



# Stream Geomorphic Assessment

Agency of Natural Resources



Vermont.gov  
June, 24 2024

## Phase 1 - FIT - Legacy Data Report

## Missisquoi - Canada to Trout

SGAT Version: 4.56

Reach: **R16**

<u>Step</u>	<u>Description</u>	<u>Value</u>	
3.1	Alluvial Fan:	<b>None</b>	
3.2	Grade Control:	<b>None</b>	
4.3	Buffer Less Than 25 ft	<u>Left</u>	<u>Right</u>
		<b>0</b>	<b>2665</b>
5.1	Flow Regulation - Type:	<b>None</b>	
	Use:		
5.2	# of Bridges or Culverts:	<b>0</b>	
	Total Length:	<b>0.000</b>	
5.3	Armoring Length	<u>Left</u>	<u>Right</u>
		<b>149.340</b>	<b>828.700</b>
		<b>00</b>	<b>01</b>
	Data Armoring:		
5.4	Straightening Length:	<b>0.00000</b>	
	Straightening Data:	<b>None</b>	

<u>Step</u>	<u>Description</u>	<u>Value</u>	
5.5	Dredging History:	<b>None</b>	
6.1	Berms & Roads Data:		
		<u>One Side</u>	<u>Both Sides</u>
	Berms & Roads:	<b>119.2300</b>	<b>0.0000</b>
	Berm:	<b>0.0000</b>	<b>0.0000</b>
	Path:	<b>0.000</b>	<b>0.000</b>
	Road:	<b>119.2300</b>	<b>0.00000</b>
	Railroad:	<b>0.0000</b>	<b>0.00</b>
6.2	Corridor Development Data:		
	Length:	<b>0.0000</b>	<b>0.0000</b>
6.4	Miander Migration:	<b>Multiple</b>	
		<u>Old</u>	<u>New</u>
7.2	Bank Erosion:	<b>None</b>	<b>2384.229980</b>
			<b>5</b>
	Bank Height:	<b>N.D.</b>	<b>4.333</b>



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Reach: **R17**

<u>Step</u>	<u>Description</u>	<u>Value</u>	
3.1	Alluvial Fan:	<b>None</b>	
3.2	Grade Control:	<b>None</b>	
4.3	Buffer Less Than 25 ft	<u>Left</u>	<u>Right</u>
		<b>12286</b>	<b>13580</b>
5.1	Flow Regulation - Type:	<b>None</b>	
	Use:		
5.2	# of Bridges or Culverts:	<b>2</b>	
	Total Length:	<b>930.000</b>	
5.3	Armoring Length	<u>Left</u>	<u>Right</u>
		<b>2157.63</b>	<b>2348.20</b>
		<b>989</b>	<b>996</b>
	Data Armoring:		
5.4	Straightening Length:	<b>0.00000</b>	
	Straightening Data:	<b>None</b>	

<u>Step</u>	<u>Description</u>	<u>Value</u>	
5.5	Dredging History:	<b>Dredging</b>	
6.1	Berms & Roads Data:	<u>One Side</u>	<u>Both Sides</u>
	Berms & Roads:	<b>17825.449</b>	<b>1674.8700</b>
		<b>2</b>	
	Berm:	<b>0.0000</b>	<b>0.0000</b>
	Path:	<b>6374.640</b>	<b>0.000</b>
	Road:	<b>11450.809</b>	<b>1674.87000</b>
		<b>6</b>	
	Railroad:	<b>0.0000</b>	<b>0.00</b>
6.2	Corridor Development Data:		
	Length:	<b>2989.4199</b>	<b>0.0000</b>
6.4	Miander Migration:	<b>Multiple</b>	
		<u>Old</u>	<u>New</u>
7.2	Bank Erosion:	<b>None</b>	<b>9363.229492</b>
			<b>2</b>
	Bank Height:	<b>N.D.</b>	<b>7.577</b>

Reach: **R17S5.01**

<u>Step</u>	<u>Description</u>	<u>Value</u>	
3.1	Alluvial Fan:	<b>None</b>	
3.2	Grade Control:	<b>None</b>	
4.3	Buffer Less Than 25 ft	<u>Left</u>	<u>Right</u>
		<b>1983</b>	<b>1126</b>
5.1	Flow Regulation - Type:	<b>None</b>	
	Use:		
5.2	# of Bridges or Culverts:	<b>3</b>	
	Total Length:	<b>600.000</b>	
5.3	Armoring Length	<u>Left</u>	<u>Right</u>
	Data Armoring:		
5.4	Straightening Length:	<b>2092.00000</b>	
	Straightening Data:		

<u>Step</u>	<u>Description</u>	<u>Value</u>	
5.5	Dredging History:	<b>None</b>	
6.1	Berms & Roads Data:	<u>One Side</u>	<u>Both Sides</u>
	Berms & Roads:	<b>70.0000</b>	
	Berm:		
	Path:		
	Road:		
	Railroad:		
6.2	Corridor Development Data:		
	Length:	<b>107.0000</b>	<b>268.0000</b>
6.4	Miander Migration:	<b>Migration</b>	
		<u>Old</u>	<u>New</u>
7.2	Bank Erosion:	<b>High</b>	
	Bank Height:	<b>Medium</b>	



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Reach: **R17S5.02**

<u>Step</u>	<u>Description</u>	<u>Value</u>	
3.1	Alluvial Fan:	<b>None</b>	
3.2	Grade Control:	<b>None</b>	
4.3	Buffer Less Than 25 ft	<u>Left</u>	<u>Right</u>
		<b>0</b>	<b>0</b>
5.1	Flow Regulation - Type:	<b>None</b>	
	Use:		
5.2	# of Bridges or Culverts:	<b>1</b>	
	Total Length:	<b>200.000</b>	
5.3	Armoring Length	<u>Left</u>	<u>Right</u>
	Data Armoring:		
5.4	Straightening Length:	<b>742.00000</b>	
	Straightening Data:		

<u>Step</u>	<u>Description</u>	<u>Value</u>	
5.5	Dredging History:	<b>None</b>	
6.1	Berms & Roads Data:	<u>One Side</u>	<u>Both Sides</u>
	Berms & Roads:	<b>106.0000</b>	
	Berm:		
	Path:		
	Road:		
	Railroad:		
6.2	Corridor Development Data:		
	Length:	<b>0.0000</b>	<b>75.0000</b>
6.4	Miander Migration:	<b>None</b>	
		<u>Old</u>	<u>New</u>
7.2	Bank Erosion:	<b>N.D.</b>	
	Bank Height:	<b>N.D.</b>	

Reach: **R17S5.03**

<u>Step</u>	<u>Description</u>	<u>Value</u>	
3.1	Alluvial Fan:	<b>None</b>	
3.2	Grade Control:	<b>None</b>	
4.3	Buffer Less Than 25 ft	<u>Left</u>	<u>Right</u>
		<b>1423</b>	<b>474</b>
5.1	Flow Regulation - Type:		
	Use:		
5.2	# of Bridges or Culverts:	<b>4</b>	
	Total Length:	<b>400.000</b>	
5.3	Armoring Length	<u>Left</u>	<u>Right</u>
	Data Armoring:	<b>No Data</b>	
5.4	Straightening Length:	<b>1048.00000</b>	
	Straightening Data:		

<u>Step</u>	<u>Description</u>	<u>Value</u>	
5.5	Dredging History:	<b>None</b>	
6.1	Berms & Roads Data:	<u>One Side</u>	<u>Both Sides</u>
	Berms & Roads:	<b>225.0000</b>	
	Berm:		
	Path:		
	Road:		
	Railroad:		
6.2	Corridor Development Data:		
	Length:	<b>285.0000</b>	<b>95.0000</b>
6.4	Miander Migration:	<b>None</b>	
		<u>Old</u>	<u>New</u>
7.2	Bank Erosion:	<b>Low</b>	
	Bank Height:	<b>Low</b>	



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Reach: **R17S5.04**

<u>Step</u>	<u>Description</u>	<u>Value</u>	
3.1	Alluvial Fan:	<b>None</b>	
3.2	Grade Control:	<b>None</b>	
4.3	Buffer Less Than 25 ft	<u>Left</u>	<u>Right</u>
		<b>0</b>	<b>0</b>
5.1	Flow Regulation - Type:	<b>None</b>	
	Use:		
5.2	# of Bridges or Culverts:	<b>3</b>	
	Total Length:	<b>100.000</b>	
5.3	Armoring Length	<u>Left</u>	<u>Right</u>
	Data Armoring:	<b>No Data</b>	
5.4	Straightening Length:	<b>703.00000</b>	
	Straightening Data:		

<u>Step</u>	<u>Description</u>	<u>Value</u>	
5.5	Dredging History:	<b>None</b>	
6.1	Berms & Roads Data:	<u>One Side</u>	<u>Both Sides</u>
	Berms & Roads:	<b>760.0000</b>	
	Berm:		
	Path:		
	Road:		
	Railroad:		
6.2	Corridor Development Data:		
	Length:	<b>132.0000</b>	<b>132.0000</b>
6.4	Miander Migration:	<b>No Data</b>	
		<u>Old</u>	<u>New</u>
7.2	Bank Erosion:	<b>N.E.</b>	
	Bank Height:	<b>N.E.</b>	

Reach: **R18**

<u>Step</u>	<u>Description</u>	<u>Value</u>	
3.1	Alluvial Fan:	<b>None</b>	
3.2	Grade Control:	<b>Ledge</b>	
4.3	Buffer Less Than 25 ft	<u>Left</u>	<u>Right</u>
		<b>2748</b>	<b>2804</b>
5.1	Flow Regulation - Type:	<b>None</b>	
	Use:		
5.2	# of Bridges or Culverts:	<b>3</b>	
	Total Length:	<b>875.000</b>	
5.3	Armoring Length	<u>Left</u>	<u>Right</u>
	Data Armoring:	<b>2738.51001</b>	<b>2488.78003</b>
5.4	Straightening Length:	<b>1356.55994</b>	
	Straightening Data:		

<u>Step</u>	<u>Description</u>	<u>Value</u>	
5.5	Dredging History:	<b>Dredging</b>	
6.1	Berms & Roads Data:	<u>One Side</u>	<u>Both Sides</u>
	Berms & Roads:	<b>15390.0703</b>	<b>2646.0500</b>
	Berm:	<b>0.0000</b>	<b>0.0000</b>
	Path:	<b>0.000</b>	<b>0.000</b>
	Road:	<b>7590.7197</b>	<b>2646.05005</b>
	Railroad:	<b>7799.3501</b>	<b>0.00</b>
6.2	Corridor Development Data:		
	Length:	<b>4493.8198</b>	<b>2045.7999</b>
6.4	Miander Migration:	<b>Flood Chute</b>	
		<u>Old</u>	<u>New</u>
7.2	Bank Erosion:	<b>None</b>	<b>1602.7600098</b>
	Bank Height:	<b>N.D.</b>	<b>5.296</b>



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Reach: **R18S2.01**

<u>Step</u>	<u>Description</u>	<u>Value</u>	
3.1	Alluvial Fan:	<b>Yes</b>	
3.2	Grade Control:	<b>None</b>	
4.3	Buffer Less Than 25 ft	<u>Left</u>	<u>Right</u>
		<b>396</b>	<b>652</b>
5.1	Flow Regulation - Type:	<b>None</b>	
	Use:		
5.2	# of Bridges or Culverts:	<b>2</b>	
	Total Length:	<b>400.000</b>	
5.3	Armoring Length	<u>Left</u>	<u>Right</u>
	Data Armoring:	<b>No Data</b>	
5.4	Straightening Length:	<b>423.00000</b>	
	Straightening Data:		

<u>Step</u>	<u>Description</u>	<u>Value</u>	
5.5	Dredging History:	<b>None</b>	
6.1	Berms & Roads Data:	<u>One Side</u>	<u>Both Sides</u>
	Berms & Roads:	<b>78.0000</b>	
	Berm:		
	Path:		
	Road:		
	Railroad:		
6.2	Corridor Development Data:		
	Length:	<b>85.0000</b>	<b>85.0000</b>
6.4	Miander Migration:	<b>No Data</b>	
		<u>Old</u>	<u>New</u>
7.2	Bank Erosion:	<b>N.D.</b>	
	Bank Height:	<b>N.D.</b>	

Reach: **R18S2.02**

<u>Step</u>	<u>Description</u>	<u>Value</u>	
3.1	Alluvial Fan:	<b>None</b>	
3.2	Grade Control:	<b>None</b>	
4.3	Buffer Less Than 25 ft	<u>Left</u>	<u>Right</u>
		<b>0</b>	<b>0</b>
5.1	Flow Regulation - Type:	<b>None</b>	
	Use:		
5.2	# of Bridges or Culverts:	<b>2</b>	
	Total Length:	<b>200.000</b>	
5.3	Armoring Length	<u>Left</u>	<u>Right</u>
	Data Armoring:	<b>No Data</b>	
5.4	Straightening Length:	<b>1211.00000</b>	
	Straightening Data:		

<u>Step</u>	<u>Description</u>	<u>Value</u>	
5.5	Dredging History:	<b>None</b>	
6.1	Berms & Roads Data:	<u>One Side</u>	<u>Both Sides</u>
	Berms & Roads:	<b>321.0000</b>	<b>59.0000</b>
	Berm:		
	Path:		
	Road:		
	Railroad:		
6.2	Corridor Development Data:		
	Length:	<b>243.0000</b>	<b>81.0000</b>
6.4	Miander Migration:	<b>No Data</b>	
		<u>Old</u>	<u>New</u>
7.2	Bank Erosion:	<b>N.E.</b>	
	Bank Height:	<b>N.E.</b>	



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Reach: **R18S2.03**

<u>Step</u>	<u>Description</u>	<u>Value</u>	
3.1	Alluvial Fan:	<b>None</b>	
3.2	Grade Control:	<b>None</b>	
4.3	Buffer Less Than 25 ft	<u>Left</u>	<u>Right</u>
		<b>0</b>	<b>0</b>
5.1	Flow Regulation - Type:	<b>None</b>	
	Use:		
5.2	# of Bridges or Culverts:	<b>0</b>	
	Total Length:	<b>0.000</b>	
5.3	Armoring Length	<u>Left</u>	<u>Right</u>
	Data Armoring:	<b>No Data</b>	
5.4	Straightening Length:		
	Straightening Data:	<b>None</b>	

<u>Step</u>	<u>Description</u>	<u>Value</u>	
5.5	Dredging History:	<b>None</b>	
6.1	Berms & Roads Data:	<u>One Side</u>	<u>Both Sides</u>
	Berms & Roads:		
	Berm:		
	Path:		
	Road:		
	Railroad:		
6.2	Corridor Development Data:		
	Length:	<b>0.0000</b>	<b>0.0000</b>
6.4	Miander Migration:	<b>No Data</b>	
		<u>Old</u>	<u>New</u>
7.2	Bank Erosion:	<b>N.E.</b>	
	Bank Height:	<b>N.E.</b>	

Reach: **R19**

<u>Step</u>	<u>Description</u>	<u>Value</u>	
3.1	Alluvial Fan:	<b>None</b>	
3.2	Grade Control:	<b>None</b>	
4.3	Buffer Less Than 25 ft	<u>Left</u>	<u>Right</u>
		<b>2923</b>	<b>1832</b>
5.1	Flow Regulation - Type:	<b>None</b>	
	Use:		
5.2	# of Bridges or Culverts:	<b>0</b>	
	Total Length:	<b>0.000</b>	
5.3	Armoring Length	<u>Left</u>	<u>Right</u>
	Data Armoring:	<b>911.489</b>	<b>154.890</b>
		<b>99</b>	<b>00</b>
5.4	Straightening Length:	<b>0.00000</b>	
	Straightening Data:	<b>None</b>	

<u>Step</u>	<u>Description</u>	<u>Value</u>	
5.5	Dredging History:	<b>Gravel Mining</b>	
6.1	Berms & Roads Data:	<u>One Side</u>	<u>Both Sides</u>
	Berms & Roads:	<b>2743.8901</b>	<b>0.0000</b>
	Berm:	<b>0.0000</b>	<b>0.0000</b>
	Path:	<b>0.000</b>	<b>0.000</b>
	Road:	<b>1516.8500</b>	<b>0.00000</b>
	Railroad:	<b>1227.0400</b>	<b>0.00</b>
6.2	Corridor Development Data:		
	Length:	<b>2021.8900</b>	<b>0.0000</b>
6.4	Miander Migration:	<b>Multiple</b>	
		<u>Old</u>	<u>New</u>
7.2	Bank Erosion:	<b>None</b>	<b>4644.040039</b>
			<b>1</b>
	Bank Height:	<b>N.D.</b>	<b>4.090</b>



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Reach: **R19T2.01**

<u>Step</u>	<u>Description</u>	<u>Value</u>	
3.1	Alluvial Fan:	<b>None</b>	
3.2	Grade Control:	<b>None</b>	
4.3	Buffer Less Than 25 ft	<u>Left</u>	<u>Right</u>
		<b>209</b>	<b>1399</b>
5.1	Flow Regulation - Type:	<b>None</b>	
	Use:		
5.2	# of Bridges or Culverts:	<b>2</b>	
	Total Length:	<b>400.000</b>	
5.3	Armoring Length	<u>Left</u>	<u>Right</u>
	Data Armoring:		
5.4	Straightening Length:	<b>1392.00000</b>	
	Straightening Data:		

<u>Step</u>	<u>Description</u>	<u>Value</u>	
5.5	Dredging History:	<b>None</b>	
6.1	Berms & Roads Data:	<u>One Side</u>	<u>Both Sides</u>
	Berms & Roads:	<b>483.0000</b>	
	Berm:		
	Path:		
	Road:		
	Railroad:		
6.2	Corridor Development Data:		
	Length:	<b>280.0000</b>	<b>98.0000</b>
6.4	Miander Migration:	<b>No Data</b>	
		<u>Old</u>	<u>New</u>
7.2	Bank Erosion:	<b>High</b>	
	Bank Height:	<b>Medium</b>	

Reach: **R19T2.02**

<u>Step</u>	<u>Description</u>	<u>Value</u>	
3.1	Alluvial Fan:	<b>None</b>	
3.2	Grade Control:	<b>None</b>	
4.3	Buffer Less Than 25 ft	<u>Left</u>	<u>Right</u>
		<b>0</b>	<b>0</b>
5.1	Flow Regulation - Type:		
	Use:		
5.2	# of Bridges or Culverts:	<b>2</b>	
	Total Length:	<b>200.000</b>	
5.3	Armoring Length	<u>Left</u>	<u>Right</u>
	Data Armoring:	<b>No Data</b>	
5.4	Straightening Length:	<b>814.00000</b>	
	Straightening Data:		

<u>Step</u>	<u>Description</u>	<u>Value</u>	
5.5	Dredging History:	<b>None</b>	
6.1	Berms & Roads Data:	<u>One Side</u>	<u>Both Sides</u>
	Berms & Roads:	<b>3915.0000</b>	<b>298.0000</b>
	Berm:		
	Path:		
	Road:		
	Railroad:		
6.2	Corridor Development Data:		
	Length:	<b>141.0000</b>	<b>141.0000</b>
6.4	Miander Migration:	<b>Multiple</b>	
		<u>Old</u>	<u>New</u>
7.2	Bank Erosion:	<b>Low</b>	
	Bank Height:	<b>Medium</b>	



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Reach: **R19T2.03**

<u>Step</u>	<u>Description</u>	<u>Value</u>	
3.1	Alluvial Fan:	<b>None</b>	
3.2	Grade Control:	<b>None</b>	
4.3	Buffer Less Than 25 ft	<u>Left</u>	<u>Right</u>
		<b>0</b>	<b>0</b>
5.1	Flow Regulation - Type:	<b>None</b>	
	Use:		
5.2	# of Bridges or Culverts:	<b>1</b>	
	Total Length:	<b>300.000</b>	
5.3	Armoring Length	<u>Left</u>	<u>Right</u>
	Data Armoring:	<b>No Data</b>	
5.4	Straightening Length:		
	Straightening Data:	<b>None</b>	

<u>Step</u>	<u>Description</u>	<u>Value</u>	
5.5	Dredging History:	<b>None</b>	
6.1	Berms & Roads Data:		
		<u>One Side</u>	<u>Both Sides</u>
	Berms & Roads:	<b>1277.0000</b>	
	Berm:		
	Path:		
	Road:		
	Railroad:		
6.2	Corridor Development Data:		
	Length:	<b>0.0000</b>	<b>69.0000</b>
6.4	Miander Migration:	<b>No Data</b>	
		<u>Old</u>	<u>New</u>
7.2	Bank Erosion:	<b>N.E.</b>	
	Bank Height:	<b>N.E.</b>	

Reach: **R19T2.04**

<u>Step</u>	<u>Description</u>	<u>Value</u>	
3.1	Alluvial Fan:	<b>None</b>	
3.2	Grade Control:	<b>None</b>	
4.3	Buffer Less Than 25 ft	<u>Left</u>	<u>Right</u>
		<b>0</b>	<b>0</b>
5.1	Flow Regulation - Type:	<b>None</b>	
	Use:		
5.2	# of Bridges or Culverts:	<b>0</b>	
	Total Length:	<b>0.000</b>	
5.3	Armoring Length	<u>Left</u>	<u>Right</u>
	Data Armoring:	<b>No Data</b>	
5.4	Straightening Length:		
	Straightening Data:	<b>None</b>	

<u>Step</u>	<u>Description</u>	<u>Value</u>	
5.5	Dredging History:	<b>None</b>	
6.1	Berms & Roads Data:		
		<u>One Side</u>	<u>Both Sides</u>
	Berms & Roads:	<b>355.0000</b>	
	Berm:		
	Path:		
	Road:		
	Railroad:		
6.2	Corridor Development Data:		
	Length:	<b>0.0000</b>	<b>0.0000</b>
6.4	Miander Migration:	<b>No Data</b>	
		<u>Old</u>	<u>New</u>
7.2	Bank Erosion:	<b>N.E.</b>	
	Bank Height:	<b>N.E.</b>	





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Reach: **R19S7.01**

<u>Step</u>	<u>Description</u>	<u>Value</u>	
3.1	Alluvial Fan:	<b>Yes</b>	
3.2	Grade Control:	<b>Ledge</b>	
4.3	Buffer Less Than 25 ft	<u>Left</u>	<u>Right</u>
		<b>356</b>	<b>445</b>
5.1	Flow Regulation - Type:	<b>None</b>	
	Use:		
5.2	# of Bridges or Culverts:	<b>3</b>	
	Total Length:	<b>600.000</b>	
5.3	Armoring Length	<u>Left</u>	<u>Right</u>
	Data Armoring:	<b>No Data</b>	
5.4	Straightening Length:	<b>1262.00000</b>	
	Straightening Data:		

<u>Step</u>	<u>Description</u>	<u>Value</u>	
5.5	Dredging History:	<b>None</b>	
6.1	Berms & Roads Data:	<u>One Side</u>	<u>Both Sides</u>
	Berms & Roads:	<b>555.0000</b>	
	Berm:		
	Path:		
	Road:		
	Railroad:		
6.2	Corridor Development Data:		
	Length:	<b>242.0000</b>	<b>178.0000</b>
6.4	Miander Migration:	<b>No Data</b>	
		<u>Old</u>	<u>New</u>
7.2	Bank Erosion:	<b>High</b>	
	Bank Height:	<b>Medium</b>	

Reach: **R19S7.02**

<u>Step</u>	<u>Description</u>	<u>Value</u>	
3.1	Alluvial Fan:	<b>None</b>	
3.2	Grade Control:	<b>None</b>	
4.3	Buffer Less Than 25 ft	<u>Left</u>	<u>Right</u>
		<b>1090</b>	<b>662</b>
5.1	Flow Regulation - Type:	<b>None</b>	
	Use:		
5.2	# of Bridges or Culverts:	<b>0</b>	
	Total Length:	<b>0.000</b>	
5.3	Armoring Length	<u>Left</u>	<u>Right</u>
	Data Armoring:	<b>No Data</b>	
5.4	Straightening Length:	<b>1169.00000</b>	
	Straightening Data:		

<u>Step</u>	<u>Description</u>	<u>Value</u>	
5.5	Dredging History:	<b>None</b>	
6.1	Berms & Roads Data:	<u>One Side</u>	<u>Both Sides</u>
	Berms & Roads:	<b>183.0000</b>	
	Berm:		
	Path:		
	Road:		
	Railroad:		
6.2	Corridor Development Data:		
	Length:	<b>39.0000</b>	<b>0.0000</b>
6.4	Miander Migration:	<b>No Data</b>	
		<u>Old</u>	<u>New</u>
7.2	Bank Erosion:	<b>N.E.</b>	
	Bank Height:	<b>N.E.</b>	



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Reach: **R19S7.03**

<u>Step</u>	<u>Description</u>	<u>Value</u>	
3.1	Alluvial Fan:	<b>None</b>	
3.2	Grade Control:	<b>None</b>	
4.3	Buffer Less Than 25 ft	<u>Left</u>	<u>Right</u>
		<b>1968</b>	<b>1180</b>
5.1	Flow Regulation - Type:	<b>None</b>	
	Use:		
5.2	# of Bridges or Culverts:	<b>1</b>	
	Total Length:	<b>50.000</b>	
5.3	Armoring Length	<u>Left</u>	<u>Right</u>
	Data Armoring:	<b>No Data</b>	
5.4	Straightening Length:	<b>1570.00000</b>	
	Straightening Data:		

<u>Step</u>	<u>Description</u>	<u>Value</u>	
5.5	Dredging History:	<b>None</b>	
6.1	Berms & Roads Data:	<u>One Side</u>	<u>Both Sides</u>
	Berms & Roads:	<b>553.0000</b>	
	Berm:		
	Path:		
	Road:		
	Railroad:		
6.2	Corridor Development Data:		
	Length:	<b>66.0000</b>	<b>66.0000</b>
6.4	Miander Migration:	<b>No Data</b>	
		<u>Old</u>	<u>New</u>
7.2	Bank Erosion:	<b>N.E.</b>	
	Bank Height:	<b>N.E.</b>	

Reach: **R19S7.04**

<u>Step</u>	<u>Description</u>	<u>Value</u>	
3.1	Alluvial Fan:	<b>None</b>	
3.2	Grade Control:	<b>None</b>	
4.3	Buffer Less Than 25 ft	<u>Left</u>	<u>Right</u>
		<b>187</b>	<b>0</b>
5.1	Flow Regulation - Type:	<b>None</b>	
	Use:		
5.2	# of Bridges or Culverts:	<b>1</b>	
	Total Length:	<b>50.000</b>	
5.3	Armoring Length	<u>Left</u>	<u>Right</u>
	Data Armoring:	<b>No Data</b>	
5.4	Straightening Length:		
	Straightening Data:	<b>None</b>	

<u>Step</u>	<u>Description</u>	<u>Value</u>	
5.5	Dredging History:	<b>None</b>	
6.1	Berms & Roads Data:	<u>One Side</u>	<u>Both Sides</u>
	Berms & Roads:	<b>567.0000</b>	
	Berm:		
	Path:		
	Road:		
	Railroad:		
6.2	Corridor Development Data:		
	Length:	<b>0.0000</b>	<b>31.0000</b>
6.4	Miander Migration:	<b>No Data</b>	
		<u>Old</u>	<u>New</u>
7.2	Bank Erosion:	<b>N.E.</b>	
	Bank Height:	<b>N.E.</b>	



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Reach: **R19S7.05**

<u>Step</u>	<u>Description</u>	<u>Value</u>	
3.1	Alluvial Fan:	<b>None</b>	
3.2	Grade Control:	<b>None</b>	
4.3	Buffer Less Than 25 ft	<u>Left</u>	<u>Right</u>
		<b>0</b>	<b>0</b>
5.1	Flow Regulation - Type:	<b>None</b>	
	Use:		
5.2	# of Bridges or Culverts:	<b>1</b>	
	Total Length:	<b>100.000</b>	
5.3	Armoring Length	<u>Left</u>	<u>Right</u>
	Data Armoring:	<b>No Data</b>	
5.4	Straightening Length:		
	Straightening Data:	<b>None</b>	

<u>Step</u>	<u>Description</u>	<u>Value</u>	
5.5	Dredging History:	<b>None</b>	
6.1	Berms & Roads Data:	<u>One Side</u>	<u>Both Sides</u>
	Berms & Roads:	<b>131.0000</b>	
	Berm:		
	Path:		
	Road:		
	Railroad:		
6.2	Corridor Development Data:		
	Length:	<b>112.0000</b>	<b>28.0000</b>
6.4	Miander Migration:	<b>No Data</b>	
		<u>Old</u>	<u>New</u>
7.2	Bank Erosion:	<b>N.E.</b>	
	Bank Height:	<b>N.E.</b>	

Reach: **R20**

<u>Step</u>	<u>Description</u>	<u>Value</u>	
3.1	Alluvial Fan:	<b>None</b>	
3.2	Grade Control:	<b>None</b>	
4.3	Buffer Less Than 25 ft	<u>Left</u>	<u>Right</u>
		<b>1437</b>	<b>2683</b>
5.1	Flow Regulation - Type:	<b>None</b>	
	Use:		
5.2	# of Bridges or Culverts:	<b>0</b>	
	Total Length:	<b>0.000</b>	
5.3	Armoring Length	<u>Left</u>	<u>Right</u>
		<b>783.299</b>	<b>0.00000</b>
		<b>99</b>	
	Data Armoring:		
5.4	Straightening Length:	<b>0.00000</b>	
	Straightening Data:	<b>None</b>	

<u>Step</u>	<u>Description</u>	<u>Value</u>	
5.5	Dredging History:	<b>None</b>	
6.1	Berms & Roads Data:	<u>One Side</u>	<u>Both Sides</u>
	Berms & Roads:	<b>13589.379</b>	<b>2343.9199</b>
		<b>9</b>	
	Berm:	<b>0.0000</b>	<b>0.0000</b>
	Path:	<b>0.000</b>	<b>0.000</b>
	Road:	<b>6049.2197</b>	<b>2343.91992</b>
	Railroad:	<b>7540.1602</b>	<b>0.00</b>
6.2	Corridor Development Data:		
	Length:	<b>1006.3400</b>	<b>0.0000</b>
6.4	Miander Migration:	<b>Flood Chute</b>	
		<u>Old</u>	<u>New</u>
7.2	Bank Erosion:	<b>None</b>	<b>954.8699951</b>
	Bank Height:	<b>N.D.</b>	<b>6.788</b>



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Reach: **R20T3.01**

<u>Step</u>	<u>Description</u>	<u>Value</u>	
3.1	Alluvial Fan:	<b>None</b>	
3.2	Grade Control:	<b>None</b>	
4.3	Buffer Less Than 25 ft	<u>Left</u>	<u>Right</u>
		<b>1974</b>	<b>1974</b>
5.1	Flow Regulation - Type:	<b>None</b>	
	Use:		
5.2	# of Bridges or Culverts:	<b>3</b>	
	Total Length:	<b>550.000</b>	
5.3	Armoring Length	<u>Left</u>	<u>Right</u>
	Data Armoring:		
5.4	Straightening Length:	<b>1943.00000</b>	
	Straightening Data:		

<u>Step</u>	<u>Description</u>	<u>Value</u>	
5.5	Dredging History:	<b>None</b>	
6.1	Berms & Roads Data:		
		<u>One Side</u>	<u>Both Sides</u>
	Berms & Roads:	<b>572.0000</b>	<b>110.0000</b>
	Berm:		
	Path:		
	Road:		
	Railroad:		
6.2	Corridor Development Data:		
	Length:	<b>316.0000</b>	<b>415.0000</b>
6.4	Miander Migration:	<b>No Data</b>	
		<u>Old</u>	<u>New</u>
7.2	Bank Erosion:	<b>Low</b>	
	Bank Height:	<b>Low</b>	

Reach: **R20T3.02**

<u>Step</u>	<u>Description</u>	<u>Value</u>	
3.1	Alluvial Fan:	<b>None</b>	
3.2	Grade Control:	<b>None</b>	
4.3	Buffer Less Than 25 ft	<u>Left</u>	<u>Right</u>
		<b>1471</b>	<b>1261</b>
5.1	Flow Regulation - Type:	<b>None</b>	
	Use:		
5.2	# of Bridges or Culverts:	<b>2</b>	
	Total Length:	<b>150.000</b>	
5.3	Armoring Length	<u>Left</u>	<u>Right</u>
	Data Armoring:	<b>No Data</b>	
5.4	Straightening Length:		
	Straightening Data:	<b>None</b>	

<u>Step</u>	<u>Description</u>	<u>Value</u>	
5.5	Dredging History:	<b>None</b>	
6.1	Berms & Roads Data:		
		<u>One Side</u>	<u>Both Sides</u>
	Berms & Roads:	<b>1707.0000</b>	
	Berm:		
	Path:		
	Road:		
	Railroad:		
6.2	Corridor Development Data:		
	Length:	<b>210.0000</b>	<b>210.0000</b>
6.4	Miander Migration:	<b>Multiple</b>	
		<u>Old</u>	<u>New</u>
7.2	Bank Erosion:	<b>N.E.</b>	
	Bank Height:	<b>N.E.</b>	



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Reach: **R17S6.01**

<u>Step</u>	<u>Description</u>	<u>Value</u>	
3.1	Alluvial Fan:	<b>None</b>	
3.2	Grade Control:	<b>None</b>	
4.3	Buffer Less Than 25 ft	<u>Left</u>	<u>Right</u>
		<b>5809</b>	<b>5809</b>
5.1	Flow Regulation - Type:	<b>None</b>	
	Use:		
5.2	# of Bridges or Culverts:	<b>2</b>	
	Total Length:	<b>400.000</b>	
5.3	Armoring Length	<u>Left</u>	<u>Right</u>
	Data Armoring:	<b>No Data</b>	
5.4	Straightening Length:	<b>5766.00000</b>	
	Straightening Data:		

<u>Step</u>	<u>Description</u>	<u>Value</u>	
5.5	Dredging History:	<b>None</b>	
6.1	Berms & Roads Data:	<u>One Side</u>	<u>Both Sides</u>
	Berms & Roads:		
	Berm:		
	Path:		
	Road:		
	Railroad:		
6.2	Corridor Development Data:		
	Length:	<b>232.0000</b>	<b>232.0000</b>
6.4	Miander Migration:	<b>Migration</b>	
		<u>Old</u>	<u>New</u>
7.2	Bank Erosion:	<b>N.E.</b>	
	Bank Height:	<b>N.E.</b>	

Reach: **R17S6.02**

<u>Step</u>	<u>Description</u>	<u>Value</u>	
3.1	Alluvial Fan:	<b>None</b>	
3.2	Grade Control:	<b>None</b>	
4.3	Buffer Less Than 25 ft	<u>Left</u>	<u>Right</u>
		<b>1915</b>	<b>2174</b>
5.1	Flow Regulation - Type:	<b>None</b>	
	Use:		
5.2	# of Bridges or Culverts:	<b>2</b>	
	Total Length:	<b>300.000</b>	
5.3	Armoring Length	<u>Left</u>	<u>Right</u>
	Data Armoring:	<b>No Data</b>	
5.4	Straightening Length:	<b>1094.00000</b>	
	Straightening Data:		

<u>Step</u>	<u>Description</u>	<u>Value</u>	
5.5	Dredging History:	<b>None</b>	
6.1	Berms & Roads Data:	<u>One Side</u>	<u>Both Sides</u>
	Berms & Roads:	<b>500.0000</b>	
	Berm:		
	Path:		
	Road:		
	Railroad:		
6.2	Corridor Development Data:		
	Length:	<b>0.0000</b>	<b>52.0000</b>
6.4	Miander Migration:	<b>Migration</b>	
		<u>Old</u>	<u>New</u>
7.2	Bank Erosion:	<b>N.E.</b>	
	Bank Height:	<b>N.E.</b>	



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Reach: **R17S6.03**

<u>Step</u>	<u>Description</u>	<u>Value</u>	
3.1	Alluvial Fan:	<b>None</b>	
3.2	Grade Control:	<b>None</b>	
4.3	Buffer Less Than 25 ft	<u>Left</u>	<u>Right</u>
		<b>1108</b>	<b>353</b>
5.1	Flow Regulation - Type:	<b>None</b>	
	Use:		
5.2	# of Bridges or Culverts:	<b>1</b>	
	Total Length:	<b>100.000</b>	
5.3	Armoring Length	<u>Left</u>	<u>Right</u>
	Data Armoring:	<b>No Data</b>	
5.4	Straightening Length:		
	Straightening Data:	<b>None</b>	

<u>Step</u>	<u>Description</u>	<u>Value</u>	
5.5	Dredging History:	<b>None</b>	
6.1	Berms & Roads Data:	<u>One Side</u>	<u>Both Sides</u>
	Berms & Roads:		
	Berm:		
	Path:		
	Road:		
	Railroad:		
6.2	Corridor Development Data:		
	Length:	<b>0.0000</b>	<b>24.0000</b>
6.4	Miander Migration:	<b>No Data</b>	
		<u>Old</u>	<u>New</u>
7.2	Bank Erosion:	<b>N.E.</b>	
	Bank Height:	<b>N.E.</b>	

Reach: **R17T1.01**

<u>Step</u>	<u>Description</u>	<u>Value</u>	
3.1	Alluvial Fan:	<b>None</b>	
3.2	Grade Control:	<b>None</b>	
4.3	Buffer Less Than 25 ft	<u>Left</u>	<u>Right</u>
		<b>1871</b>	<b>1603</b>
5.1	Flow Regulation - Type:	<b>None</b>	
	Use:		
5.2	# of Bridges or Culverts:	<b>1</b>	
	Total Length:	<b>100.000</b>	
5.3	Armoring Length	<u>Left</u>	<u>Right</u>
	Data Armoring:		
5.4	Straightening Length:	<b>3826.00000</b>	
	Straightening Data:		

<u>Step</u>	<u>Description</u>	<u>Value</u>	
5.5	Dredging History:	<b>None</b>	
6.1	Berms & Roads Data:	<u>One Side</u>	<u>Both Sides</u>
	Berms & Roads:	<b>710.0000</b>	
	Berm:		
	Path:		
	Road:		
	Railroad:		
6.2	Corridor Development Data:		
	Length:	<b>89.0000</b>	<b>89.0000</b>
6.4	Miander Migration:	<b>Migration</b>	
		<u>Old</u>	<u>New</u>
7.2	Bank Erosion:	<b>N.E.</b>	
	Bank Height:	<b>N.E.</b>	



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Reach: **R17T1.02**

<u>Step</u>	<u>Description</u>	<u>Value</u>	
3.1	Alluvial Fan:	<b>None</b>	
3.2	Grade Control:	<b>None</b>	
4.3	Buffer Less Than 25 ft	<u>Left</u>	<u>Right</u>
		<b>5293</b>	<b>5690</b>
5.1	Flow Regulation - Type:	<b>None</b>	
	Use:		
5.2	# of Bridges or Culverts:	<b>2</b>	
	Total Length:	<b>250.000</b>	
5.3	Armoring Length	<u>Left</u>	<u>Right</u>
	Data Armoring:	<b>No Data</b>	
5.4	Straightening Length:	<b>7460.00000</b>	
	Straightening Data:		

<u>Step</u>	<u>Description</u>	<u>Value</u>	
5.5	Dredging History:	<b>None</b>	
6.1	Berms & Roads Data:	<u>One Side</u>	<u>Both Sides</u>
	Berms & Roads:	<b>1005.0000</b>	
	Berm:		
	Path:		
	Road:		
	Railroad:		
6.2	Corridor Development Data:		
	Length:	<b>0.0000</b>	<b>132.0000</b>
6.4	Miander Migration:	<b>No Data</b>	
		<u>Old</u>	<u>New</u>
7.2	Bank Erosion:	<b>N.D.</b>	
	Bank Height:	<b>N.D.</b>	

Reach: **R17T1.03**

<u>Step</u>	<u>Description</u>	<u>Value</u>	
3.1	Alluvial Fan:	<b>None</b>	
3.2	Grade Control:	<b>None</b>	
4.3	Buffer Less Than 25 ft	<u>Left</u>	<u>Right</u>
		<b>192</b>	<b>109</b>
5.1	Flow Regulation - Type:	<b>None</b>	
	Use:		
5.2	# of Bridges or Culverts:	<b>1</b>	
	Total Length:	<b>200.000</b>	
5.3	Armoring Length	<u>Left</u>	<u>Right</u>
	Data Armoring:	<b>No Data</b>	
5.4	Straightening Length:		
	Straightening Data:	<b>None</b>	

<u>Step</u>	<u>Description</u>	<u>Value</u>	
5.5	Dredging History:	<b>None</b>	
6.1	Berms & Roads Data:	<u>One Side</u>	<u>Both Sides</u>
	Berms & Roads:	<b>380.0000</b>	
	Berm:		
	Path:		
	Road:		
	Railroad:		
6.2	Corridor Development Data:		
	Length:	<b>0.0000</b>	<b>110.0000</b>
6.4	Miander Migration:	<b>No Data</b>	
		<u>Old</u>	<u>New</u>
7.2	Bank Erosion:	<b>N.E.</b>	
	Bank Height:	<b>N.E.</b>	



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Reach: **R17T1.04**

<u>Step</u>	<u>Description</u>	<u>Value</u>	
3.1	Alluvial Fan:	<b>None</b>	
3.2	Grade Control:	<b>None</b>	
4.3	Buffer Less Than 25 ft	<u>Left</u>	<u>Right</u>
		<b>949</b>	<b>593</b>
5.1	Flow Regulation - Type:	<b>None</b>	
	Use:		
5.2	# of Bridges or Culverts:	<b>1</b>	
	Total Length:	<b>200.000</b>	
5.3	Armoring Length	<u>Left</u>	<u>Right</u>
	Data Armoring:	<b>No Data</b>	
5.4	Straightening Length:	<b>649.00000</b>	
	Straightening Data:		

<u>Step</u>	<u>Description</u>	<u>Value</u>	
5.5	Dredging History:	<b>None</b>	
6.1	Berms & Roads Data:	<u>One Side</u>	<u>Both Sides</u>
	Berms & Roads:		
	Berm:		
	Path:		
	Road:		
	Railroad:		
6.2	Corridor Development Data:		
	Length:	<b>0.0000</b>	<b>0.0000</b>
6.4	Miander Migration:	<b>No Data</b>	
		<u>Old</u>	<u>New</u>
7.2	Bank Erosion:	<b>N.E.</b>	
	Bank Height:	<b>N.E.</b>	

Reach: **R16S2.01**

<u>Step</u>	<u>Description</u>	<u>Value</u>	
3.1	Alluvial Fan:	<b>None</b>	
3.2	Grade Control:	<b>None</b>	
4.3	Buffer Less Than 25 ft	<u>Left</u>	<u>Right</u>
		<b>1047</b>	<b>1309</b>
5.1	Flow Regulation - Type:	<b>None</b>	
	Use:		
5.2	# of Bridges or Culverts:	<b>3</b>	
	Total Length:	<b>600.000</b>	
5.3	Armoring Length	<u>Left</u>	<u>Right</u>
	Data Armoring:	<b>No Data</b>	
5.4	Straightening Length:	<b>1671.00000</b>	
	Straightening Data:		

<u>Step</u>	<u>Description</u>	<u>Value</u>	
5.5	Dredging History:	<b>None</b>	
6.1	Berms & Roads Data:	<u>One Side</u>	<u>Both Sides</u>
	Berms & Roads:	<b>363.0000</b>	
	Berm:		
	Path:		
	Road:		
	Railroad:		
6.2	Corridor Development Data:		
	Length:	<b>0.0000</b>	<b>175.0000</b>
6.4	Miander Migration:	<b>No Data</b>	
		<u>Old</u>	<u>New</u>
7.2	Bank Erosion:	<b>N.E.</b>	
	Bank Height:	<b>N.E.</b>	





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Reach: **R16S2.02**

<u>Step</u>	<u>Description</u>	<u>Value</u>	
3.1	Alluvial Fan:	<b>None</b>	
3.2	Grade Control:	<b>None</b>	
4.3	Buffer Less Than 25 ft	<u>Left</u>	<u>Right</u>
		<b>0</b>	<b>788</b>
5.1	Flow Regulation - Type:	<b>None</b>	
	Use:		
5.2	# of Bridges or Culverts:	<b>1</b>	
	Total Length:	<b>200.000</b>	
5.3	Armoring Length	<u>Left</u>	<u>Right</u>
	Data Armoring:	<b>No Data</b>	
5.4	Straightening Length:	<b>1567.00000</b>	
	Straightening Data:		

<u>Step</u>	<u>Description</u>	<u>Value</u>	
5.5	Dredging History:	<b>None</b>	
6.1	Berms & Roads Data:	<u>One Side</u>	<u>Both Sides</u>
	Berms & Roads:	<b>57.0000</b>	
	Berm:		
	Path:		
	Road:		
	Railroad:		
6.2	Corridor Development Data:		
	Length:	<b>79.0000</b>	<b>79.0000</b>
6.4	Miander Migration:	<b>No Data</b>	
		<u>Old</u>	<u>New</u>
7.2	Bank Erosion:	<b>N.E.</b>	
	Bank Height:	<b>N.E.</b>	

Reach: **R16S2.03**

<u>Step</u>	<u>Description</u>	<u>Value</u>	
3.1	Alluvial Fan:	<b>None</b>	
3.2	Grade Control:	<b>None</b>	
4.3	Buffer Less Than 25 ft	<u>Left</u>	<u>Right</u>
		<b>1338</b>	<b>1863</b>
5.1	Flow Regulation - Type:	<b>None</b>	
	Use:		
5.2	# of Bridges or Culverts:	<b>0</b>	
	Total Length:	<b>0.000</b>	
5.3	Armoring Length	<u>Left</u>	<u>Right</u>
	Data Armoring:	<b>No Data</b>	
5.4	Straightening Length:	<b>1575.00000</b>	
	Straightening Data:		

<u>Step</u>	<u>Description</u>	<u>Value</u>	
5.5	Dredging History:	<b>None</b>	
6.1	Berms & Roads Data:	<u>One Side</u>	<u>Both Sides</u>
	Berms & Roads:	<b>None</b>	
	Berm:		
	Path:		
	Road:		
	Railroad:		
6.2	Corridor Development Data:		
	Length:	<b>0.0000</b>	<b>0.0000</b>
6.4	Miander Migration:	<b>No Data</b>	
		<u>Old</u>	<u>New</u>
7.2	Bank Erosion:	<b>N.E.</b>	
	Bank Height:	<b>N.E.</b>	



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Reach: **R16S2.04**

<u>Step</u>	<u>Description</u>	<u>Value</u>	
3.1	Alluvial Fan:	<b>None</b>	
3.2	Grade Control:	<b>None</b>	
4.3	Buffer Less Than 25 ft	<u>Left</u>	<u>Right</u>
		<b>2364</b>	<b>2152</b>
5.1	Flow Regulation - Type:	<b>None</b>	
	Use:		
5.2	# of Bridges or Culverts:	<b>2</b>	
	Total Length:	<b>400.000</b>	
5.3	Armoring Length	<u>Left</u>	<u>Right</u>
	Data Armoring:		
5.4	Straightening Length:	<b>3025.00000</b>	
	Straightening Data:		

<u>Step</u>	<u>Description</u>	<u>Value</u>	
5.5	Dredging History:	<b>None</b>	
6.1	Berms & Roads Data:		
		<u>One Side</u>	<u>Both Sides</u>
	Berms & Roads:	<b>550.0000</b>	
	Berm:		
	Path:		
	Road:		
	Railroad:		
6.2	Corridor Development Data:		
	Length:	<b>71.0000</b>	<b>35.0000</b>
6.4	Miander Migration:	<b>No Data</b>	
		<u>Old</u>	<u>New</u>
7.2	Bank Erosion:	<b>N.E.</b>	
	Bank Height:	<b>N.E.</b>	