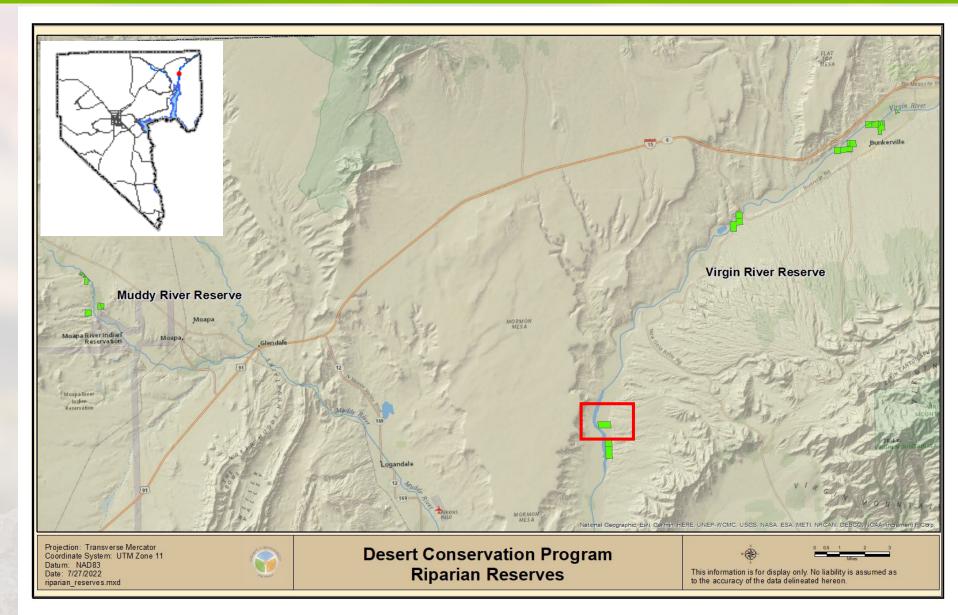
PROGRAM



80-acre parcel east of the Mormon Mesa.

The site has many opportunities for restoration:

shallow water table, surface water throughout the site, and the borders SWFL occupied habitat.

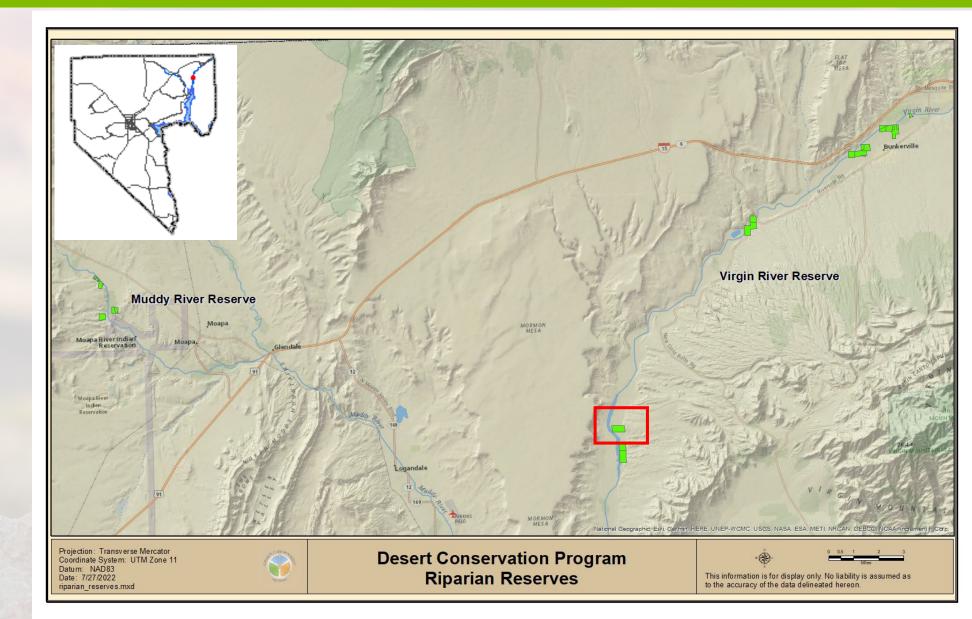




Access is a major constraint:

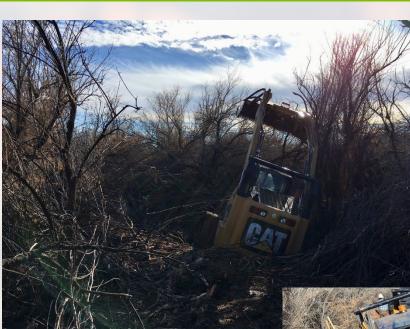
West - cross the mesa, then river, (obviously a challenge with equipment)

East - 12 mile stretch of Gold Butte Scenic Route (a "paved" road), then another 6 miles off-road.









First step - Tamarisk treatment by mastication. Completed in multiple phases.

Nevada Division of Forestry – 1st attempt







Tamarisk treatment completed in multiple phases.

Nevada Division of Forestry – remobbed the following year and masticated 4 acres. But unable to complete remaining 36 acres.



Collaborated with BLM –

Collaborated with BLM – recommended a vendor who was able to complete the 40 acres.





- Plant species were propagated at NPS Song Dog Nursery
- Species included: cottonwood (Populus fremontii), velvet ash (Fraxinus velutina), Goodings' willow (Salix gooddingii), coyote willow (Salix exigua), baccharis (Baccharis salicifolia), spikerush (Eleocharis sp), Cooper rush (Juncus cooperi), and yerba mansa (Anemopsis californica).



- Crews planted approximately 3,173 containers (from Song Dog Nursery) and 1,096 pole cuttings. Concentrated in areas with low depth to groundwater.
- Crews installed
 fencing to exclude
 cattle.









Monitoring site – pre-restoration 2017

Monitoring site – post-restoration







Thank you to the Permittees













