



desert conservation
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Riparian Reserves and Property Acquisition Activities

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August 23, 2016

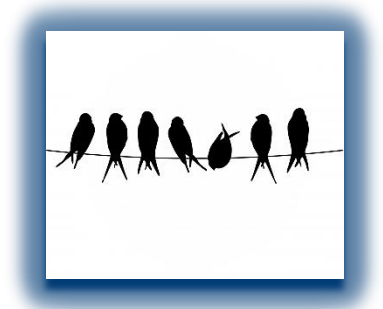




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Outline

- MSHCP – Permit Condition K
- Property Acquisition Activities
- Virgin River Management
- Muddy River Management
- Future Steps for the Riparian Reserves





Permit Condition K

- Multiple Species Habitat Conservation Plan
- Permit Condition K
 - Acquire riparian lands to preserve as habitat for covered riparian birds
 - Muddy, Virgin Rivers and Meadow Valley Wash

6 covered riparian birds

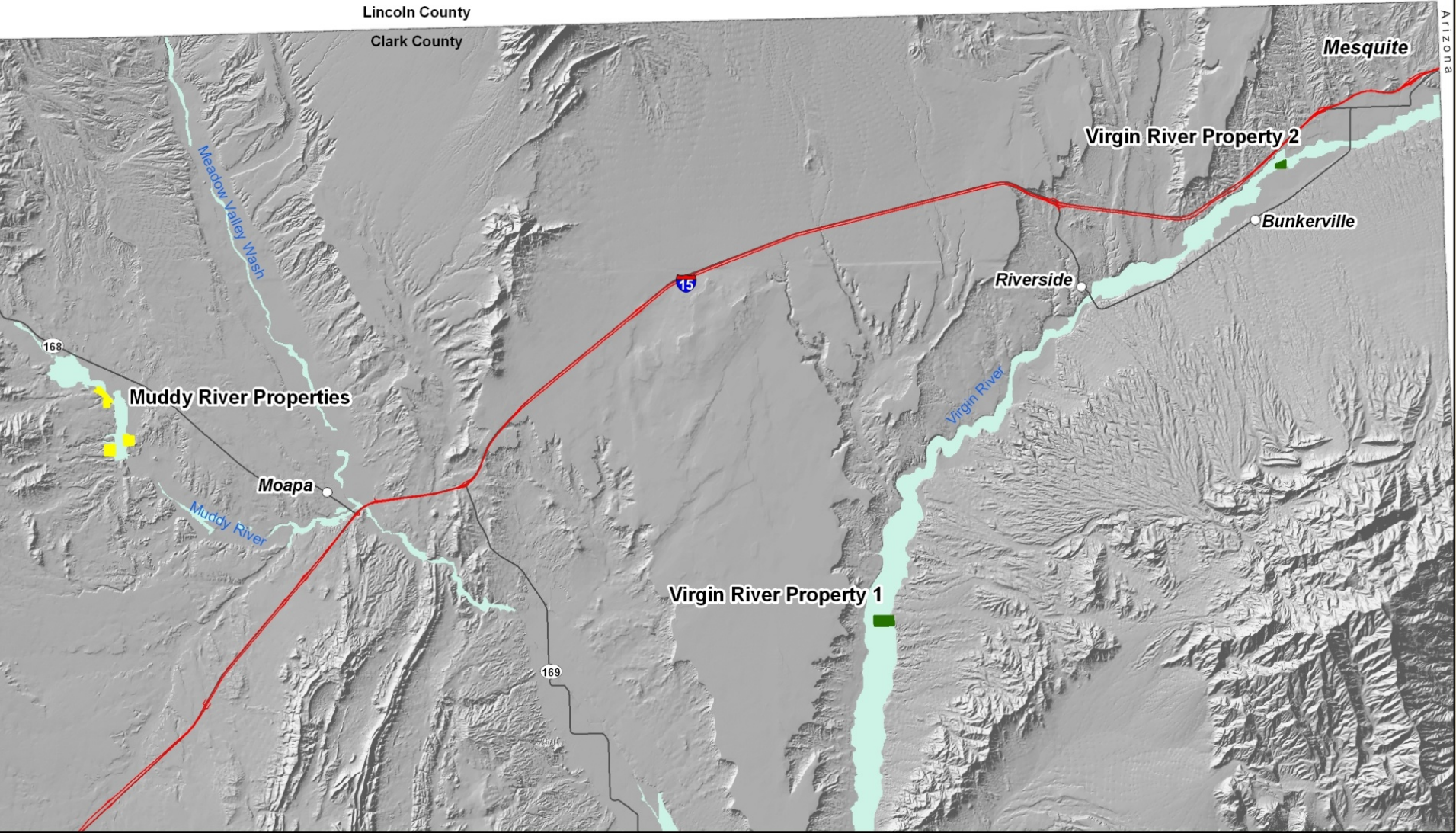
- Summer tanager
- Blue grosbeak
- Arizona Bell's vireo
- **Yellow billed cuckoo (T)**
- **Southwestern willow flycatcher (E)**
- Vermillion flycatcher



Lincoln County

Clark County

ARIZONA



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Desert Conservation Program Riparian Reserve Properties

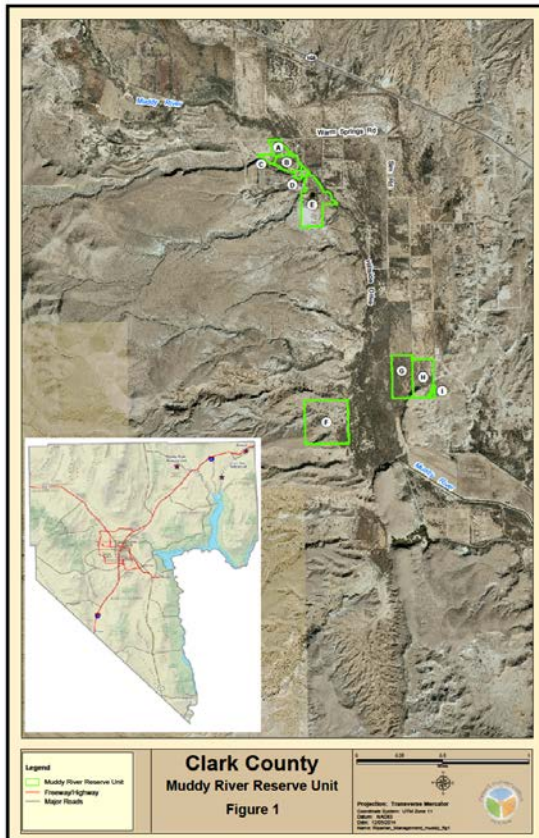
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Coordinate System: UTM Zone 11
Datum: NAD83
Date: 7/27/2011

This information is for display only.
No liability is assumed as to the
accuracy of the data delineated
hereon. (Draft - 7/27/11)
Clark_County_riparian_poster.mxd

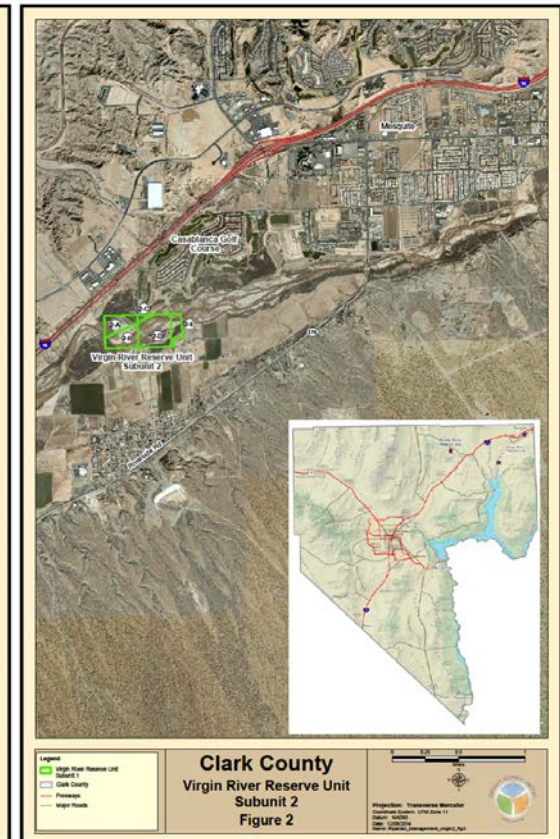
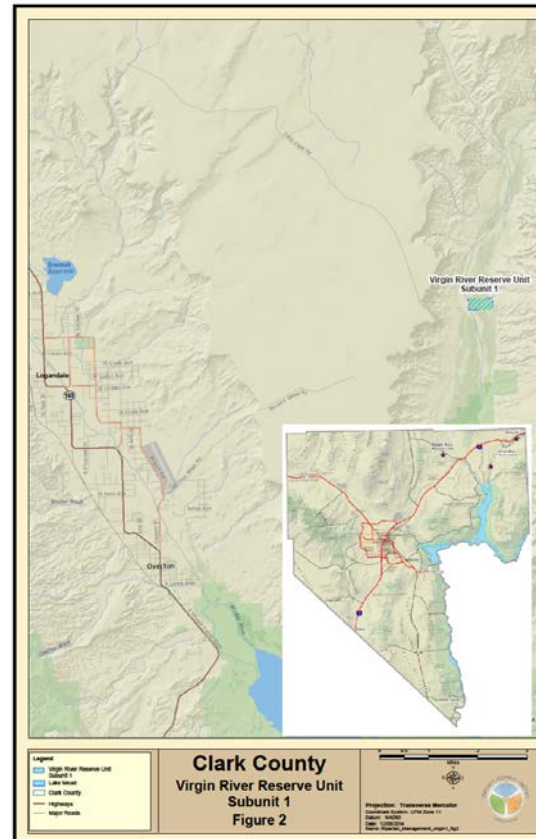




Muddy River



Virgin River





Lands Acquired

Muddy River	118 acres
Virgin River	168 acres
<u>Meadow Valley Wash</u>	-
TOTAL	286 acres



Cadastral Survey

- Completed and released by BLM!

Continue Property Evaluations

- Muddy River
 - Moapa area
 - 2 parcels, 20 acres
- Virgin River
 - Bunkerville area
 - Mesquite area
 - 2 parcels in County Treasurer possession, 65 acres



Virgin River 2

- Worked with CC Public Works and a local property owner to establish access routes and facilitate future restoration efforts

Virgin River 1

- Limited access
- Photo monitoring continued
- Maintained cattle exclusion fencing



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Photo monitoring

Virgin River 1

Site B

7/16/2014 After Planting



Willow
Cottonwood
Arrowweed
Yerba mansa
Juncus
Alkali helitrope
Pluchea odorata



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Photo monitoring

Virgin River 1 4/20/2016

Site GHI



Site B



Site D



Site A





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Muddy River Activities

Suspended Property Maintenance

- Previous contractor retired
- Postponed hiring new contractor
- Road erosion
- Old London rocket explosion





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Muddy River Activities PIC contract

Cleaned up trash



Cleaned up London rocket chaff





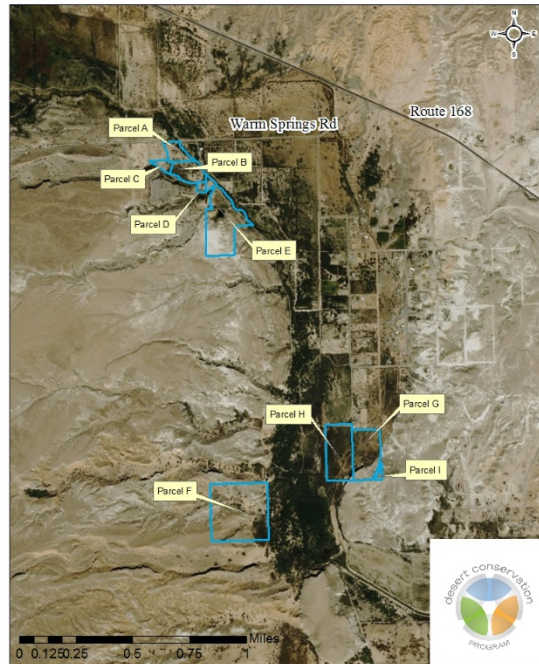
Continued Weed Management (NPS)

- Survey and map location and extent of weeds
- Treat annual and perennial weeds
- Seeing some natives pop up!

Noxious Weeds

- Malta star
thistle
- Puncture vine
- Australian
saltbush
- Russian thistle
- Russian
knapweed
- London rocket

Muddy River Reserve Unit





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Muddy River Activities cont.

- NPS crews also conducted 5 acres of restoration planning and native seeding
- Muddy River parcels A, D, and E





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Future Steps - Riparian Reserves

- Initiate baseline bird surveys on Riparian Reserves
- Continue riparian property acquisition
- Website updates
- Water rights planning



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Future Steps - Virgin River Reserve

- Initiate weed management/ botanical inventory on Virgin River
- Continue restoration of Virgin River 1- Round 15 SNPLMA
 - Additional plantings
 - Monitoring
 - Fence improvements
- Baseline restoration/acquisition assessment



Future Steps- Muddy River

- Muddy River grading plan
 - Grading plan contract in development
 - Excavate down to ideal planting substrate for riparian trees
 - Lower depth to ground water
- Creation of a terraced landscape
 - 2 or 3 terraces
 - Riparian forest and upland terraces
 - Possible streamside marsh terrace
- Remote property restoration
 - Tamarisk removal
 - Upland vegetation planting





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Questions?