
From: Keller, Kevin <Kevin.Keller@hdrinc.com>
Sent: Thursday, September 26, 2019 3:16 PM
To: Wayland, Joshua
Cc: Floyd, Kathryn K.; 10145616_7CountyCoalitionUBR TO1; mmckee@7county.utah.gov; Brian Barton; Robe, Kyle; Klaumann, Anthony; Nichols, Karen; Dobbs, Catherine; Magiera, Doree
Subject: RE: UBRY Whitmore Park Alignment and Environmental Baseline Field Survey Tech Memos
Attachments: DESIGN_WhitmorePark_Centerline_20190821.kmz

Josh,

Attached is the .kmz file.

Kevin

Kevin Keller, PG
D 816.347.1183 M 913.638.2571

hdrinc.com/follow-us

From: Wayland, Joshua [mailto:Joshua.Wayland@stb.gov]
Sent: Thursday, September 26, 2019 1:14 PM
To: Keller, Kevin <Kevin.Keller@hdrinc.com>
Subject: RE: UBRY Whitmore Park Alignment and Environmental Baseline Field Survey Tech Memos

Thank you, Kevin. We are also requesting a .kmz file showing the proposed centerline of the Whitmore Park route if this is readily available.

Best,
Josh

From: Keller, Kevin <Kevin.Keller@hdrinc.com>
Sent: Thursday, September 26, 2019 11:07 AM
To: Wayland, Joshua <Joshua.Wayland@stb.gov>
Cc: Floyd, Kathryn K. <KKFloyd@Venable.com>; mmckee@7county.utah.gov; 10145616_7CountyCoalitionUBR TO1 <10145616_7CountyCoalitionUBRTO1@hdrinc.com>; Robe, Kyle <Kyle.Robe@hdrinc.com>; Klaumann, Anthony <Anthony.Klaumann@hdrinc.com>; Brian Barton <Brian@jonesanddemille.com>; Nichols, Karen <Karen.Nichols@hdrinc.com>; Magiera, Doree <Doree.Magiera@hdrinc.com>; Dobbs, Catherine <Catherine.Dobbs@hdrinc.com>
Subject: UBRY Whitmore Park Alignment and Environmental Baseline Field Survey Tech Memos

Josh,

Per our conversation earlier this week, attached is a drawing of the preliminary proposed centerline of the Whitmore Park alignment. Also attached are the proposed TOCs of the Tech Memos for the Waters of the US field surveys and the Biological Resources Characterization field surveys. We're currently working on both tech memos, as well as the cultural resources tech memo.

Please let us know if you need any further information on these.

Kevin

Kevin Keller, PG

Vice President/Senior Professional Associate

HDR

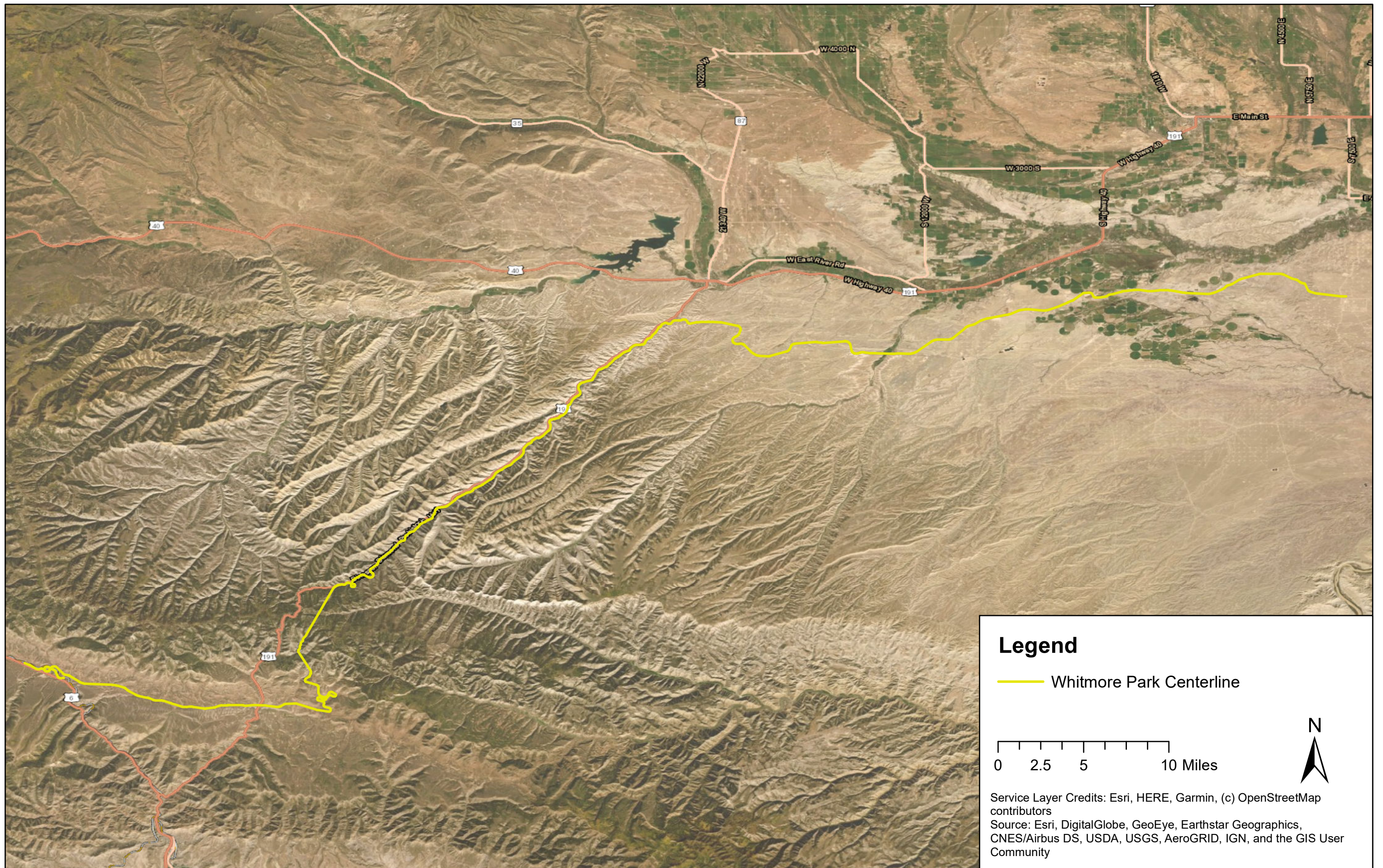
10450 Holmes Road, Suite 600

Kansas City, MO 64131-3471

D 816.347.1183 **M** 913.638.2571

kevin.keller@hdrinc.com

hdrinc.com/follow-us



This page is intentionally left blank.

Contents

<i>This page is intentionally left blank.</i>	i
1.0 Background	1
2.0 Environmental Setting	1
3.0 Wetland and Other WOUS Resources	1
3.1 Methodology	1
3.2 Results	1
3.2.1 Wetlands	2
3.2.2 Other WOUS	2
4.0 State Stream Alteration	2
4.1 Alteration of Natural Stream	2
4.2 State of Utah Water Quality Certification	2
4.3 EPA Water Quality Certification	2
5.0 References	3

Tables

Table 3-1. Wetland and Other WOUS in Study Areas	1
Table 2-1. Estimated Natural Streams in Study Areas	2

Figures

Figure 1-1. Study Areas for Alternatives	1
--	---

Appendixes

Appendix A. Wetland and WOUS Map Series – Indian Canyon	
Appendix B. Wetland and WOUS Map Series – Wells Draw	
Appendix C. Wetland and WOUS Map Series – Whitmore Park	
Appendix D.	
Appendix E.	
Appendix F.	
Appendix G.	

This page is intentionally left blank.

Contents

<i>This page is intentionally left blank.</i>	i
1.0 Introduction	1
1.1 Project Alternatives	1
1.2 Regulatory Framework	1
2.0 Vegetation Resources.....	1
2.1 Methodology	1
2.2 Plant Communities.....	1
2.2.1 Agricultural	2
2.2.2 Shrubland.....	2
2.2.3 Forest/Woodland	2
2.2.4 Meadow/Grassland.....	2
2.2.5 Invasive and Non-native Plant Species	2
2.2.6 Threatened, Endangered, Sensitive and Special-Status Vegetation	2
3.0 Wildlife Resources	3
3.1 Threatened, Endangered and Sensitive Wildlife Species	3
3.2 Sensitive Species of Concern.....	3
3.3 Wildlife in the Study Area.....	4
3.3.1 Wildlife Corridors.....	4
3.3.2 Habitat Fragmentation	4
3.3.3 Wildlife Mortality	4
3.3.4 Wildlife Sanctuaries, Refuges and State Parks	4
4.0 References.....	4

Tables

Table 2-1. Vegetation Communities in Study Areas.....	1
Table 2-2. Invasive and Non-native Plant Species in the Study Area	2
Table 2-3. Threatened, Endangered, Sensitive and Special Status Plant Species in the Study Area	2
Table 3-1. Federally Listed Species with the Potential to Occur in the Study Areas	3
Table 3-3. Sensitive Species with Potential to Occur in the Study Areas	4

Figures

Figure 1-1. UBRY Alternative Study Areas	1
Figure 2-1. Uinta Basin Hookless Cactus (<i>Sclerocactus wetlnadicus</i>) Mapped Suitable Habitat	2
Figure 2-2. Barmeby Ridge-cress (<i>Lepidium bamebyanum</i>) Mapped Potential Habitat.....	3
Figure 3-1. Greater-sage Grouse Mapped Management Areas and Leks.....	3

Appendixes

- Appendix A. GSG Management Area Map Series – Indian Canyon
- Appendix B. GSG Management Area Map Series – Wells Draw
- Appendix C. GSG Management Area Map Series – Whitmore Park
- Appendix D. Plant Species Observed in Survey Areas
- Appendix E. Wildlife Observed in Survey Areas
- Appendix F.
- Appendix G.

Acronyms and Abbreviations

CFR	Code of Federal Regulations
CWA	Clean Water Act
EPA	U.S. Environmental Protection Agency
FAC	facultative (plants that occur in wetlands and non-wetlands)
FACW	facultative wetland (plants that usually occur in wetlands but can occur in non-wetlands)
GIS	geographic information systems
HDR	HDR, Inc.
ID	identifier
No.	number
NRCS	Natural Resource Conservation Service
NWI	National Wetlands Inventory
NWPL	National Wetland Plant List
OBL	obligate wetland (plants that almost always occur in wetlands)
OHWM	ordinary high water mark
PEM	palustrine emergent
PGP 10	USACE Programmatic General Permit 10
SCIC	Seven County Infrastructure Coalition
TNW	traditional navigable water
UBRY	Uintah Basin Railway
UDOT	Utah Division of Transportation
U.S.	United States
USACE	U.S. Army Corps of Engineers
USDA	U.S. Department of Agriculture
USFWS	U.S. Fish and Wildlife Service
WOUS	waters of the United States

1.0 Introduction

1.1 Project Alternatives

1.2 Regulatory Framework

HDR collected and reviewed available and field data on biological resources to help ensure compliance with Federal and state laws:

-
-

The Study Area for biological resources is shown in Figure XX below. The Study Area considered a 1000-foot corridor centered over the alternative railway centerline.

Figure 1-1. UBRY Alternative Study Areas

2.0 Vegetation Resources

2.1 Methodology

2.2 Plant Communities

Table 2-1. Vegetation Communities in Study Areas

Acres

Vegetation Community	Indian Canyon	Wells Draw	Whitmore Park	
Table Subsection				
Table Cell	Table Cell	Table Cell	Table Cell	Table Cell
Table Cell	Table Cell	Table Cell	Table Cell	Table Cell
Table Cell	Table Cell	Table Cell	Table Cell	Table Cell
Table Cell	Table Cell	Table Cell	Table Cell	Table Cell

Source: Table Source/Note

^a Table Footnote

- 2.2.1 Agricultural
- 2.2.2 Shrubland
- 2.2.3 Forest/Woodland
- 2.2.4 Meadow/Grassland
- 2.2.5 Invasive and Non-native Plant Species

Table 2-2. Invasive and Non-native Plant Species in the Study Area

Table Head	Table Head	Table Head
Table Cell	Table Cell	Table Cell
Table Cell	Table Cell	Table Cell
Table Cell	Table Cell	Table Cell

Source: Table Source/Note
^a Table Footnote

2.2.6 Threatened, Endangered, Sensitive and Special-Status Vegetation

Table 2-3. Threatened, Endangered, Sensitive and Special Status Plant Species in the Study Area

Common name	Scientific Name	Federal Status
Barneby Ridge-cress	<i>Lepidium barnebyanum</i>	Endangered
Clay Phacelia	<i>Phacelia argillacea</i>	Endangered
Jones Cycladenia	<i>Cycladenia humilis</i> var. <i>jonesii</i>	Threatened
Pariette Cactus	<i>Sclerocactus brevispinus</i>	Threatened
Uinta Basin Hookless Cactus	<i>Sclerocactus wetlandicus</i>	Threatened
Ute ladies'-tresses	<i>Spiranthes diluvialis</i>	Threatened

Source: USFWS ECOS-IPaC website, accessed 4/2/19

Figure 2-1. Uinta Basin Hookless Cactus (*Sclerocactus wetlnadicus*) Mapped Suitable Habitat

Figure 2-2. Barneby Ridge-cress (*Lepidium bamebyanum*) Mapped Potential Habitat

3.0 Wildlife Resources

3.1 Threatened, Endangered and Sensitive Wildlife Species

Table 3-1. Federally Listed Species with the Potential to Occur in the Study Areas

Common Name	Scientific Name	Status
Birds		
Mexican Spotted Owl	<i>Strix occidentalis lucida</i>	Threatened
Western yellow-billed cuckoo	<i>Coccyzus americanus</i>	Threatened
Fish		
Bonytail Chub	<i>Gila elegans</i>	Endangered
Colorado Pikeminnow	<i>Ptychocheilus lucius</i>	Endangered
Humpback Chub	<i>Gila cypha</i>	Endangered
June Sucker	<i>Chasmistes liorus</i>	Endangered
Razorback Sucker	<i>Xyrauchen texanus</i>	Endangered
Mammals		
Canada lynx	<i>Lynx canadensis</i>	Threatened

Source: USFWS ECOS-IPaC website, accessed 4/2/19

^a Table Footnote

3.2 Sensitive Species of Concern

Figure 3-1. Greater-sage Grouse Mapped Management Areas and Leks

Table 3-2. Sensitive Species with Potential to Occur in the Study Areas

Table Head	Table Head	Table Head
Greater-sage grouse	Table Cell	Table Cell
Table Cell	Table Cell	Table Cell
Table Cell	Table Cell	Table Cell

Source: Table Source/Note

^a Table Footnote

3.3 Wildlife in the Study Area

3.3.1 Wildlife Corridors

Migratory birds

Big Game

3.3.2 Habitat Fragmentation

3.3.3 Wildlife Mortality

3.3.4 Wildlife Sanctuaries, Refuges and State Parks

4.0 References