

# **The Trail Inventory of Lee Metcalf NWR Stevensville, MT**



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Federal Highway Administration  
Central Federal Lands Highway Division  
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# Lee Metcalf NWR

## Trail and Trail Feature Summaries

Trail Miles and Percentages by Surface Type and Condition

Trail Surface Type	Excellent		Total
	Miles	%	Miles
Native	1.21	100%	1.21
Gravel	1.15	100%	1.15
Asphalt	0.95	100%	0.95
Boardwalk	0.02	100%	0.02
Total	3.33	100%	3.33

Trail Miles and Percentages by Trail Classification and Condition

Trail Classification	Excellent		Total
	Miles	%	Miles
TC3	2.36	100%	2.36
TC5	0.97	100%	0.97
Total	3.33	100%	3.33

\*Admin Roads are included in the inventory but are not rated for condition.

## Trail Features

Trail Number	Feature Type	Quantity	Grouped Feature	Milepost	Photo
T300	Trailhead	1	No	0.00	LEME_C2_0007
T300	Begin Section	1	No	0.09	LEME_C2_0008
T300	Bench	1	No	0.26	
T301	Trailhead	1	No	0.00	LEME_C2_0010
T301	Sign	3	Yes	0.07	LEME_C2_0636
T301	Bench	1	No	0.32	
T301	Sign	1	No	0.86	LEME_C2_0635
T302	Trailhead	1	No	0.00	LEME_C2_0638
T302	Culvert -lf	20	No	0.27	
T500	Sign	1	No	0.00	LEME_C2_0620
T500	Intersection	1	No	0.00	LEME_C2_0628
T500	Gate	1	No	0.00	LEME_C2_0617
T500	Trailhead	1	No	0.00	LEME_C2_0001
T500	Intersection	1	No	0.00	LEME_C2_0639
T500	Sign	1	No	0.00	LEME_C2_0619
T500	Sign	2	No	0.00	LEME_C2_0618
T500	Sign	1	No	0.01	LEME_C2_0621
T500	Sign	3	No	0.02	LEME_C2_0002
T500	Sign	1	No	0.02	LEME_C2_0622
T500	Water Control Struc	2	No	0.11	
T500	Lookout/Ob Deck	1	No	0.11	
T500	Culvert -lf	40	No	0.21	
T500	Bench	1	No	0.24	
T500	Culvert -lf	15	No	0.32	
T500	Intersection	1	No	0.33	LEME_C2_0641
T500	Intersection	1	No	0.35	LEME_C2_0625



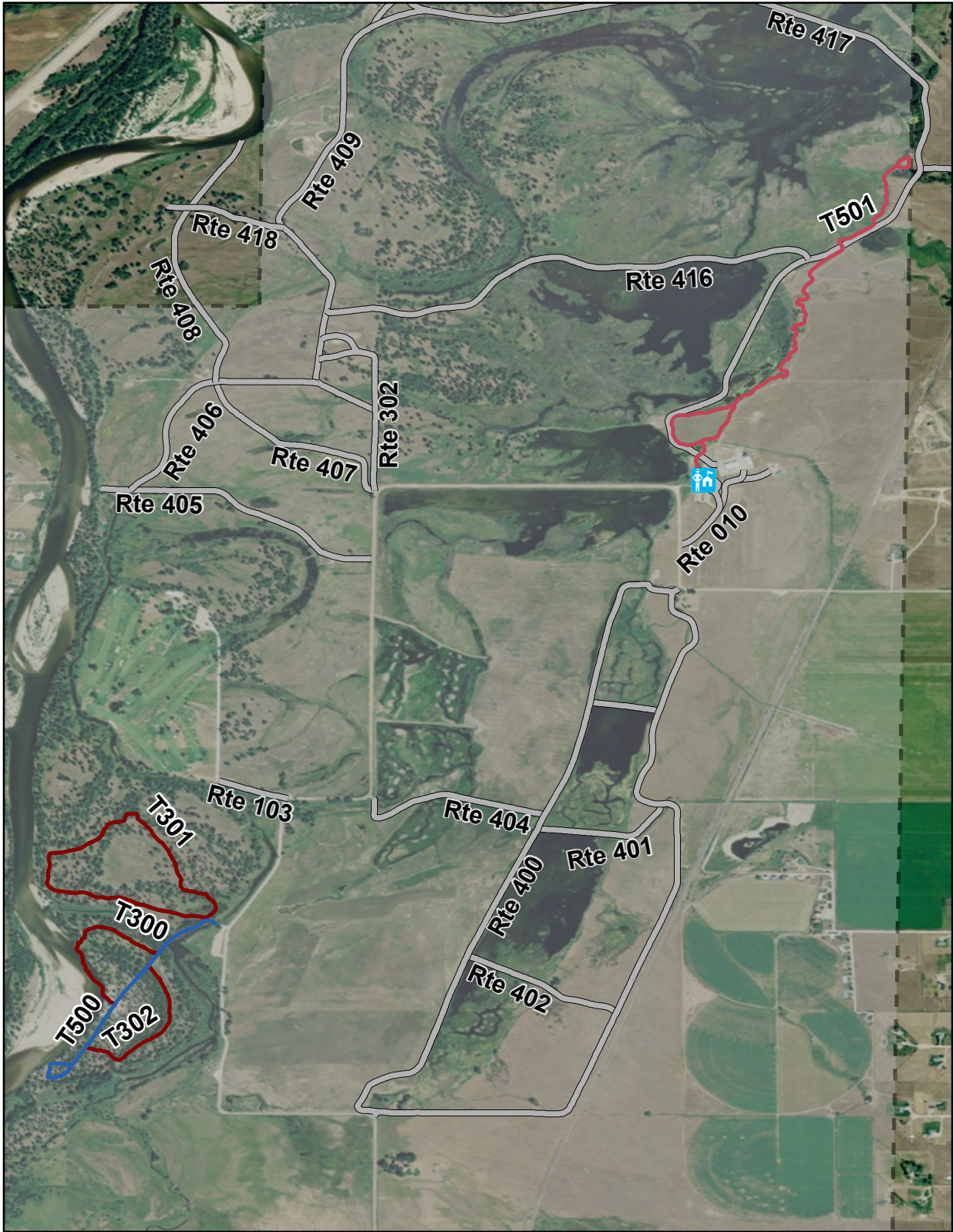
T500	Bench	1	No	0.35	
T500	Culvert -lf	15	No	0.41	
T500	Other	1	No	0.48	
T500	Bench	1	No	0.48	
T500	Bench	1	No	0.50	
T501	Other	1	No	0.00	LEME_C2_059 3
T501	Trailhead	1	No	0.00	LEME_C2_059 2
T501	Bench	3	No	0.01	
T501	Other	1	No	0.01	
T501	Sign	1	No	0.03	LEME_C2_059 8
T501	Bridge -sf	95	No	0.05	LEME_C2_060 0
T501	Bench	5	Yes	0.10	
T501	Bench	0	Yes	0.15	
T501	Bench	0	Yes	0.20	
T501	Other	1	No	0.27	
T501	Begin Section	1	No	0.29	LEME_C2_060 3
T501	Bench	0	Yes	0.31	
T501	Bench	0	Yes	0.36	
T501	Bridge -sf	60	No	0.36	LEME_C2_060 4
T501	Sign	1	No	0.38	LEME_C2_060 5
T501	Max Grade- %	30	No	0.57	
T501	Bench	1	No	0.63	
T501	Bridge -sf	120	No	0.67	LEME_C2_060 7
T501	Sign	1	No	0.81	LEME_C2_060 8
T501	Bench	1	No	0.83	
T501	Bench	1	No	0.91	
T501	Culvert -lf	25	No	0.91	
T501	Begin Section	1	No	1.02	LEME_C2_061 2
T501	Begin Section	1	No	1.04	LEME_C2_061 3
T501	Lookout/Ob Deck	1	No	1.06	
T501	Sign	1	No	1.08	LEME_C2_061 6

sf - square feet

lf - linear feet

cf - cubic feet

# Lee Metcalf NWR Trail Location Map



Station Boundary



HQ/VC

0 0.35 0.7 Miles

## Trails ID

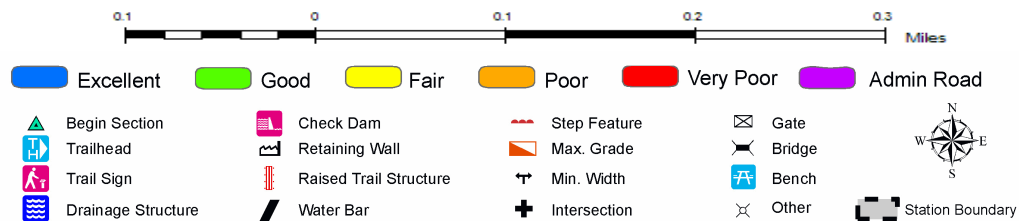
**Station Name:** Lee Metcalf NWR

**Org Code:** 61560

Trail Number	Trail Name	Surface Type	SAMMS	Trail Mileage	Trail Description (Begin and End point of trail)
T300	Cottonwood Trail	Native	10026675	0.35	From Metcalf Trail (T500) back to Metcalf Trail (T500)
T301	Ponderosa Trail	Native	10026675	0.86	From Metcalf Trail (T500) at sign to end of trail loop
T302	Slough Trail	Gravel		0.33	From Metcalf Trail (T500) to Metcalf Trail (T500)
T500	Metcalf Trail	Asphalt	10053964	0.56	From Nature Trails Parking (Rte 912) to end of trail loop
T501	Kenai Nature Trail	Asphalt		0.39	From Parking Lot (Rt. 914) to End of Trail
T501	Kenai Nature Trail	Boardwalk		0.02	From Parking Lot (Rt. 914) to End of Trail
T501	Kenai Nature Trail	Gravel		0.82	From Parking Lot (Rt. 914) to End of Trail



## TRAIL CONDITION



**Trail Name:** Cottonwood Trail  
**Trail Number:** T300

**Refuge Name:** Lee Metcalf NWR  
**Region:** 6

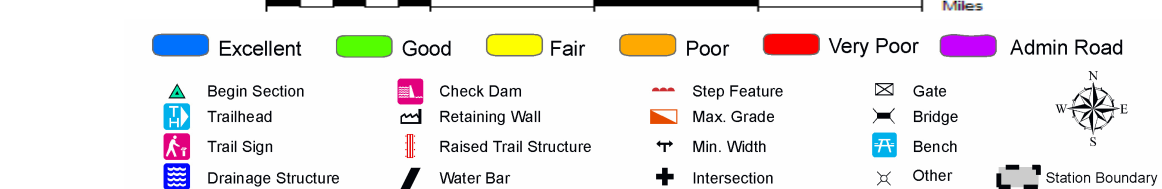
**Total Length:** 0.35 Miles

Section Number	001	002
Section Length (miles)	0.09	0.26
SAMMS Number	10026675	10026675
Rating Date	07/14/2007	07/14/2007
<b>Trail Section Information</b>		
Trail Class	TC3	TC3
Surface Type	Native	Native
Surface Firmness	Hard	Hard
Width (inches)	36	36
Average Grade (%)	1.6	1.6
Average X-slope (%)	2.80	2.80
<b>Trail Condition Information</b>		
Deferred Maintenance		
CRV	\$5,986	\$17,286
FCI	0.00	0.00
Condition	Excellent	Excellent

### Trail Condition TOTALS

Deferred Maintenance	CRV	FCI	Condition
	\$23,271	0.00	Excellent

## TRAIL CONDITION



**Trail Name:** Ponderosa Trail  
**Trail Number:** T301

**Refuge Name:** Lee Metcalf NWR  
**Region:** 6

**Total Length:** 0.86 Miles

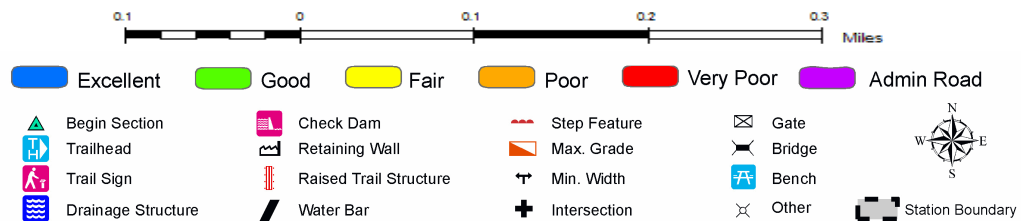
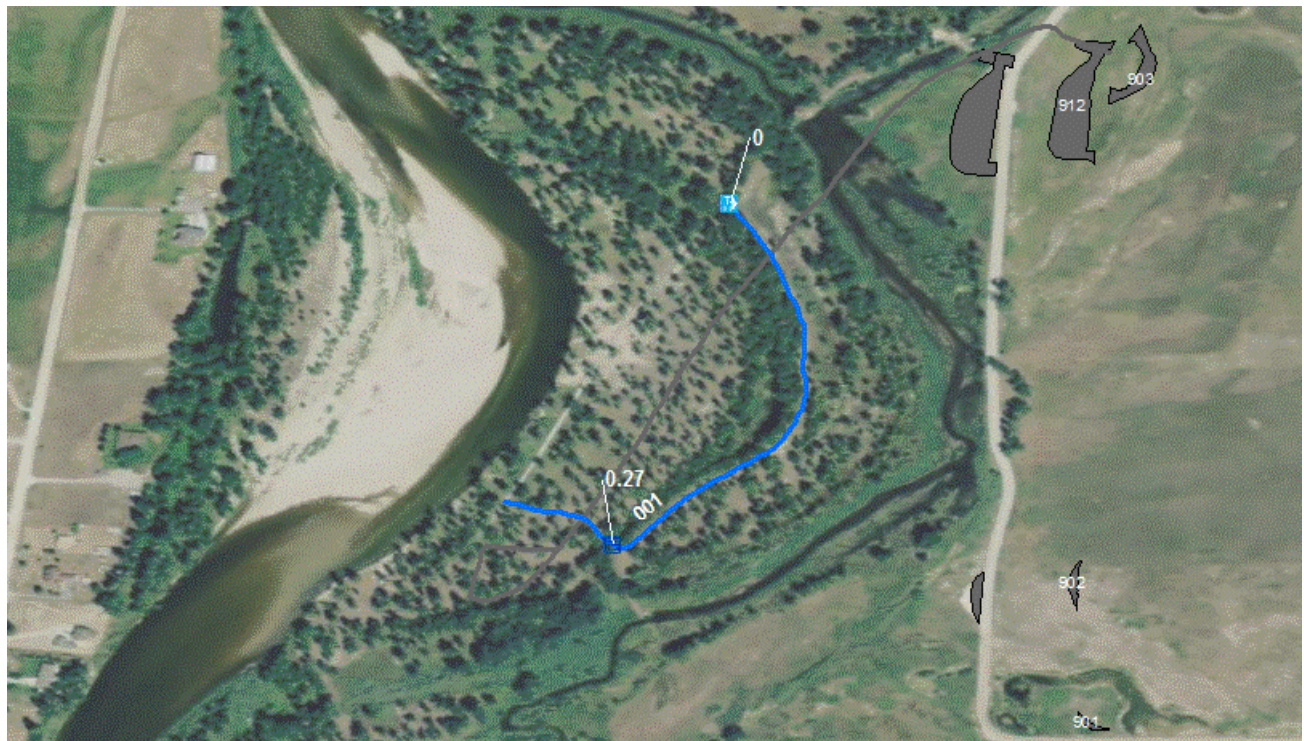
Section Number	001
Section Length (miles)	0.86
SAMMS Number	10026675
Rating Date	07/14/2007
<b>Trail Section Information</b>	
Trail Class	TC3
Surface Type	Native
Surface Firmness	Hard
Width (inches)	36
Average Grade (%)	2.0
Average X-slope (%)	1.30
<b>Trail Condition Information</b>	
Deferred Maintenance	
CRV	\$57,180
FCI	0.00
Condition	Excellent

### Trail Condition TOTALS

Deferred Maintenance	CRV	FCI	Condition
	\$57,180	0.00	Excellent



## TRAIL CONDITION



**Trail Name:** Slough Trail

**Refuge Name:** Lee Metcalf NWR

**Trail Number:** T302

**Region:** 6

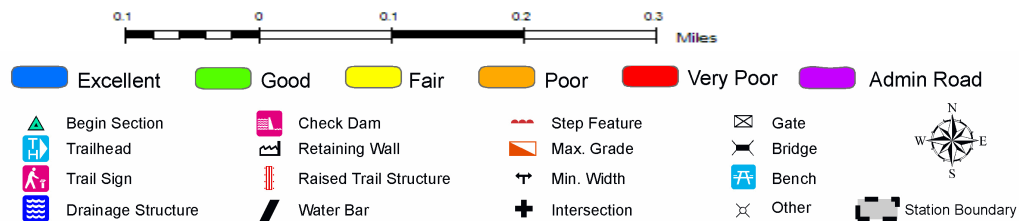
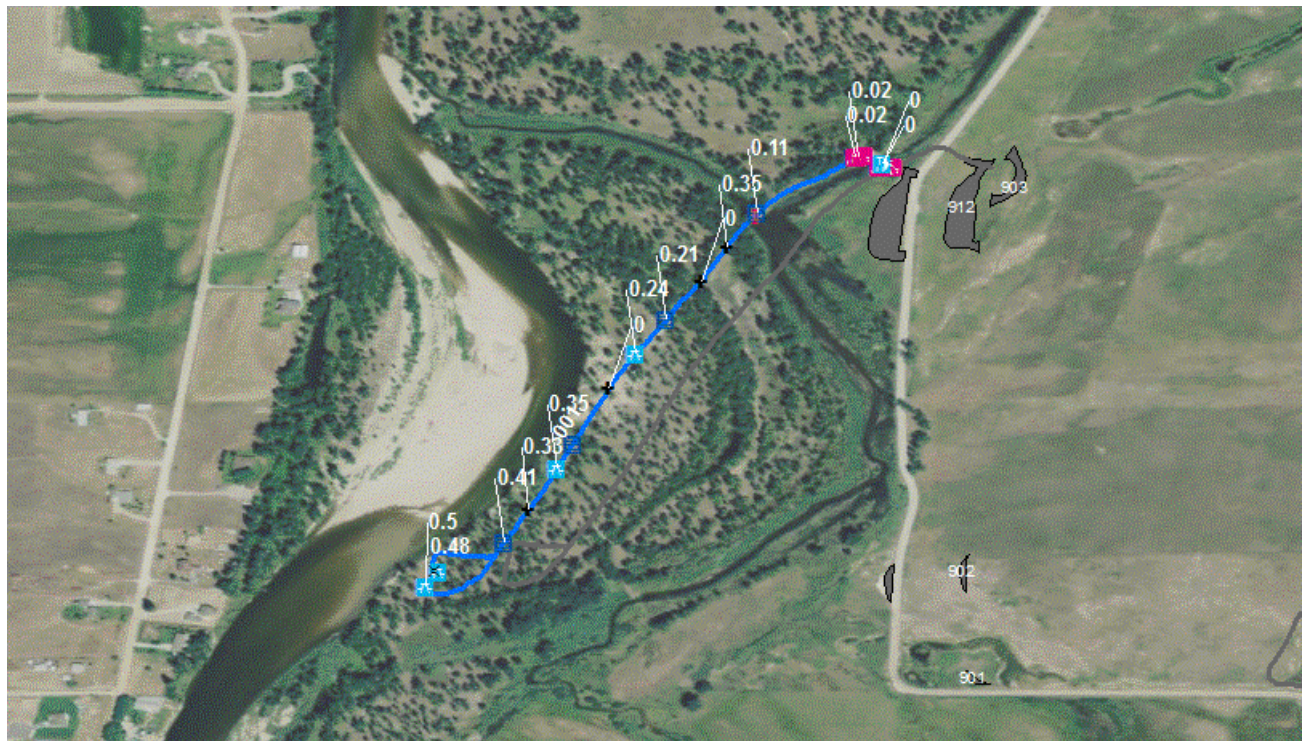
**Total Length:** 0.33 Miles

Section Number	001
Section Length (miles)	0.33
SAMMS Number	
Rating Date	07/14/2011
<b>Trail Section Information</b>	
Trail Class	TC3
Surface Type	Gravel
Surface Firmness	Hard
Width (inches)	60
Average Grade (%)	3.0
Average X-slope (%)	2.00
<b>Trail Condition Information</b>	
Deferred Maintenance	
CRV	\$39,894
FCI	0.00
Condition	Excellent

### Trail Condition TOTALS

Deferred Maintenance	CRV	FCI	Condition
	\$39,894	0.00	Excellent

## TRAIL CONDITION



**Trail Name:** Metcalf Trail  
**Trail Number:** T500

**Refuge Name:** Lee Metcalf NWR  
**Region:** 6

**Total Length:** 0.56 Miles

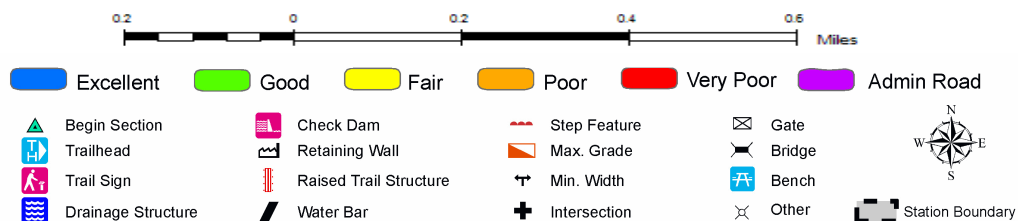
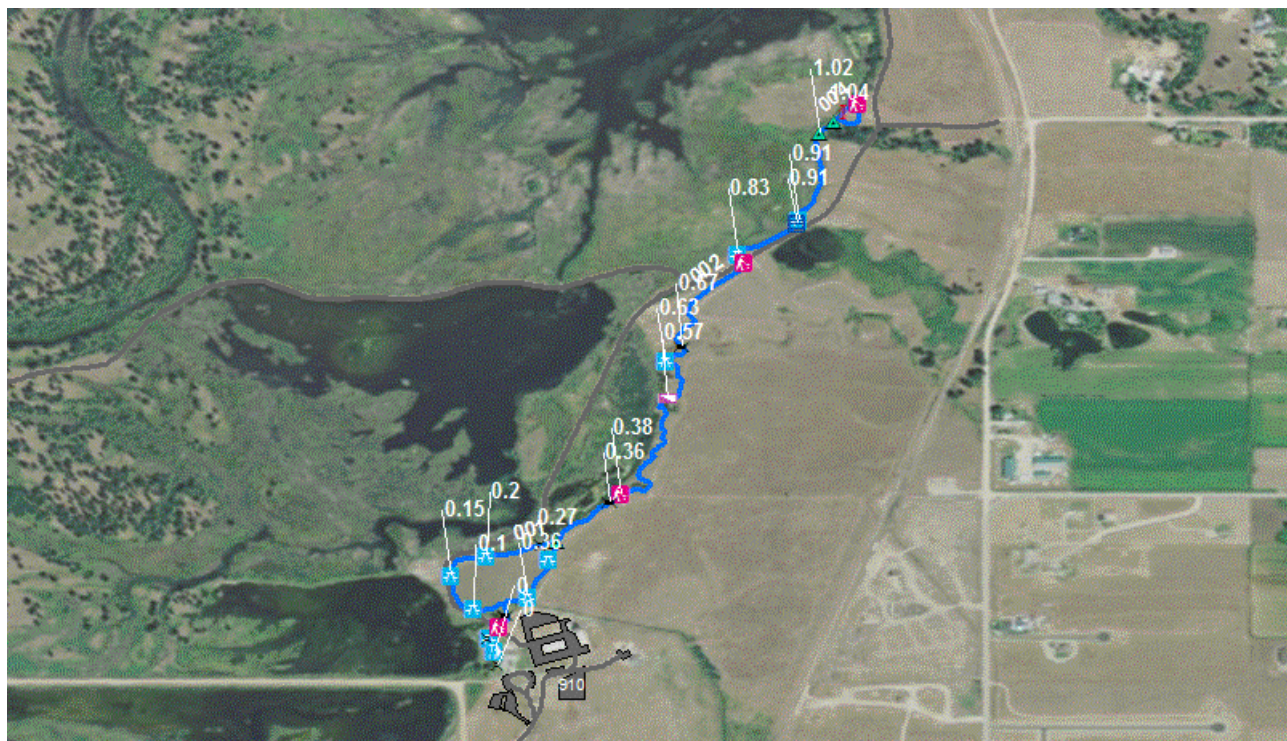
Section Number	001
Section Length (miles)	0.56
SAMMS Number	10053964
Rating Date	07/14/2007
<b>Trail Section Information</b>	
Trail Class	TC5
Surface Type	Asphalt
Surface Firmness	Hard
Width (inches)	96
Average Grade (%)	1.0
Average X-slope (%)	1.80
<b>Trail Condition Information</b>	
Deferred Maintenance	
CRV	\$138,906
FCI	0.00
Condition	Excellent

### Trail Condition TOTALS

Deferred Maintenance	CRV	FCI	Condition
	\$138,906	0.00	Excellent



## TRAIL CONDITION



**Trail Name:** Kenai Nature Trail

**Refuge Name:** Lee Metcalf NWR

**Trail Number:** T501

**Region:** 6

**Total Length:** 1.23 Miles

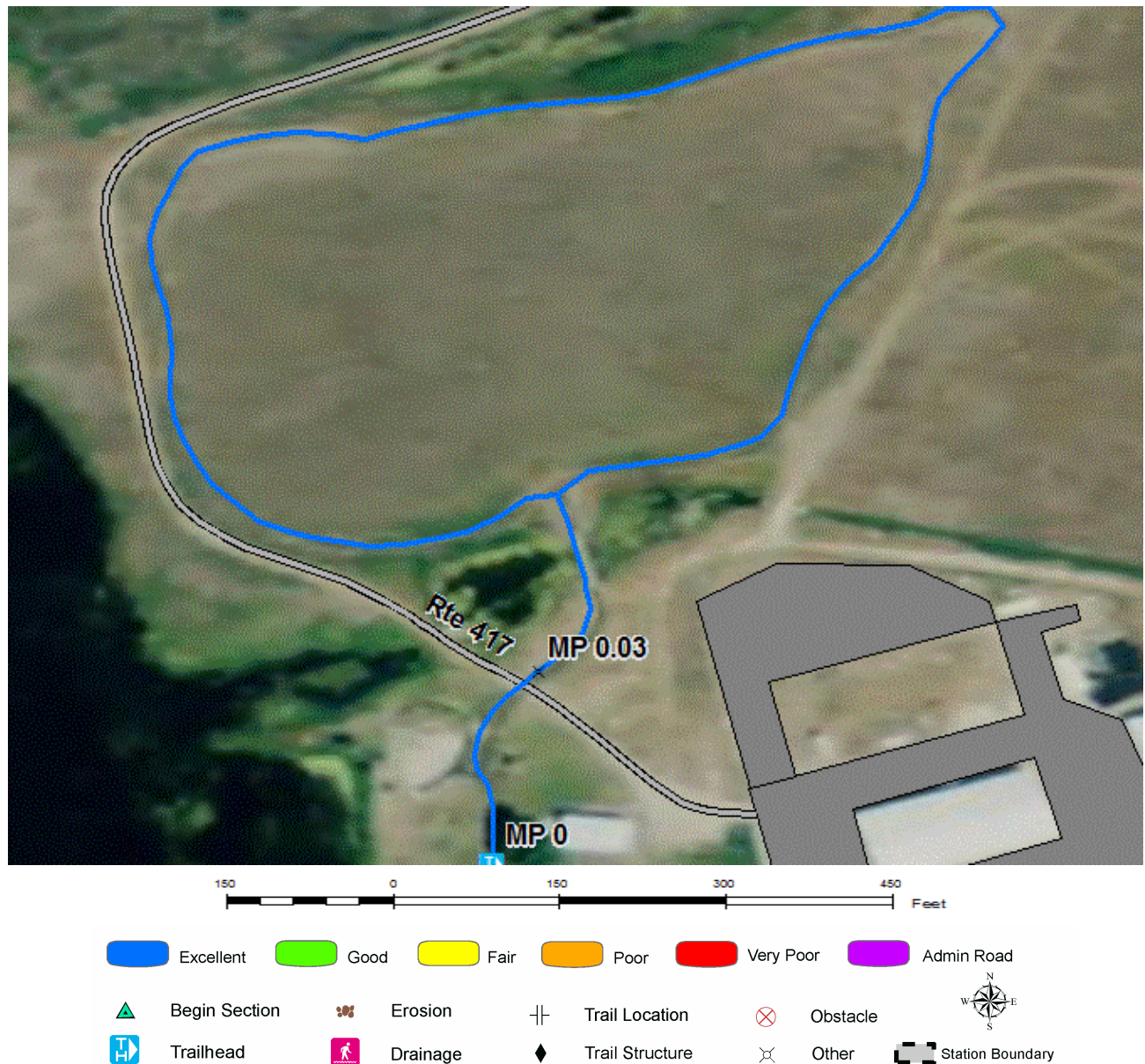
Section Number	001	002	003	004
Section Length (miles)	0.39	0.74	0.02	0.08
SAMMS Number				
Rating Date	07/14/2011	07/14/2011	07/14/2011	07/14/2011
<b>Trail Section Information</b>				
Trail Class	TC5	TC3	TC5	TC3
Surface Type	Asphalt	Gravel	Boardwalk	Gravel
Surface Firmness	Hard	Hard	Boardwalk	Hard
Width (inches)	66	30	48	30
Average Grade (%)	7.8	7.8	7.8	7.8
Average X-slope (%)	4.50	4.50	4.50	4.50
<b>Trail Condition Information</b>				
Deferred Maintenance	\$45			
CRV	\$66,511	\$44,730	\$9,577	\$4,836
FCI	0.00	0.00	0.00	0.00
Condition	Excellent	Excellent	Excellent	Excellent

### Trail Condition TOTALS

Deferred Maintenance	CRV	FCI	Condition
\$45	\$125,653	0.00	Excellent



## TRAIL DEFICIENCY



**Trail Name:** Kenai Nature Trail

**Refuge Name:** Lee Metcalf NWR

**Trail Number:** T501

**Region:** 6

**Total Length:** 1.23 Miles

Mile Post	0.03
Section Number	001
Photo Number	LEME_C2_0599
Deficiency	Other
Action	Repair
Item	Tread -sf
Quantity	1
Deferred Maintenance	\$45



## PHOTOGRAPHIC SHEET

TRAIL NUMBER: T300  
STATION: Lee Metcalf NWR  
DATE: 07/14/2007



Photo # LEME\_C2\_0007 - MP 0.00 - Trailhead

TRAIL NUMBER: T300  
STATION: Lee Metcalf NWR  
DATE: 07/14/2007



Photo # LEME\_C2\_0008 - MP 0.09 - Begin Section



## PHOTOGRAPHIC SHEET

TRAIL NUMBER: T301  
STATION: Lee Metcalf NWR  
DATE: 07/14/2007



Photo # LEME\_C2\_0010 - MP 0.00 - Trailhead

TRAIL NUMBER: T301  
STATION: Lee Metcalf NWR  
DATE: 07/14/2011



Photo # LEME\_C2\_0636 - MP 0.07 - Sign

## PHOTOGRAPHIC SHEET

TRAIL NUMBER: T301  
STATION: Lee Metcalf NWR  
DATE: 07/14/2011



Photo # LEME\_C2\_0635 - MP 0.86 - Sign

TRAIL NUMBER: T302  
STATION: Lee Metcalf NWR  
DATE: 07/14/2011



Photo # LEME\_C2\_0638 - MP 0.00 - Trailhead



## PHOTOGRAPHIC SHEET

TRAIL NUMBER: T500

STATION: Lee Metcalf NWR

DATE: 07/14/2011



Photo # LEME\_C2\_0618 - MP 0.00 - Sign

TRAIL NUMBER: T500

STATION: Lee Metcalf NWR

DATE: 07/14/2011



Photo # LEME\_C2\_0619 - MP 0.00 - Sign

## PHOTOGRAPHIC SHEET

TRAIL NUMBER: T500

STATION: Lee Metcalf NWR

DATE: 07/14/2011



Photo # LEME\_C2\_0620 - MP 0.00 - Sign

TRAIL NUMBER: T500

STATION: Lee Metcalf NWR

DATE: 07/14/2011



Photo # LEME\_C2\_0639 - MP 0.00 - Intersection



## PHOTOGRAPHIC SHEET

TRAIL NUMBER: T500  
STATION: Lee Metcalf NWR  
DATE: 07/14/2007



Photo # LEME\_C2\_0001 - MP 0.00 - Trailhead

TRAIL NUMBER: T500  
STATION: Lee Metcalf NWR  
DATE: 07/14/2007



Photo # LEME\_C2\_0617 - MP 0.00 - Gate

## PHOTOGRAPHIC SHEET

TRAIL NUMBER: T500

STATION: Lee Metcalf NWR

DATE: 07/14/2007



Photo # LEME\_C2\_0628 - MP 0.00 - Intersection

TRAIL NUMBER: T500

STATION: Lee Metcalf NWR

DATE: 07/14/2011

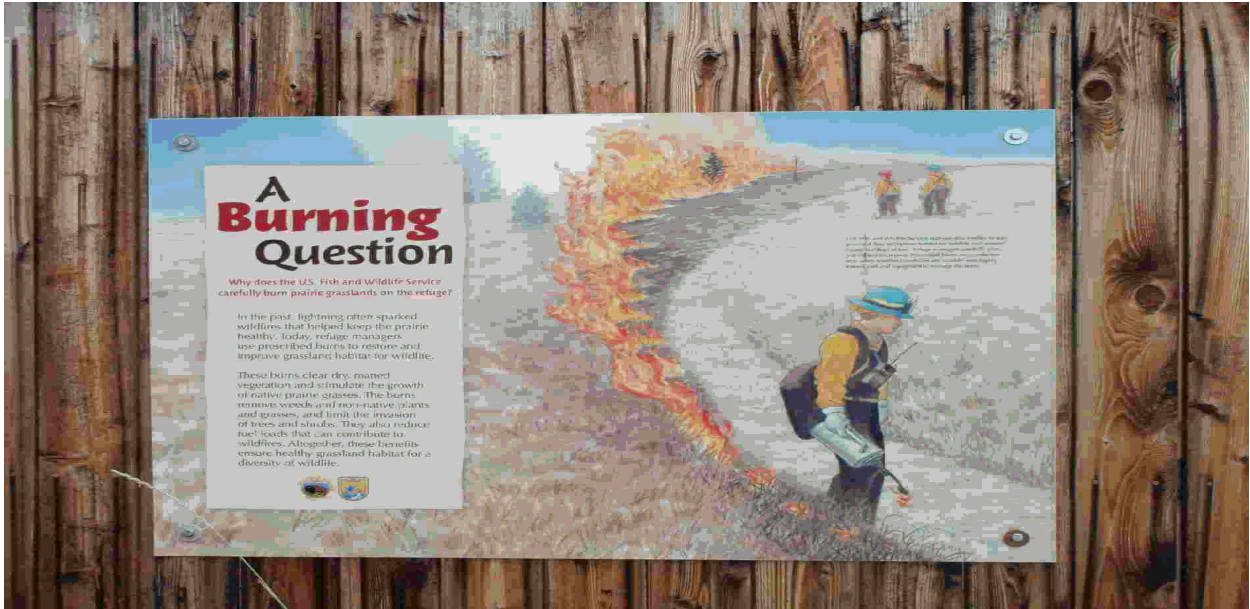


Photo # LEME\_C2\_0621 - MP 0.01 - Sign



## PHOTOGRAPHIC SHEET

TRAIL NUMBER: T500

STATION: Lee Metcalf NWR

DATE: 07/14/2011



Photo # LEME\_C2\_0622 - MP 0.02 - Sign

TRAIL NUMBER: T500

STATION: Lee Metcalf NWR

DATE: 07/14/2007



Photo # LEME\_C2\_0002 - MP 0.02 - Sign

## PHOTOGRAPHIC SHEET

TRAIL NUMBER: T500  
STATION: Lee Metcalf NWR  
DATE: 07/14/2011



Photo # LEME\_C2\_0641 - MP 0.33 - Intersection

TRAIL NUMBER: T500  
STATION: Lee Metcalf NWR  
DATE: 07/14/2007



Photo # LEME\_C2\_0625 - MP 0.35 - Intersection



## PHOTOGRAPHIC SHEET

TRAIL NUMBER: T501  
STATION: Lee Metcalf NWR  
DATE: 07/14/2011



Photo # LEME\_C2\_0592 - MP 0.00 - Trailhead

TRAIL NUMBER: T501  
STATION: Lee Metcalf NWR  
DATE: 07/14/2011



Photo # LEME\_C2\_0593 - MP 0.00 - Other

## PHOTOGRAPHIC SHEET

TRAIL NUMBER: T501  
STATION: Lee Metcalf NWR  
DATE: 07/14/2011



Photo # LEME\_C2\_0598 - MP 0.03 - Sign

TRAIL NUMBER: T501  
STATION: Lee Metcalf NWR  
DATE: 07/14/2011



Photo # LEME\_C2\_0600 - MP 0.05 - Bridge -sf



## PHOTOGRAPHIC SHEET

TRAIL NUMBER: T501  
STATION: Lee Metcalf NWR  
DATE: 07/14/2011



Photo # LEME\_C2\_0603 - MP 0.29 - Begin Section

TRAIL NUMBER: T501  
STATION: Lee Metcalf NWR  
DATE: 07/14/2011



Photo # LEME\_C2\_0604 - MP 0.36 - Bridge -sf

## PHOTOGRAPHIC SHEET

TRAIL NUMBER: T501  
STATION: Lee Metcalf NWR  
DATE: 07/14/2011



Photo # LEME\_C2\_0605 - MP 0.38 - Sign

TRAIL NUMBER: T501  
STATION: Lee Metcalf NWR  
DATE: 07/14/2011



Photo # LEME\_C2\_0607 - MP 0.67 - Bridge -sf



## PHOTOGRAPHIC SHEET

TRAIL NUMBER: T501  
STATION: Lee Metcalf NWR  
DATE: 07/14/2011



Photo # LEME\_C2\_0608 - MP 0.81 - Sign

TRAIL NUMBER: T501  
STATION: Lee Metcalf NWR  
DATE: 07/14/2011



Photo # LEME\_C2\_0612 - MP 1.02 - Begin Section

## PHOTOGRAPHIC SHEET

TRAIL NUMBER: T501  
STATION: Lee Metcalf NWR  
DATE: 07/14/2011



Photo # LEME\_C2\_0613 - MP 1.04 - Begin Section

TRAIL NUMBER: T501  
STATION: Lee Metcalf NWR  
DATE: 07/14/2011



Photo # LEME\_C2\_0616 - MP 1.08 - Sign



## Glossary of Terms and Abbreviations

<b>Acc Info</b>	Accessibility information available at trailhead.
<b>Action</b>	Action required to correct deficiency.
<b>Admin Road</b>	Administration Road. Admin Roads signed and advertised as trails are included in the trail inventory but a condition assessment is NOT done.
<b>Alt SAMMS</b>	SAMMS number of Alternate Facility Type.
<b>Alt Type</b>	Alternate Facility Type. Trail lies on a feature such as a levee, dam, administrative road or bridge, which has a separate SAMMS number.
<b>AvgGrade</b>	The average grade of the trail (%). The average of five measurements for trails less than two miles and ten measurements for trails equal to or greater than 2 miles.
<b>AvgSlope</b>	The average cross-slope of the trail (%). The average of five measurements for trails less than two miles and ten measurements for trails equal to or greater than 2 miles.
<b>Check Dam</b>	A small dam constructed across a drainage ditch, swale, or channel to lower the speed of concentrated flows.
<b>Condition</b>	Subjective rating of trail based on Facility Condition Index (FCI): FCI $\leq$ .01 = Excellent FCI .02 - .05 = Good FCI .06 - .10 = Fair FCI .11 - .20 = Poor FCI $>$ .20 = Failed
<b>Crib Wall</b>	Retaining wall.
<b>Current Replacement Value (CRV)</b>	The value of an asset determined by the estimated cost of replacing it.
<b>Def type</b>	Deficiency Type: Trail Structure, Drainage, Erosion, Obstacle, Trail Location, Other.
<b>Deferred Maintenance (DM)</b>	Maintenance that was not performed when scheduled.

<b>Elem ID</b>	Unique identifier for each trail section: Org Code-Trail Number-Section Number.
<b>Facility Condition Index (FCI)</b>	DM/CRV
<b>Grouped Features</b>	Grouped features include non-unique signs (mileposts, interpretive signs, species identification, etc.), water bars, check dams, steps, drain and drainage dips. For any given grouped feature, a GPS point and photo are taken for the first occurrence only and the total number of features in the group are entered into the “quantity” field of the data dictionary.
<b>Info Type</b>	Type of accessibility information available at trailhead: brochure, sign or other.
<b>Item</b>	Item on which the “Action” (see above) will be performed.
<b>Manage_Use</b>	Managed use of the trail: HIKE, BIKE, NSPC (non-specified), PACK, POR (portage), SNOWSHOE, XSKI (cross-country ski), OTHER.
<b>MP</b>	Distance of a trail feature or deficiency from the Trailhead.
<b>Puncheon</b>	Log footbridge used in area of poor drainage.
<b>Raised Trail Structure</b>	Boardwalk, Turnpike, Puncheon.
<b>T Class</b>	Trail Class: I-V (see Appendix ? for trail class descriptions).
<b>Tr Desig</b>	Trail Designation: Standard (Std), National Historic Trail (NHT), National Recreation Trail (NRT), National Scenic Trail (NST).
<b>Turnpike</b>	Trail tread elevated with dirt, rock or other aggregate from parallel side ditches and held in place by logs.