

DRAFT ENVIRONMENTAL ASSESSMENT

BICKNELL BOTTOMS LAND EXCHANGE

**Involving Lands Owned by the
Utah Division of Wildlife Resources**

Bicknell, Wayne County, Utah

**Wildlife and Sport Fish Restoration, U.S. Fish and Wildlife Service Amendment Proposal
W-100-L-2**

March 20, 2020

Prepared by:

Utah Division of Wildlife Resources
Salt Lake City, Utah

&

United States Fish and Wildlife Service
Wildlife and Sport Fish Restoration Program
Regions 5 and 7
Denver, Colorado

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BACKGROUND

In 1961, the Utah Division of Wildlife Resources (UDWR) purchased several parcels of privately owned land in Wayne County for the purpose of creating a wildlife management area, specifically focusing on high-quality natural wetland and marsh habitat for waterfowl known as the “Bicknell Bottoms Waterfowl Management Area (WMA)”. This purchase utilized Pittman-Robertson funding from the Wildlife and Sport Fish Restoration (WSFR) Program, administered by the U. S. Fish and Wildlife Service (USFWS) (Grant #W-100-L), requiring UDWR to satisfy a number of conditions in order to secure USFWS approval for funding.

Additional parcels in the WMA were purchased in 1962, 1963, 1970, 1971, 1982, 1985, and 1998. Currently, the Bicknell Bottoms WMA totals approximately 665 acres and is managed as wetland waterfowl habitat, which provides hunting and fishing opportunities for the public. In 2008, the Bicknell Bottoms WMA was designated by the National Audubon Society in conjunction with the Parker Mountain Adaptive Resource Management Area (PARM) as an Important Bird Area (IBA), and one of ten Global IBAs in the state.

Currently, a private landowner owns a 16-acre parcel adjacent to the Bicknell Bottoms WMA, where they operate a sheep and cattle ranch. The landowner is interested in expanding their grazing operation onto a portion of the Bicknell Bottoms WMA that consists of dry upland habitat that is not valuable to waterfowl. Correspondingly, UDWR has identified a similarly sized privately owned parcel as valuable high-quality wetland/marsh habitat that would improve overall habitat quality on the Bicknell Bottoms WMA for both waterfowl and public recreational opportunities. For these reasons, the private landowner and UDWR are interested in an acre-for-acre land exchange, with any difference in value between the two exchanged parcels being settled with a cash equalization payment at closing.

The Utah Division of Wildlife Resources (UDWR) is seeking approval from the U.S. Fish and Wildlife Service (USFWS), Division of Wildlife and Sport Fish Restoration (WSFR), to dispose of 16 acres of dry, upland habitat within the Bicknell Bottoms WMA, and acquire 16 acres of high quality wetland habitat adjacent to the WMA.

USFWS approval of the grant amendment allowing for the land exchange would constitute a federal action subject to the requirements of the National Environmental Policy Act (NEPA). Consequently, this Environmental Assessment (EA) has been written to document analysis of the proposed action and the environmental effects which are likely to result. The EA and comments from the associated public review will provide the USFWS information needed to determine if the proposed action is likely to cause any significant impacts to the environment. If significant adverse effects are found to be unlikely, USFWS would issue a Finding of No Significant Impact (FONSI), allowing UDWR to proceed with the land exchange. If significant impacts appear likely to result from the proposed action, USFWS would prepare and Environmental Impact Statement (EIS) to more fully analyze the impacts before allowing UDWR to proceed with the land exchange.

PURPOSE AND NEED FOR ACTION

There is a need to increase the acreage and quality of wetland wildlife habitat for waterfowl in the Bicknell Bottoms WMA. The purpose of the proposed action is to acquire high quality wetland habitat adjacent to the WMA and dispose of dry, upland habitat within the WMA that is less valuable to waterfowl. This exchange will increase hunting opportunities for the public by integrating this high quality waterfowl habitat into the WMA, and protecting that valuable habitat into the future. This exchange also satisfies the additional purpose of acquiring high quality wetland habitat without requiring significant additional revenue to do so.

ALTERNATIVES

Proposed Action

The Proposed Action would involve the disposal of 16 acres of dry, upland habitat within the Bicknell Bottoms WMA and the concurrent acquisition of 16 acres of pristine wetland habitat within adjacent, privately owned land for addition to the WMA.

UDWR has completed an appraisal and appraisal review which comply with the provisions of both the *Uniform Appraisal Standards for Federal Land Acquisitions* and *Uniform Standards of Professional Appraisal Practice* for each of the parcels involved in the land exchange. The privately owned parcel appraised for \$49,000 and the UDWR parcel appraised for \$48,000. This \$1,000 difference in appraised values between the two parcels, in favor of the private landowner, will be settled at closing by a cash equalization payment.

No Action

Under the No Action alternative, UDWR would retain ownership of the less valuable habitat in the 16 acre parcel within the Bicknell Bottoms WMA, and would not acquire the 16 acre parcel of pristine wetland/marsh habitat adjacent to the WMA. As the private landowner is not interested in selling their land without an exchange, UDWR would forfeit the opportunity to incorporate this high-quality, natural wetland/marsh habitat into the Bicknell Bottoms WMA under the No Action alternative.

AFFECTED ENVIRONMENT

UDWR Parcel

Soils and Prime and Unique Farmland

The Bicknell Bottoms WMA, including the 16-acre parcel involved in this land exchange, consists of a Canburn-Tuj-Filola complex (see Appendix F). The WMA does not contain any prime and unique farmland.

Wildlife Resources

The Bicknell Bottoms WMA's main purpose is to provide habitat for waterfowl. This WMA also provides habitat to pheasant, quail, and cottontail rabbits, but populations of these species have declined due to habitat destruction. There is also some limited use by deer and elk, mostly in the summer months. The 16-acre parcel to be disposed of consists of dry, upland habitat that is less appealing to waterfowl and struggles to support huntable populations of pheasant, quail, and cottontail rabbits due to habitat destruction resulting from overgrazing in the past.

Fish and Other Aquatic Species

This particular parcel of the Bicknell Bottoms WMA consists of dry, upland habitat and offers minimal aquatic habitat value. Brown Trout are stocked annually in both the Fremont River and the Pine Creek River, which flow through the Bicknell Bottoms WMA adjacent to the 16 acre parcel up for disposal. However, these rivers do not directly flow through this parcel.

Endangered, Threatened or Candidate Species / State Sensitive Species

There has been an active colony of the federally threatened Utah Prairie Dog observed within one half mile of the WMA, but not on the WMA. Additionally, there are several state species of concern that have been observed on the Bicknell Bottoms WMA. They include Bald Eagle, American White Pelican, and Long-billed Curlew. A query of the Utah National Heritage Program Database did not yield any other results for species of concern, including plant species (see Appendix D).

Vegetation

The 16-acre parcel to be disposed of in this exchange supports some small pockets of wetland vegetation, including hardstem bulrush, cattail and Baltic rush, but the parcel is predominantly covered in saltgrass.

Water and Wetland Resources

The Utah Division of Wildlife Resources owns nine separate water rights on the Bicknell Bottoms WMA that come from Pine Creek, Pine Creek Spring, Bullard Spring, and one underground well. However, the 16-acre parcel for disposal consists of dry, upland habitat that does not offer much in the way of water or wetland resources. The water rights associated with the Bicknell Bottoms WMA will not be impacted as they are not included as a part of this land exchange.

Cultural Resources

There are no known cultural resources on the Bicknell Bottoms WMA (Appendix B).

Recreation and Public Use

Sportsman access is a valuable component to the Bicknell Bottoms WMA. However, the 16-acre parcel for disposal consists of dry, upland habitat that does not provide as much recreational

opportunity for the public. Additionally, due to habitat destruction from overgrazing, this parcel does not support huntable populations of pheasant, quail, or cottontail rabbit.

Taft Parcel

Soils and Prime and Unique Farmland

The Taft parcel consists of a Canburn-Tuj-Filola complex (see Appendix F) and does not contain any prime and unique farmland.

Water and Wetland Resources

There are no water rights associated with the Taft parcel. The majority of the Taft parcel has surface water present for most of the year.

Vegetation

The Taft parcel supports a variety of wetland vegetation, including hardstem bulrush, cattail, Baltic rush, and saltgrass.

Fish and Other Aquatic Species

The Taft parcel has limited fisheries values. Periodically, there is water flowing through this parcel that may allow fish passage.

Wildlife Resources

The Taft parcel consists of high quality wetland habitat that provides excellent nesting cover for upland birds and waterfowl using the Bicknell Bottoms WMA.

Endangered, Threatened or Candidate Species / State Sensitive Species

A query of the Utah Natural Heritage Program Database identified that Utah Prairie Dog, Bald Eagle, and American White Pelican have occurred within a ½ mile radius of the Taft parcel (see Appendix E). The query did not yield any plant species of concern for the Taft parcel.

Cultural Resources

Cultural Resources were not investigated for this parcel since no new disturbance will result from the land exchange.

Recreation and Public Use

The Taft parcel has been privately owned for many years, therefore recreation and public use has been limited to individuals and groups that have obtained permission to recreate on the property from the landowner.

ENVIRONMENTAL CONSEQUENCES

UDWR Parcel

Proposed Action

Soils and Prime and Unique Farmland

The disposal of this 16-acre parcel within the Bicknell Bottoms WMA is not likely to have any effect on the soils, and both parcels involved in this land exchange contain the same soil types. This parcel does not contain any prime and unique farmland to be effected.

Wildlife Resources

Wildlife use of the 16-acre parcel is not likely to change substantially if the parcel is sold, as the habitat quality of the parcel is relatively poor for waterfowl and upland game as it does not contain a food crop nor sufficient cover for hiding and/or nesting due to its drier habitat than the rest of the WMA. The new land use for the parcel would be agricultural, which may reduce wildlife use. However, considering the existing low wildlife values on the parcel at the present time, this reduction in wildlife use is not expected to have significant detrimental effects on wildlife populations.

However, the acquisition of the privately-owned parcel that would result from this land exchange offers much higher quality waterfowl habitat consisting of wetlands with marsh vegetation. This habitat type will benefit upland game as well, as it provides ideal hiding and nesting cover for these species.

Fish and Other Aquatic Species

The parcel to be disposed of does not offer valuable aquatic habitats and no significant effects related to aquatic life are predicted from this disposal.

However, the privately-owned parcel that would be acquired in the land exchange includes the riparian/aquatic habitat of the Freemont River, providing increased protected habitat for a diversity of aquatic species, and water quality in general.

Endangered, Threatened or Candidate Species / State Sensitive Species

Disposing of the 16 acres within the Bicknell Bottoms WMA is not likely to have any effect on the sensitive species found on the WMA as they currently do not occur on or use the dry upland habitat in this parcel.

In fact, acquiring the highly functional wetland habitat of the privately-owned parcel with this land exchange could protect better habitat for the Bald Eagle, American White Pelican, and Long-billed Curlew.

Vegetation

Vegetation on 16-acre parcel would remain largely unmodified through the disposal of this property in this land exchange. The parcel would be used for grazing, which would not change the vegetation composition of the dry, upland habitat in this parcel.

Acquisition of the privately-owned parcel will allow for the wetland/marsh vegetation along the Freemont River to be protected and restored from past grazing damage.

Water and Wetland Resources

No water or wetland resources are found on the 16-acre UDWR parcel to be disposed of in this land exchange. Therefore, disposing of the parcel will have no impacts on water and wetland resources.

With the land exchange, acquisition of the privately-owned parcel that includes riparian habitat along the Freemont River would help to protect the water and wetland resources along the river by providing for careful oversight and management of any grazing activity which may be permitted to occur.

Cultural Resources

There are no known cultural resources on the property. Therefore, disposing of the parcel will have no impact.

Recreation and Public Use

The parcel for disposal consists of dry, upland habitat that is unable to support huntable populations of upland game. Therefore, disposal of the parcel will have no impact on recreational opportunities available to the public.

Acquiring the wetland/riparian habitat of the privately-owned parcel through this land exchange will enhance recreational opportunities for the public by supporting waterfowl populations, nesting upland birds, promoting increased overwinter survival of ring-necked pheasants, and providing incidental improvements to fishing opportunities for anglers.

No Action

The No Action alternative would fail to protect the high quality wetland habitat within the Taft parcel from potential future damage as a result of overgrazing or other unregulated activities that can result in habitat destruction. As a result, the No Action alternative would fail to meet the purpose and need of this land exchange.

Taft Parcel

Proposed Action

Soils and Prime and Unique Farmland

The acquisition of this 16-acre privately-owned parcel is not likely to have any effect on the soils, and both parcels involved in this land exchange contain the same soil types. This parcel does not contain any prime and unique farmland to be effected.

Wildlife Resources

Acquisition of the Taft parcel will result in the integration of much higher quality wetland/marsh habitat for waterfowl into the Bicknell Bottoms WMA. This habitat type will benefit upland game as well, as it provides ideal hiding and nesting cover for these species.

Fish and Other Aquatic Species

Acquisition of the Taft parcel through this land exchange will provide increased protection for the riparian/aquatic habitat along the Fremont River, promoting diversity of aquatic species and increased water quality in general.

Endangered, Threatened or Candidate Species / State Sensitive Species

Acquiring the highly functional wetland habitat of this privately-owned parcel with this land exchange could protect better habitat for the Bald Eagle, American White Pelican, and Long-billed Curlew.

Vegetation

Acquisition of the Taft parcel will allow for the critical wetland/marsh habitat along the Fremont River to be protected from grazing pressures and impacts.

Water and Wetland Resources

With this land exchange, acquisition of this privately-owned parcel that includes riparian habitat along the Fremont River will help to protect the water and wetland resources along the river by providing for careful oversight and management of any grazing activity which may be permitted to occur.

Cultural Resources

Cultural Resources were not investigated for this parcel since no new disturbance will result from the land exchange.

Recreation and Public Use

Acquiring the wetland/riparian habitat of this privately-owned parcel in this land exchange will enhance recreational opportunities for the public by supporting waterfowl populations and nesting upland birds, promoting increased overwinter survival of ring-necked pheasants, and providing incidental improvements to fishing opportunities for anglers.

No Action

The No Action alternative would fail to protect the high quality wetland habitat within the Taft parcel from potential future damage as a result of overgrazing or other unregulated activities that can result in habitat destruction. As a result, the No Action alternative would fail to meet the purpose and need of this land exchange.

Cumulative Impacts

A cumulative impact is defined in 40 C.F.R. §1508.7 as “the impact on the environment which results from the incremental impact of the action when added to other past, present, and reasonably foreseeable future actions regardless of what agency (federal or non-federal) or person undertakes such other actions. Cumulative impacts can result from individually minor but collectively significant actions taking place over a period of time.”

Disposing of the 16-acre Bicknell Bottoms parcel is unlikely to have cumulative impacts to the environment. This parcel consists of dry, upland habitat that does not provide value to waterfowl and is too damaged from overgrazing to support huntable populations of upland game. Grazing by the new landowner is not anticipated to change the habitat value of the parcel. This combined with the small size of the property limits the potential changes in use so that there are not foreseeable future actions that would significantly alter the character or function of the Bicknell Bottoms WMA. It is also unlikely that the conversion of the Taft parcel from grazing will have cumulative impacts as the parcel is predominantly wetland and will continue to be so.

PUBLIC PARTICIPATION

UDWR does not plan to hold any public meeting for this proposed action, but will ensure that availability of the draft EA is advertised via legal notice in the *Salt Lake Tribune* and *The Insider*, two newspapers of general circulation in the affected area.

The proposed land exchange was presented to the Wayne County Commission at their meeting on January 21, 2020. The County Commission supported the project, and provided a letter showing that support (Appendix C).

Letters will be sent to the Utah State Senator and Utah State Representative for the project area, describing the proposed land exchange.

Any interested public correspondents will be able to supply comments to the USFWS, who will accept all input related to this proposed action for thirty (30) days from the date the assessment is published on the USFWS website.

The draft EA will be available at: <https://www.fws.gov/mountain-prairie/wsfr/nepa.php>. Written comments can be mailed to the address below:

U.S. Fish and Wildlife Service, Wildlife and Sport Fish Restoration Program
ATTN: Draft EA – Bicknell Bottoms Land Exchange
P.O. Box 25486, Denver Federal Center
Denver, CO 80225

EA PREPARATION

Hailey Blair
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(801) 538-4711

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Jacquie Trout, U.S. Fish and Wildlife Service (USFWS)

Appendix A

Map of Bicknell Bottoms Waterfowl Management Area Proposed Land Exchange



Appendix B

Cultural Resource Summary Report



GARY R. HERBERT
Governor

SPENCER J. COX
Lieutenant Governor

State of Utah

DEPARTMENT OF NATURAL RESOURCES

BRIAN STEED
Executive Director

Division of Wildlife Resources

MIKE FOWLKS
Division Director

February 20, 2020

Christopher Merritt
Deputy State Historic Preservation Officer
State History
300 Rio Grande
Salt Lake City, UT 84101-1182

RE: Utah Division of Wildlife Resources' Bicknell Bottoms Land Exchange, Wayne County

Dear Dr. Merritt:

The Utah Division of Wildlife Resources (UDWR) is planning to exchange a 16 acre parcel of State of Utah-owned land on the northern edge of the Bicknell Bottoms Wildlife Management Area for a similar, privately-owned parcel just west. The planned exchange provides UDWR with a parcel of land more appropriate for wildlife habitat and provides the private landowner with a parcel more appropriate for domestic animal grazing. As the project impacts lands leaving state custody, the UDWR has determined this project is an undertaking as defined by Utah State Code 9-8-401(1)d which requires consultation with your office.

Enclosed for your review and comment is a report titled *Cultural Resource Inventory of the Utah Division of Wildlife Resources' Bicknell Bottoms Land Exchange, Wayne County, Utah*. This report documents the UDWR conducted pedestrian inventory of the project area that resulted in the finding of a single isolated find. No archaeological sites, historic buildings or historic properties were located. The lone isolated find is the stripped, rusted and mangled remains of a vehicle (unknown make) that was likely originally built in the 1950's. The date of deposit at this location is unknown. This singular, large artifact does not qualify as an archaeological site per the BLM and SHPO guidance. UDWR feels this vehicle does not qualify as eligible to the National Register under any of the current National Register Criteria.

Given the lack of findings, the UDWR has made a determination of *no historic properties affected* for the Bicknell Bottoms Land Exchange. We ask for your concurrence with our project determination.

Sincerely,

Mr. Eric Edgley
Habitat Section Chief



1594 West North Temple, Suite 2110, PO Box 146301, Salt Lake City, UT 84114-6301
telephone (801) 538-4700 • facsimile (801) 538-4709 • TTY (801) 538-7458 • www.wildlife.utah.gov

Appendix C

Letter of Support from Wayne County Commission

Wayne County

18 South Main

Loa, Utah 84747

Phone 435-836-2765

Fax 435-836-2479

COMMISSIONERS
Stanley W. Wood, Chair
Newell E. Harward
Dennis G. Blackburn

Recorder/Treasurer
Assessor
Attorney
Clerk/Auditor
Sheriff

Colleen Allen
Sharon E. Torgerson
Michael D. Olsen
Ryan Torgerson
Daniel N. Jensen

January 21, 2020

Governor Gary R. Herbert
Utah State Capitol Complex
350 North State Street, Suite 200
P.O. Box 142220
Salt Lake City, Utah 84114-2220

Dear Governor Herbert,

On January 21, 2020, the Wayne County Commissioners, Stanley Wood, Newell Harward, and Dennis Blackburn, heard a presentation from Jim Lamb from the Utah Division of Wildlife Resources (UDWR) Southern Regional Office during our County Commission meeting. The project proposed is a land exchange involving 16 acres of UDWR property known as the K.E. "Bob" Bullock Waterfowl Management Area (WMA) and 16 acres of privately owned property adjacent to the WMA, all located in Wayne County. UDWR presented information and maps of the properties and explained the benefits of the property exchange for wildlife conservation and wildlife recreation. The private landowner was also present and offered his support for the project, and explained how this land exchange would benefit him and his agricultural efforts.

The Wayne County Commissioners voted in favor of the Division of Wildlife Resources proceeding with the land exchange.

Respectfully,


Stanley W. Wood, Chair
Wayne County Commission

Appendix D

Utah Natural Heritage Program Data Report for UDWR Parcel

3/3/2020

Utah Natural Heritage Search Report



Utah Division of Wildlife Resources
Utah Natural Heritage Program
1594 W. North Temple
PO Box 146301
Salt Lake City, UT 84116

Report Number: 11203

March 3, 2020

Utah Natural Heritage Program Online Species Search Report

Project Information

Project Name

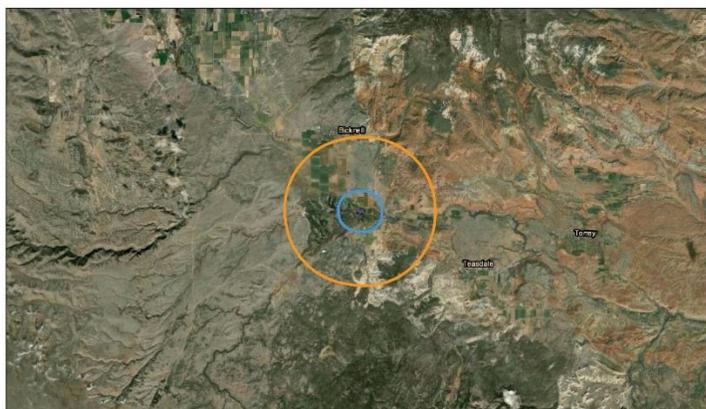
Bicknell Bottoms Land Exchange

Project Description

16 acre for acre land exchange

Location Description

Bicknell UT



March 3, 2020



Animals within a 1/2 mile radius

Common Name	Scientific Name	State Protection Status	U.S. ESA Status	Last Observation Year
Utah Prairie Dog	<i>Cynomys parvidens</i>	S-ESA	LT	2004
American White Pelican	<i>Pelecanus erythrorhynchos</i>	SPC		1982

Plants within a 1/2 mile radius

Common Name	Scientific Name	State Protection Status	U.S. ESA Status	Last Observation Year
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No Species Found

Appendix D cont.

Utah Natural Heritage Program Data Report

3/3/2020

Utah Natural Heritage Search Report

Animals within a 2 mile radius

Common Name	Scientific Name	State Protection Status	U.S. ESA Status	Last Observation Year
Utah Prairie Dog	Cynomys parvidens	S-ESA	LT	2013
Bald Eagle	Haliaeetus leucocephalus	SPC		1994
American White Pelican	Pelecanus erythrorhynchos	SPC		1982

Plants within a 2 mile radius

Common Name	Scientific Name	State Protection Status	U.S. ESA Status	Last Observation Year
No Species Found				

Definitions

State Protection Status

S-ESA	Federally-listed or candidate species under the Endangered Species Act
SPC	Wildlife species of concern
CS	Species receiving special management under a Conservation Agreement in order to preclude the need for Federal listing

U.S. Endangered Species Act

LE	A taxon that is listed by the U.S. Fish and Wildlife Service as "endangered" with the probability of worldwide extinction
LT	A taxon that is listed by the U.S. Fish and Wildlife Service as "threatened" with becoming endangered
LE:XXN	An "endangered" taxon that is considered by the U.S. Fish and Wildlife Service to be "experimental and nonessential" in its designated use areas in Utah
C	A taxon for which the U.S. Fish and Wildlife Service has on file sufficient information on biological vulnerability and threats to justify it being a "candidate" for listing as endangered or threatened
PT/PE	A taxon "proposed" to be listed as "endangered" or "threatened" by the U.S. Fish and Wildlife Service

Disclaimer

The information provided in this report is based on data existing in the Utah Division of Wildlife Resources' central database at the time of the request. It should not be regarded as a final statement on the occurrence of any species on or near the designated site, nor should it be considered a substitute for on-the-ground biological surveys. Moreover, because the Utah Division of Wildlife Resources' central database is continually updated, any given response is only appropriate for its respective request.

The UDWR provides no warranty, nor accepts any liability, occurring from any incorrect, incomplete, or misleading data, or from any incorrect, incomplete, or misleading use of these data.

The results are a query of species tracked by the Utah Natural Heritage Program, which includes all species listed under the U.S. Endangered Species Act and species on the Utah Sensitive Species List. Other significant wildlife values might also be present on the designated site. Please [contact](#) UDWR's regional habitat manager if you have any questions.

Contact the U.S. Fish and Wildlife Service at (801) 975-3330 for the purpose of consultation under the Endangered Species Act.

Please contact our office at (801) 538-4759 or habitat@utah.gov if you require further assistance.

Your project is located in the following UDWR region(s): Southern region

Report generated for:

Hailey Blair
Division of Wildlife Resources
1594 W North Temple, Ste 2110
Salt Lake City, UT 84116
(801) 538-4711
hblair@utah.gov



Appendix E

Utah Natural Heritage Program Data Report for Taft Parcel



Utah Division of Wildlife Resources
 Utah Natural Heritage Program
 1594 W. North Temple
 PO Box 146301
 Salt Lake City, UT 84116

Report Number: 11227
 March 18, 2020

Utah Natural Heritage Program Online Species Search Report

Project Information

Project Name

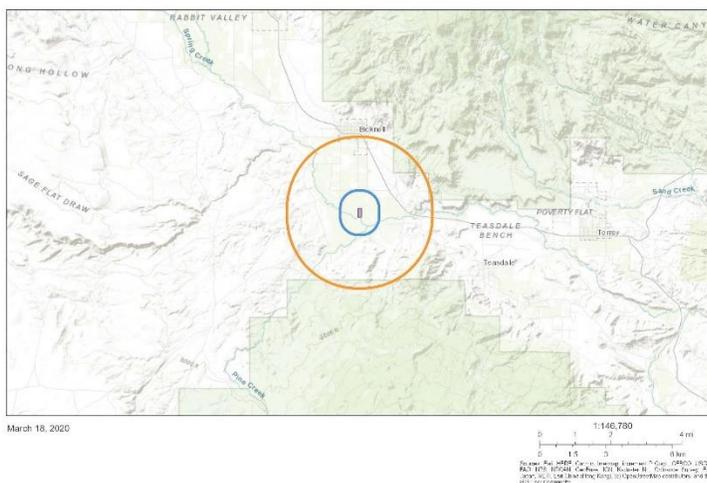
Bicknell Taft Parcel

Project Description

taft parcel involved in the bicknell bottoms land exchange

Location Description

Bicknell UT



Animals within a 1/2 mile radius

Common Name	Scientific Name	State Protection Status	U.S. ESA Status	Last Observation Year
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Plants within a 1/2 mile radius

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Appendix D cont.

Utah Natural Heritage Program Data Report for Taft Parcel

Animals within a 2 mile radius

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Report generated for:

Hailey Blair
 Division of Wildlife Resources
 1594 W North Temple, Ste 2110
 Salt Lake City, UT 84116
 (801) 538-4711
hblair@utah.gov



Appendix F

Soil Composition Report

Map Unit Description: Canburn-Tuj-Filoa complex, 0 to 2 percent slopes—Loa-Marysville Area,
Utah, Parts of Piute, Wayne, and Garfield Counties

Loa-Marysville Area, Utah, Parts of Piute, Wayne, and Garfield Counties

VYA—Canburn-Tuj-Filoa complex, 0 to 2 percent slopes

Map Unit Setting

National map unit symbol: 2qjf5
Elevation: 6,790 to 7,610 feet
Mean annual precipitation: 8 to 12 inches
Mean annual air temperature: 39 to 45 degrees F
Frost-free period: 70 to 100 days
Farmland classification: Not prime farmland

Map Unit Composition

Canburn and similar soils: 45 percent
Tuj and similar soils: 30 percent
Filoa and similar soils: 15 percent
Minor components: 10 percent
*Estimates are based on observations, descriptions, and transects of
the mapunit.*

Description of Canburn

Setting

Landform: Flood plains
Down-slope shape: Linear
Across-slope shape: Linear
Parent material: Alluvium derived from andesite, dacite, basalt, and
tuff with minor areas derived from sedimentary rock

Typical profile

Oi - 0 to 5 inches: slightly decomposed plant material
A - 5 to 9 inches: loam
AC1 - 9 to 22 inches: loam
AC2 - 22 to 55 inches: clay loam
C3 - 55 to 71 inches: clay
C4 - 71 to 79 inches: clay

Properties and qualities

Slope: 0 to 2 percent
Depth to restrictive feature: More than 80 inches
Natural drainage class: Very poorly drained
Runoff class: Very high
Capacity of the most limiting layer to transmit water (Ksat): Very
low to moderately low (0.00 to 0.07 in/hr)
Depth to water table: About 2 to 10 inches
Frequency of flooding: Occasional
Frequency of ponding: None
Calcium carbonate, maximum in profile: 10 percent
Gypsum, maximum in profile: 1 percent

Appendix F cont.

Soil Composition Report

Map Unit Description: Canburn-Tuj-Filoa complex, 0 to 2 percent slopes—Loa-Marysville Area,
Utah, Parts of Piute, Wayne, and Garfield Counties

Salinity, maximum in profile: Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)

Sodium adsorption ratio, maximum in profile: 5.0

Available water storage in profile: Very high (about 13.2 inches)

Interpretive groups

Land capability classification (irrigated): 8w

Land capability classification (nonirrigated): 8w

Hydrologic Soil Group: C/D

Ecological site: Wet Fresh Meadow (R047XB008UT)

Hydric soil rating: Yes

Description of Tuj

Setting

Landform: Flood plains

Down-slope shape: Linear

Across-slope shape: Linear

Parent material: Organic material over alluvium derived from andesite, dacite, basalt, and tuff with minor areas derived from sedimentary rock

Typical profile

O₁ - 0 to 6 inches: slightly decomposed plant material

O_a - 6 to 63 inches: muck

C - 63 to 81 inches: fine sandy loam

Properties and qualities

Slope: 0 to 2 percent

Depth to restrictive feature: More than 80 inches

Natural drainage class: Very poorly drained

Runoff class: Negligible

Capacity of the most limiting layer to transmit water (Ksat):

Moderately high to high (1.42 to 7.09 in/hr)

Depth to water table: About 0 to 10 inches

Frequency of flooding: Occasional

Frequency of ponding: None

Calcium carbonate, maximum in profile: 3 percent

Salinity, maximum in profile: Nonsaline (0.0 to 1.0 mmhos/cm)

Sodium adsorption ratio, maximum in profile: 2.0

Available water storage in profile: Very high (about 26.0 inches)

Interpretive groups

Land capability classification (irrigated): 8w

Land capability classification (nonirrigated): 8w

Hydrologic Soil Group: A/D

Ecological site: Wet Fresh Meadow (R047XB008UT)

Hydric soil rating: Yes

Description of Filoa

Setting

Landform: Flood-plain steps

Landform position (three-dimensional): Tread



Natural Resources
Conservation Service

Web Soil Survey
National Cooperative Soil Survey

3/12/2020
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Appendix F cont.

Soil Composition Report

Map Unit Description: Canburn-Tuj-Floa complex, 0 to 2 percent slopes—Loa-Marysvale Area,
Utah, Parts of Piute, Wayne, and Garfield Counties

Down-slope shape: Linear
Across-slope shape: Linear
Parent material: Alluvium derived from andesite, dacite, basalt, and
tuff with minor areas derived from sedimentary rock

Typical profile

O_i - 0 to 2 inches: slightly decomposed plant material
A - 2 to 8 inches: silt loam
Ab₁ - 8 to 16 inches: silty clay loam
Ab₂ - 16 to 24 inches: silty clay loam
C₁ - 24 to 29 inches: silt loam
C₂ - 29 to 32 inches: loam
2C - 32 to 60 inches: very gravelly loamy sand

Properties and qualities

Slope: 0 to 2 percent
Depth to restrictive feature: More than 80 inches
Natural drainage class: Somewhat poorly drained
Runoff class: Low
Capacity of the most limiting layer to transmit water (K_{sat}):
Moderately high (0.21 to 0.71 in/hr)
Depth to water table: About 20 to 40 inches
Frequency of flooding: Occasional
Frequency of ponding: None
Calcium carbonate, maximum in profile: 20 percent
Salinity, maximum in profile: Nonsaline to very slightly saline (0.0
to 2.0 mmhos/cm)
Sodium adsorption ratio, maximum in profile: 10.0
Available water storage in profile: Moderate (about 7.8 inches)

Interpretive groups

Land capability classification (irrigated): 4w
Land capability classification (nonirrigated): 7c
Hydrologic Soil Group: C
Ecological site: Semiwet Fresh Meadow (R047XB004UT)
Hydric soil rating: No

Minor Components

Water

Percent of map unit: 5 percent

Huipil

Percent of map unit: 5 percent
Landform: Flood plains
Landform position (three-dimensional): Dip
Down-slope shape: Linear
Across-slope shape: Linear
Ecological site: Wet Fresh Meadow (R047XB008UT)

Appendix F cont.

Soil Composition Report

Map Unit Description: Canburn-Tuj-Filola complex, 0 to 2 percent slopes--Loa-Marysvale Area,
Utah, Parts of Piute, Wayne, and Garfield Counties

Hydric soil rating: Yes

Data Source Information

Soil Survey Area: Loa-Marysvale Area, Utah, Parts of Piute, Wayne, and
Garfield Counties

Survey Area Data: Version 3, Sep 16, 2019

Appendix F cont.

Soil Composition Report

