

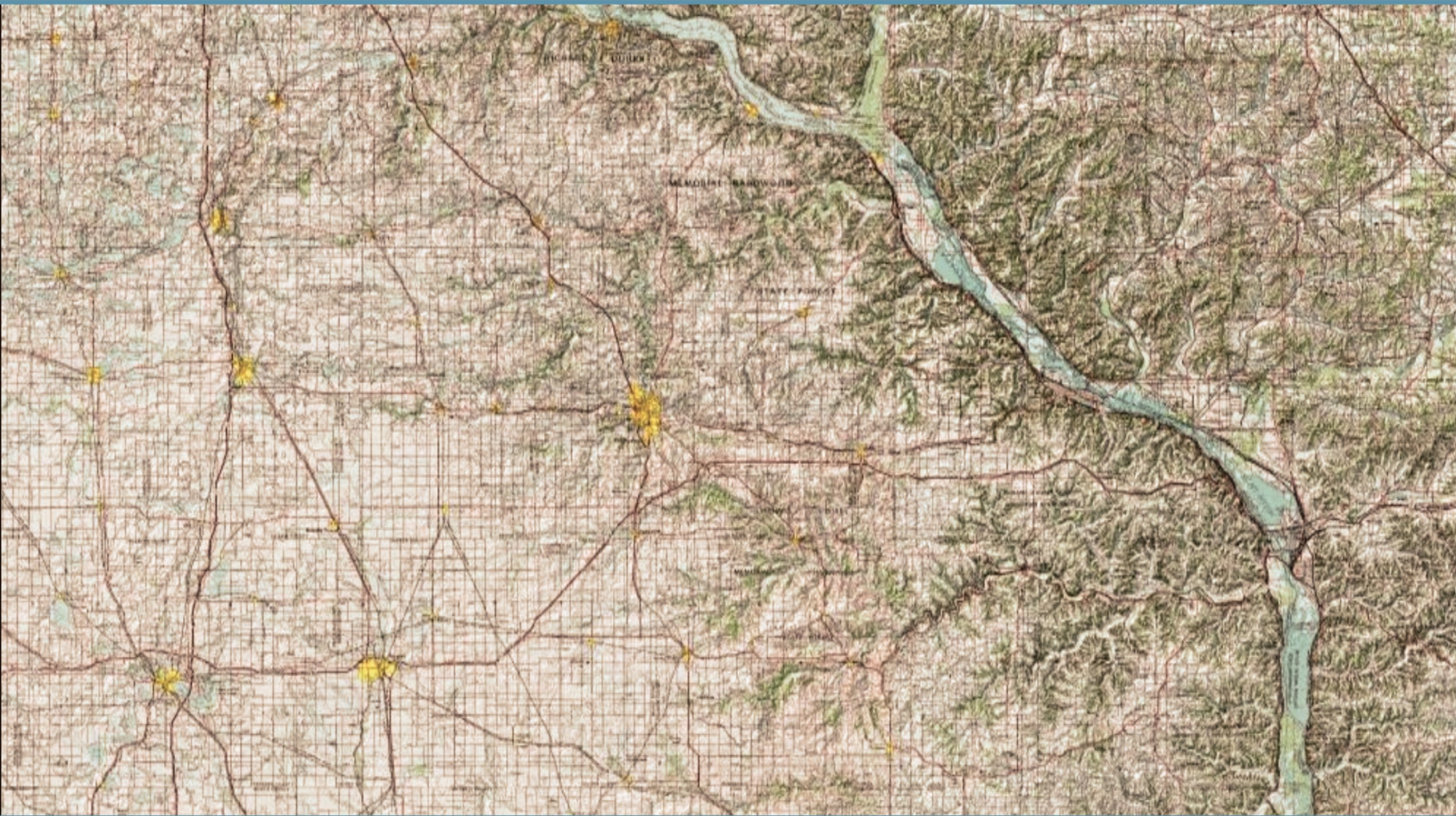
# Tree & Shrub Mitigation Plan

## Oasis Midstream Services, LLC

PU-15-733: Johnsons Corner Pipeline Project

McKenzie County, North Dakota

July 2017



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## **INTRODUCTION**

Oasis Midstream Services, LLC (Oasis) has completed construction of the Wild Basin to Johnsons Corner Crude Oil Pipeline Project (Project). The Project is a crude oil transmission pipeline approximately 19-miles in length and is located on private land in McKenzie County, North Dakota.

The North Dakota Public Service Commission (PSC) issued their Order on Recommended Findings of Fact, Conclusions of Law and Order (Case No. PU-15-733), a Certificate of Corridor Compatibility (Number 183) and a Route Permit (Number 195) on March 23, 2016 for the Project. Included was the PSC's Tree and Shrub Mitigation Specifications. The PSC's Tree and Shrub Mitigation Specifications requires the project proponent to:

1. Provide an inventory of the type, location, and number of trees/shrubs removed during construction;
2. Replace removed trees/shrubs at a minimum 2:1 ratio;
3. Inspect (in September) and report annually on tree/shrub survival for a minimum of 3-years after planting; and
4. Achieve a minimum survival rate of 75% after 3-years. If a 75% survival rate is not achieved additional plantings are required with subsequent annual monitoring and reporting for 3-years after planting.

This Tree and Shrub Mitigation Plan (Plan) has been prepared to satisfy requirement number one above and to outline Oasis' approach for replacement plantings.

## **TREE AND SHRUB REMOVAL INVENTORY**

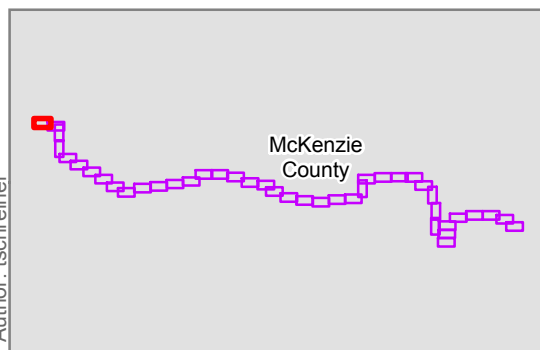
E3 Environmental, LLC (E3) completed natural resource survey of the Project, this effort included a tree and shrub inventory of the 250-foot survey corridor. The survey encompassed approximately 610 acres and recorded 430 locations where woody vegetation (i.e., trees and or shrubs) were present within the survey corridor. These results were detailed in the Natural Resource Report, which was included as Appendix D of the PSC Consolidated Corridor and Route Application. E3 has utilized this information to identify the location, type, and number of trees/shrubs that were removed within the 50-foot construction right-of-way. These results are depicted on the maps in Appendix A and detailed in the table in Appendix B.


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## **REPLACEMENT PLAN**

A review of the Project was conducted to identify the location(s) where woody vegetation was removed during construction and to quantify, by species, the impacted trees/shrubs. Trees and shrubs were removed from private property. Oasis will coordinate with the affected landowner(s) regarding the replacement of tree/shrubs. Following landowner coordination, preliminary site preparation will be conducted in the fall of 2017, which will facilitate replacement planting during the preferred planting window in the spring of 2018. In accordance with the PSC's Tree and Shrub Mitigation Specifications, Oasis will record, document and file a record of these efforts with the PSC as stipulated by the Tree and Shrub Mitigation Specifications. Oasis plans to utilize the McKenzie County Soil Conservation District to facilitate landowner coordination, site preparation, and replacement planting.

## **Appendix A: Project Maps**



	Milepost
	Centerline
	Shrubs
	Trees
	50 Foot Corridor



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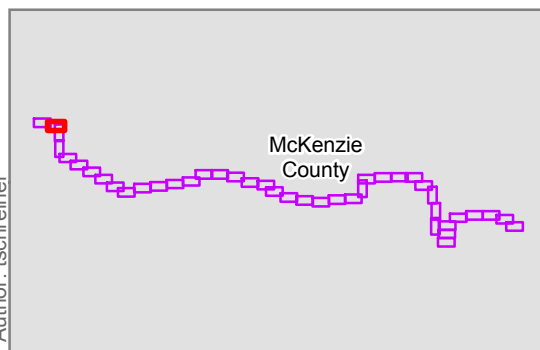
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Wild Basin to Johnsons Corner

Tree & Shrub Mitigation

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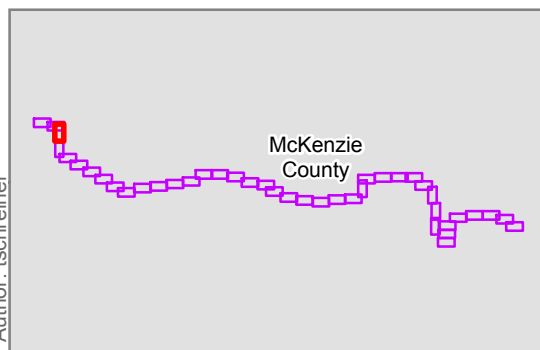
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	Milepost
	Centerline
	Shrubs
	Trees
	50 Foot Corridor

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	Milepost
	Centerline
	Shrubs
	Trees
	50 Foot Corridor

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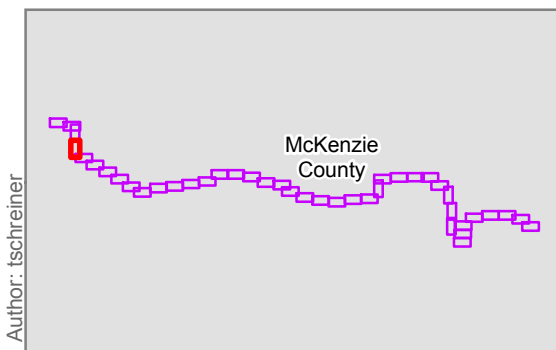
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	Milepost
	Centerline
	Shrubs
	Trees
	50 Foot Corridor



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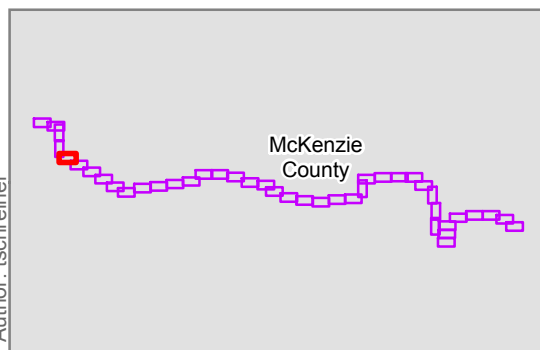
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Wild Basin to Johnsons Corner

Tree & Shrub Mitigation

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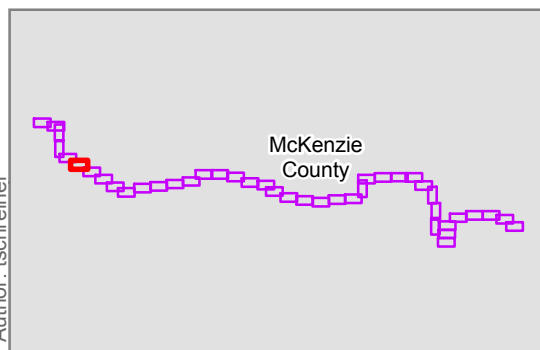
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 Milepost	  1:2,000 Map not to scale, for environmental review purposes only.
 Centerline	
 Shrubs	
 Trees	
 50 Foot Corridor	



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**Wild Basin to Johnsons Corner**  
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	Milepost
	Centerline
	Shrubs
	Trees
	50 Foot Corridor





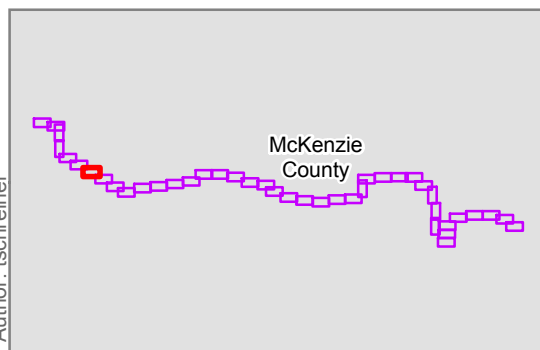
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	Milepost
	Centerline
	Shrubs
	Trees
	50 Foot Corridor



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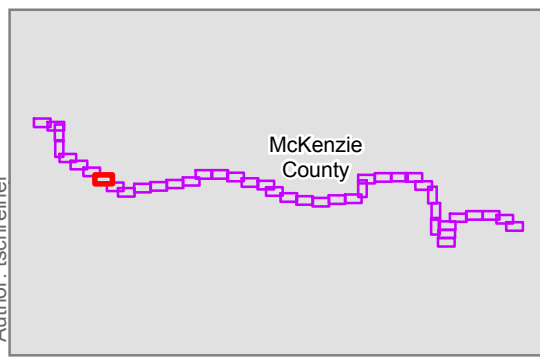
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Tree & Shrub Mitigation

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	Milepost
	Centerline
	Shrubs
	Trees
	50 Foot Corridor



N



0 150 300 Feet

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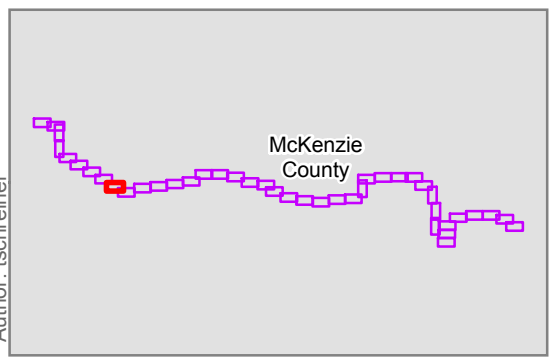
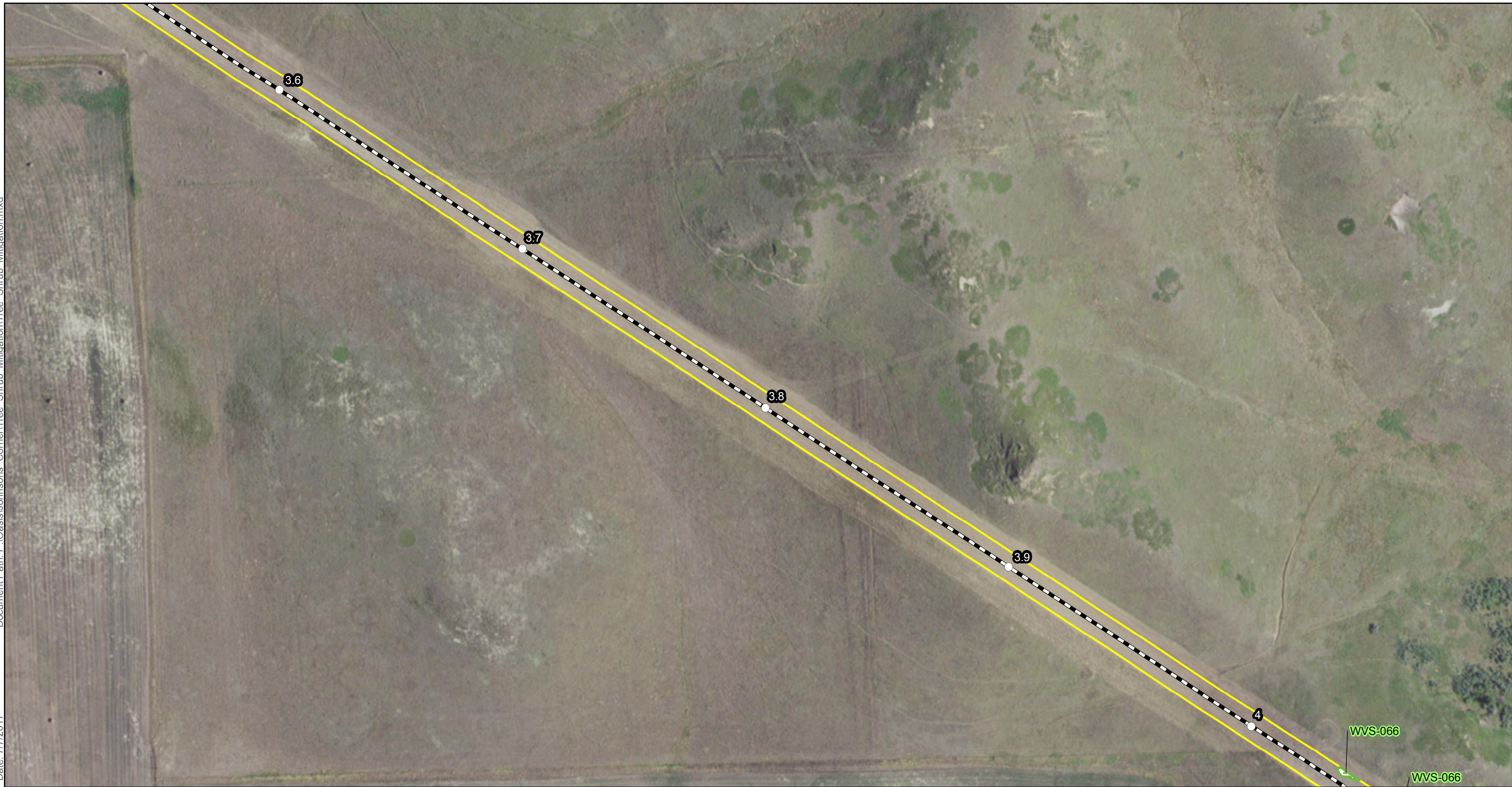
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	Milepost
	Centerline
	Shrubs
	Trees
	50 Foot Corridor







1:2,000

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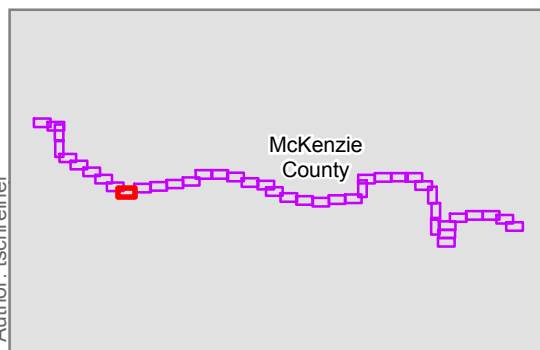
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	Milepost
	Centerline
	Shrubs
	Trees
	50 Foot Corridor

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Wild Basin to Johnsons Corner

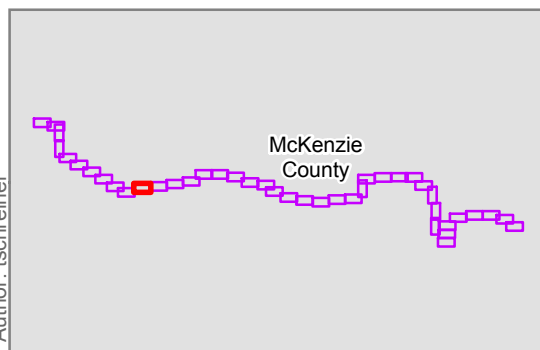
Tree & Shrub Mitigation

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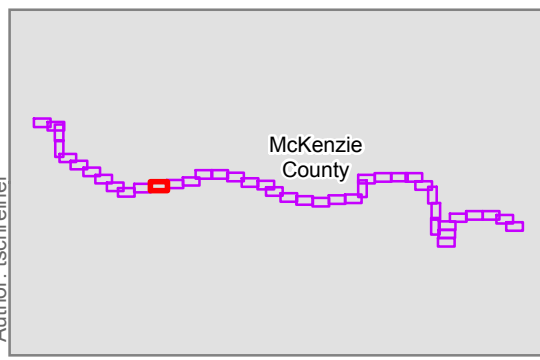


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Centerline		
Shrubs		
Trees		
50 Foot Corridor		



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 Wild Basin to Johnsons Corner  
 Tree & Shrub Mitigation  
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Map not to scale, for environmental review purposes only.



	Milepost
	Centerline
	Shrubs
	Trees
	50 Foot Corridor



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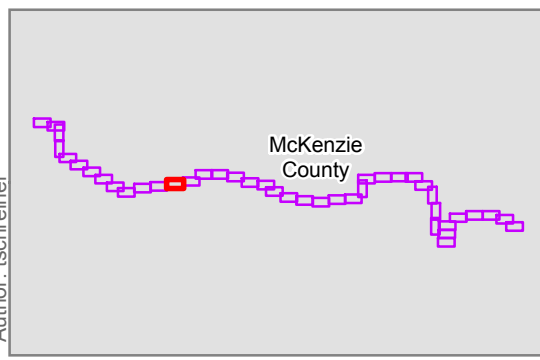
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Wild Basin to Johnsons Corner

Tree & Shrub Mitigation

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	Milepost
	Centerline
	Shrubs
	Trees
	50 Foot Corridor



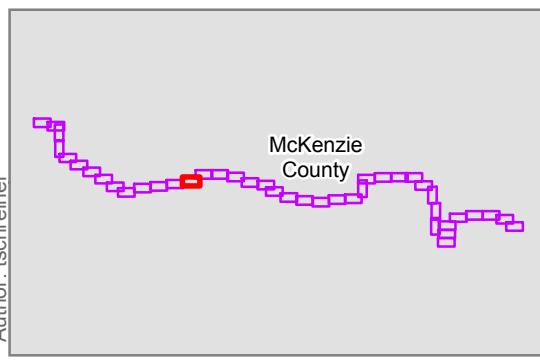


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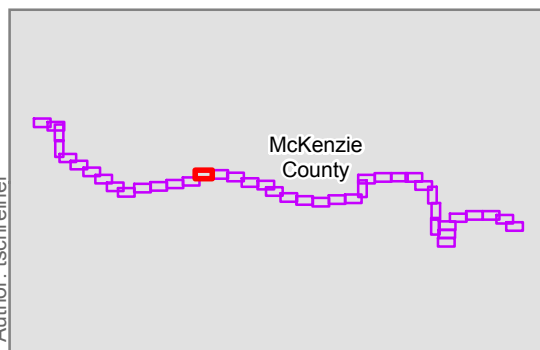
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	Milepost
	Centerline
	Shrubs
	Trees
	50 Foot Corridor

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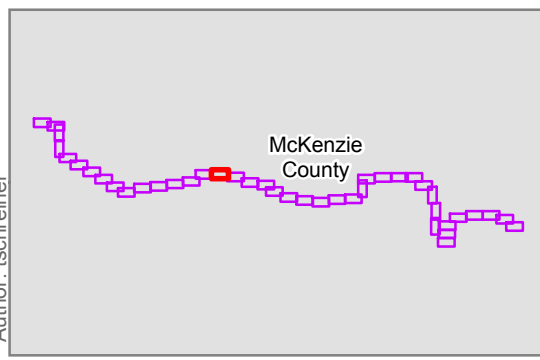
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	Milepost
	Centerline
	Shrubs
	Trees
	50 Foot Corridor

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	Milepost
	Centerline
	Shrubs
	Trees
	50 Foot Corridor

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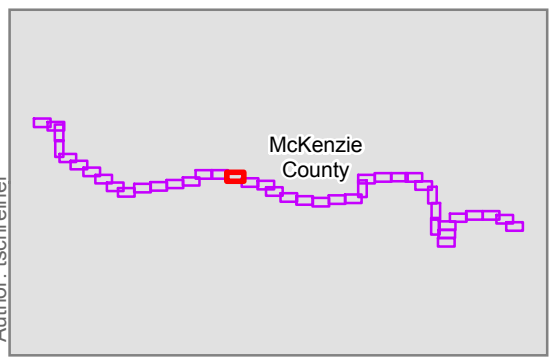
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**Wild Basin to Johnsons Corner**

Tree & Shrub Mitigation

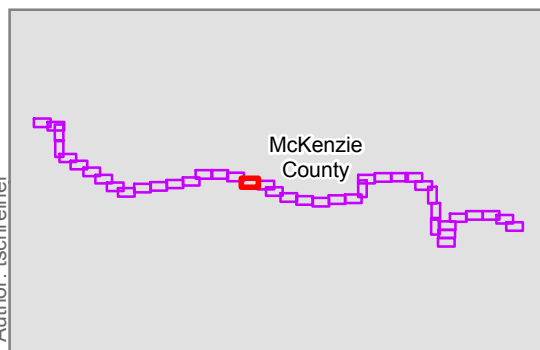
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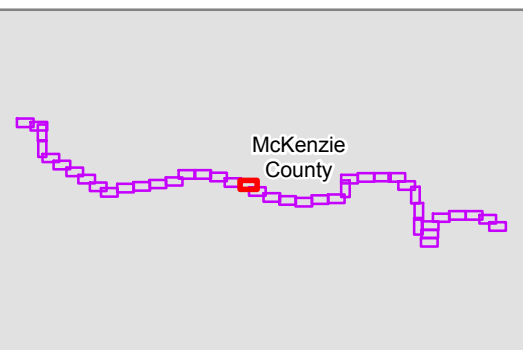
	Milepost
	Centerline
	Shrubs
	Trees
	50 Foot Corridor


**Oasis Petroleum**  
 Wild Basin to Johnsons Corner  
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 Milepost	 <b>E3 ENVIRONMENTAL</b> <i>Enhancing Execution with Experience</i> <b>EXPERTS</b>
 Centerline	
 Shrubs	
 Trees	
 50 Foot Corridor	
	
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 Wild Basin to Johnsons Corner  
 Tree & Shrub Mitigation  
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	Milepost
	Centerline
	Shrubs
	Trees
	50 Foot Corridor



N



0 150 300 Feet

1:2,000



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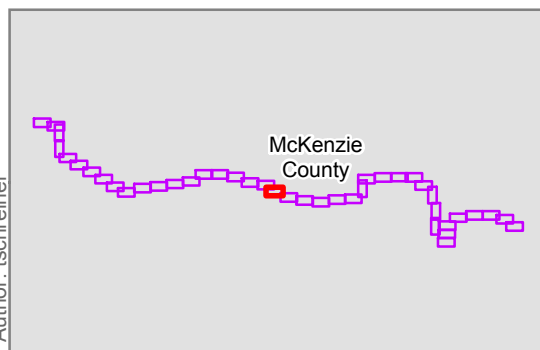
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Tree & Shrub Mitigation

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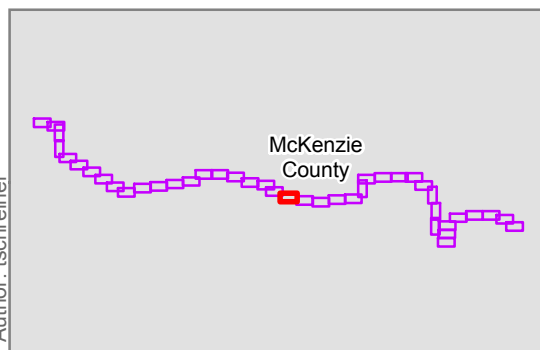
McKenzie County, North Dakota




	Milepost
	Centerline
	Shrubs
	Trees
	50 Foot Corridor

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 Wild Basin to Johnsons Corner  
 Tree & Shrub Mitigation  
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Map not to scale, for environmental review purposes only.



	Milepost
	Centerline
	Shrubs
	Trees
	50 Foot Corridor




N



0 150 300 Feet

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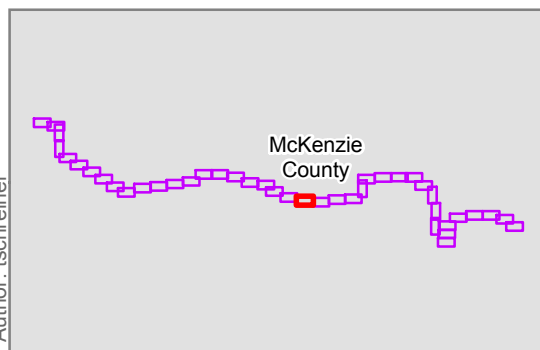
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Wild Basin to Johnsons Corner

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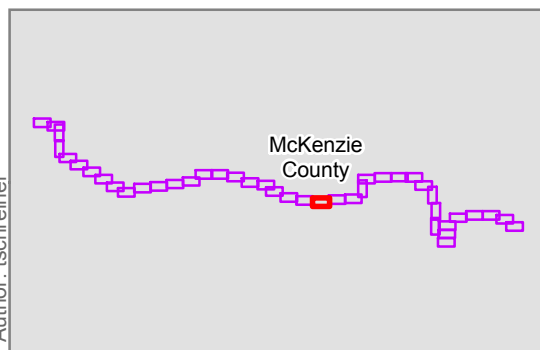
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 Shrubs	
 Trees	
 50 Foot Corridor	



  
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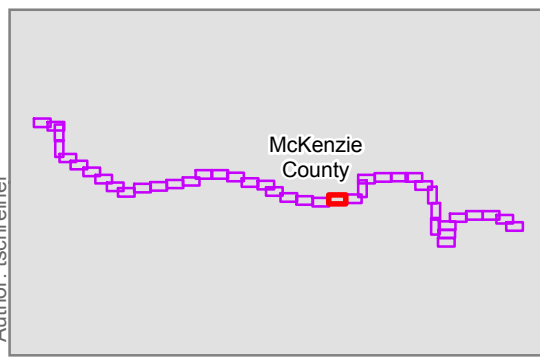


	Milepost
	Centerline
	Shrubs
	Trees
	50 Foot Corridor

1:2,000

**Oasis Petroleum**  
 Wild Basin to Johnsons Corner  
 Tree & Shrub Mitigation  
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Map not to scale, for environmental review purposes only.



	Milepost
	Centerline
	Shrubs
	Trees
	50 Foot Corridor



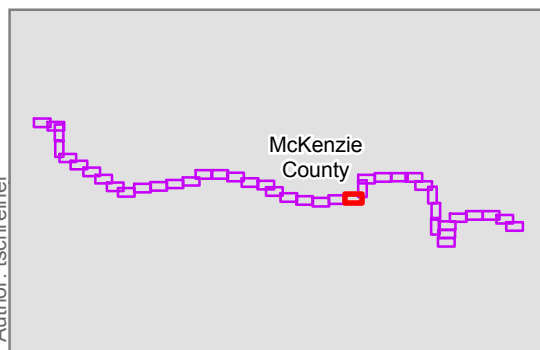


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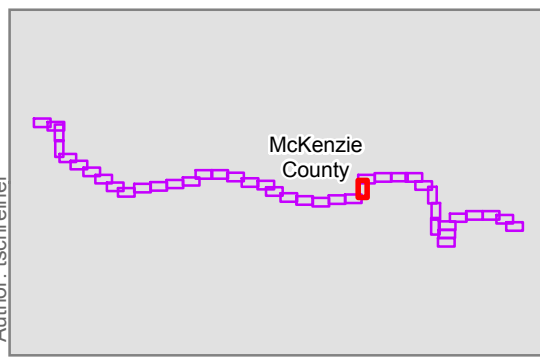
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 Milepost	  1:2,000 Map not to scale, for environmental review purposes only.
 Centerline	
 Shrubs	
 Trees	
 50 Foot Corridor	



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**Wild Basin to Johnsons Corner**  
**Tree & Shrub Mitigation**  
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	Milepost
	Centerline
	Shrubs
	Trees
	50 Foot Corridor

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Feet

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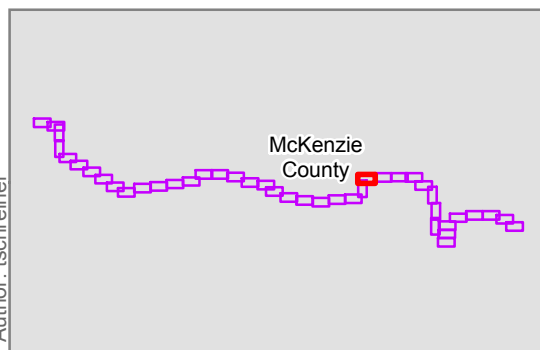
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Wild Basin to Johnsons Corner

Tree & Shrub Mitigation

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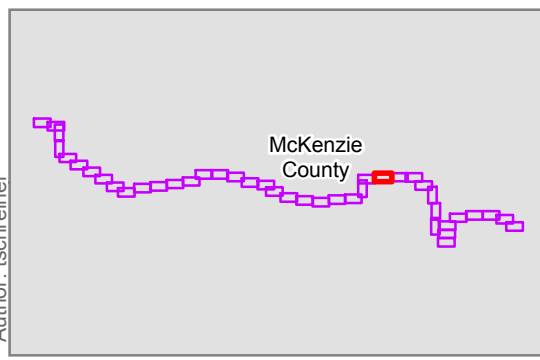
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	Milepost
	Centerline
	Shrubs
	Trees
	50 Foot Corridor

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 Wild Basin to Johnsons Corner  
 Tree & Shrub Mitigation  
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 McKenzie County, North Dakota

Map not to scale, for environmental review purposes only.



	Milepost
	Centerline
	Shrubs
	Trees
	50 Foot Corridor







1:2,000

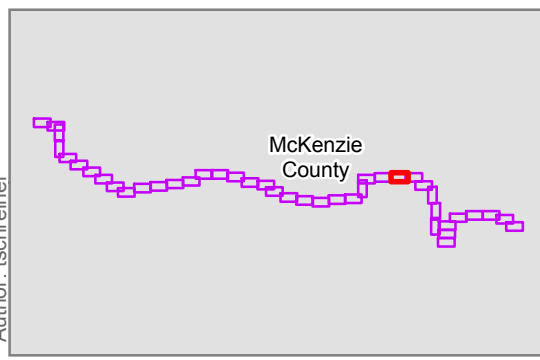
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Wild Basin to Johnsons Corner

Tree & Shrub Mitigation

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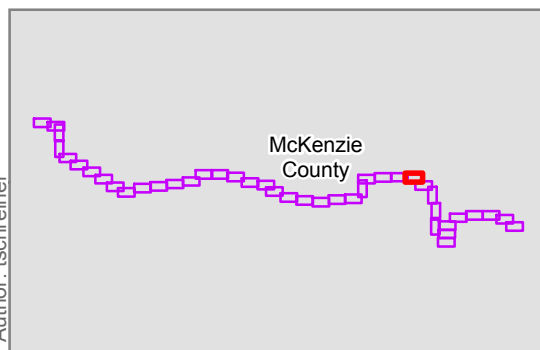



	Milepost
	Centerline
	Shrubs
	Trees
	50 Foot Corridor

1:2,000

**Oasis Petroleum**  
 Wild Basin to Johnsons Corner  
 Tree & Shrub Mitigation  
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Map not to scale, for environmental review purposes only.



	Milepost
	Centerline
	Shrubs
	Trees
	50 Foot Corridor



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0 150 300 Feet

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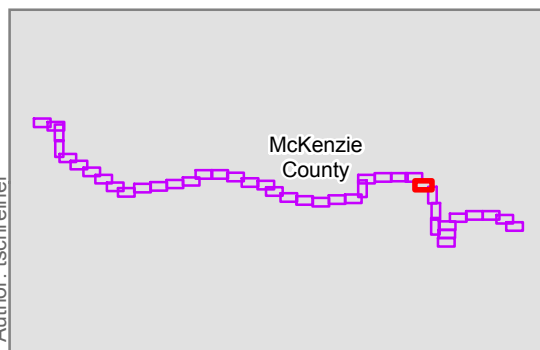
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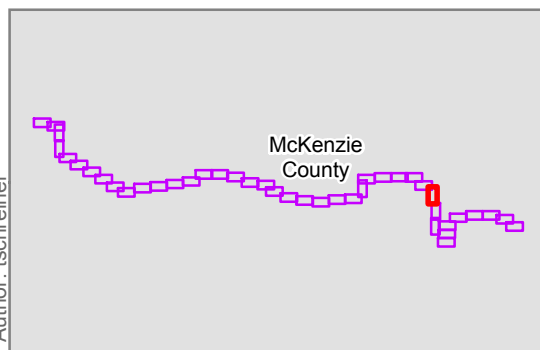


	Milepost
	Centerline
	Shrubs
	Trees
	50 Foot Corridor

1:2,000

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 Wild Basin to Johnsons Corner  
 Tree & Shrub Mitigation  
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Map not to scale, for environmental review purposes only.



	Milepost
	Centerline
	Shrubs
	Trees
	50 Foot Corridor

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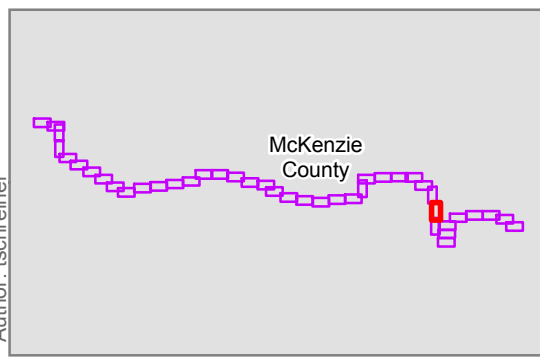
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**Oasis Petroleum**  
Wild Basin to Johnsons Corner

Tree & Shrub Mitigation

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McKenzie County, North Dakota



	Milepost
	Centerline
	Shrubs
	Trees
	50 Foot Corridor

**E3 ENVIRONMENTAL**  
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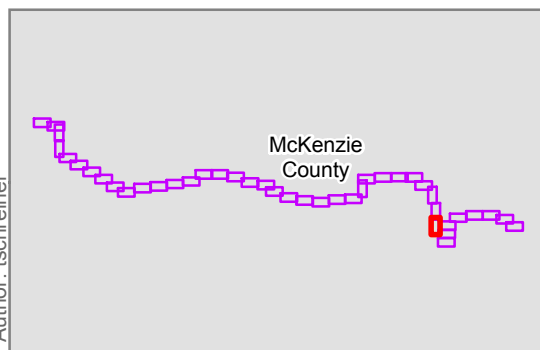
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**Oasis Petroleum**  
Wild Basin to Johnsons Corner

Tree & Shrub Mitigation

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McKenzie County, North Dakota



	Milepost
	Centerline
	Shrubs
	Trees
	50 Foot Corridor

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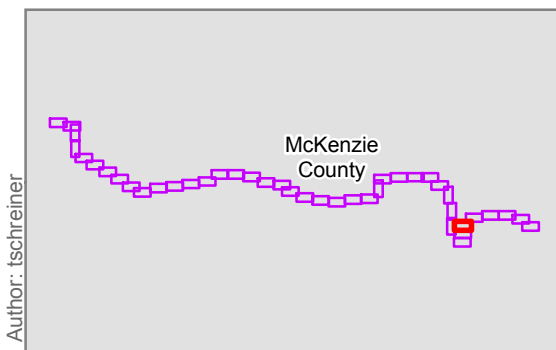
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Wild Basin to Johnsons Corner  
Tree & Shrub Mitigation  
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	Milepost
	Centerline
	Shrubs
	Trees
	50 Foot Corridor



N



0 150 300 Feet

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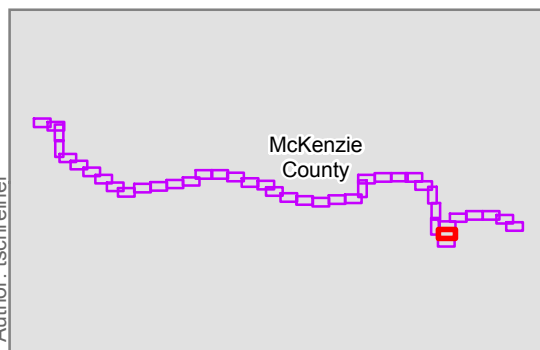
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Wild Basin to Johnsons Corner

Tree & Shrub Mitigation

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	Milepost
	Centerline
	Shrubs
	Trees
	50 Foot Corridor





**E3 ENVIRONMENTAL**  
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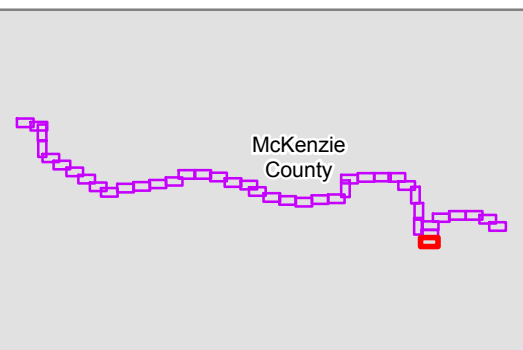
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Tree & Shrub Mitigation

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	Milepost
	Centerline
	Shrubs
	Trees
	50 Foot Corridor



N



0 150 300 Feet

1:2,000



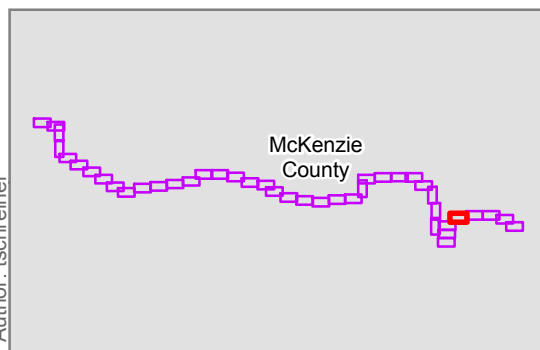
**E3 ENVIRONMENTAL**  
Enhancing Execution with Experience



**Oasis Petroleum**  
Wild Basin to Johnsons Corner

Tree & Shrub Mitigation


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McKenzie County, North Dakota

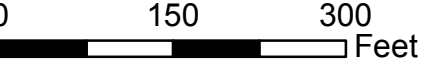


	Milepost
	Centerline
	Shrubs
	Trees
	50 Foot Corridor





**E3 ENVIRONMENTAL**  
*Enhancing Execution with Experience*



0      150      300  
Feet

1:2,000

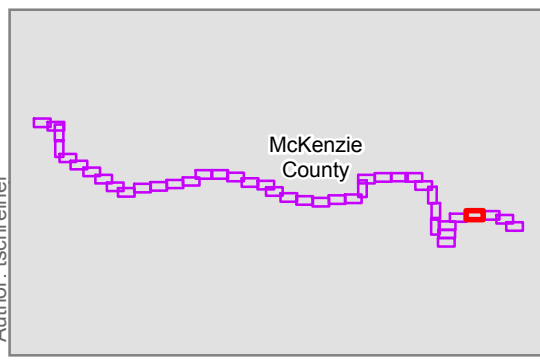
Map not to scale, for environmental review purposes only.

**Oasis Petroleum**  
Wild Basin to Johnsons Corner

Tree & Shrub Mitigation

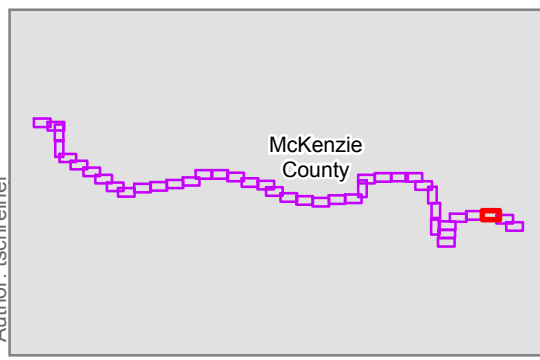
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 Milepost	 <b>E3 ENVIRONMENTAL</b> <i>Enhancing Execution with Experience</i>
 Centerline	
 Shrubs	
 Trees	
 50 Foot Corridor	
	
 1:2,000	
Map not to scale, for environmental review purposes only.	

**Oasis Petroleum**  
 Wild Basin to Johnsons Corner  
 Tree & Shrub Mitigation  
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 McKenzie County, North Dakota



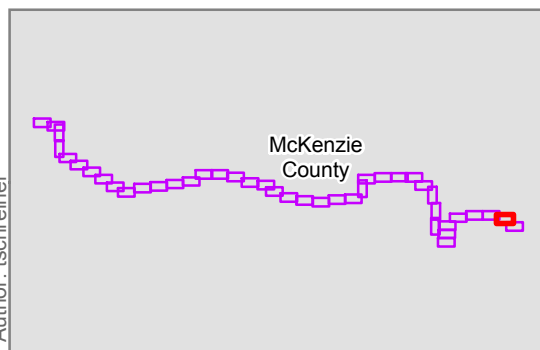
	Milepost
	Centerline
	Shrubs
	Trees
	50 Foot Corridor


1:2,000

**E3 ENVIRONMENTAL**  
Enhancing Execution with Experience

**Oasis Petroleum**  
 Wild Basin to Johnsons Corner  
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Map not to scale, for environmental review purposes only.



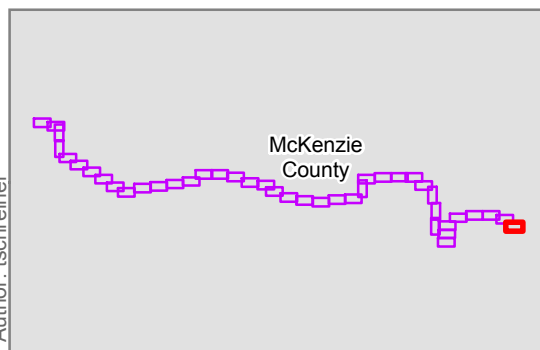
 Milepost	 <b>E3 ENVIRONMENTAL</b> <i>Enhancing Execution with Experience</i> <small>EXPERTS</small>
 Centerline	
 Shrubs	
 Trees	
 50 Foot Corridor	



  
 1:2,000

Map not to scale, for environmental review purposes only.

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 Wild Basin to Johnsons Corner  
 Tree & Shrub Mitigation  
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	Milepost
	Centerline
	Shrubs
	Trees
	50 Foot Corridor

1:2,000

**Oasis Petroleum**  
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 Tree & Shrub Mitigation  
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Map not to scale, for environmental review purposes only.

## **Appendix B: Tree and Shrub Inventory Table**

**Tree and Shrub Inventory**

<b>Map ID</b>	<b>Species</b>	<b>Type</b>	<b>Number Individuals Removed</b>	<b>Minimum Number of Replacements*</b>
WVS-003	Silver Sage Brush	Shrub	2	4
WVS-066	Snow Berry	Shrub	1	2
	Silver Buffaloberry	Shrub	1	2
WVS-067	Creeping Juniper	Shrub	2	4
	Silver Sage Brush	Shrub	1	2
	Snow Berry	Shrub	1	2
WVS-080	Snow Berry	Shrub	1	2
WVS-092	Silver Sage Brush	Shrub	4	8
	Snow Berry	Shrub	1	2
	Prairie Rose	Shrub	1	2
WVS-096	Creeping Juniper	Shrub	3	6
	Snow Berry	Shrub	1	2
	Prairie Rose	Shrub	2	4
WVS-097	Snow Berry	Shrub	1	2
WVS-102	Snow Berry	Shrub	1	2
WVS-106	Creeping Juniper	Shrub	1	2
WVS-124	Creeping Juniper	Shrub	2	4
	Silver Buffaloberry	Shrub	1	2
	Prairie Rose	Shrub	2	4
	Snow Berry	Shrub	2	4
WVS-134	Creeping Juniper	Shrub	3	6
	Snow Berry	Shrub	1	2
	Silver Sage Brush	Shrub	3	6
	Skunkbush Sumac	Shrub	8	16
	Prairie Rose	Shrub	1	2
WVS-136	Silver Buffaloberry	Shrub	13	26
	Snow Berry	Shrub	1	2
WVS-136	Silver Sage Brush	Shrub	4	8
WVS-138	Snow Berry	Shrub	1	2
	Creeping Juniper	Shrub	3	6
	Prairie Rose	Shrub	5	10

<b>Map ID</b>	<b>Species</b>	<b>Type</b>	<b>Number Individuals Removed</b>	<b>Minimum Number of Replacements*</b>
WVS-147	Creeping Juniper	Shrub	5	10
	Silver			
	Buffaloberry	Shrub	10	20
	Snow Berry	Shrub	1	2
	Chokecherry	Shrub	4	8
	Prairie Rose	Shrub	5	10
WVS-148	Snow Berry	Shrub	1	2
WVS-150	Snow Berry	Shrub	1	2
WVS-165	Silver			
	Buffaloberry	Shrub	2	4
	Creeping Juniper	Shrub	1	2
	Snow Berry	Shrub	1	2
WVS-171	Snow Berry	Shrub	1	2
	Creeping Juniper	Shrub	0	0
	Prairie Rose	Shrub	2	4
WVS-173	Silver			
	Buffaloberry	Shrub	2	4
	Snow Berry	Shrub	1	2
WVS-180	Silver			
	Buffaloberry	Shrub	38	76
	Creeping Juniper	Shrub	15	30
	Snow Berry	Shrub	1	2
	Prairie Rose	Shrub	6	12
WVS-183	Silver			
	Buffaloberry	Shrub	2	4
	Snow Berry	Shrub	1	2
	Prairie Rose	Shrub	4	8
	Creeping Juniper	Shrub	1	2
WVS-182	Creeping Juniper	Shrub	6	12
WVS-187	Snow Berry	Shrub	1	2
WVS-188	Snow Berry	Shrub	1	2
WVS-191	Silver Sage Brush	Shrub	4	8
	Snow Berry	Shrub	1	2
WVS-191	Creeping Juniper	Shrub	1	2
	Silver Sage Brush	Shrub	5	10
	Skunkbush			
	Sumac	Shrub	12	24
WVS-201	Silver Sage Brush	Shrub	6	12
	Snow Berry	Shrub	1	2

<b>Map ID</b>	<b>Species</b>	<b>Type</b>	<b>Number Individuals Removed</b>	<b>Minimum Number of Replacements*</b>
WVS-205	Snow Berry	Shrub	1	2
	Silver Sage Brush	Shrub	1	2
WVS-206	Snow Berry	Shrub	1	2
WVS-209	Snow Berry	Shrub	1	2
WVS-224	Creeping Juniper	Shrub	25	50
	Prairie Rose	Shrub	38	76
	Skunkbush			
	Sumac	Shrub	25	50
	Silver Sage Brush	Shrub	4	8
WVS-226	Snow Berry	Shrub	0	0
WVS-227	Snow Berry	Shrub	1	2
	Prairie Rose	Shrub	0	0
WVS-230	Snow Berry	Shrub	1	2
WVS-231	Snow Berry	Shrub	1	2
	Prairie Rose	Shrub	17	34
WVS-238	Creeping Juniper	Shrub	8	16
WVS-240	Snow Berry	Shrub	8	16
WVS-242	Snow Berry	Shrub	4	8
	Prairie Rose	Shrub	2	4
WVS-247	Snow Berry	Shrub	1	2
WVS-247	Prairie Rose	Shrub	2	4
WVS-259	Snow Berry	Shrub	6	12
	Prairie Rose	Shrub	0	0
WVS-260	Snow Berry	Shrub	0	0
WVS-263	Snow Berry	Shrub	1	2
WVS-265	Snow Berry	Shrub	1	2
	Silver Sage Brush	Shrub	9	18
	Prairie Rose	Shrub	4	8
WVT-12	Russian Olive	Tree	8	16
WVT-17	Siberian Elm	Tree	2	4
WVT-18	Siberian Elm	Tree	2	4
WVS-268	Chokecherry	Shrub	2	4
	Snow Berry	Shrub	1	2
	Prairie Rose	Shrub	2	4
	Silver Sage Brush	Shrub	1	2
WVS-271	Creeping Juniper	Shrub	2	4
	Chokecherry	Shrub	1	2

<b>Map ID</b>	<b>Species</b>	<b>Type</b>	<b>Number Individuals Removed</b>	<b>Minimum Number of Replacements*</b>
WVS-271	Prairie Rose	Shrub	2	4
	American Plum	Shrub	2	4
WVS-274	Silver Sage Brush	Shrub	4	8
	Chokecherry	Shrub	1	2
	Snow Berry	Shrub	1	2
	Creeping Juniper	Shrub	0	0
	Prairie Rose	Shrub	1	2
WVS-275	Silver Buffaloberry	Shrub	4	8
	Chokecherry	Shrub	2	4
	Snow Berry	Shrub	1	2
	Silver Sage Brush	Shrub	1	2
	Prairie Rose	Shrub	5	10
WVS-276	Snow Berry	Shrub	1	2
	Prairie Rose	Shrub	2	4
WVS-277	Chokecherry	Shrub	17	34
	Prairie Rose	Shrub	8	16
	Silver Berry	Shrub	6	12
WVS-286	American Plum	Shrub	4	8
	Snow Berry	Shrub	1	2
	Prairie Rose	Shrub	7	14
WVS-294	Snow Berry	Shrub	1	2
	Chokecherry	Shrub	2	4
	Prairie Rose	Shrub	2	4
	Silver Buffaloberry	Shrub	0	0
WVS-296	Chokecherry	Shrub	0	0
	Silver Buffaloberry	Shrub	0	0
	Snow Berry	Shrub	3	6
	Prairie Rose	Shrub	1	2
	Silver Sage Brush	Shrub	0	0
WVS-299	Snow Berry	Shrub	1	2
	Silver Buffaloberry	Shrub	3	6
	Prairie Rose	Shrub	2	4
WVS-314	Snow Berry	Shrub	1	2
WVS-317	Silver Buffaloberry	Shrub	11	22

<b>Map ID</b>	<b>Species</b>	<b>Type</b>	<b>Number Individuals Removed</b>	<b>Minimum Number of Replacements*</b>
WVS-317	Snow Berry	Shrub	1	2
	Prairie Rose	Shrub	2	4
WVS-323	Silver Buffaloberry	Shrub	34	68
	Chokecherry	Shrub	8	16
WVS-325	Fireberry Hawthorn	Shrub	120	240
WVS-325	Chokecherry	Shrub	70	140
	Silver Buffaloberry	Shrub	73	146
	Silver Sage Brush	Shrub	9	18
WVS-330	Snow Berry	Shrub	1	2
	Chokecherry	Shrub	2	4
	Prairie Rose	Shrub	26	52
	Silver Sage Brush	Shrub	3	6
WVS-331	Chokecherry	Shrub	80	160
	Snow Berry	Shrub	1	2
	Fireberry Hawthorn	Shrub	58	116
	Saskatoon Serviceberry	Shrub	6	12
	Silver Sage Brush	Shrub	15	30
WVS-333	Silver Sage Brush	Shrub	22	44
	Chokecherry	Shrub	4	8
	Fireberry Hawthorn	Shrub	6	12
	Snow Berry	Shrub	1	2
	Prairie Rose	Shrub	5	10
WVS-338	Chokecherry	Shrub	35	70
	Snow Berry	Shrub	1	2
	Silver Buffaloberry	Shrub	7	14
WVS-346	Snow Berry	Shrub	1	2
	Prairie Rose	Shrub	2	4
WVS-347	Silver Sage Brush	Shrub	22	44
	Prairie Rose	Shrub	0	0
WVS-348	Silver Sage Brush	Shrub	4	8
	Snow Berry	Shrub	1	2
	Prairie Rose	Shrub	2	4

<b>Map ID</b>	<b>Species</b>	<b>Type</b>	<b>Number Individuals Removed</b>	<b>Minimum Number of Replacements*</b>
WVS-358	Snow Berry	Shrub	1	2
	Prairie Rose	Shrub	10	20
	Silver Sage Brush	Shrub	4	8
WVS-359	Snow Berry	Shrub	1	2
	Silver Sage Brush	Shrub	18	36
	Prairie Rose	Shrub	8	16
	Silver Sage Brush	Shrub	2	4
WVS-383	Silver Sage Brush	Shrub	2	4
WVS-383	Prairie Rose	Shrub	4	8
	Snow Berry	Shrub	4	8
	Silver Buffaloberry	Shrub	0	0
WVS-385	Prairie Rose	Shrub	9	18
	Snow Berry	Shrub	1	2
	Silver			
	Buffaloberry	Shrub	11	22
<b>Total</b>			<b>1192</b>	<b>2384</b>

\*PSC Minimum Required Replacement Ratio 2:1