



Stream Geomorphic Assessment

Agency of Natural Resources



Vermont.gov
July, 17 2024

Phase 2 - FIT - Legacy Data Report

Lewis Creek

SGAT Version: **4.56**

Reach: **M19 -A**

<u>Step</u>	<u>Description</u>	<u>Value</u>	<u>Step</u>	<u>Description</u>	<u>Value</u>
1.2	Alluvial Fan:	None	4.4	Number of Debris Jams:	0
1.3	<u>Encroachments - Side</u>	<u>One</u>	4.5	Flow Regulation Type:	None
		<u>Both</u>		Use:	
	Berm Length (ft.):	0.0	4.7	Stormwater Inputs	
	Path Length (ft.):	0.0		Overland Flow	Road Ditch
	Road Length (ft.):	33.7		Field Ditch	Tile Drain
	Railroad Lenth (ft.):	0.0		Other	Ub Strm Wtr Pipe
	Development Length:	341.2	4.9	Beaver Dams:	1
3.1	<u>Erosion - Bank</u>	<u>Left</u>		Affected length (ft.):	100.0
	Erosion Length (ft.):	578.9	5.2	Migration Features	
	Erosion Height (ft.):	4.8		Flood Chutes:	0
	Revetment Type:	None		Neck Cutoffs:	0
		Rip-Rap		Channel Avulsions:	0
	Revetment length	0.0		Braiding:	0
3.2	<u>Buffer Less Than 25 ft.</u>	0	5.3	Steep Riffles and Head Cuts	
3.3	<u>Riparian Corridor</u>	<u>Left</u>		Steep Riffles:	0
	Mass Failures:			Head Cuts:	0
	Average Height (ft.):		5.4	Animal Crossings:	No
	Mass Failures:	None	5.5	Channel Alterations	
	Average Heigh (ft.):			Straightening:	Straightening
	Gullies:	None		Length (ft.):	371.8
	Number of Gullies			Dredging:	None
	Total Length of Gullies (ft.):				
	Average Height of Gullies				



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Reach: **M19 -B**

<u>Step</u>	<u>Description</u>	<u>Value</u>
1.2	Alluvial Fan:	None
1.3	<u>Encroachments - Side</u>	<u>One</u> <u>Both</u>
	Berm Length (ft.):	0.0 0.0
	Path Length (ft.):	0.0 0.0
	Road Length (ft.):	1,693.1 1,335.0
	Railroad Lenth (ft.):	0.0 0.0
	Development Length:	0.0 72.1
3.1	<u>Erosion - Bank</u>	<u>Left</u> <u>Right</u>
	Erosion Length (ft.):	1,180.9 547.9
	Erosion Height (ft.):	3.5 4.2
	Revetment Type:	Rip-Rap Multiple
	Revetment length	841.4 1,207.0
3.2	<u>Buffer Less Than 25 ft.</u>	286 1150
3.3	<u>Riparian Corridor</u>	<u>Left</u> <u>Right</u>
	Mass Failures:	
	Average Height (ft.):	
	Mass Failures:	None
	Average Heigh (ft.):	
	Gullies:	None
	Number of Gullies	
	Total Length of Gullies (ft.):	
	Average Height of Gullies	

<u>Step</u>	<u>Description</u>	<u>Value</u>
4.4	Number of Debris Jams:	1
4.5	Flow Regulation Type:	Small Withdrawal
	Use:	Other
4.7	Stormwater Inputs	
	Overland Flow	Road Ditch
	Field Ditch	Tile Drain
	Other	Ub Strm Wtr Pipe
4.9	Beaver Dams:	4
	Affected length (ft.):	300.0
5.2	Migration Features	
	Flood Chutes:	0
	Neck Cutoffs:	1
	Channel Avulsions:	0
	Braiding:	0
5.3	Steep Riffles and Head Cuts	
	Steep Riffles:	0
	Head Cuts:	0
5.4	Animal Crossings:	Yes
5.5	Channel Alterations	
	Straightening:	Straightening
	Length (ft.):	6,407.9
	Dredging:	Gravel Mining



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SGAT Version: **4.56**

Reach: **T6.06 -C**

<u>Step</u>	<u>Description</u>	<u>Value</u>		<u>Step</u>	<u>Description</u>	<u>Value</u>
1.2	Alluvial Fan:	None		4.4	Number of Debris Jams:	0
1.3	<u>Encroachments - Side</u>	<u>One</u>	<u>Both</u>	4.5	Flow Regulation Type:	None
	Berm Length (ft.):	0.0	0.0		Use:	
	Path Length (ft.):	0.0	0.0	4.7	Stormwater Inputs	
	Road Length (ft.):	1,917.7	0.0	Overland Flow	Road Ditch	
	Railroad Lenth (ft.):	0.0	0.0	Field Ditch	Tile Drain	
	Development Length:	114.9	0.0	Other	Ub Strm Wtr Pipe	
3.1	<u>Erosion - Bank</u>	<u>Left</u>	<u>Right</u>	4.9	Beaver Dams:	0
	Erosion Length (ft.):	0.0	0.0		Affected length (ft.):	0.0
	Erosion Height (ft.):	0.0	0.0	5.2	Migration Features	
	Revetment Type:	None	None	Flood Chutes:	0	
	Revetment length	0.0	0.0	Neck Cutoffs:	0	
3.2	<u>Buffer Less Than 25 ft.</u>	0	0	Channel Avulsions:	0	
3.3	<u>Riparian Corridor</u>	<u>Left</u>	<u>Right</u>	Braiding:	0	
	Mass Failures:			5.3	Steep Riffles and Head Cuts	
	Average Height (ft.):			Steep Riffles:	0	
	Mass Failures:	None		Head Cuts:	0	
	Average Heigh (ft.):			5.4	Animal Crossings:	Yes
	Gullies:	None		5.5	Channel Alterations	
	Number of Gullies			Straightening:	None	
	Total Length of Gullies (ft.):			Length (ft.):	0.0	
	Average Height of Gullies			Dredging:	None	



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Reach: **T6.05 -A**

<u>Step</u>	<u>Description</u>	<u>Value</u>	<u>Step</u>	<u>Description</u>	<u>Value</u>
1.2	Alluvial Fan:	None	4.4	Number of Debris Jams:	11
1.3	<u>Encroachments - Side</u>	<u>One</u>	4.5	Flow Regulation Type:	None
		<u>Both</u>		Use:	
	Berm Length (ft.):	0.0	4.7	Stormwater Inputs	
	Path Length (ft.):	0.0		Overland Flow	Road Ditch
	Road Length (ft.):	0.0		Field Ditch	Tile Drain
	Railroad Lenth (ft.):	0.0		Other	Ub Strm Wtr Pipe
	Development Length:	0.0	4.9	Beaver Dams:	0
3.1	<u>Erosion - Bank</u>	<u>Left</u>		Affected length (ft.):	0.0
	Erosion Length (ft.):	0.0	5.2	Migration Features	
	Erosion Height (ft.):	0.0		Flood Chutes:	4
	Revetment Type:	None		Neck Cutoffs:	0
	Revetment length	0.0		Channel Avulsions:	1
3.2	<u>Buffer Less Than 25 ft.</u>	0		Braiding:	0
3.3	<u>Riparian Corridor</u>	<u>Left</u>	5.3	Steep Riffles and Head Cuts	
	Mass Failures:			Steep Riffles:	0
	Average Height (ft.):			Head Cuts:	0
	Mass Failures:	None	5.4	Animal Crossings:	No
	Average Heigh (ft.):		5.5	Channel Alterations	
	Gullies:	None		Straightening:	None
	Number of Gullies			Length (ft.):	0.0
	Total Length of Gullies (ft.):			Dredging:	None
	Average Height of Gullies				



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Reach: **M12 -B**

<u>Step</u>	<u>Description</u>	<u>Value</u>
1.2	Alluvial Fan:	None
1.3	<u>Encroachments - Side</u>	<u>One</u> <u>Both</u>
	Berm Length (ft.):	0.0 0.0
	Path Length (ft.):	0.0 0.0
	Road Length (ft.):	0.0 0.0
	Railroad Lenth (ft.):	0.0 0.0
	Development Length:	0.0 75.2
3.1	<u>Erosion - Bank</u>	<u>Left</u> <u>Right</u>
	Erosion Length (ft.):	161.4 0.0
	Erosion Height (ft.):	8.0 0.0
	Revetment Type:	Rip-Rap Rip-Rap
	Revetment length	72.0 87.8
3.2	<u>Buffer Less Than 25 ft.</u>	314 772
3.3	<u>Riparian Corridor</u>	<u>Left</u> <u>Right</u>
	Mass Failures:	
	Average Height (ft.):	
	Mass Failures:	None
	Average Heigh (ft.):	
	Gullies:	Multiple
	Number of Gullies	2
	Total Length of Gullies (ft.):	45.0
	Average Height of Gullies	5.5

<u>Step</u>	<u>Description</u>	<u>Value</u>
4.4	Number of Debris Jams:	0
4.5	Flow Regulation Type:	None
	Use:	
4.7	Stormwater Inputs	
	Overland Flow	Road Ditch
	Field Ditch	Tile Drain
	Other	Ub Strm Wtr Pipe
4.9	Beaver Dams:	0
	Affected length (ft.):	0.0
5.2	Migration Features	
	Flood Chutes:	0
	Neck Cutoffs:	0
	Channel Avulsions:	0
	Braiding:	0
5.3	Steep Riffles and Head Cuts	
	Steep Riffles:	0
	Head Cuts:	0
5.4	Animal Crossings:	No
5.5	Channel Alterations	
	Straightening:	Straightening
	Length (ft.):	437.3
	Dredging:	None



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SGAT Version: **4.56**

Reach: **T6.03 -B**

<u>Step</u>	<u>Description</u>	<u>Value</u>	
1.2	Alluvial Fan:	None	
1.3	<u>Encroachments - Side</u>	<u>One</u>	<u>Both</u>
	Berm Length (ft.):	0.0	0.0
	Path Length (ft.):	0.0	0.0
	Road Length (ft.):	0.0	0.0
	Railroad Lenth (ft.):	0.0	0.0
	Development Length:	0.0	0.0
3.1	<u>Erosion - Bank</u>	<u>Left</u>	<u>Right</u>
	Erosion Length (ft.):	153.5	218.1
	Erosion Height (ft.):	3.8	3.1
	Revetment Type:	Other	None
	Revetment length	62.4	0.0
3.2	<u>Buffer Less Than 25 ft.</u>	0	0
3.3	<u>Riparian Corridor</u>	<u>Left</u>	<u>Right</u>
	Mass Failures:		
	Average Height (ft.):		
	Mass Failures:	None	
	Average Heigh (ft.):		
	Gullies:	None	
	Number of Gullies		
	Total Length of Gullies (ft.):		
	Average Height of Gullies		

<u>Step</u>	<u>Description</u>	<u>Value</u>
4.4	Number of Debris Jams:	1
4.5	Flow Regulation Type:	None
	Use:	
4.7	Stormwater Inputs	
	Overland Flow	Road Ditch
	Field Ditch	Tile Drain
	Other	Ub Strm Wtr Pipe
4.9	Beaver Dams:	0
	Affected length (ft.):	0.0
5.2	Migration Features	
	Flood Chutes:	2
	Neck Cutoffs:	0
	Channel Avulsions:	0
	Braiding:	0
5.3	Steep Riffles and Head Cuts	
	Steep Riffles:	0
	Head Cuts:	0
5.4	Animal Crossings:	Yes
5.5	Channel Alterations	
	Straightening:	None
	Length (ft.):	0.0
	Dredging:	None



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SGAT Version: **4.56**

Reach: **M21 -A**

<u>Step</u>	<u>Description</u>	<u>Value</u>	
1.2	Alluvial Fan:	None	
1.3	<u>Encroachments - Side</u>	<u>One</u>	<u>Both</u>
	Berm Length (ft.):	0.0	0.0
	Path Length (ft.):	334.7	0.0
	Road Length (ft.):	0.0	0.0
	Railroad Lenth (ft.):	0.0	0.0
	Development Length:	0.0	66.5
3.1	<u>Erosion - Bank</u>	<u>Left</u>	<u>Right</u>
	Erosion Length (ft.):	0.0	0.0
	Erosion Height (ft.):	0.0	0.0
	Revetment Type:	Rip-Rap	Rip-Rap
	Revetment length	57.3	58.5
3.2	<u>Buffer Less Than 25 ft.</u>	0	0
3.3	<u>Riparian Corridor</u>	<u>Left</u>	<u>Right</u>
	Mass Failures:	43.91	
	Average Height (ft.):	12.0	
	Mass Failures:	None	
	Average Heigh (ft.):		
	Gullies:	None	
	Number of Gullies		
	Total Length of Gullies (ft.):		
	Average Height of Gullies		

<u>Step</u>	<u>Description</u>	<u>Value</u>
4.4	Number of Debris Jams:	1
4.5	Flow Regulation Type:	None
	Use:	
4.7	Stormwater Inputs	
	Overland Flow 1	Road Ditch 0
	Field Ditch 0	Tile Drain 0
	Other 0	Ub Strm Wtr Pipe 0
4.9	Beaver Dams:	0
	Affected length (ft.):	0.0
5.2	Migration Features	
	Flood Chutes:	0
	Neck Cutoffs:	0
	Channel Avulsions:	1
	Braiding:	0
5.3	Steep Riffles and Head Cuts	
	Steep Riffles:	0
	Head Cuts:	0
5.4	Animal Crossings:	No
5.5	Channel Alterations	
	Straightening:	None
	Length (ft.):	0.0
	Dredging:	None



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SGAT Version: **4.56**

Reach: **M21 -A**

<u>Step</u>	<u>Description</u>	<u>Value</u>	
1.2	Alluvial Fan:	None	
1.3	<u>Encroachments - Side</u>	<u>One</u>	<u>Both</u>
	Berm Length (ft.):	0.0	0.0
	Path Length (ft.):	334.7	0.0
	Road Length (ft.):	0.0	0.0
	Railroad Lenth (ft.):	0.0	0.0
	Development Length:	0.0	66.5
3.1	<u>Erosion - Bank</u>	<u>Left</u>	<u>Right</u>
	Erosion Length (ft.):	0.0	0.0
	Erosion Height (ft.):	0.0	0.0
	Revetment Type:	Rip-Rap	Rip-Rap
	Revetment length	57.3	58.5
3.2	<u>Buffer Less Than 25 ft.</u>	0	0
3.3	<u>Riparian Corridor</u>	<u>Left</u>	<u>Right</u>
	Mass Failures:	43.91	
	Average Height (ft.):	12.0	
	Mass Failures:	None	
	Average Heigh (ft.):		
	Gullies:	None	
	Number of Gullies		
	Total Length of Gullies (ft.):		
	Average Height of Gullies		

<u>Step</u>	<u>Description</u>	<u>Value</u>
4.4	Number of Debris Jams:	1
4.5	Flow Regulation Type:	None
	Use:	
4.7	Stormwater Inputs	
	Overland Flow 0	Road Ditch 1
	Field Ditch 0	Tile Drain 0
	Other 0	Ub Strm Wtr Pipe 0
4.9	Beaver Dams:	0
	Affected length (ft.):	0.0
5.2	Migration Features	
	Flood Chutes:	0
	Neck Cutoffs:	0
	Channel Avulsions:	1
	Braiding:	0
5.3	Steep Riffles and Head Cuts	
	Steep Riffles:	0
	Head Cuts:	0
5.4	Animal Crossings:	No
5.5	Channel Alterations	
	Straightening:	None
	Length (ft.):	0.0
	Dredging:	None



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SGAT Version: 4.56

Reach: **M21 -B**

<u>Step</u>	<u>Description</u>	<u>Value</u>	
1.2	Alluvial Fan:	None	
1.3	<u>Encroachments - Side</u>	<u>One</u>	<u>Both</u>
	Berm Length (ft.):	0.0	0.0
	Path Length (ft.):	0.0	0.0
	Road Length (ft.):	0.0	0.0
	Railroad Lenth (ft.):	0.0	0.0
	Development Length:	101.5	0.0
3.1	<u>Erosion - Bank</u>	<u>Left</u>	<u>Right</u>
	Erosion Length (ft.):	650.0	953.0
	Erosion Height (ft.):	5.1	3.8
	Revetment Type:	None	Rip-Rap
	Revetment length	0.0	127.6
3.2	<u>Buffer Less Than 25 ft.</u>	0	543
3.3	<u>Riparian Corridor</u>	<u>Left</u>	<u>Right</u>
	Mass Failures:		
	Average Height (ft.):		
	Mass Failures:	None	
	Average Heigh (ft.):		
	Gullies:	None	
	Number of Gullies		
	Total Length of Gullies (ft.):		
	Average Height of Gullies		

<u>Step</u>	<u>Description</u>	<u>Value</u>
4.4	Number of Debris Jams:	6
4.5	Flow Regulation Type:	None
	Use:	
4.7	Stormwater Inputs	
	Overland Flow	Road Ditch
	Field Ditch	Tile Drain
	Other	Ub Strm Wtr Pipe
4.9	Beaver Dams:	0
	Affected length (ft.):	0.0
5.2	Migration Features	
	Flood Chutes:	1
	Neck Cutoffs:	3
	Channel Avulsions:	0
	Braiding:	0
5.3	Steep Riffles and Head Cuts	
	Steep Riffles:	0
	Head Cuts:	0
5.4	Animal Crossings:	Yes
5.5	Channel Alterations	
	Straightening:	Straightening
	Length (ft.):	617.9
	Dredging:	None



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SGAT Version: 4.56

Reach: **M16 -0**

<u>Step</u>	<u>Description</u>	<u>Value</u>	
1.2	Alluvial Fan:	None	
1.3	<u>Encroachments - Side</u>	<u>One</u>	<u>Both</u>
	Berm Length (ft.):	0.0	0.0
	Path Length (ft.):	0.0	0.0
	Road Length (ft.):	0.0	0.0
	Railroad Lenth (ft.):	0.0	0.0
	Development Length:	0.0	0.0
3.1	<u>Erosion - Bank</u>	<u>Left</u>	<u>Right</u>
	Erosion Length (ft.):	1,256.8	2,848.1
	Erosion Height (ft.):	5.9	6.0
	Revetment Type:	Other	Other
	Revetment length	379.7	835.2
3.2	<u>Buffer Less Than 25 ft.</u>	1961	2514
3.3	<u>Riparian Corridor</u>	<u>Left</u>	<u>Right</u>
	Mass Failures:		
	Average Height (ft.):		
	Mass Failures:	None	
	Average Heigh (ft.):		
	Gullies:	None	
	Number of Gullies		
	Total Length of Gullies (ft.):		
	Average Height of Gullies		

<u>Step</u>	<u>Description</u>	<u>Value</u>
4.4	Number of Debris Jams:	0
4.5	Flow Regulation Type:	None
	Use:	
4.7	Stormwater Inputs	
	Overland Flow	Road Ditch
	Field Ditch	Tile Drain
	Other	Ub Strm Wtr Pipe
4.9	Beaver Dams:	1
	Affected length (ft.):	1.0
5.2	Migration Features	
	Flood Chutes:	3
	Neck Cutoffs:	1
	Channel Avulsions:	1
	Braiding:	0
5.3	Steep Riffles and Head Cuts	
	Steep Riffles:	0
	Head Cuts:	0
5.4	Animal Crossings:	Yes
5.5	Channel Alterations	
	Straightening:	None
	Length (ft.):	0.0
	Dredging:	None



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SGAT Version: **4.56**

Reach: **M20 -A**

<u>Step</u>	<u>Description</u>	<u>Value</u>	<u>Step</u>	<u>Description</u>	<u>Value</u>
1.2	Alluvial Fan:	None	4.4	Number of Debris Jams:	0
1.3	<u>Encroachments - Side</u>	<u>One</u>	4.5	Flow Regulation Type:	None
		<u>Both</u>		Use:	
	Berm Length (ft.):	0.0	4.7	Stormwater Inputs	
	Path Length (ft.):	0.0		Overland Flow	Road Ditch
	Road Length (ft.):	173.8		Field Ditch	Tile Drain
	Railroad Lenth (ft.):	0.0		Other	Ub Strm Wtr Pipe
	Development Length:	0.0	4.9	Beaver Dams:	0
		73.3		Affected length (ft.):	0.0
3.1	<u>Erosion - Bank</u>	<u>Left</u>	5.2	Migration Features	
	Erosion Length (ft.):	205.7		Flood Chutes:	1
	Erosion Height (ft.):	4.0		Neck Cutoffs:	0
	Revetment Type:	Rip-Rap		Channel Avulsions:	0
	Revetment length	206.8		Braiding:	0
3.2	<u>Buffer Less Than 25 ft.</u>	602	5.3	Steep Riffles and Head Cuts	
		360		Steep Riffles:	0
3.3	<u>Riparian Corridor</u>	<u>Left</u>		Head Cuts:	0
	Mass Failures:		5.4	Animal Crossings:	Yes
	Average Height (ft.):		5.5	Channel Alterations	
	Mass Failures:	None		Straightening:	Straightening
	Average Heigh (ft.):			Length (ft.):	1,531.8
	Gullies:	None		Dredging:	None
	Number of Gullies				
	Total Length of Gullies (ft.):				
	Average Height of Gullies				



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SGAT Version: **4.56**

Reach: **T4.02 -A**

<u>Step</u>	<u>Description</u>	<u>Value</u>
1.2	Alluvial Fan:	None
1.3	<u>Encroachments - Side</u>	<u>One</u> <u>Both</u>
	Berm Length (ft.):	0.0 0.0
	Path Length (ft.):	0.0 0.0
	Road Length (ft.):	4,118.1 0.0
	Railroad Lenth (ft.):	0.0 0.0
	Development Length:	424.1 94.3
3.1	<u>Erosion - Bank</u>	<u>Left</u> <u>Right</u>
	Erosion Length (ft.):	695.1 499.5
	Erosion Height (ft.):	3.2 2.9
	Revetment Type:	Rip-Rap Rip-Rap
	Revetment length	955.1 71.3
3.2	<u>Buffer Less Than 25 ft.</u>	2153 1516
3.3	<u>Riparian Corridor</u>	<u>Left</u> <u>Right</u>
	Mass Failures:	80.39 190.11
	Average Height (ft.):	4.0 13.7
	Mass Failures:	Multiple
	Average Heigh (ft.):	12.0
	Gullies:	None
	Number of Gullies	
	Total Length of Gullies (ft.):	
	Average Height of Gullies	

<u>Step</u>	<u>Description</u>	<u>Value</u>
4.4	Number of Debris Jams:	2
4.5	Flow Regulation Type:	None
	Use:	
4.7	Stormwater Inputs	
	Overland Flow 0	Road Ditch 3
	Field Ditch 0	Tile Drain 0
	Other 0	Ub Strm Wtr Pipe 0
4.9	Beaver Dams:	0
	Affected length (ft.):	0.0
5.2	Migration Features	
	Flood Chutes:	3
	Neck Cutoffs:	0
	Channel Avulsions:	0
	Braiding:	0
5.3	Steep Riffles and Head Cuts	
	Steep Riffles:	0
	Head Cuts:	0
5.4	Animal Crossings:	Yes
5.5	Channel Alterations	
	Straightening:	Straightening
	Length (ft.):	2,827.0
	Dredging:	Dredging



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Lewis Creek

SGAT Version: **4.56**

Reach: **T4.02 -B**

<u>Step</u>	<u>Description</u>	<u>Value</u>
1.2	Alluvial Fan:	None
1.3	<u>Encroachments - Side</u>	<u>One</u> <u>Both</u>
	Berm Length (ft.):	0.0 0.0
	Path Length (ft.):	0.0 0.0
	Road Length (ft.):	1,451.0 0.0
	Railroad Lenth (ft.):	0.0 0.0
	Development Length:	720.1 51.5
3.1	<u>Erosion - Bank</u>	<u>Left</u> <u>Right</u>
	Erosion Length (ft.):	346.4 90.2
	Erosion Height (ft.):	3.3 2.0
	Revetment Type:	Other None
	Revetment length	88.3 0.0
3.2	<u>Buffer Less Than 25 ft.</u>	887 466
3.3	<u>Riparian Corridor</u>	<u>Left</u> <u>Right</u>
	Mass Failures:	36.58
	Average Height (ft.):	15.0
	Mass Failures:	One
	Average Heigh (ft.):	15.0
	Gullies:	None
	Number of Gullies	
	Total Length of Gullies (ft.):	
	Average Height of Gullies	

<u>Step</u>	<u>Description</u>	<u>Value</u>
4.4	Number of Debris Jams:	0
4.5	Flow Regulation Type:	None
	Use:	
4.7	Stormwater Inputs	
	Overland Flow 2	Road Ditch 0
	Field Ditch 0	Tile Drain 0
	Other 0	Ub Strm Wtr Pipe 0
4.9	Beaver Dams:	0
	Affected length (ft.):	0.0
5.2	Migration Features	
	Flood Chutes:	6
	Neck Cutoffs:	0
	Channel Avulsions:	0
	Braiding:	2
5.3	Steep Riffles and Head Cuts	
	Steep Riffles:	1
	Head Cuts:	0
5.4	Animal Crossings:	No
5.5	Channel Alterations	
	Straightening:	None
	Length (ft.):	0.0
	Dredging:	None



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Lewis Creek

SGAT Version: **4.56**

Reach: **M10 -C**

<u>Step</u>	<u>Description</u>	<u>Value</u>	
1.2	Alluvial Fan:	None	
1.3	<u>Encroachments - Side</u>	<u>One</u>	<u>Both</u>
	Berm Length (ft.):	0.0	0.0
	Path Length (ft.):	0.0	0.0
	Road Length (ft.):	0.0	0.0
	Railroad Lenth (ft.):	0.0	0.0
	Development Length:	0.0	0.0
3.1	<u>Erosion - Bank</u>	<u>Left</u>	<u>Right</u>
	Erosion Length (ft.):	41.3	335.5
	Erosion Height (ft.):	10.0	2.5
	Revetment Type:	None	None
	Revetment length	0.0	0.0
3.2	<u>Buffer Less Than 25 ft.</u>	0	0
3.3	<u>Riparian Corridor</u>	<u>Left</u>	<u>Right</u>
	Mass Failures:	283.62	
	Average Height (ft.):	46.0	
	Mass Failures:	One	
	Average Heigh (ft.):	46.0	
	Gullies:	None	
	Number of Gullies		
	Total Length of Gullies (ft.):		
	Average Height of Gullies		

<u>Step</u>	<u>Description</u>	<u>Value</u>
4.4	Number of Debris Jams:	0
4.5	Flow Regulation Type:	None
	Use:	
4.7	Stormwater Inputs	
	Overland Flow	Road Ditch
	Field Ditch	Tile Drain
	Other	Ub Strm Wtr Pipe
4.9	Beaver Dams:	0
	Affected length (ft.):	0.0
5.2	Migration Features	
	Flood Chutes:	0
	Neck Cutoffs:	0
	Channel Avulsions:	0
	Braiding:	0
5.3	Steep Riffles and Head Cuts	
	Steep Riffles:	0
	Head Cuts:	0
5.4	Animal Crossings:	No
5.5	Channel Alterations	
	Straightening:	None
	Length (ft.):	0.0
	Dredging:	None



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Lewis Creek

SGAT Version: **4.56**

Reach: **M13 -B**

<u>Step</u>	<u>Description</u>	<u>Value</u>	
1.2	Alluvial Fan:	None	
1.3	<u>Encroachments - Side</u>	<u>One</u>	<u>Both</u>
	Berm Length (ft.):	0.0	0.0
	Path Length (ft.):	0.0	0.0
	Road Length (ft.):	0.0	0.0
	Railroad Lenth (ft.):	0.0	0.0
	Development Length:	92.6	88.3
3.1	<u>Erosion - Bank</u>	<u>Left</u>	<u>Right</u>
	Erosion Length (ft.):	93.6	98.4
	Erosion Height (ft.):	5.0	5.0
	Revetment Type:	Rip-Rap	Rip-Rap
	Revetment length	165.4	99.9
3.2	<u>Buffer Less Than 25 ft.</u>	760	1788
3.3	<u>Riparian Corridor</u>	<u>Left</u>	<u>Right</u>
	Mass Failures:		
	Average Height (ft.):		
	Mass Failures:	None	
	Average Heigh (ft.):		
	Gullies:	None	
	Number of Gullies		
	Total Length of Gullies (ft.):		
	Average Height of Gullies		

<u>Step</u>	<u>Description</u>	<u>Value</u>
4.4	Number of Debris Jams:	0
4.5	Flow Regulation Type:	None
	Use:	
4.7	Stormwater Inputs	
	Overland Flow	0
	Road Ditch	1
	Field Ditch	0
	Tile Drain	0
	Other	0
	Ub Strm Wtr Pipe	0
4.9	Beaver Dams:	0
	Affected length (ft.):	0.0
5.2	Migration Features	
	Flood Chutes:	0
	Neck Cutoffs:	0
	Channel Avulsions:	0
	Braiding:	0
5.3	Steep Riffles and Head Cuts	
	Steep Riffles:	2
	Head Cuts:	0
5.4	Animal Crossings:	No
5.5	Channel Alterations	
	Straightening:	Straightening
	Length (ft.):	594.0
	Dredging:	None



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Lewis Creek

SGAT Version: **4.56**

Reach: **M07 -0**

<u>Step</u>	<u>Description</u>	<u>Value</u>	<u>Step</u>	<u>Description</u>	<u>Value</u>	
1.2	Alluvial Fan:	None	4.4	Number of Debris Jams:	0	
1.3	<u>Encroachments - Side</u>	<u>One</u>	4.5	Flow Regulation Type:	None	
	Berm Length (ft.):	0.0		Use:		
	Path Length (ft.):	0.0	4.7	Stormwater Inputs		
	Road Length (ft.):	744.0	Overland Flow	0	Road Ditch	0
	Railroad Lenth (ft.):	0.0	Field Ditch	0	Tile Drain	0
	Development Length:	1,541.1	Other	0	Ub Strm Wtr Pipe	1
		175.3	4.9	Beaver Dams:	0	
3.1	<u>Erosion - Bank</u>	<u>Left</u>		Affected length (ft.):	0.0	
	Erosion Length (ft.):	166.5	5.2	Migration Features		
	Erosion Height (ft.):	3.0	Flood Chutes:	0		
	Revetment Type:	None	Neck Cutoffs:	0		
	Revetment length	0.0	Channel Avulsions:	0		
3.2	<u>Buffer Less Than 25 ft.</u>	217	Braiding:	1		
3.3	<u>Riparian Corridor</u>	<u>Left</u>	5.3	Steep Riffles and Head Cuts		
	Mass Failures:	125.78	Steep Riffles:	0		
	Average Height (ft.):	35.0	Head Cuts:	0		
	Mass Failures:	None	5.4	Animal Crossings:	No	
	Average Heigh (ft.):		5.5	Channel Alterations		
	Gullies:	None	Straightening:	None		
	Number of Gullies		Length (ft.):	0.0		
	Total Length of Gullies (ft.):		Dredging:	None		
	Average Height of Gullies					



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Lewis Creek

SGAT Version: 4.56

Reach: T6.02 -B

<u>Step</u>	<u>Description</u>	<u>Value</u>		<u>Step</u>	<u>Description</u>	<u>Value</u>
1.2	Alluvial Fan:	None		4.4	Number of Debris Jams:	3
1.3	<u>Encroachments - Side</u>	<u>One</u>	<u>Both</u>	4.5	Flow Regulation Type:	None
	Berm Length (ft.):	0.0	0.0		Use:	
	Path Length (ft.):	0.0	0.0	4.7	Stormwater Inputs	
	Road Length (ft.):	0.0	0.0		Overland Flow	Road Ditch
	Railroad Lenth (ft.):	0.0	0.0		Field Ditch	Tile Drain
	Development Length:	0.0	0.0		Other	Ub Strm Wtr Pipe
3.1	<u>Erosion - Bank</u>	<u>Left</u>	<u>Right</u>	4.9	Beaver Dams:	0
	Erosion Length (ft.):	0.0	0.0		Affected length (ft.):	0.0
	Erosion Height (ft.):	0.0	0.0	5.2	Migration Features	
	Revetment Type:	None	None		Flood Chutes:	0
	Revetment length	0.0	0.0		Neck Cutoffs:	0
3.2	<u>Buffer Less Than 25 ft.</u>	0	0		Channel Avulsions:	0
3.3	<u>Riparian Corridor</u>	<u>Left</u>	<u>Right</u>		Braiding:	0
	Mass Failures:			5.3	Steep Riffles and Head Cuts	
	Average Height (ft.):				Steep Riffles:	0
	Mass Failures:	None			Head Cuts:	0
	Average Heigh (ft.):			5.4	Animal Crossings:	No
	Gullies:	None		5.5	Channel Alterations	
	Number of Gullies				Straightening:	None
	Total Length of Gullies (ft.):				Length (ft.):	0.0
	Average Height of Gullies				Dredging:	None



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Lewis Creek

SGAT Version: **4.56**

Reach: **M17 -B**

<u>Step</u>	<u>Description</u>	<u>Value</u>	<u>Step</u>	<u>Description</u>	<u>Value</u>
1.2	Alluvial Fan:	None	4.4	Number of Debris Jams:	2
1.3	<u>Encroachments - Side</u>	<u>One</u>	4.5	Flow Regulation Type:	None
		<u>Both</u>		Use:	
	Berm Length (ft.):	0.0	4.7	Stormwater Inputs	
	Path Length (ft.):	0.0	Overland Flow	Road Ditch	
	Road Length (ft.):	0.0	Field Ditch	Tile Drain	
	Railroad Lenth (ft.):	0.0	Other	Ub Strm Wtr Pipe	
	Development Length:	0.0	4.9	Beaver Dams:	6
3.1	<u>Erosion - Bank</u>	<u>Left</u>		Affected length (ft.):	1,750.0
	Erosion Length (ft.):	1,317.3	5.2	Migration Features	
	Erosion Height (ft.):	4.2	Flood Chutes:	2	
	Revetment Type:	Rip-Rap	Neck Cutoffs:	2	
	Revetment length	275.4	Channel Avulsions:	1	
3.2	<u>Buffer Less Than 25 ft.</u>	189	Braiding:	0	
3.3	<u>Riparian Corridor</u>	<u>Left</u>	5.3	Steep Riffles and Head Cuts	
	Mass Failures:		Steep Riffles:	0	
	Average Height (ft.):		Head Cuts:	0	
	Mass Failures:	None	5.4	Animal Crossings:	No
	Average Heigh (ft.):		5.5	Channel Alterations	
	Gullies:	None	Straightening:	Straightening	
	Number of Gullies		Length (ft.):	862.7	
	Total Length of Gullies (ft.):		Dredging:	None	
	Average Height of Gullies				



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Lewis Creek

SGAT Version: 4.56

Reach: **M17 -C**

<u>Step</u>	<u>Description</u>	<u>Value</u>
1.2	Alluvial Fan:	Yes
1.3	<u>Encroachments - Side</u>	<u>One</u> <u>Both</u>
	Berm Length (ft.):	310.7 334.9
	Path Length (ft.):	0.0 0.0
	Road Length (ft.):	924.9 871.7
	Railroad Lenth (ft.):	0.0 0.0
	Development Length:	395.0 42.7
3.1	<u>Erosion - Bank</u>	<u>Left</u> <u>Right</u>
	Erosion Length (ft.):	162.1 270.2
	Erosion Height (ft.):	3.0 3.0
	Revetment Type:	None Rip-Rap
	Revetment length	0.0 197.6
3.2	<u>Buffer Less Than 25 ft.</u>	94 551
3.3	<u>Riparian Corridor</u>	<u>Left</u> <u>Right</u>
	Mass Failures:	
	Average Height (ft.):	
	Mass Failures:	None
	Average Heigh (ft.):	
	Gullies:	None
	Number of Gullies	
	Total Length of Gullies (ft.):	
	Average Height of Gullies	

<u>Step</u>	<u>Description</u>	<u>Value</u>
4.4	Number of Debris Jams:	2
4.5	Flow Regulation Type:	None
	Use:	
4.7	Stormwater Inputs	
	Overland Flow	Road Ditch
	Field Ditch	Tile Drain
	Other	Ub Strm Wtr Pipe
4.9	Beaver Dams:	0
	Affected length (ft.):	0.0
5.2	Migration Features	
	Flood Chutes:	2
	Neck Cutoffs:	0
	Channel Avulsions:	0
	Braiding:	0
5.3	Steep Riffles and Head Cuts	
	Steep Riffles:	0
	Head Cuts:	0
5.4	Animal Crossings:	No
5.5	Channel Alterations	
	Straightening:	With Windrowing
	Length (ft.):	1,287.0
	Dredging:	None



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SGAT Version: **4.56**

Reach: **T6.05 -B**

<u>Step</u>	<u>Description</u>	<u>Value</u>	
1.2	Alluvial Fan:	None	
1.3	<u>Encroachments - Side</u>	<u>One</u>	<u>Both</u>
	Berm Length (ft.):	0.0	0.0
	Path Length (ft.):	0.0	0.0
	Road Length (ft.):	496.4	312.4
	Railroad Lenth (ft.):	0.0	0.0
	Development Length:	376.1	0.0
3.1	<u>Erosion - Bank</u>	<u>Left</u>	<u>Right</u>
	Erosion Length (ft.):	81.8	104.3
	Erosion Height (ft.):	2.5	3.0
	Revetment Type:	Multiple	Rip-Rap
	Revetment length	137.0	59.0
3.2	<u>Buffer Less Than 25 ft.</u>	110	170
3.3	<u>Riparian Corridor</u>	<u>Left</u>	<u>Right</u>
	Mass Failures:		
	Average Height (ft.):		
	Mass Failures:	None	
	Average Heigh (ft.):		
	Gullies:	None	
	Number of Gullies		
	Total Length of Gullies (ft.):		
	Average Height of Gullies		

<u>Step</u>	<u>Description</u>	<u>Value</u>
4.4	Number of Debris Jams:	0
4.5	Flow Regulation Type:	None
	Use:	
4.7	Stormwater Inputs	
	Overland Flow 0	Road Ditch 1
	Field Ditch 0	Tile Drain 0
	Other 0	Ub Strm Wtr Pipe 0
4.9	Beaver Dams:	0
	Affected length (ft.):	0.0
5.2	Migration Features	
	Flood Chutes:	0
	Neck Cutoffs:	0
	Channel Avulsions:	0
	Braiding:	0
5.3	Steep Riffles and Head Cuts	
	Steep Riffles:	1
	Head Cuts:	0
5.4	Animal Crossings:	No
5.5	Channel Alterations	
	Straightening:	Straightening
	Length (ft.):	1,888.5
	Dredging:	None



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Lewis Creek

SGAT Version: **4.56**

Reach: **T6.05 -B**

<u>Step</u>	<u>Description</u>	<u>Value</u>	
1.2	Alluvial Fan:	None	
1.3	<u>Encroachments - Side</u>	<u>One</u>	<u>Both</u>
	Berm Length (ft.):	0.0	0.0
	Path Length (ft.):	0.0	0.0
	Road Length (ft.):	496.4	312.4
	Railroad Lenth (ft.):	0.0	0.0
	Development Length:	376.1	0.0
3.1	<u>Erosion - Bank</u>	<u>Left</u>	<u>Right</u>
	Erosion Length (ft.):	81.8	104.3
	Erosion Height (ft.):	2.5	3.0
	Revetment Type:	Multiple	Rip-Rap
	Revetment length	137.0	59.0
3.2	<u>Buffer Less Than 25 ft.</u>	110	170
3.3	<u>Riparian Corridor</u>	<u>Left</u>	<u>Right</u>
	Mass Failures:		
	Average Height (ft.):		
	Mass Failures:	None	
	Average Heigh (ft.):		
	Gullies:	None	
	Number of Gullies		
	Total Length of Gullies (ft.):		
	Average Height of Gullies		

<u>Step</u>	<u>Description</u>	<u>Value</u>
4.4	Number of Debris Jams:	0
4.5	Flow Regulation Type:	None
	Use:	
4.7	Stormwater Inputs	
	Overland Flow 0	Road Ditch 0
	Field Ditch 0	Tile Drain 0
	Other 0	Ub Strm Wtr Pipe 2
4.9	Beaver Dams:	0
	Affected length (ft.):	0.0
5.2	Migration Features	
	Flood Chutes:	0
	Neck Cutoffs:	0
	Channel Avulsions:	0
	Braiding:	0
5.3	Steep Riffles and Head Cuts	
	Steep Riffles:	1
	Head Cuts:	0
5.4	Animal Crossings:	No
5.5	Channel Alterations	
	Straightening:	Straightening
	Length (ft.):	1,888.5
	Dredging:	None



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SGAT Version: **4.56**

Reach: **T6.04 -B**

<u>Step</u>	<u>Description</u>	<u>Value</u>	<u>Step</u>	<u>Description</u>	<u>Value</u>
1.2	Alluvial Fan:	None	4.4	Number of Debris Jams:	1
1.3	<u>Encroachments - Side</u>	<u>One</u>	4.5	Flow Regulation Type:	None
		<u>Both</u>		Use:	
	Berm Length (ft.):	0.0	4.7	Stormwater Inputs	
	Path Length (ft.):	0.0		Overland Flow	Road Ditch
	Road Length (ft.):	199.4		Field Ditch	Tile Drain
	Railroad Lenth (ft.):	0.0		Other	Ub Strm Wtr Pipe
	Development Length:	157.0	4.9	Beaver Dams:	0
3.1	<u>Erosion - Bank</u>	<u>Left</u>		Affected length (ft.):	0.0
	Erosion Length (ft.):	93.2	5.2	Migration Features	
	Erosion Height (ft.):	2.4		Flood Chutes:	0
	Revetment Type:	Rip-Rap		Neck Cutoffs:	0
	Revetment length	112.8		Channel Avulsions:	0
3.2	<u>Buffer Less Than 25 ft.</u>	359		Braiding:	0
3.3	<u>Riparian Corridor</u>	<u>Left</u>	5.3	Steep Riffles and Head Cuts	
	Mass Failures:			Steep Riffles:	0
	Average Height (ft.):			Head Cuts:	0
	Mass Failures:	None	5.4	Animal Crossings:	No
	Average Heigh (ft.):		5.5	Channel Alterations	
	Gullies:	None		Straightening:	Straightening
	Number of Gullies			Length (ft.):	1,094.8
	Total Length of Gullies (ft.):			Dredging:	None
	Average Height of Gullies				



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Lewis Creek

SGAT Version: **4.56**

Reach: **M12 -A**

<u>Step</u>	<u>Description</u>	<u>Value</u>	<u>Step</u>	<u>Description</u>	<u>Value</u>	
1.2	Alluvial Fan:	None	4.4	Number of Debris Jams:	0	
1.3	<u>Encroachments - Side</u>	<u>One</u>	4.5	Flow Regulation Type:	None	
		<u>Both</u>		Use:		
	Berm Length (ft.):	0.0	4.7	Stormwater Inputs		
	Path Length (ft.):	0.0	Overland Flow	10	Road Ditch	0
	Road Length (ft.):	0.0	Field Ditch	0	Tile Drain	0
	Railroad Lenth (ft.):	0.0	Other	0	Ub Strm Wtr Pipe	0
	Development Length:	0.0	4.9	Beaver Dams:	0	
3.1	<u>Erosion - Bank</u>	<u>Left</u>		Affected length (ft.):	0.0	
	Erosion Length (ft.):	611.5	5.2	Migration Features		
	Erosion Height (ft.):	6.5		Flood Chutes:	0	
	Revetment Type:	None		Neck Cutoffs:	0	
	Revetment length	0.0		Channel Avulsions:	0	
3.2	<u>Buffer Less Than 25 ft.</u>	0		Braiding:	1	
3.3	<u>Riparian Corridor</u>	<u>Left</u>	5.3	Steep Riffles and Head Cuts		
	Mass Failures:			Steep Riffles:	0	
	Average Height (ft.):			Head Cuts:	0	
	Mass Failures:	None	5.4	Animal Crossings:	No	
	Average Heigh (ft.):		5.5	Channel Alterations		
	Gullies:	None		Straightening:	Straightening	
	Number of Gullies	0		Length (ft.):	338.3	
	Total Length of Gullies (ft.):			Dredging:	None	
	Average Height of Gullies					



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Lewis Creek

SGAT Version: 4.56

Reach: T6.06 -B

<u>Step</u>	<u>Description</u>	<u>Value</u>
1.2	Alluvial Fan:	None
1.3	<u>Encroachments - Side</u>	<u>One</u> <u>Both</u>
	Berm Length (ft.):	0.0 0.0
	Path Length (ft.):	0.0 0.0
	Road Length (ft.):	2,285.1 0.0
	Railroad Lenth (ft.):	0.0 0.0
	Development Length:	686.2 0.0
3.1	<u>Erosion - Bank</u>	<u>Left</u> <u>Right</u>
	Erosion Length (ft.):	0.0 0.0
	Erosion Height (ft.):	0.0 0.0
	Revetment Type:	None None
	Revetment length	0.0 0.0
3.2	<u>Buffer Less Than 25 ft.</u>	2779 2783
3.3	<u>Riparian Corridor</u>	<u>Left</u> <u>Right</u>
	Mass Failures:	
	Average Height (ft.):	
	Mass Failures:	None
	Average Heigh (ft.):	
	Gullies:	None
	Number of Gullies	
	Total Length of Gullies (ft.):	
	Average Height of Gullies	

<u>Step</u>	<u>Description</u>	<u>Value</u>
4.4	Number of Debris Jams:	0
4.5	Flow Regulation Type:	Small Run of River
	Use:	Recreation
4.7	Stormwater Inputs	
	Overland Flow	0 Road Ditch 2
	Field Ditch	0 Tile Drain 0
	Other	0 Ub Strm Wtr Pipe 0
4.9	Beaver Dams:	0
	Affected length (ft.):	0.0
5.2	Migration Features	
	Flood Chutes:	0
	Neck Cutoffs:	0
	Channel Avulsions:	0
	Braiding:	2
5.3	Steep Riffles and Head Cuts	
	Steep Riffles:	0
	Head Cuts:	0
5.4	Animal Crossings:	Yes
5.5	Channel Alterations	
	Straightening:	Straightening
	Length (ft.):	181.8
	Dredging:	None



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Reach: **M09 -A**

<u>Step</u>	<u>Description</u>	<u>Value</u>	
1.2	Alluvial Fan:	None	
1.3	<u>Encroachments - Side</u>	<u>One</u>	<u>Both</u>
	Berm Length (ft.):	0.0	0.0
	Path Length (ft.):	0.0	0.0
	Road Length (ft.):	1,004.4	0.0
	Railroad Lenth (ft.):	0.0	0.0
	Development Length:	317.2	166.3
3.1	<u>Erosion - Bank</u>	<u>Left</u>	<u>Right</u>
	Erosion Length (ft.):	0.0	0.0
	Erosion Height (ft.):	0.0	0.0
	Revetment Type:	None	None
	Revetment length	0.0	0.0
3.2	<u>Buffer Less Than 25 ft.</u>	605	0
3.3	<u>Riparian Corridor</u>	<u>Left</u>	<u>Right</u>
	Mass Failures:		
	Average Height (ft.):		
	Mass Failures:	None	
	Average Heigh (ft.):		
	Gullies:	None	
	Number of Gullies		
	Total Length of Gullies (ft.):		
	Average Height of Gullies		

<u>Step</u>	<u>Description</u>	<u>Value</u>
4.4	Number of Debris Jams:	0
4.5	Flow Regulation Type:	None
	Use:	
4.7	Stormwater Inputs	
	Overland Flow	Road Ditch
	Field Ditch	Tile Drain
	Other	Ub Strm Wtr Pipe
4.9	Beaver Dams:	0
	Affected length (ft.):	0.0
5.2	Migration Features	
	Flood Chutes:	0
	Neck Cutoffs:	0
	Channel Avulsions:	0
	Braiding:	0
5.3	Steep Riffles and Head Cuts	
	Steep Riffles:	0
	Head Cuts:	0
5.4	Animal Crossings:	No
5.5	Channel Alterations	
	Straightening:	Straightening
	Length (ft.):	487.2
	Dredging:	None



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Lewis Creek

SGAT Version: 4.56

Reach: **M15 -B**

<u>Step</u>	<u>Description</u>	<u>Value</u>	
1.2	Alluvial Fan:	None	
1.3	<u>Encroachments - Side</u>	<u>One</u>	<u>Both</u>
	Berm Length (ft.):	0.0	0.0
	Path Length (ft.):	0.0	0.0
	Road Length (ft.):	164.5	0.0
	Railroad Lenth (ft.):	0.0	0.0
	Development Length:	167.0	65.0
3.1	<u>Erosion - Bank</u>	<u>Left</u>	<u>Right</u>
	Erosion Length (ft.):	954.0	782.9
	Erosion Height (ft.):	3.1	3.2
	Revetment Type:	None	Rip-Rap
	Revetment length	0.0	47.5
3.2	<u>Buffer Less Than 25 ft.</u>	498	153
3.3	<u>Riparian Corridor</u>	<u>Left</u>	<u>Right</u>
	Mass Failures:		
	Average Height (ft.):		
	Mass Failures:	None	
	Average Heigh (ft.):		
	Gullies:	One	
	Number of Gullies	1	
	Total Length of Gullies (ft.):	75.0	
	Average Height of Gullies	4.0	

<u>Step</u>	<u>Description</u>	<u>Value</u>
4.4	Number of Debris Jams:	2
4.5	Flow Regulation Type:	Small Withdrawal
	Use:	Other
4.7	Stormwater Inputs	
	Overland Flow	0 Road Ditch 0
	Field Ditch	1 Tile Drain 0
	Other	0 Ub Strm Wtr Pipe 0
4.9	Beaver Dams:	1
	Affected length (ft.):	2.0
5.2	Migration Features	
	Flood Chutes:	4
	Neck Cutoffs:	0
	Channel Avulsions:	1
	Braiding:	1
5.3	Steep Riffles and Head Cuts	
	Steep Riffles:	1
	Head Cuts:	0
5.4	Animal Crossings:	No
5.5	Channel Alterations	
	Straightening:	Straightening
	Length (ft.):	2,120.9
	Dredging:	None



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SGAT Version: 4.56

Reach: **M05 -0**

<u>Step</u>	<u>Description</u>	<u>Value</u>	
1.2	Alluvial Fan:	None	
1.3	<u>Encroachments - Side</u>	<u>One</u>	<u>Both</u>
	Berm Length (ft.):	0.0	0.0
	Path Length (ft.):	0.0	0.0
	Road Length (ft.):	1,058.1	512.8
	Railroad Lenth (ft.):	0.0	0.0
	Development Length:	414.6	156.9
3.1	<u>Erosion - Bank</u>	<u>Left</u>	<u>Right</u>
	Erosion Length (ft.):	154.7	0.0
	Erosion Height (ft.):	4.0	0.0
	Revetment Type:	None	None
	Revetment length	0.0	0.0
3.2	<u>Buffer Less Than 25 ft.</u>	333	125
3.3	<u>Riparian Corridor</u>	<u>Left</u>	<u>Right</u>
	Mass Failures:	86.5	
	Average Height (ft.):	12.0	
	Mass Failures:	One	
	Average Heigh (ft.):	12.0	
	Gullies:	None	
	Number of Gullies		
	Total Length of Gullies (ft.):		
	Average Height of Gullies		

<u>Step</u>	<u>Description</u>	<u>Value</u>
4.4	Number of Debris Jams:	0
4.5	Flow Regulation Type:	None
	Use:	
4.7	Stormwater Inputs	
	Overland Flow	Road Ditch
	Field Ditch	Tile Drain
	Other	Ub Strm Wtr Pipe
4.9	Beaver Dams:	0
	Affected length (ft.):	0.0
5.2	Migration Features	
	Flood Chutes:	0
	Neck Cutoffs:	0
	Channel Avulsions:	0
	Braiding:	0
5.3	Steep Riffles and Head Cuts	
	Steep Riffles:	0
	Head Cuts:	0
5.4	Animal Crossings:	No
5.5	Channel Alterations	
	Straightening:	None
	Length (ft.):	0.0
	Dredging:	None



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SGAT Version: **4.56**

Reach: **M17 -A**

<u>Step</u>	<u>Description</u>	<u>Value</u>	
1.2	Alluvial Fan:	None	
1.3	<u>Encroachments - Side</u>	<u>One</u>	<u>Both</u>
	Berm Length (ft.):	0.0	0.0
	Path Length (ft.):	0.0	0.0
	Road Length (ft.):	0.0	0.0
	Railroad Lenth (ft.):	0.0	0.0
	Development Length:	0.0	62.9
3.1	<u>Erosion - Bank</u>	<u>Left</u>	<u>Right</u>
	Erosion Length (ft.):	607.0	488.7
	Erosion Height (ft.):	4.4	4.5
	Revetment Type:	None	Rip-Rap
	Revetment length	0.0	393.7
3.2	<u>Buffer Less Than 25 ft.</u>	2100	2621
3.3	<u>Riparian Corridor</u>	<u>Left</u>	<u>Right</u>
	Mass Failures:	152.27	
	Average Height (ft.):	60.5	
	Mass Failures:	None	
	Average Heigh (ft.):		
	Gullies:	None	
	Number of Gullies		
	Total Length of Gullies (ft.):		
	Average Height of Gullies		

<u>Step</u>	<u>Description</u>	<u>Value</u>
4.4	Number of Debris Jams:	2
4.5	Flow Regulation Type:	None
	Use:	
4.7	Stormwater Inputs	
	Overland Flow	Road Ditch
	Field Ditch	Tile Drain
	Other	Ub Strm Wtr Pipe
4.9	Beaver Dams:	3
	Affected length (ft.):	700.0
5.2	Migration Features	
	Flood Chutes:	1
	Neck Cutoffs:	0
	Channel Avulsions:	0
	Braiding:	0
5.3	Steep Riffles and Head Cuts	
	Steep Riffles:	0
	Head Cuts:	0
5.4	Animal Crossings:	Yes
5.5	Channel Alterations	
	Straightening:	None
	Length (ft.):	0.0
	Dredging:	None



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SGAT Version: **4.56**

Reach: **T6.03 -A**

<u>Step</u>	<u>Description</u>	<u>Value</u>	<u>Step</u>	<u>Description</u>	<u>Value</u>
1.2	Alluvial Fan:	None	4.4	Number of Debris Jams:	4
1.3	<u>Encroachments - Side</u>	<u>One</u>	4.5	Flow Regulation Type:	None
		<u>Both</u>		Use:	
	Berm Length (ft.):	0.0	4.7	Stormwater Inputs	
	Path Length (ft.):	0.0		Overland Flow	Road Ditch
	Road Length (ft.):	0.0		Field Ditch	Tile Drain
	Railroad Lenth (ft.):	0.0		Other	Ub Strm Wtr Pipe
	Development Length:	0.0	4.9	Beaver Dams:	0
3.1	<u>Erosion - Bank</u>	<u>Left</u>		Affected length (ft.):	0.0
	Erosion Length (ft.):	0.0	5.2	Migration Features	
	Erosion Height (ft.):	0.0		Flood Chutes:	1
	Revetment Type:	None		Neck Cutoffs:	0
	Revetment length	0.0		Channel Avulsions:	0
3.2	<u>Buffer Less Than 25 ft.</u>	0		Braiding:	0
		116	5.3	Steep Riffles and Head Cuts	
3.3	<u>Riparian Corridor</u>	<u>Left</u>		Steep Riffles:	1
	Mass Failures:			Head Cuts:	0
	Average Height (ft.):		5.4	Animal Crossings:	No
	Mass Failures:	None	5.5	Channel Alterations	
	Average Heigh (ft.):			Straightening:	None
	Gullies:	None		Length (ft.):	0.0
	Number of Gullies			Dredging:	None
	Total Length of Gullies (ft.):				
	Average Height of Gullies				



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SGAT Version: **4.56**

Reach: **T3.01 -C**

<u>Step</u>	<u>Description</u>	<u>Value</u>	
1.2	Alluvial Fan:	None	
1.3	<u>Encroachments - Side</u>	<u>One</u>	<u>Both</u>
	Berm Length (ft.):	0.0	0.0
	Path Length (ft.):	0.0	0.0
	Road Length (ft.):	463.8	0.0
	Railroad Lenth (ft.):	0.0	0.0
	Development Length:	280.7	67.7
3.1	<u>Erosion - Bank</u>	<u>Left</u>	<u>Right</u>
	Erosion Length (ft.):	177.7	546.2
	Erosion Height (ft.):	3.0	3.1
	Revetment Type:	Rip-Rap	Rip-Rap
	Revetment length	246.3	196.6
3.2	<u>Buffer Less Than 25 ft.</u>	180	503
3.3	<u>Riparian Corridor</u>	<u>Left</u>	<u>Right</u>
	Mass Failures:		
	Average Height (ft.):		
	Mass Failures:	None	
	Average Heigh (ft.):		
	Gullies:	None	
	Number of Gullies		
	Total Length of Gullies (ft.):		
	Average Height of Gullies		

<u>Step</u>	<u>Description</u>	<u>Value</u>
4.4	Number of Debris Jams:	3
4.5	Flow Regulation Type:	None
	Use:	
4.7	Stormwater Inputs	
	Overland Flow 0	Road Ditch 0
	Field Ditch 0	Tile Drain 0
	Other 1	Ub Strm Wtr Pipe 0
4.9	Beaver Dams:	1
	Affected length (ft.):	10.0
5.2	Migration Features	
	Flood Chutes:	5
	Neck Cutoffs:	1
	Channel Avulsions:	0
	Braiding:	3
5.3	Steep Riffles and Head Cuts	
	Steep Riffles:	2
	Head Cuts:	0
5.4	Animal Crossings:	No
5.5	Channel Alterations	
	Straightening:	Straightening
	Length (ft.):	145.8
	Dredging:	None



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Reach: **T6.02 -A**

<u>Step</u>	<u>Description</u>	<u>Value</u>	
1.2	Alluvial Fan:	None	
1.3	<u>Encroachments - Side</u>	<u>One</u>	<u>Both</u>
	Berm Length (ft.):	0.0	0.0
	Path Length (ft.):	0.0	0.0
	Road Length (ft.):	0.0	0.0
	Railroad Lenth (ft.):	0.0	0.0
	Development Length:	0.0	0.0
3.1	<u>Erosion - Bank</u>	<u>Left</u>	<u>Right</u>
	Erosion Length (ft.):	0.0	0.0
	Erosion Height (ft.):	0.0	0.0
	Revetment Type:	None	None
	Revetment length	0.0	0.0
3.2	<u>Buffer Less Than 25 ft.</u>	0	0
3.3	<u>Riparian Corridor</u>	<u>Left</u>	<u>Right</u>
	Mass Failures:		
	Average Height (ft.):		
	Mass Failures:	None	
	Average Heigh (ft.):		
	Gullies:	None	
	Number of Gullies		
	Total Length of Gullies (ft.):		
	Average Height of Gullies		

<u>Step</u>	<u>Description</u>	<u>Value</u>
4.4	Number of Debris Jams:	0
4.5	Flow Regulation Type:	None
	Use:	
4.7	Stormwater Inputs	
	Overland Flow	Road Ditch
	Field Ditch	Tile Drain
	Other	Ub Strm Wtr Pipe
4.9	Beaver Dams:	0
	Affected length (ft.):	0.0
5.2	Migration Features	
	Flood Chutes:	0
	Neck Cutoffs:	0
	Channel Avulsions:	0
	Braiding:	0
5.3	Steep Riffles and Head Cuts	
	Steep Riffles:	0
	Head Cuts:	0
5.4	Animal Crossings:	No
5.5	Channel Alterations	
	Straightening:	None
	Length (ft.):	0.0
	Dredging:	None



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Reach: **T6.04 -A**

<u>Step</u>	<u>Description</u>	<u>Value</u>	<u>Step</u>	<u>Description</u>	<u>Value</u>
1.2	Alluvial Fan:	None	4.4	Number of Debris Jams:	0
1.3	<u>Encroachments - Side</u>	<u>One</u>	4.5	Flow Regulation Type:	None
		<u>Both</u>		Use:	
	Berm Length (ft.):	0.0	4.7	Stormwater Inputs	
	Path Length (ft.):	0.0		Overland Flow	Road Ditch
	Road Length (ft.):	0.0		Field Ditch	Tile Drain
	Railroad Lenth (ft.):	0.0		Other	Ub Strm Wtr Pipe
	Development Length:	0.0	4.9	Beaver Dams:	0
3.1	<u>Erosion - Bank</u>	<u>Left</u>		Affected length (ft.):	0.0
	Erosion Length (ft.):	0.0	5.2	Migration Features	
	Erosion Height (ft.):	0.0		Flood Chutes:	0
	Revetment Type:	None		Neck Cutoffs:	0
	Revetment length	0.0		Channel Avulsions:	0
3.2	<u>Buffer Less Than 25 ft.</u>	0		Braiding:	0
3.3	<u>Riparian Corridor</u>	<u>Left</u>	5.3	Steep Riffles and Head Cuts	
	Mass Failures:			Steep Riffles:	0
	Average Height (ft.):			Head Cuts:	0
	Mass Failures:	None	5.4	Animal Crossings:	Yes
	Average Heigh (ft.):		5.5	Channel Alterations	
	Gullies:	None		Straightening:	Straightening
	Number of Gullies			Length (ft.):	480.7
	Total Length of Gullies (ft.):			Dredging:	None
	Average Height of Gullies				



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Reach: **M10 -E**

<u>Step</u>	<u>Description</u>	<u>Value</u>
1.2	Alluvial Fan:	None
1.3	<u>Encroachments - Side</u>	<u>One</u> <u>Both</u>
	Berm Length (ft.):	321.5 0.0
	Path Length (ft.):	0.0 0.0
	Road Length (ft.):	1,110.2 0.0
	Railroad Lenth (ft.):	0.0 0.0
	Development Length:	220.2 0.0
3.1	<u>Erosion - Bank</u>	<u>Left</u> <u>Right</u>
	Erosion Length (ft.):	238.6 171.5
	Erosion Height (ft.):	3.3 3.7
	Revetment Type:	Multiple None
	Revetment length	149.2 0.0
3.2	<u>Buffer Less Than 25 ft.</u>	635 0
3.3	<u>Riparian Corridor</u>	<u>Left</u> <u>Right</u>
	Mass Failures:	
	Average Height (ft.):	
	Mass Failures:	None
	Average Heigh (ft.):	
	Gullies:	None
	Number of Gullies	
	Total Length of Gullies (ft.):	
	Average Height of Gullies	

<u>Step</u>	<u>Description</u>	<u>Value</u>
4.4	Number of Debris Jams:	0
4.5	Flow Regulation Type:	None
	Use:	
4.7	Stormwater Inputs	
	Overland Flow	Road Ditch
	Field Ditch	Tile Drain
	Other	Ub Strm Wtr Pipe
4.9	Beaver Dams:	0
	Affected length (ft.):	0.0
5.2	Migration Features	
	Flood Chutes:	0
	Neck Cutoffs:	0
	Channel Avulsions:	0
	Braiding:	0
5.3	Steep Riffles and Head Cuts	
	Steep Riffles:	0
	Head Cuts:	0
5.4	Animal Crossings:	No
5.5	Channel Alterations	
	Straightening:	Straightening
	Length (ft.):	761.6
	Dredging:	None



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Reach: **T4.05 -A**

<u>Step</u>	<u>Description</u>	<u>Value</u>
1.2	Alluvial Fan:	Yes
1.3	<u>Encroachments - Side</u>	<u>One</u> <u>Both</u>
	Berm Length (ft.):	437.2 0.0
	Path Length (ft.):	0.0 0.0
	Road Length (ft.):	562.5 0.0
	Railroad Lenth (ft.):	0.0 0.0
	Development Length:	476.1 0.0
3.1	<u>Erosion - Bank</u>	<u>Left</u> <u>Right</u>
	Erosion Length (ft.):	129.0 43.9
	Erosion Height (ft.):	3.0 8.0
	Revetment Type:	Rip-Rap None
	Revetment length	232.4 0.0
3.2	<u>Buffer Less Than 25 ft.</u>	561 0
3.3	<u>Riparian Corridor</u>	<u>Left</u> <u>Right</u>
	Mass Failures:	47.1
	Average Height (ft.):	10.0
	Mass Failures:	One
	Average Heigh (ft.):	10.0
	Gullies:	None
	Number of Gullies	
	Total Length of Gullies (ft.):	
	Average Height of Gullies	

<u>Step</u>	<u>Description</u>	<u>Value</u>
4.4	Number of Debris Jams:	0
4.5	Flow Regulation Type:	None
	Use:	
4.7	Stormwater Inputs	
	Overland Flow 1	Road Ditch 0
	Field Ditch 0	Tile Drain 0
	Other 0	Ub Strm Wtr Pipe 0
4.9	Beaver Dams:	0
	Affected length (ft.):	0.0
5.2	Migration Features	
	Flood Chutes:	1
	Neck Cutoffs:	0
	Channel Avulsions:	0
	Braiding:	0
5.3	Steep Riffles and Head Cuts	
	Steep Riffles:	1
	Head Cuts:	0
5.4	Animal Crossings:	No
5.5	Channel Alterations	
	Straightening:	Straightening
	Length (ft.):	582.8
	Dredging:	None



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SGAT Version: **4.56**

Reach: **T2.01 -0**

<u>Step</u>	<u>Description</u>	<u>Value</u>	
1.2	Alluvial Fan:	None	
1.3	<u>Encroachments - Side</u>	<u>One</u>	<u>Both</u>
	Berm Length (ft.):	0.0	0.0
	Path Length (ft.):	0.0	0.0
	Road Length (ft.):	0.0	0.0
	Railroad Lenth (ft.):	0.0	0.0
	Development Length:	0.0	0.0
3.1	<u>Erosion - Bank</u>	<u>Left</u>	<u>Right</u>
	Erosion Length (ft.):	29.0	59.7
	Erosion Height (ft.):	3.0	4.0
	Revetment Type:	None	None
	Revetment length	0.0	0.0
3.2	<u>Buffer Less Than 25 ft.</u>	0	0
3.3	<u>Riparian Corridor</u>	<u>Left</u>	<u>Right</u>
	Mass Failures:		
	Average Height (ft.):		
	Mass Failures:	None	
	Average Heigh (ft.):		
	Gullies:	None	
	Number of Gullies		
	Total Length of Gullies (ft.):		
	Average Height of Gullies		

<u>Step</u>	<u>Description</u>	<u>Value</u>
4.4	Number of Debris Jams:	2
4.5	Flow Regulation Type:	None
	Use:	
4.7	Stormwater Inputs	
	Overland Flow	Road Ditch
	Field Ditch	Tile Drain
	Other	Ub Strm Wtr Pipe
4.9	Beaver Dams:	2
	Affected length (ft.):	750.0
5.2	Migration Features	
	Flood Chutes:	4
	Neck Cutoffs:	0
	Channel Avulsions:	0
	Braiding:	1
5.3	Steep Riffles and Head Cuts	
	Steep Riffles:	0
	Head Cuts:	0
5.4	Animal Crossings:	No
5.5	Channel Alterations	
	Straightening:	None
	Length (ft.):	0.0
	Dredging:	None



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Lewis Creek

SGAT Version: 4.56

Reach: T4.3S6.01 -B

<u>Step</u>	<u>Description</u>	<u>Value</u>	
1.2	Alluvial Fan:	None	
1.3	<u>Encroachments - Side</u>	<u>One</u>	<u>Both</u>
	Berm Length (ft.):	0.0	0.0
	Path Length (ft.):	0.0	0.0
	Road Length (ft.):	2,127.8	0.0
	Railroad Lenth (ft.):	0.0	0.0
	Development Length:	0.0	155.0
3.1	<u>Erosion - Bank</u>	<u>Left</u>	<u>Right</u>
	Erosion Length (ft.):	0.0	0.0
	Erosion Height (ft.):	0.0	0.0
	Revetment Type:	None	None
	Revetment length	0.0	0.0
3.2	<u>Buffer Less Than 25 ft.</u>	1209	1392
3.3	<u>Riparian Corridor</u>	<u>Left</u>	<u>Right</u>
	Mass Failures:		
	Average Height (ft.):		
	Mass Failures:	None	
	Average Heigh (ft.):		
	Gullies:	None	
	Number of Gullies		
	Total Length of Gullies (ft.):		
	Average Height of Gullies		

<u>Step</u>	<u>Description</u>	<u>Value</u>
4.4	Number of Debris Jams:	0
4.5	Flow Regulation Type:	None
	Use:	
4.7	Stormwater Inputs	
	Overland Flow	Road Ditch
	Field Ditch	Tile Drain
	Other	Ub Strm Wtr Pipe
4.9	Beaver Dams:	0
	Affected length (ft.):	0.0
5.2	Migration Features	
	Flood Chutes:	0
	Neck Cutoffs:	0
	Channel Avulsions:	0
	Braiding:	0
5.3	Steep Riffles and Head Cuts	
	Steep Riffles:	0
	Head Cuts:	0
5.4	Animal Crossings:	No
5.5	Channel Alterations	
	Straightening:	Straightening
	Length (ft.):	1,480.3
	Dredging:	None



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Lewis Creek

SGAT Version: **4.56**

Reach: **M01 -0**

<u>Step</u>	<u>Description</u>	<u>Value</u>	
1.2	Alluvial Fan:	None	
1.3	<u>Encroachments - Side</u>	<u>One</u>	<u>Both</u>
	Berm Length (ft.):	0.0	0.0
	Path Length (ft.):	0.0	0.0
	Road Length (ft.):	0.0	0.0
	Railroad Lenth (ft.):	0.0	0.0
	Development Length:	108.0	0.0
3.1	<u>Erosion - Bank</u>	<u>Left</u>	<u>Right</u>
	Erosion Length (ft.):	0.0	0.0
	Erosion Height (ft.):	0.0	0.0
	Revetment Type:	None	None
	Revetment length	0.0	0.0
3.2	<u>Buffer Less Than 25 ft.</u>	0	552
3.3	<u>Riparian Corridor</u>	<u>Left</u>	<u>Right</u>
	Mass Failures:		
	Average Height (ft.):		
	Mass Failures:	None	
	Average Heigh (ft.):		
	Gullies:	None	
	Number of Gullies		
	Total Length of Gullies (ft.):		
	Average Height of Gullies		

<u>Step</u>	<u>Description</u>	<u>Value</u>
4.4	Number of Debris Jams:	0
4.5	Flow Regulation Type:	None
	Use:	
4.7	Stormwater Inputs	
	Overland Flow	Road Ditch
	Field Ditch	Tile Drain
	Other	Ub Strm Wtr Pipe
4.9	Beaver Dams:	0
	Affected length (ft.):	0.0
5.2	Migration Features	
	Flood Chutes:	0
	Neck Cutoffs:	0
	Channel Avulsions:	0
	Braiding:	0
5.3	Steep Riffles and Head Cuts	
	Steep Riffles:	0
	Head Cuts:	0
5.4	Animal Crossings:	No
5.5	Channel Alterations	
	Straightening:	None
	Length (ft.):	0.0
	Dredging:	None



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Lewis Creek

SGAT Version: **4.56**

Reach: **M04 -0**

<u>Step</u>	<u>Description</u>	<u>Value</u>	
1.2	Alluvial Fan:	None	
1.3	<u>Encroachments - Side</u>	<u>One</u>	<u>Both</u>
	Berm Length (ft.):	0.0	0.0
	Path Length (ft.):	0.0	0.0
	Road Length (ft.):	0.0	0.0
	Railroad Lenth (ft.):	0.0	0.0
	Development Length:	0.0	0.0
3.1	<u>Erosion - Bank</u>	<u>Left</u>	<u>Right</u>
	Erosion Length (ft.):	1,318.2	1,120.1
	Erosion Height (ft.):	7.1	6.9
	Revetment Type:	None	None
	Revetment length	0.0	0.0
3.2	<u>Buffer Less Than 25 ft.</u>	736	1324
3.3	<u>Riparian Corridor</u>	<u>Left</u>	<u>Right</u>
	Mass Failures:		
	Average Height (ft.):		
	Mass Failures:	None	
	Average Heigh (ft.):		
	Gullies:	None	
	Number of Gullies		
	Total Length of Gullies (ft.):		
	Average Height of Gullies		

<u>Step</u>	<u>Description</u>	<u>Value</u>
4.4	Number of Debris Jams:	3
4.5	Flow Regulation Type:	None
	Use:	
4.7	Stormwater Inputs	
	Overland Flow	Road Ditch
	Field Ditch	Tile Drain
	Other	Ub Strm Wtr Pipe
4.9	Beaver Dams:	0
	Affected length (ft.):	0.0
5.2	Migration Features	
	Flood Chutes:	3
	Neck Cutoffs:	0
	Channel Avulsions:	1
	Braiding:	0
5.3	Steep Riffles and Head Cuts	
	Steep Riffles:	0
	Head Cuts:	0
5.4	Animal Crossings:	Yes
5.5	Channel Alterations	
	Straightening:	Straightening
	Length (ft.):	992.8
	Dredging:	None



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Lewis Creek

SGAT Version: **4.56**

Reach: **T4.01 -B**

<u>Step</u>	<u>Description</u>	<u>Value</u>
1.2	Alluvial Fan:	Yes
1.3	<u>Encroachments - Side</u>	<u>One</u> <u>Both</u>
	Berm Length (ft.):	791.3 124.5
	Path Length (ft.):	0.0 0.0
	Road Length (ft.):	1,021.2 0.0
	Railroad Lenth (ft.):	0.0 0.0
	Development Length:	237.9 178.5
3.1	<u>Erosion - Bank</u>	<u>Left</u> <u>Right</u>
	Erosion Length (ft.):	735.5 791.5
	Erosion Height (ft.):	3.2 2.8
	Revetment Type:	Multiple Multiple
	Revetment length	259.0 232.3
3.2	<u>Buffer Less Than 25 ft.</u>	1350 1455
3.3	<u>Riparian Corridor</u>	<u>Left</u> <u>Right</u>
	Mass Failures:	76.69
	Average Height (ft.):	30.3
	Mass Failures:	Multiple
	Average Heigh (ft.):	26.5
	Gullies:	None
	Number of Gullies	
	Total Length of Gullies (ft.):	
	Average Height of Gullies	

<u>Step</u>	<u>Description</u>	<u>Value</u>
4.4	Number of Debris Jams:	4
4.5	Flow Regulation Type:	None
	Use:	
4.7	Stormwater Inputs	
	Overland Flow	Road Ditch
	Field Ditch	Tile Drain
	Other	Ub Strm Wtr Pipe
4.9	Beaver Dams:	0
	Affected length (ft.):	0.0
5.2	Migration Features	
	Flood Chutes:	9
	Neck Cutoffs:	0
	Channel Avulsions:	0
	Braiding:	0
5.3	Steep Riffles and Head Cuts	
	Steep Riffles:	6
	Head Cuts:	0
5.4	Animal Crossings:	Yes
5.5	Channel Alterations	
	Straightening:	Straightening
	Length (ft.):	1,112.2
	Dredging:	Dredging



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SGAT Version: **4.56**

Reach: **T3.01 -B**

<u>Step</u>	<u>Description</u>	<u>Value</u>	<u>Step</u>	<u>Description</u>	<u>Value</u>	
1.2	Alluvial Fan:	None	4.4	Number of Debris Jams:	1	
1.3	<u>Encroachments - Side</u>	<u>One</u>	4.5	Flow Regulation Type:	None	
		<u>Both</u>		Use:		
	Berm Length (ft.):	0.0	4.7	Stormwater Inputs		
	Path Length (ft.):	0.0	Overland Flow	0	Road Ditch	0
	Road Length (ft.):	347.4	Field Ditch	0	Tile Drain	1
	Railroad Lenth (ft.):	0.0	Other	0	Ub Strm Wtr Pipe	0
	Development Length:	0.0	4.9	Beaver Dams:	0	
		54.5		Affected length (ft.):	0.0	
3.1	<u>Erosion - Bank</u>	<u>Left</u>	5.2	Migration Features		
	Erosion Length (ft.):	452.9		Flood Chutes:	2	
	Erosion Height (ft.):	3.9		Neck Cutoffs:	0	
	Revetment Type:	None		Channel Avulsions:	0	
		Rip-Rap		Braiding:	0	
	Revetment length	0.0	5.3	Steep Riffles and Head Cuts		
3.2	<u>Buffer Less Than 25 ft.</u>	726		Steep Riffles:	0	
		138		Head Cuts:	0	
3.3	<u>Riparian Corridor</u>	<u>Left</u>	5.4	Animal Crossings:	No	
	Mass Failures:		5.5	Channel Alterations		
	Average Height (ft.):			Straightening:	Straightening	
	Mass Failures:	None		Length (ft.):	1,380.9	
	Average Heigh (ft.):			Dredging:	Dredging	
	Gullies:	None				
	Number of Gullies					
	Total Length of Gullies (ft.):					
	Average Height of Gullies					



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SGAT Version: **4.56**

Reach: **M11 -0**

<u>Step</u>	<u>Description</u>	<u>Value</u>	
1.2	Alluvial Fan:	None	
1.3	<u>Encroachments - Side</u>	<u>One</u>	<u>Both</u>
	Berm Length (ft.):	0.0	0.0
	Path Length (ft.):	0.0	0.0
	Road Length (ft.):	0.0	0.0
	Railroad Lenth (ft.):	0.0	0.0
	Development Length:	0.0	0.0
3.1	<u>Erosion - Bank</u>	<u>Left</u>	<u>Right</u>
	Erosion Length (ft.):	803.4	548.6
	Erosion Height (ft.):	7.0	7.7
	Revetment Type:	None	None
	Revetment length	0.0	0.0
3.2	<u>Buffer Less Than 25 ft.</u>	0	1574
3.3	<u>Riparian Corridor</u>	<u>Left</u>	<u>Right</u>
	Mass Failures:		
	Average Height (ft.):		
	Mass Failures:	None	
	Average Heigh (ft.):		
	Gullies:	None	
	Number of Gullies	0	
	Total Length of Gullies (ft.):	0.0	
	Average Height of Gullies		

<u>Step</u>	<u>Description</u>	<u>Value</u>
4.4	Number of Debris Jams:	1
4.5	Flow Regulation Type:	None
	Use:	
4.7	Stormwater Inputs	
	Overland Flow 3	Road Ditch 0
	Field Ditch 0	Tile Drain 0
	Other 0	Ub Strm Wtr Pipe 0
4.9	Beaver Dams:	1
	Affected length (ft.):	1,200.0
5.2	Migration Features	
	Flood Chutes:	0
	Neck Cutoffs:	0
	Channel Avulsions:	0
	Braiding:	0
5.3	Steep Riffles and Head Cuts	
	Steep Riffles:	0
	Head Cuts:	0
5.4	Animal Crossings:	No
5.5	Channel Alterations	
	Straightening:	None
	Length (ft.):	0.0
	Dredging:	None



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SGAT Version: 4.56

Reach: **M10 -B**

<u>Step</u>	<u>Description</u>	<u>Value</u>	
1.2	Alluvial Fan:	None	
1.3	<u>Encroachments - Side</u>	<u>One</u>	<u>Both</u>
	Berm Length (ft.):	0.0	0.0
	Path Length (ft.):	0.0	0.0
	Road Length (ft.):	0.0	0.0
	Railroad Lenth (ft.):	0.0	0.0
	Development Length:	0.0	0.0
3.1	<u>Erosion - Bank</u>	<u>Left</u>	<u>Right</u>
	Erosion Length (ft.):	312.4	59.6
	Erosion Height (ft.):	3.7	4.6
	Revetment Type:	None	None
	Revetment length	0.0	0.0
3.2	<u>Buffer Less Than 25 ft.</u>	0	1225
3.3	<u>Riparian Corridor</u>	<u>Left</u>	<u>Right</u>
	Mass Failures:		
	Average Height (ft.):		
	Mass Failures:	None	
	Average Heigh (ft.):		
	Gullies:	None	
	Number of Gullies		
	Total Length of Gullies (ft.):		
	Average Height of Gullies		

<u>Step</u>	<u>Description</u>	<u>Value</u>
4.4	Number of Debris Jams:	0
4.5	Flow Regulation Type:	None
	Use:	
4.7	Stormwater Inputs	
	Overland Flow	Road Ditch
	Field Ditch	Tile Drain
	Other	Ub Strm Wtr Pipe
4.9	Beaver Dams:	0
	Affected length (ft.):	0.0
5.2	Migration Features	
	Flood Chutes:	3
	Neck Cutoffs:	0
	Channel Avulsions:	0
	Braiding:	1
5.3	Steep Riffles and Head Cuts	
	Steep Riffles:	0
	Head Cuts:	0
5.4	Animal Crossings:	No
5.5	Channel Alterations	
	Straightening:	Straightening
	Length (ft.):	1,025.8
	Dredging:	None



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Lewis Creek

SGAT Version: 4.56

Reach: T6.06 -A

<u>Step</u>	<u>Description</u>	<u>Value</u>	<u>Step</u>	<u>Description</u>	<u>Value</u>
1.2	Alluvial Fan:	None	4.4	Number of Debris Jams:	0
1.3	<u>Encroachments - Side</u>	<u>One</u>	4.5	Flow Regulation Type:	None
		<u>Both</u>		Use:	
	Berm Length (ft.):	0.0	4.7	Stormwater Inputs	
	Path Length (ft.):	0.0	Overland Flow	Road Ditch	
	Road Length (ft.):	1,791.4	Field Ditch	Tile Drain	
	Railroad Lenth (ft.):	0.0	Other	Ub Strm Wtr Pipe	
	Development Length:	333.4	4.9	Beaver Dams:	6
3.1	<u>Erosion - Bank</u>	<u>Left</u>		Affected length (ft.):	910.0
	Erosion Length (ft.):	0.0	5.2	Migration Features	
	Erosion Height (ft.):	0.0	Flood Chutes:	0	
	Revetment Type:	None	Neck Cutoffs:	0	
	Revetment length	0.0	Channel Avulsions:	0	
3.2	<u>Buffer Less Than 25 ft.</u>	0	Braiding:	2	
3.3	<u>Riparian Corridor</u>	<u>Left</u>	5.3	Steep Riffles and Head Cuts	
	Mass Failures:		Steep Riffles:	1	
	Average Height (ft.):		Head Cuts:	0	
	Mass Failures:	None	5.4	Animal Crossings:	No
	Average Heigh (ft.):		5.5	Channel Alterations	
	Gullies:	None	Straightening:	With Windrowing	
	Number of Gullies		Length (ft.):	448.5	
	Total Length of Gullies (ft.):		Dredging:	None	
	Average Height of Gullies				



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SGAT Version: 4.56

Reach: **M13 -A**

<u>Step</u>	<u>Description</u>	<u>Value</u>	
1.2	Alluvial Fan:	None	
1.3	<u>Encroachments - Side</u>	<u>One</u>	<u>Both</u>
	Berm Length (ft.):	0.0	0.0
	Path Length (ft.):	0.0	0.0
	Road Length (ft.):	0.0	0.0
	Railroad Lenth (ft.):	0.0	0.0
	Development Length:	0.0	0.0
3.1	<u>Erosion - Bank</u>	<u>Left</u>	<u>Right</u>
	Erosion Length (ft.):	681.3	730.7
	Erosion Height (ft.):	7.3	7.0
	Revetment Type:	None	None
	Revetment length	0.0	0.0
3.2	<u>Buffer Less Than 25 ft.</u>	413	0
3.3	<u>Riparian Corridor</u>	<u>Left</u>	<u>Right</u>
	Mass Failures:		
	Average Height (ft.):		
	Mass Failures:	None	
	Average Heigh (ft.):		
	Gullies:	None	
	Number of Gullies		
	Total Length of Gullies (ft.):		
	Average Height of Gullies		

<u>Step</u>	<u>Description</u>	<u>Value</u>
4.4	Number of Debris Jams:	0
4.5	Flow Regulation Type:	None
	Use:	
4.7	Stormwater Inputs	
	Overland Flow	Road Ditch
	Field Ditch	Tile Drain
	Other	Ub Strm Wtr Pipe
4.9	Beaver Dams:	3
	Affected length (ft.):	2,950.0
5.2	Migration Features	
	Flood Chutes:	0
	Neck Cutoffs:	0
	Channel Avulsions:	0
	Braiding:	1
5.3	Steep Riffles and Head Cuts	
	Steep Riffles:	0
	Head Cuts:	0
5.4	Animal Crossings:	No
5.5	Channel Alterations	
	Straightening:	Straightening
	Length (ft.):	1,733.9
	Dredging:	None



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SGAT Version: **4.56**

Reach: **M09 -B**

<u>Step</u>	<u>Description</u>	<u>Value</u>	
1.2	Alluvial Fan:	None	
1.3	<u>Encroachments - Side</u>	<u>One</u>	<u>Both</u>
	Berm Length (ft.):	0.0	0.0
	Path Length (ft.):	0.0	0.0
	Road Length (ft.):	301.0	0.0
	Railroad Lenth (ft.):	0.0	0.0
	Development Length:	297.8	41.1
3.1	<u>Erosion - Bank</u>	<u>Left</u>	<u>Right</u>
	Erosion Length (ft.):	0.0	0.0
	Erosion Height (ft.):	0.0	0.0
	Revetment Type:	None	None
	Revetment length	0.0	0.0
3.2	<u>Buffer Less Than 25 ft.</u>	168	0
3.3	<u>Riparian Corridor</u>	<u>Left</u>	<u>Right</u>
	Mass Failures:		
	Average Height (ft.):		
	Mass Failures:	None	
	Average Heigh (ft.):		
	Gullies:	None	
	Number of Gullies		
	Total Length of Gullies (ft.):		
	Average Height of Gullies		

<u>Step</u>	<u>Description</u>	<u>Value</u>
4.4	Number of Debris Jams:	0
4.5	Flow Regulation Type:	Small Run of River
	Use:	Other
4.7	Stormwater Inputs	
	Overland Flow	0
	Road Ditch	1
	Field Ditch	0
	Tile Drain	0
	Other	0
	Ub Strm Wtr Pipe	0
4.9	Beaver Dams:	0
	Affected length (ft.):	0.0
5.2	Migration Features	
	Flood Chutes:	0
	Neck Cutoffs:	0
	Channel Avulsions:	0
	Braiding:	0
5.3	Steep Riffles and Head Cuts	
	Steep Riffles:	0
	Head Cuts:	0
5.4	Animal Crossings:	No
5.5	Channel Alterations	
	Straightening:	None
	Length (ft.):	0.0
	Dredging:	None



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SGAT Version: 4.56

Reach: T3.02 -0

<u>Step</u>	<u>Description</u>	<u>Value</u>	
1.2	Alluvial Fan:	None	
1.3	<u>Encroachments - Side</u>	<u>One</u>	<u>Both</u>
	Berm Length (ft.):	0.0	0.0
	Path Length (ft.):	654.9	0.0
	Road Length (ft.):	0.0	0.0
	Railroad Lenth (ft.):	0.0	0.0
	Development Length:	0.0	0.0
3.1	<u>Erosion - Bank</u>	<u>Left</u>	<u>Right</u>
	Erosion Length (ft.):	61.2	87.7
	Erosion Height (ft.):	4.0	4.0
	Revetment Type:	None	None
	Revetment length	0.0	0.0
3.2	<u>Buffer Less Than 25 ft.</u>	0	560
3.3	<u>Riparian Corridor</u>	<u>Left</u>	<u>Right</u>
	Mass Failures:		
	Average Height (ft.):		
	Mass Failures:	None	
	Average Heigh (ft.):		
	Gullies:	Multiple	
	Number of Gullies	5	
	Total Length of Gullies (ft.):		
	Average Height of Gullies	2.2	

<u>Step</u>	<u>Description</u>	<u>Value</u>
4.4	Number of Debris Jams:	2
4.5	Flow Regulation Type:	Small Withdrawal
	Use:	Other
4.7	Stormwater Inputs	
	Overland Flow	5
	Road Ditch	0
	Field Ditch	0
	Tile Drain	0
	Other	0
	Ub Strm Wtr Pipe	0
4.9	Beaver Dams:	1
	Affected length (ft.):	300.0
5.2	Migration Features	
	Flood Chutes:	2
	Neck Cutoffs:	0
	Channel Avulsions:	0
	Braiding:	0
5.3	Steep Riffles and Head Cuts	
	Steep Riffles:	0
	Head Cuts:	0
5.4	Animal Crossings:	No
5.5	Channel Alterations	
	Straightening:	None
	Length (ft.):	0.0
	Dredging:	None



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SGAT Version: **4.56**

Reach: **M06 -0**

<u>Step</u>	<u>Description</u>	<u>Value</u>	
1.2	Alluvial Fan:	None	
1.3	<u>Encroachments - Side</u>	<u>One</u>	<u>Both</u>
	Berm Length (ft.):	0.0	0.0
	Path Length (ft.):	0.0	0.0
	Road Length (ft.):	0.0	0.0
	Railroad Lenth (ft.):	0.0	0.0
	Development Length:	128.5	0.0
3.1	<u>Erosion - Bank</u>	<u>Left</u>	<u>Right</u>
	Erosion Length (ft.):	1,471.2	1,543.8
	Erosion Height (ft.):	4.6	4.0
	Revetment Type:	None	Rip-Rap
	Revetment length	0.0	162.9
3.2	<u>Buffer Less Than 25 ft.</u>	0	0
3.3	<u>Riparian Corridor</u>	<u>Left</u>	<u>Right</u>
	Mass Failures:	49.8	86.48
	Average Height (ft.):	60.0	8.0
	Mass Failures:	Multiple	
	Average Heigh (ft.):	34.0	
	Gullies:	None	
	Number of Gullies		
	Total Length of Gullies (ft.):		
	Average Height of Gullies		

<u>Step</u>	<u>Description</u>	<u>Value</u>
4.4	Number of Debris Jams:	1
4.5	Flow Regulation Type:	None
	Use:	
4.7	Stormwater Inputs	
	Overland Flow 0	Road Ditch 0
	Field Ditch 0	Tile Drain 0
	Other 1	Ub Strm Wtr Pipe 0
4.9	Beaver Dams:	0
	Affected length (ft.):	0.0
5.2	Migration Features	
	Flood Chutes:	3
	Neck Cutoffs:	0
	Channel Avulsions:	1
	Braiding:	2
5.3	Steep Riffles and Head Cuts	
	Steep Riffles:	8
	Head Cuts:	0
5.4	Animal Crossings:	No
5.5	Channel Alterations	
	Straightening:	Straightening
	Length (ft.):	1,838.3
	Dredging:	None



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Lewis Creek

SGAT Version: **4.56**

Reach: **M14 -0**

<u>Step</u>	<u>Description</u>	<u>Value</u>
1.2	Alluvial Fan:	None
1.3	<u>Encroachments - Side</u>	<u>One</u> <u>Both</u>
	Berm Length (ft.):	0.0 0.0
	Path Length (ft.):	0.0 0.0
	Road Length (ft.):	3,002.9 0.0
	Railroad Lenth (ft.):	0.0 0.0
	Development Length:	645.1 49.7
3.1	<u>Erosion - Bank</u>	<u>Left</u> <u>Right</u>
	Erosion Length (ft.):	0.0 0.0
	Erosion Height (ft.):	0.0 0.0
	Revetment Type:	Rip-Rap Rip-Rap
	Revetment length	47.3 125.9
3.2	<u>Buffer Less Than 25 ft.</u>	141 1175
3.3	<u>Riparian Corridor</u>	<u>Left</u> <u>Right</u>
	Mass Failures:	
	Average Height (ft.):	
	Mass Failures:	None
	Average Heigh (ft.):	
	Gullies:	None
	Number of Gullies	
	Total Length of Gullies (ft.):	
	Average Height of Gullies	

<u>Step</u>	<u>Description</u>	<u>Value</u>
4.4	Number of Debris Jams:	1
4.5	Flow Regulation Type:	Small Withdrawal
	Use:	Other
4.7	Stormwater Inputs	
	Overland Flow 0 Road Ditch	2
	Field Ditch 0 Tile Drain	0
	Other 0 Ub Strm Wtr Pipe	0
4.9	Beaver Dams:	0
	Affected length (ft.):	0.0
5.2	Migration Features	
	Flood Chutes:	0
	Neck Cutoffs:	0
	Channel Avulsions:	0
	Braiding:	1
5.3	Steep Riffles and Head Cuts	
	Steep Riffles:	0
	Head Cuts:	0
5.4	Animal Crossings:	No
5.5	Channel Alterations	
	Straightening:	None
	Length (ft.):	0.0
	Dredging:	None



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SGAT Version: **4.56**

Reach: **M14 -0**

<u>Step</u>	<u>Description</u>	<u>Value</u>
1.2	Alluvial Fan:	None
1.3	<u>Encroachments - Side</u>	<u>One</u> <u>Both</u>
	Berm Length (ft.):	0.0 0.0
	Path Length (ft.):	0.0 0.0
	Road Length (ft.):	3,002.9 0.0
	Railroad Lenth (ft.):	0.0 0.0
	Development Length:	645.1 49.7
3.1	<u>Erosion - Bank</u>	<u>Left</u> <u>Right</u>
	Erosion Length (ft.):	0.0 0.0
	Erosion Height (ft.):	0.0 0.0
	Revetment Type:	Rip-Rap Rip-Rap
	Revetment length	47.3 125.9
3.2	<u>Buffer Less Than 25 ft.</u>	141 1175
3.3	<u>Riparian Corridor</u>	<u>Left</u> <u>Right</u>
	Mass Failures:	
	Average Height (ft.):	
	Mass Failures:	None
	Average Heigh (ft.):	
	Gullies:	None
	Number of Gullies	
	Total Length of Gullies (ft.):	
	Average Height of Gullies	

<u>Step</u>	<u>Description</u>	<u>Value</u>
4.4	Number of Debris Jams:	1
4.5	Flow Regulation Type:	Small Withdrawal
	Use:	Other
4.7	Stormwater Inputs	
	Overland Flow 1	Road Ditch 0
	Field Ditch 0	Tile Drain 0
	Other 0	Ub Strm Wtr Pipe 0
4.9	Beaver Dams:	0
	Affected length (ft.):	0.0
5.2	Migration Features	
	Flood Chutes:	0
	Neck Cutoffs:	0
	Channel Avulsions:	0
	Braiding:	1
5.3	Steep Riffles and Head Cuts	
	Steep Riffles:	0
	Head Cuts:	0
5.4	Animal Crossings:	No
5.5	Channel Alterations	
	Straightening:	None
	Length (ft.):	0.0
	Dredging:	None



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Reach: **M14 -0**

<u>Step</u>	<u>Description</u>	<u>Value</u>
1.2	Alluvial Fan:	None
1.3	<u>Encroachments - Side</u>	<u>One</u> <u>Both</u>
	Berm Length (ft.):	0.0 0.0
	Path Length (ft.):	0.0 0.0
	Road Length (ft.):	3,002.9 0.0
	Railroad Lenth (ft.):	0.0 0.0
	Development Length:	645.1 49.7
3.1	<u>Erosion - Bank</u>	<u>Left</u> <u>Right</u>
	Erosion Length (ft.):	0.0 0.0
	Erosion Height (ft.):	0.0 0.0
	Revetment Type:	Rip-Rap Rip-Rap
	Revetment length	47.3 125.9
3.2	<u>Buffer Less Than 25 ft.</u>	141 1175
3.3	<u>Riparian Corridor</u>	<u>Left</u> <u>Right</u>
	Mass Failures:	
	Average Height (ft.):	
	Mass Failures:	None
	Average Heigh (ft.):	
	Gullies:	None
	Number of Gullies	
	Total Length of Gullies (ft.):	
	Average Height of Gullies	

<u>Step</u>	<u>Description</u>	<u>Value</u>
4.4	Number of Debris Jams:	1
4.5	Flow Regulation Type:	Small Withdrawal
	Use:	Other
4.7	Stormwater Inputs	
	Overland Flow	0 Road Ditch 0
	Field Ditch	0 Tile Drain 0
	Other	1 Ub Strm Wtr Pipe 0
4.9	Beaver Dams:	0
	Affected length (ft.):	0.0
5.2	Migration Features	
	Flood Chutes:	0
	Neck Cutoffs:	0
	Channel Avulsions:	0
	Braiding:	1
5.3	Steep Riffles and Head Cuts	
	Steep Riffles:	0
	Head Cuts:	0
5.4	Animal Crossings:	No
5.5	Channel Alterations	
	Straightening:	None
	Length (ft.):	0.0
	Dredging:	None



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SGAT Version: 4.56

Reach: **M20 -B**

<u>Step</u>	<u>Description</u>	<u>Value</u>	
1.2	Alluvial Fan:	None	
1.3	<u>Encroachments - Side</u>	<u>One</u>	<u>Both</u>
	Berm Length (ft.):	0.0	0.0
	Path Length (ft.):	402.2	0.0
	Road Length (ft.):	0.0	0.0
	Railroad Lenth (ft.):	0.0	0.0
	Development Length:	0.0	0.0
3.1	<u>Erosion - Bank</u>	<u>Left</u>	<u>Right</u>
	Erosion Length (ft.):	0.0	0.0
	Erosion Height (ft.):	0.0	0.0
	Revetment Type:	None	None
	Revetment length	0.0	0.0
3.2	<u>Buffer Less Than 25 ft.</u>	0	0
3.3	<u>Riparian Corridor</u>	<u>Left</u>	<u>Right</u>
	Mass Failures:		
	Average Height (ft.):		
	Mass Failures:	None	
	Average Heigh (ft.):		
	Gullies:	None	
	Number of Gullies		
	Total Length of Gullies (ft.):		
	Average Height of Gullies		

<u>Step</u>	<u>Description</u>	<u>Value</u>
4.4	Number of Debris Jams:	1
4.5	Flow Regulation Type:	None
	Use:	
4.7	Stormwater Inputs	
	Overland Flow	Road Ditch
	Field Ditch	Tile Drain
	Other	Ub Strm Wtr Pipe
4.9	Beaver Dams:	0
	Affected length (ft.):	0.0
5.2	Migration Features	
	Flood Chutes:	1
	Neck Cutoffs:	0
	Channel Avulsions:	0
	Braiding:	0
5.3	Steep Riffles and Head Cuts	
	Steep Riffles:	0
	Head Cuts:	0
5.4	Animal Crossings:	No
5.5	Channel Alterations	
	Straightening:	Straightening
	Length (ft.):	690.2
	Dredging:	None



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SGAT Version: **4.56**

Reach: **T4.01 -A**

<u>Step</u>	<u>Description</u>	<u>Value</u>	
1.2	Alluvial Fan:	None	
1.3	<u>Encroachments - Side</u>	<u>One</u>	<u>Both</u>
	Berm Length (ft.):	0.0	0.0
	Path Length (ft.):	0.0	0.0
	Road Length (ft.):	0.0	0.0
	Railroad Lenth (ft.):	0.0	0.0
	Development Length:	289.3	0.0
3.1	<u>Erosion - Bank</u>	<u>Left</u>	<u>Right</u>
	Erosion Length (ft.):	238.7	61.3
	Erosion Height (ft.):	3.2	4.0
	Revetment Type:	Rip-Rap	Rip-Rap
	Revetment length	29.8	52.5
3.2	<u>Buffer Less Than 25 ft.</u>	264	286
3.3	<u>Riparian Corridor</u>	<u>Left</u>	<u>Right</u>
	Mass Failures:		
	Average Height (ft.):		
	Mass Failures:	None	
	Average Heigh (ft.):		
	Gullies:	None	
	Number of Gullies		
	Total Length of Gullies (ft.):		
	Average Height of Gullies		

<u>Step</u>	<u>Description</u>	<u>Value</u>
4.4	Number of Debris Jams:	6
4.5	Flow Regulation Type:	None
	Use:	
4.7	Stormwater Inputs	
	Overland Flow	Road Ditch
	Field Ditch	Tile Drain
	Other	Ub Strm Wtr Pipe
4.9	Beaver Dams:	2
	Affected length (ft.):	202.0
5.2	Migration Features	
	Flood Chutes:	4
	Neck Cutoffs:	0
	Channel Avulsions:	1
	Braiding:	3
5.3	Steep Riffles and Head Cuts	
	Steep Riffles:	1
	Head Cuts:	0
5.4	Animal Crossings:	Yes
5.5	Channel Alterations	
	Straightening:	Straightening
	Length (ft.):	232.2
	Dredging:	Dredging



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SGAT Version: **4.56**

Reach: **M10 -D**

<u>Step</u>	<u>Description</u>	<u>Value</u>		<u>Step</u>	<u>Description</u>	<u>Value</u>
1.2	Alluvial Fan:	None		4.4	Number of Debris Jams:	0
1.3	<u>Encroachments - Side</u>	<u>One</u>	<u>Both</u>	4.5	Flow Regulation Type:	None
	Berm Length (ft.):	0.0	0.0		Use:	
	Path Length (ft.):	0.0	0.0	4.7	Stormwater Inputs	
	Road Length (ft.):	741.9	0.0	Overland Flow	Road Ditch	
	Railroad Lenth (ft.):	0.0	0.0	Field Ditch	Tile Drain	
	Development Length:	317.7	0.0	Other	Ub Strm Wtr Pipe	
3.1	<u>Erosion - Bank</u>	<u>Left</u>	<u>Right</u>	4.9	Beaver Dams:	0
	Erosion Length (ft.):	308.5	166.5		Affected length (ft.):	0.0
	Erosion Height (ft.):	2.2	2.4	5.2	Migration Features	
	Revetment Type:	None	None	Flood Chutes:	1	
	Revetment length	0.0	0.0	Neck Cutoffs:	0	
3.2	<u>Buffer Less Than 25 ft.</u>	209	0	Channel Avulsions:	0	
3.3	<u>Riparian Corridor</u>	<u>Left</u>	<u>Right</u>	Braiding:	0	
	Mass Failures:			5.3	Steep Riffles and Head Cuts	
	Average Height (ft.):			Steep Riffles:	0	
	Mass Failures:	None		Head Cuts:	0	
	Average Heigh (ft.):			5.4	Animal Crossings:	No
	Gullies:	None		5.5	Channel Alterations	
	Number of Gullies			Straightening:	None	
	Total Length of Gullies (ft.):			Length (ft.):	0.0	
	Average Height of Gullies			Dredging:	None	



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SGAT Version: **4.56**

Reach: **M10 -F**

<u>Step</u>	<u>Description</u>	<u>Value</u>	
1.2	Alluvial Fan:	None	
1.3	<u>Encroachments - Side</u>	<u>One</u>	<u>Both</u>
	Berm Length (ft.):	0.0	0.0
	Path Length (ft.):	0.0	0.0
	Road Length (ft.):	82.1	0.0
	Railroad Lenth (ft.):	0.0	0.0
	Development Length:	0.0	54.0
3.1	<u>Erosion - Bank</u>	<u>Left</u>	<u>Right</u>
	Erosion Length (ft.):	0.0	0.0
	Erosion Height (ft.):	0.0	0.0
	Revetment Type:	None	Rip-Rap
	Revetment length	0.0	43.6
3.2	<u>Buffer Less Than 25 ft.</u>	0	0
3.3	<u>Riparian Corridor</u>	<u>Left</u>	<u>Right</u>
	Mass Failures:		
	Average Height (ft.):		
	Mass Failures:	None	
	Average Heigh (ft.):		
	Gullies:	None	
	Number of Gullies		
	Total Length of Gullies (ft.):		
	Average Height of Gullies		

<u>Step</u>	<u>Description</u>	<u>Value</u>
4.4	Number of Debris Jams:	0
4.5	Flow Regulation Type:	None
	Use:	
4.7	Stormwater Inputs	
	Overland Flow 0	Road Ditch 3
	Field Ditch 0	Tile Drain 0
	Other 0	Ub Strm Wtr Pipe 0
4.9	Beaver Dams:	0
	Affected length (ft.):	0.0
5.2	Migration Features	
	Flood Chutes:	0
	Neck Cutoffs:	0
	Channel Avulsions:	0
	Braiding:	0
5.3	Steep Riffles and Head Cuts	
	Steep Riffles:	0
	Head Cuts:	0
5.4	Animal Crossings:	No
5.5	Channel Alterations	
	Straightening:	None
	Length (ft.):	0.0
	Dredging:	None



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SGAT Version: **4.56**

Reach: **T4.05 -D**

<u>Step</u>	<u>Description</u>	<u>Value</u>
1.2	Alluvial Fan:	None
1.3	<u>Encroachments - Side</u>	<u>One</u> <u>Both</u>
	Berm Length (ft.):	0.0 0.0
	Path Length (ft.):	0.0 0.0
	Road Length (ft.):	179.3 359.2
	Railroad Lenth (ft.):	0.0 0.0
	Development Length:	271.7 129.0
3.1	<u>Erosion - Bank</u>	<u>Left</u> <u>Right</u>
	Erosion Length (ft.):	307.5 452.2
	Erosion Height (ft.):	2.9 2.2
	Revetment Type:	Rip-Rap None
	Revetment length	113.4 0.0
3.2	<u>Buffer Less Than 25 ft.</u>	741 394
3.3	<u>Riparian Corridor</u>	<u>Left</u> <u>Right</u>
	Mass Failures:	27.59
	Average Height (ft.):	15.0
	Mass Failures:	One
	Average Heigh (ft.):	15.0
	Gullies:	None
	Number of Gullies	
	Total Length of Gullies (ft.):	
	Average Height of Gullies	

<u>Step</u>	<u>Description</u>	<u>Value</u>
4.4	Number of Debris Jams:	3
4.5	Flow Regulation Type:	Small Store and Release
	Use:	Other
4.7	Stormwater Inputs	
	Overland Flow	0 Road Ditch 1
	Field Ditch	0 Tile Drain 0
	Other	0 Ub Strm Wtr Pipe 0
4.9	Beaver Dams:	0
	Affected length (ft.):	0.0
5.2	Migration Features	
	Flood Chutes:	1
	Neck Cutoffs:	0
	Channel Avulsions:	0
	Braiding:	1
5.3	Steep Riffles and Head Cuts	
	Steep Riffles:	0
	Head Cuts:	0
5.4	Animal Crossings:	No
5.5	Channel Alterations	
	Straightening:	None
	Length (ft.):	0.0
	Dredging:	Dredging



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SGAT Version: 4.56

Reach: T4.05 -B

<u>Step</u>	<u>Description</u>	<u>Value</u>	
1.2	Alluvial Fan:	None	
1.3	<u>Encroachments - Side</u>	<u>One</u>	<u>Both</u>
	Berm Length (ft.):	0.0	0.0
	Path Length (ft.):	0.0	0.0
	Road Length (ft.):	0.0	0.0
	Railroad Lenth (ft.):	0.0	0.0
	Development Length:	0.0	0.0
3.1	<u>Erosion - Bank</u>	<u>Left</u>	<u>Right</u>
	Erosion Length (ft.):	268.3	388.6
	Erosion Height (ft.):	2.6	2.4
	Revetment Type:	None	None
	Revetment length	0.0	0.0
3.2	<u>Buffer Less Than 25 ft.</u>	0	0
3.3	<u>Riparian Corridor</u>	<u>Left</u>	<u>Right</u>
	Mass Failures:	83.85	76.3
	Average Height (ft.):	35.2	100.0
	Mass Failures:	Multiple	
	Average Heigh (ft.):	53.3	
	Gullies:	None	
	Number of Gullies		
	Total Length of Gullies (ft.):		
	Average Height of Gullies		

<u>Step</u>	<u>Description</u>	<u>Value</u>
4.4	Number of Debris Jams:	5
4.5	Flow Regulation Type:	None
	Use:	
4.7	Stormwater Inputs	
	Overland Flow	Road Ditch
	Field Ditch	Tile Drain
	Other	Ub Strm Wtr Pipe
4.9	Beaver Dams:	0
	Affected length (ft.):	0.0
5.2	Migration Features	
	Flood Chutes:	2
	Neck Cutoffs:	0
	Channel Avulsions:	0
	Braiding:	1
5.3	Steep Riffles and Head Cuts	
	Steep Riffles:	0
	Head Cuts:	0
5.4	Animal Crossings:	No
5.5	Channel Alterations	
	Straightening:	None
	Length (ft.):	0.0
	Dredging:	None



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SGAT Version: **4.56**

Reach: **T6.01 -0**

<u>Step</u>	<u>Description</u>	<u>Value</u>
1.2	Alluvial Fan:	None
1.3	<u>Encroachments - Side</u>	<u>One</u> <u>Both</u>
	Berm Length (ft.):	0.0 0.0
	Path Length (ft.):	0.0 0.0
	Road Length (ft.):	0.0 0.0
	Railroad Lenth (ft.):	0.0 0.0
	Development Length:	484.7 0.0
3.1	<u>Erosion - Bank</u>	<u>Left</u> <u>Right</u>
	Erosion Length (ft.):	188.2 231.2
	Erosion Height (ft.):	3.0 2.8
	Revetment Type:	Rip-Rap None
	Revetment length	57.9 0.0
3.2	<u>Buffer Less Than 25 ft.</u>	499 0
3.3	<u>Riparian Corridor</u>	<u>Left</u> <u>Right</u>
	Mass Failures:	37.26
	Average Height (ft.):	10.0
	Mass Failures:	One
	Average Heigh (ft.):	10.0
	Gullies:	None
	Number of Gullies	
	Total Length of Gullies (ft.):	
	Average Height of Gullies	

<u>Step</u>	<u>Description</u>	<u>Value</u>
4.4	Number of Debris Jams:	7
4.5	Flow Regulation Type:	None
	Use:	
4.7	Stormwater Inputs	
	Overland Flow	Road Ditch
	Field Ditch	Tile Drain
	Other	Ub Strm Wtr Pipe
4.9	Beaver Dams:	0
	Affected length (ft.):	0.0
5.2	Migration Features	
	Flood Chutes:	4
	Neck Cutoffs:	0
	Channel Avulsions:	0
	Braiding:	0
5.3	Steep Riffles and Head Cuts	
	Steep Riffles:	1
	Head Cuts:	0
5.4	Animal Crossings:	Yes
5.5	Channel Alterations	
	Straightening:	None
	Length (ft.):	0.0
	Dredging:	None



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SGAT Version: **4.56**

Reach: **M18 -0**

<u>Step</u>	<u>Description</u>	<u>Value</u>
1.2	Alluvial Fan:	None
1.3	<u>Encroachments - Side</u>	<u>One</u> <u>Both</u>
	Berm Length (ft.):	139.8 0.0
	Path Length (ft.):	0.0 0.0
	Road Length (ft.):	1,397.4 42.3
	Railroad Lenth (ft.):	0.0 0.0
	Development Length:	217.4 241.6
3.1	<u>Erosion - Bank</u>	<u>Left</u> <u>Right</u>
	Erosion Length (ft.):	193.5 0.0
	Erosion Height (ft.):	3.0 0.0
	Revetment Type:	Rip-Rap None
	Revetment length	69.5 0.0
3.2	<u>Buffer Less Than 25 ft.</u>	324 148
3.3	<u>Riparian Corridor</u>	<u>Left</u> <u>Right</u>
	Mass Failures:	92.5
	Average Height (ft.):	30.0
	Mass Failures:	None
	Average Heigh (ft.):	
	Gullies:	None
	Number of Gullies	
	Total Length of Gullies (ft.):	
	Average Height of Gullies	

<u>Step</u>	<u>Description</u>	<u>Value</u>
4.4	Number of Debris Jams:	2
4.5	Flow Regulation Type:	None
	Use:	
4.7	Stormwater Inputs	
	Overland Flow 0	Road Ditch 5
	Field Ditch 0	Tile Drain 0
	Other 0	Ub Strm Wtr Pipe 0
4.9	Beaver Dams:	0
	Affected length (ft.):	0.0
5.2	Migration Features	
	Flood Chutes:	1
	Neck Cutoffs:	0
	Channel Avulsions:	0
	Braiding:	1
5.3	Steep Riffles and Head Cuts	
	Steep Riffles:	0
	Head Cuts:	0
5.4	Animal Crossings:	No
5.5	Channel Alterations	
	Straightening:	None
	Length (ft.):	0.0
	Dredging:	None



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Lewis Creek

SGAT Version: 4.56

Reach: T6.3S1.01 -0

<u>Step</u>	<u>Description</u>	<u>Value</u>	
1.2	Alluvial Fan:	None	
1.3	<u>Encroachments - Side</u>	<u>One</u>	<u>Both</u>
	Berm Length (ft.):	742.2	0.0
	Path Length (ft.):	0.0	0.0
	Road Length (ft.):	0.0	0.0
	Railroad Lenth (ft.):	0.0	0.0
	Development Length:	162.5	0.0
3.1	<u>Erosion - Bank</u>	<u>Left</u>	<u>Right</u>
	Erosion Length (ft.):	260.9	305.5
	Erosion Height (ft.):	3.0	2.7
	Revetment Type:	None	None
	Revetment length	0.0	0.0
3.2	<u>Buffer Less Than 25 ft.</u>	0	718
3.3	<u>Riparian Corridor</u>	<u>Left</u>	<u>Right</u>
	Mass Failures:		
	Average Height (ft.):		
	Mass Failures:	None	
	Average Heigh (ft.):		
	Gullies:	None	
	Number of Gullies		
	Total Length of Gullies (ft.):		
	Average Height of Gullies		

<u>Step</u>	<u>Description</u>	<u>Value</u>
4.4	Number of Debris Jams:	2
4.5	Flow Regulation Type:	None
	Use:	
4.7	Stormwater Inputs	
	Overland Flow	Road Ditch
	Field Ditch	Tile Drain
	Other	Ub Strm Wtr Pipe
4.9	Beaver Dams:	0
	Affected length (ft.):	0.0
5.2	Migration Features	
	Flood Chutes:	0
	Neck Cutoffs:	0
	Channel Avulsions:	0
	Braiding:	0
5.3	Steep Riffles and Head Cuts	
	Steep Riffles:	2
	Head Cuts:	0
5.4	Animal Crossings:	No
5.5	Channel Alterations	
	Straightening:	With Windrowing
	Length (ft.):	1,371.6
	Dredging:	None



Phase 2 - FIT - Legacy Data Report

Lewis Creek

SGAT Version: 4.56

Reach: T4.02 -C

<u>Step</u>	<u>Description</u>	<u>Value</u>	
1.2	Alluvial Fan:	None	
1.3	<u>Encroachments - Side</u>	<u>One</u>	<u>Both</u>
	Berm Length (ft.):	0.0	0.0
	Path Length (ft.):	0.0	0.0
	Road Length (ft.):	163.7	0.0
	Railroad Lenth (ft.):	0.0	0.0
	Development Length:	0.0	0.0
3.1	<u>Erosion - Bank</u>	<u>Left</u>	<u>Right</u>
	Erosion Length (ft.):	0.0	0.0
	Erosion Height (ft.):	0.0	0.0
	Revetment Type:	None	None
	Revetment length	0.0	0.0
3.2	<u>Buffer Less Than 25 ft.</u>	190	0
3.3	<u>Riparian Corridor</u>	<u>Left</u>	<u>Right</u>
	Mass Failures:		
	Average Height (ft.):		
	Mass Failures:	None	
	Average Heigh (ft.):		
	Gullies:	None	
	Number of Gullies		
	Total Length of Gullies (ft.):		
	Average Height of Gullies		

<u>Step</u>	<u>Description</u>	<u>Value</u>
4.4	Number of Debris Jams:	0
4.5	Flow Regulation Type:	None
	Use:	
4.7	Stormwater Inputs	
	Overland Flow	Road Ditch
	Field Ditch	Tile Drain
	Other	Ub Strm Wtr Pipe
4.9	Beaver Dams:	2
	Affected length (ft.):	375.0
5.2	Migration Features	
	Flood Chutes:	0
	Neck Cutoffs:	0
	Channel Avulsions:	0
	Braiding:	0
5.3	Steep Riffles and Head Cuts	
	Steep Riffles:	0
	Head Cuts:	0
5.4	Animal Crossings:	No
5.5	Channel Alterations	
	Straightening:	None
	Length (ft.):	0.0
	Dredging:	None



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Lewis Creek

SGAT Version: **4.56**

Reach: **M12 -C**

<u>Step</u>	<u>Description</u>	<u>Value</u>	
1.2	Alluvial Fan:	None	
1.3	<u>Encroachments - Side</u>	<u>One</u>	<u>Both</u>
	Berm Length (ft.):	0.0	0.0
	Path Length (ft.):	0.0	0.0
	Road Length (ft.):	0.0	0.0
	Railroad Lenth (ft.):	0.0	0.0
	Development Length:	0.0	0.0
3.1	<u>Erosion - Bank</u>	<u>Left</u>	<u>Right</u>
	Erosion Length (ft.):	1,925.5	1,885.8
	Erosion Height (ft.):	7.0	7.0
	Revetment Type:	None	None
	Revetment length	0.0	0.0
3.2	<u>Buffer Less Than 25 ft.</u>	123	0
3.3	<u>Riparian Corridor</u>	<u>Left</u>	<u>Right</u>
	Mass Failures:	157.98	
	Average Height (ft.):	12.0	
	Mass Failures:	Multiple	
	Average Heigh (ft.):	12.0	
	Gullies:	None	
	Number of Gullies	0	
	Total Length of Gullies (ft.):	0.0	
	Average Height of Gullies		

<u>Step</u>	<u>Description</u>	<u>Value</u>
4.4	Number of Debris Jams:	0
4.5	Flow Regulation Type:	None
	Use:	
4.7	Stormwater Inputs	
	Overland Flow	Road Ditch
	Field Ditch	Tile Drain
	Other	Ub Strm Wtr Pipe
4.9	Beaver Dams:	1
	Affected length (ft.):	7,200.0
5.2	Migration Features	
	Flood Chutes:	0
	Neck Cutoffs:	2
	Channel Avulsions:	0
	Braiding:	0
5.3	Steep Riffles and Head Cuts	
	Steep Riffles:	0
	Head Cuts:	0
5.4	Animal Crossings:	No
5.5	Channel Alterations	
	Straightening:	None
	Length (ft.):	0.0
	Dredging:	None



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Lewis Creek

SGAT Version: 4.56

Reach: **M15 -A**

<u>Step</u>	<u>Description</u>	<u>Value</u>	
1.2	Alluvial Fan:	None	
1.3	<u>Encroachments - Side</u>	<u>One</u>	<u>Both</u>
	Berm Length (ft.):	0.0	0.0
	Path Length (ft.):	0.0	0.0
	Road Length (ft.):	604.7	0.0
	Railroad Lenth (ft.):	0.0	0.0
	Development Length:	425.8	0.0
3.1	<u>Erosion - Bank</u>	<u>Left</u>	<u>Right</u>
	Erosion Length (ft.):	2,059.5	1,352.5
	Erosion Height (ft.):	3.0	3.3
	Revetment Type:	None	Rip-Rap
	Revetment length	0.0	278.9
3.2	<u>Buffer Less Than 25 ft.</u>	0	105
3.3	<u>Riparian Corridor</u>	<u>Left</u>	<u>Right</u>
	Mass Failures:		
	Average Height (ft.):		
	Mass Failures:	None	
	Average Heigh (ft.):		
	Gullies:	None	
	Number of Gullies	0	
	Total Length of Gullies (ft.):	0.0	
	Average Height of Gullies		

<u>Step</u>	<u>Description</u>	<u>Value</u>
4.4	Number of Debris Jams:	4
4.5	Flow Regulation Type:	None
	Use:	
4.7	Stormwater Inputs	
	Overland Flow	Road Ditch
	Field Ditch	Tile Drain
	Other	Ub Strm Wtr Pipe
4.9	Beaver Dams:	2
	Affected length (ft.):	4.0
5.2	Migration Features	
	Flood Chutes:	6
	Neck Cutoffs:	1
	Channel Avulsions:	1
	Braiding:	1
5.3	Steep Riffles and Head Cuts	
	Steep Riffles:	0
	Head Cuts:	0
5.4	Animal Crossings:	No
5.5	Channel Alterations	
	Straightening:	Straightening
	Length (ft.):	1,916.3
	Dredging:	None



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Lewis Creek

SGAT Version: 4.56

Reach: T4.3S6.01 -A

<u>Step</u>	<u>Description</u>	<u>Value</u>	
1.2	Alluvial Fan:	None	
1.3	<u>Encroachments - Side</u>	<u>One</u>	<u>Both</u>
	Berm Length (ft.):	0.0	0.0
	Path Length (ft.):	0.0	0.0
	Road Length (ft.):	3,115.3	298.7
	Railroad Lenth (ft.):	0.0	0.0
	Development Length:	853.1	369.6
3.1	<u>Erosion - Bank</u>	<u>Left</u>	<u>Right</u>
	Erosion Length (ft.):	319.3	0.0
	Erosion Height (ft.):	4.8	0.0
	Revetment Type:	None	None
	Revetment length	0.0	0.0
3.2	<u>Buffer Less Than 25 ft.</u>	1268	1105
3.3	<u>Riparian Corridor</u>	<u>Left</u>	<u>Right</u>
	Mass Failures:		
	Average Height (ft.):		
	Mass Failures:	None	
	Average Heigh (ft.):		
	Gullies:	None	
	Number of Gullies		
	Total Length of Gullies (ft.):		
	Average Height of Gullies		

<u>Step</u>	<u>Description</u>	<u>Value</u>
4.4	Number of Debris Jams:	5
4.5	Flow Regulation Type:	None
	Use:	
4.7	Stormwater Inputs	
	Overland Flow 0	Road Ditch 5
	Field Ditch 0	Tile Drain 0
	Other 0	Ub Strm Wtr Pipe 0
4.9	Beaver Dams:	0
	Affected length (ft.):	0.0
5.2	Migration Features	
	Flood Chutes:	3
	Neck Cutoffs:	0
	Channel Avulsions:	0
	Braiding:	0
5.3	Steep Riffles and Head Cuts	
	Steep Riffles:	0
	Head Cuts:	0
5.4	Animal Crossings:	No
5.5	Channel Alterations	
	Straightening:	Straightening
	Length (ft.):	1,574.1
	Dredging:	None



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Lewis Creek

SGAT Version: 4.56

Reach: **M03 -0**

<u>Step</u>	<u>Description</u>	<u>Value</u>	<u>Step</u>	<u>Description</u>	<u>Value</u>	
1.2	Alluvial Fan:	None	4.4	Number of Debris Jams:	2	
1.3	<u>Encroachments - Side</u>	<u>One</u>	<u>Both</u>	4.5	Flow Regulation Type:	Small Withdrawal
	Berm Length (ft.):	0.0	0.0	Use:	Other	
	Path Length (ft.):	2,119.6	0.0	4.7	Stormwater Inputs	
	Road Length (ft.):	0.0	0.0	Overland Flow	Road Ditch	
	Railroad Lenth (ft.):	1,534.2	0.0	Field Ditch	Tile Drain	
	Development Length:	549.1	102.7	Other	Ub Strm Wtr Pipe	
3.1	<u>Erosion - Bank</u>	<u>Left</u>	<u>Right</u>	4.9	Beaver Dams:	0
	Erosion Length (ft.):	516.5	228.8	Affected length (ft.):	0.0	
	Erosion Height (ft.):	3.5	4.3	5.2	Migration Features	
	Revetment Type:	Rip-Rap	Rip-Rap	Flood Chutes:	2	
	Revetment length	169.8	9.9	Neck Cutoffs:	0	
3.2	<u>Buffer Less Than 25 ft.</u>	101	728	Channel Avulsions:	0	
3.3	<u>Riparian Corridor</u>	<u>Left</u>	<u>Right</u>	Braiding:	0	
	Mass Failures:			5.3	Steep Riffles and Head Cuts	
	Average Height (ft.):			Steep Riffles:	0	
	Mass Failures:	None		Head Cuts:	0	
	Average Heigh (ft.):			5.4	Animal Crossings:	No
	Gullies:	None		5.5	Channel Alterations	
	Number of Gullies			Straightening:	Straightening	
	Total Length of Gullies (ft.):			Length (ft.):	829.8	
	Average Height of Gullies			Dredging:	None	



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SGAT Version: 4.56

Reach: **M02 -0**

<u>Step</u>	<u>Description</u>	<u>Value</u>	<u>Step</u>	<u>Description</u>	<u>Value</u>
1.2	Alluvial Fan:	None	4.4	Number of Debris Jams:	1
1.3	<u>Encroachments - Side</u>	<u>One</u>	4.5	Flow Regulation Type:	None
	Berm Length (ft.):	0.0		Use:	
	Path Length (ft.):	869.3	4.7	Stormwater Inputs	
	Road Length (ft.):	0.0		Overland Flow	Road Ditch
	Railroad Lenth (ft.):	0.0		Field Ditch	Tile Drain
	Development Length:	0.0		Other	Ub Strm Wtr Pipe
		39.3	4.9	Beaver Dams:	0
3.1	<u>Erosion - Bank</u>	<u>Left</u>		Affected length (ft.):	0.0
	Erosion Length (ft.):	596.8	5.2	Migration Features	
	Erosion Height (ft.):	5.8		Flood Chutes:	0
	Revetment Type:	None		Neck Cutoffs:	0
	Revetment length	0.0		Channel Avulsions:	0
3.2	<u>Buffer Less Than 25 ft.</u>	1935		Braiding:	0
3.3	<u>Riparian Corridor</u>	<u>Left</u>	5.3	Steep Riffles and Head Cuts	
	Mass Failures:			Steep Riffles:	0
	Average Height (ft.):			Head Cuts:	0
	Mass Failures:	None	5.4	Animal Crossings:	Yes
	Average Heigh (ft.):		5.5	Channel Alterations	
	Gullies:	None		Straightening:	Straightening
	Number of Gullies			Length (ft.):	1,585.1
	Total Length of Gullies (ft.):			Dredging:	None
	Average Height of Gullies				



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SGAT Version: **4.56**

Reach: **M22 -0**

<u>Step</u>	<u>Description</u>	<u>Value</u>
1.2	Alluvial Fan:	Yes
1.3	<u>Encroachments - Side</u>	<u>One</u> <u>Both</u>
	Berm Length (ft.):	425.2 0.0
	Path Length (ft.):	0.0 0.0
	Road Length (ft.):	1,061.1 0.0
	Railroad Lenth (ft.):	0.0 0.0
	Development Length:	163.1 218.8
3.1	<u>Erosion - Bank</u>	<u>Left</u> <u>Right</u>
	Erosion Length (ft.):	1,870.9 1,448.9
	Erosion Height (ft.):	3.2 3.1
	Revetment Type:	Rip-Rap Rip-Rap
	Revetment length	739.3 259.7
3.2	<u>Buffer Less Than 25 ft.</u>	2113 2682
3.3	<u>Riparian Corridor</u>	<u>Left</u> <u>Right</u>
	Mass Failures:	42.7
	Average Height (ft.):	9.0
	Mass Failures:	None
	Average Heigh (ft.):	
	Gullies:	None
	Number of Gullies	
	Total Length of Gullies (ft.):	
	Average Height of Gullies	

<u>Step</u>	<u>Description</u>	<u>Value</u>
4.4	Number of Debris Jams:	0
4.5	Flow Regulation Type:	None
	Use:	
4.7	Stormwater Inputs	
Overland Flow	1 Road Ditch	0
Field Ditch	0 Tile Drain	0
Other	0 Ub Strm Wtr Pipe	0
4.9	Beaver Dams:	4
	Affected length (ft.):	203.0
5.2	Migration Features	
	Flood Chutes:	13
	Neck Cutoffs:	0
	Channel Avulsions:	0
	Braiding:	0
5.3	Steep Riffles and Head Cuts	
	Steep Riffles:	2
	Head Cuts:	0
5.4	Animal Crossings:	Yes
5.5	Channel Alterations	
	Straightening:	With Windrowing
	Length (ft.):	3,905.5
	Dredging:	Dredging



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SGAT Version: **4.56**

Reach: **T3.01 -A**

<u>Step</u>	<u>Description</u>	<u>Value</u>		<u>Step</u>	<u>Description</u>	<u>Value</u>
1.2	Alluvial Fan:	None		4.4	Number of Debris Jams:	4
1.3	<u>Encroachments - Side</u>	<u>One</u>	<u>Both</u>	4.5	Flow Regulation Type:	None
	Berm Length (ft.):	0.0	0.0		Use:	
	Path Length (ft.):	0.0	0.0	4.7	Stormwater Inputs	
	Road Length (ft.):	604.6	0.0	Overland Flow	Road Ditch	
	Railroad Lenth (ft.):	0.0	0.0	Field Ditch	Tile Drain	
	Development Length:	0.0	0.0	Other	Ub Strm Wtr Pipe	
3.1	<u>Erosion - Bank</u>	<u>Left</u>	<u>Right</u>	4.9	Beaver Dams:	0
	Erosion Length (ft.):	849.3	703.4		Affected length (ft.):	0.0
	Erosion Height (ft.):	5.0	5.0	5.2	Migration Features	
	Revetment Type:	None	None	Flood Chutes:	0	
	Revetment length	0.0	0.0	Neck Cutoffs:	1	
3.2	<u>Buffer Less Than 25 ft.</u>	93	0	Channel Avulsions:	0	
3.3	<u>Riparian Corridor</u>	<u>Left</u>	<u>Right</u>	Braiding:	1	
	Mass Failures:			5.3	Steep Riffles and Head Cuts	
	Average Height (ft.):			Steep Riffles:	0	
	Mass Failures:	None		Head Cuts:	0	
	Average Heigh (ft.):			5.4	Animal Crossings:	No
	Gullies:	None		5.5	Channel Alterations	
	Number of Gullies			Straightening:	None	
	Total Length of Gullies (ft.):			Length (ft.):	0.0	
	Average Height of Gullies			Dredging:	None	



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SGAT Version: **4.56**

Reach: **M08 -0**

<u>Step</u>	<u>Description</u>	<u>Value</u>	
1.2	Alluvial Fan:	None	
1.3	<u>Encroachments - Side</u>	<u>One</u>	<u>Both</u>
	Berm Length (ft.):	194.3	0.0
	Path Length (ft.):	0.0	0.0
	Road Length (ft.):	35.1	1,410.7
	Railroad Lenth (ft.):	0.0	0.0
	Development Length:	323.3	0.0
3.1	<u>Erosion - Bank</u>	<u>Left</u>	<u>Right</u>
	Erosion Length (ft.):	1,069.2	1,386.1
	Erosion Height (ft.):	4.7	5.6
	Revetment Type:	Rip-Rap	Rip-Rap
	Revetment length	187.4	82.2
3.2	<u>Buffer Less Than 25 ft.</u>	905	535
3.3	<u>Riparian Corridor</u>	<u>Left</u>	<u>Right</u>
	Mass Failures:	161.06	
	Average Height (ft.):	12.0	
	Mass Failures:	One	
	Average Heigh (ft.):	12.0	
	Gullies:	None	
	Number of Gullies		
	Total Length of Gullies (ft.):		
	Average Height of Gullies		

<u>Step</u>	<u>Description</u>	<u>Value</u>
4.4	Number of Debris Jams:	0
4.5	Flow Regulation Type:	None
	Use:	
4.7	Stormwater Inputs	
	Overland Flow	0
	Road Ditch	1
	Field Ditch	0
	Tile Drain	0
	Other	0
	Ub Strm Wtr Pipe	0
4.9	Beaver Dams:	0
	Affected length (ft.):	0.0
5.2	Migration Features	
	Flood Chutes:	0
	Neck Cutoffs:	0
	Channel Avulsions:	0
	Braiding:	1
5.3	Steep Riffles and Head Cuts	
	Steep Riffles:	0
	Head Cuts:	0
5.4	Animal Crossings:	No
5.5	Channel Alterations	
	Straightening:	Straightening
	Length (ft.):	305.2
	Dredging:	Dredging



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SGAT Version: **4.56**

Reach: **M10 -A**

<u>Step</u>	<u>Description</u>	<u>Value</u>	<u>Step</u>	<u>Description</u>	<u>Value</u>
1.2	Alluvial Fan:	None	4.4	Number of Debris Jams:	0
1.3	<u>Encroachments - Side</u>	<u>One</u>	4.5	Flow Regulation Type:	None
		<u>Both</u>		Use:	
	Berm Length (ft.):	0.0	4.7	Stormwater Inputs	
	Path Length (ft.):	0.0		Overland Flow	Road Ditch
	Road Length (ft.):	125.5		Field Ditch	Tile Drain
	Railroad Lenth (ft.):	0.0		Other	Ub Strm Wtr Pipe
	Development Length:	0.0	4.9	Beaver Dams:	0
3.1	<u>Erosion - Bank</u>	<u>Left</u>		Affected length (ft.):	0.0
	Erosion Length (ft.):	0.0	5.2	Migration Features	
	Erosion Height (ft.):	0.0		Flood Chutes:	0
	Revetment Type:	None		Neck Cutoffs:	0
	Revetment length	0.0		Channel Avulsions:	0
3.2	<u>Buffer Less Than 25 ft.</u>	0		Braiding:	0
3.3	<u>Riparian Corridor</u>	<u>Left</u>	5.3	Steep Riffles and Head Cuts	
	Mass Failures:			Steep Riffles:	0
	Average Height (ft.):			Head Cuts:	0
	Mass Failures:	None	5.4	Animal Crossings:	No
	Average Heigh (ft.):		5.5	Channel Alterations	
	Gullies:	None		Straightening:	None
	Number of Gullies			Length (ft.):	0.0
	Total Length of Gullies (ft.):			Dredging:	None
	Average Height of Gullies				



Stream Geomorphic Assessment

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Lewis Creek

SGAT Version: **4.56**

Reach: **T4.05 -C**

<u>Step</u>	<u>Description</u>	<u>Value</u>		<u>Step</u>	<u>Description</u>	<u>Value</u>
1.2	Alluvial Fan:	None		4.4	Number of Debris Jams:	1
1.3	<u>Encroachments - Side</u>	<u>One</u>	<u>Both</u>	4.5	Flow Regulation Type:	None
	Berm Length (ft.):	0.0	0.0		Use:	
	Path Length (ft.):	0.0	0.0	4.7	Stormwater Inputs	
	Road Length (ft.):	0.0	0.0		Overland Flow	Road Ditch
	Railroad Lenth (ft.):	0.0	0.0		Field Ditch	Tile Drain
	Development Length:	0.0	0.0		Other	Ub Strm Wtr Pipe
3.1	<u>Erosion - Bank</u>	<u>Left</u>	<u>Right</u>	4.9	Beaver Dams:	0
	Erosion Length (ft.):	0.0	0.0		Affected length (ft.):	0.0
	Erosion Height (ft.):	0.0	0.0	5.2	Migration Features	
	Revetment Type:	None	None		Flood Chutes:	0
	Revetment length	0.0	0.0		Neck Cutoffs:	0
3.2	<u>Buffer Less Than 25 ft.</u>	0	0		Channel Avulsions:	0
3.3	<u>Riparian Corridor</u>	<u>Left</u>	<u>Right</u>		Braiding:	0
	Mass Failures:			5.3	Steep Riffles and Head Cuts	
	Average Height (ft.):				Steep Riffles:	0
	Mass Failures:	None			Head Cuts:	0
	Average Heigh (ft.):			5.4	Animal Crossings:	No
	Gullies:	None		5.5	Channel Alterations	
	Number of Gullies				Straightening:	None
	Total Length of Gullies (ft.):				Length (ft.):	0.0
	Average Height of Gullies				Dredging:	None



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Lewis Creek

SGAT Version: 4.56

Reach: **M23 -0**

<u>Step</u>	<u>Description</u>	<u>Value</u>
1.2	Alluvial Fan:	Yes
1.3	<u>Encroachments - Side</u>	<u>One</u> <u>Both</u>
	Berm Length (ft.):	709.9 0.0
	Path Length (ft.):	0.0 0.0
	Road Length (ft.):	2,113.8 0.0
	Railroad Lenth (ft.):	0.0 0.0
	Development Length:	315.8 14.0
3.1	<u>Erosion - Bank</u>	<u>Left</u> <u>Right</u>
	Erosion Length (ft.):	478.4 454.5
	Erosion Height (ft.):	3.1 3.4
	Revetment Type:	Rip-Rap None
	Revetment length	62.8 0.0
3.2	<u>Buffer Less Than 25 ft.</u>	1451 101
3.3	<u>Riparian Corridor</u>	<u>Left</u> <u>Right</u>
	Mass Failures:	
	Average Height (ft.):	
	Mass Failures:	None
	Average Heigh (ft.):	
	Gullies:	None
	Number of Gullies	
	Total Length of Gullies (ft.):	
	Average Height of Gullies	

<u>Step</u>	<u>Description</u>	<u>Value</u>
4.4	Number of Debris Jams:	3
4.5	Flow Regulation Type:	None
	Use:	
4.7	Stormwater Inputs	
	Overland Flow 0	Road Ditch 2
	Field Ditch 0	Tile Drain 0
	Other 0	Ub Strm Wtr Pipe 0
4.9	Beaver Dams:	0
	Affected length (ft.):	0.0
5.2	Migration Features	
	Flood Chutes:	4
	Neck Cutoffs:	0
	Channel Avulsions:	0
	Braiding:	0
5.3	Steep Riffles and Head Cuts	
	Steep Riffles:	2
	Head Cuts:	0
5.4	Animal Crossings:	Yes
5.5	Channel Alterations	
	Straightening:	None
	Length (ft.):	0.0
	Dredging:	None



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SGAT Version: **4.56**

Reach: **M23 -0**

<u>Step</u>	<u>Description</u>	<u>Value</u>
1.2	Alluvial Fan:	Yes
1.3	<u>Encroachments - Side</u>	<u>One</u> <u>Both</u>
	Berm Length (ft.):	709.9 0.0
	Path Length (ft.):	0.0 0.0
	Road Length (ft.):	2,113.8 0.0
	Railroad Lenth (ft.):	0.0 0.0
	Development Length:	315.8 14.0
3.1	<u>Erosion - Bank</u>	<u>Left</u> <u>Right</u>
	Erosion Length (ft.):	478.4 454.5
	Erosion Height (ft.):	3.1 3.4
	Revetment Type:	Rip-Rap None
	Revetment length	62.8 0.0
3.2	<u>Buffer Less Than 25 ft.</u>	1451 101
3.3	<u>Riparian Corridor</u>	<u>Left</u> <u>Right</u>
	Mass Failures:	
	Average Height (ft.):	
	Mass Failures:	None
	Average Heigh (ft.):	
	Gullies:	None
	Number of Gullies	
	Total Length of Gullies (ft.):	
	Average Height of Gullies	

<u>Step</u>	<u>Description</u>	<u>Value</u>
4.4	Number of Debris Jams:	3
4.5	Flow Regulation Type:	None
	Use:	
4.7	Stormwater Inputs	
	Overland Flow 5	Road Ditch 0
	Field Ditch 0	Tile Drain 0
	Other 0	Ub Strm Wtr Pipe 0
4.9	Beaver Dams:	0
	Affected length (ft.):	0.0
5.2	Migration Features	
	Flood Chutes:	4
	Neck Cutoffs:	0
	Channel Avulsions:	0
	Braiding:	0
5.3	Steep Riffles and Head Cuts	
	Steep Riffles:	2
	Head Cuts:	0
5.4	Animal Crossings:	Yes
5.5	Channel Alterations	
	Straightening:	None
	Length (ft.):	0.0
	Dredging:	None