



Stream Geomorphic Assessment

Agency of Natural Resources

VT DEC

Vermont.gov
May, 20 2024

Phase 1 - FIT - Legacy Data Report

Winooski Mid, Alder to Montp

SGAT Version: 4.56

Reach: R07

<u>Step</u>	<u>Description</u>	<u>Value</u>		<u>Step</u>	<u>Description</u>	<u>Value</u>	
3.1	Alluvial Fan:	None		5.5	Dredging History:	Multiple	
3.2	Grade Control:	None		6.1	Berms & Roads Data:		
4.3	Buffer Less Than 25 ft	<u>Left</u>	<u>Right</u>			<u>One Side</u>	<u>Both Sides</u>
		4158	3780		Berms & Roads:	34476.328	10846.2598
5.1	Flow Regulation - Type:	None				1	
	Use:				Berm:		
5.2	# of Bridges or Culverts:	5			Path:		
	Total Length:	6763.890			Road:		
5.3	Armoring Length	<u>Left</u>	<u>Right</u>		Railroad:		
		0.00000	932.69000	6.2	Corridor Development Data:		
	Data Armoring:				Length:	9964.3896	1913.2600
5.4	Straightening Length:	6436.12988		6.4	Miander Migration:	Multiple	
	Straightening Data:					<u>Old</u>	<u>New</u>
				7.2	Bank Erosion:	High	12766.15527
						34	
					Bank Height:	High	16.000



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Reach: R08				<u>Step</u>	<u>Description</u>	<u>Value</u>
<u>Step</u>	<u>Description</u>	<u>Value</u>		5.5	Dredging History:	None
3.1	Alluvial Fan:	None		6.1	Berms & Roads Data:	
3.2	Grade Control:	None			<u>One Side</u>	<u>Both Sides</u>
4.3	Buffer Less Than 25 ft	<u>Left</u>	<u>Right</u>	Berms & Roads:	14786.860	8868.0195
		3563	1125		4	
5.1	Flow Regulation - Type:	None			Berm:	
	Use:				Path:	
5.2	# of Bridges or Culverts:	4			Road:	
	Total Length:	4990.030			Railroad:	
5.3	Armoring Length	<u>Left</u>	<u>Right</u>	6.2	Corridor Development Data:	
		3167.15	605.500		Length:	3609.7500 6468.5703
		991	00	6.4	Miander Migration:	Multiple
	Data Armoring:				<u>Old</u>	<u>New</u>
5.4	Straightening Length:	11085.08008		7.2	Bank Erosion:	Low 1942.469970
	Straightening Data:					7
					Bank Height:	High 16.000

Reach: R09				<u>Step</u>	<u>Description</u>	<u>Value</u>
<u>Step</u>	<u>Description</u>	<u>Value</u>		5.5	Dredging History:	Multiple
3.1	Alluvial Fan:	None		6.1	Berms & Roads Data:	
3.2	Grade Control:	None			<u>One Side</u>	<u>Both Sides</u>
4.3	Buffer Less Than 25 ft	<u>Left</u>	<u>Right</u>	Berms & Roads:	15343.750	11334.8896
		1469	5342		0	
5.1	Flow Regulation - Type:	None			Berm:	
	Use:				Path:	
5.2	# of Bridges or Culverts:	0			Road:	
	Total Length:	0.000			Railroad:	
5.3	Armoring Length	<u>Left</u>	<u>Right</u>	6.2	Corridor Development Data:	
		0.00000	0.00000		Length:	2678.0701 2898.2600
	Data Armoring:	None		6.4	Miander Migration:	Multiple
5.4	Straightening Length:	13277.99023			<u>Old</u>	<u>New</u>
	Straightening Data:			7.2	Bank Erosion:	Low 1730.459960
						9
					Bank Height:	High 16.000



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Reach: R10			<u>Step</u>	<u>Description</u>	<u>Value</u>
	<u>Step</u>	<u>Description</u>	<u>Value</u>		
3.1	Alluvial Fan:	None	5.5	Dredging History:	Commercial Mining
3.2	Grade Control:	None	6.1	Berms & Roads Data:	
4.3	Buffer Less Than 25 ft	<u>Left</u> <u>Right</u>		<u>One Side</u> <u>Both Sides</u>	
		2729 4548		Berms & Roads:	22397.031 13773.4102
				3	
5.1	Flow Regulation - Type:	None		Berm:	
	Use:			Path:	
5.2	# of Bridges or Culverts:	1		Road:	
	Total Length:	1402.650		Railroad:	
5.3	Armoring Length	<u>Left</u> <u>Right</u>	6.2	Corridor Development Data:	
		840.579 5931.85		Length:	4324.7397 5911.0498
		96 986	6.4	Miander Migration:	Migration
	Data Armoring:			<u>Old</u> <u>New</u>	
5.4	Straightening Length:	13974.76953	7.2	Bank Erosion:	Low 1554.750000
	Straightening Data:			0	
				Bank Height:	Medium 6.000

Reach: R10.S2.01			<u>Step</u>	<u>Description</u>	<u>Value</u>
	<u>Step</u>	<u>Description</u>	<u>Value</u>		
3.1	Alluvial Fan:	Yes	5.5	Dredging History:	None
3.2	Grade Control:	None	6.1	Berms & Roads Data:	
4.3	Buffer Less Than 25 ft	<u>Left</u> <u>Right</u>		<u>One Side</u> <u>Both Sides</u>	
		56 282		Berms & Roads:	1874.4600 779.1800
5.1	Flow Regulation - Type:	None		Berm:	
	Use:			Path:	
5.2	# of Bridges or Culverts:	1		Road:	
	Total Length:	260.260		Railroad:	
5.3	Armoring Length	<u>Left</u> <u>Right</u>	6.2	Corridor Development Data:	
		0.00000 0.00000		Length:	103.1600 58.2600
	Data Armoring:	None	6.4	Miander Migration:	None
5.4	Straightening Length:	1495.46997		<u>Old</u> <u>New</u>	
	Straightening Data:		7.2	Bank Erosion:	None
				Bank Height:	N.D.



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Reach: R10.S2.02				<u>Step</u>	<u>Description</u>	<u>Value</u>	
	<u>Step</u>	<u>Description</u>	<u>Value</u>	5.5	Dredging History:	None	
3.1	Alluvial Fan:	None		6.1	Berms & Roads Data:		
3.2	Grade Control:	None				<u>One Side</u>	<u>Both Sides</u>
4.3	Buffer Less Than 25 ft	<u>Left</u>	<u>Right</u>		Berms & Roads:	791.9300	0.0000
		0	0		Berm:		
5.1	Flow Regulation - Type:	None			Path:		
	Use:				Road:		
5.2	# of Bridges or Culverts:	0			Railroad:		
	Total Length:	0.000		6.2	Corridor Development Data:		
5.3	Armoring Length	<u>Left</u>	<u>Right</u>		Length:	0.0000	0.0000
		0.00000	0.00000	6.4	Miander Migration:	None	
	Data Armoring:	None				<u>Old</u>	<u>New</u>
5.4	Straightening Length:	0.00000		7.2	Bank Erosion:	None	
	Straightening Data:	None			Bank Height:	N.D.	

Reach: R10.S2.02-S1.01				<u>Step</u>	<u>Description</u>	<u>Value</u>	
	<u>Step</u>	<u>Description</u>	<u>Value</u>	5.5	Dredging History:		
3.1	Alluvial Fan:			6.1	Berms & Roads Data:		
3.2	Grade Control:					<u>One Side</u>	<u>Both Sides</u>
4.3	Buffer Less Than 25 ft	<u>Left</u>	<u>Right</u>		Berms & Roads:		
					Berm:		
5.1	Flow Regulation - Type:				Path:		
	Use:				Road:		
5.2	# of Bridges or Culverts:				Railroad:		
	Total Length:			6.2	Corridor Development Data:		
5.3	Armoring Length	<u>Left</u>	<u>Right</u>		Length:		
				6.4	Miander Migration:		
	Data Armoring:					<u>Old</u>	<u>New</u>
5.4	Straightening Length:			7.2	Bank Erosion:		
	Straightening Data:				Bank Height:		



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Reach: **R10.S2.03**

<u>Step</u>	<u>Description</u>	<u>Value</u>
3.1	Alluvial Fan:	None
3.2	Grade Control:	None
4.3	Buffer Less Than 25 ft	<u>Left</u> <u>Right</u>
		0 0
5.1	Flow Regulation - Type:	None
	Use:	
5.2	# of Bridges or Culverts:	1
	Total Length:	162.130
5.3	Armoring Length	<u>Left</u> <u>Right</u>
		0.00000 0.00000
	Data Armoring:	None
5.4	Straightening Length:	0.00000
	Straightening Data:	None

<u>Step</u>	<u>Description</u>	<u>Value</u>
5.5	Dredging History:	None
6.1	Berms & Roads Data:	
		<u>One Side</u> <u>Both Sides</u>
	Berms & Roads:	479.2100 0.0000
	Berm:	
	Path:	
	Road:	
	Railroad:	
6.2	Corridor Development Data:	
	Length:	227.4400 55.0600
6.4	Miander Migration:	Not Evaluated
		<u>Old</u> <u>New</u>
7.2	Bank Erosion:	None
	Bank Height:	N.D.

Reach: **R10.S2.03-S1.01**

<u>Step</u>	<u>Description</u>	<u>Value</u>
3.1	Alluvial Fan:	
3.2	Grade Control:	
4.3	Buffer Less Than 25 ft	<u>Left</u> <u>Right</u>
5.1	Flow Regulation - Type:	
	Use:	
5.2	# of Bridges or Culverts:	
	Total Length:	
5.3	Armoring Length	<u>Left</u> <u>Right</u>
	Data Armoring:	
5.4	Straightening Length:	
	Straightening Data:	

<u>Step</u>	<u>Description</u>	<u>Value</u>
5.5	Dredging History:	
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:	
6.4	Miander Migration:	
		<u>Old</u> <u>New</u>
7.2	Bank Erosion:	
	Bank Height:	



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Reach: **R10.S2.04**

<u>Step</u>	<u>Description</u>	<u>Value</u>
3.1	Alluvial Fan:	None
3.2	Grade Control:	None
4.3	Buffer Less Than 25 ft	<u>Left</u> <u>Right</u>
		0 0
5.1	Flow Regulation - Type:	None
	Use:	
5.2	# of Bridges or Culverts:	1
	Total Length:	293.350
5.3	Armoring Length	<u>Left</u> <u>Right</u>
		0.00000 0.00000
	Data Armoring:	None
5.4	Straightening Length:	0.00000
	Straightening Data:	None

<u>Step</u>	<u>Description</u>	<u>Value</u>
5.5	Dredging History:	None
6.1	Berms & Roads Data:	
		<u>One Side</u> <u>Both Sides</u>
	Berms & Roads:	355.5800 0.0000
	Berm:	
	Path:	
	Road:	
	Railroad:	
6.2	Corridor Development Data:	
	Length:	0.0000 41.9000
6.4	Miander Migration:	Not Evaluated
		<u>Old</u> <u>New</u>
7.2	Bank Erosion:	None
	Bank Height:	N.D.

Reach: **R10.S2.04-S1.01**

<u>Step</u>	<u>Description</u>	<u>Value</u>
3.1	Alluvial Fan:	
3.2	Grade Control:	
4.3	Buffer Less Than 25 ft	<u>Left</u> <u>Right</u>
5.1	Flow Regulation - Type:	
	Use:	
5.2	# of Bridges or Culverts:	
	Total Length:	
5.3	Armoring Length	<u>Left</u> <u>Right</u>
	Data Armoring:	
5.4	Straightening Length:	
	Straightening Data:	

<u>Step</u>	<u>Description</u>	<u>Value</u>
5.5	Dredging History:	
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:	
6.4	Miander Migration:	
		<u>Old</u> <u>New</u>
7.2	Bank Erosion:	
	Bank Height:	



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Reach: **R10.S2.05**

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

<u>Step</u>	<u>Description</u>	<u>Value</u>
5.5	Dredging History:	None
6.1	Berms & Roads Data:	
		<u>One Side</u> <u>Both Sides</u>
	Berms & Roads:	160.9200 0.0000
	Berm:	
	Path:	
	Road:	
	Railroad:	
6.2	Corridor Development Data:	
	Length:	0.0000 0.0000
6.4	Miander Migration:	Not Evaluated
		<u>Old</u> <u>New</u>
7.2	Bank Erosion:	None
	Bank Height:	N.D.

Reach: **R10.S2.06**

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

<u>Step</u>	<u>Description</u>	<u>Value</u>
5.5	Dredging History:	None
6.1	Berms & Roads Data:	
		<u>One Side</u> <u>Both Sides</u>
	Berms & Roads:	21.0200 0.0000
	Berm:	
	Path:	
	Road:	
	Railroad:	
6.2	Corridor Development Data:	
	Length:	0.0000 0.0000
6.4	Miander Migration:	Not Evaluated
		<u>Old</u> <u>New</u>
7.2	Bank Erosion:	None
	Bank Height:	N.D.



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Reach: R10.S2.01-S1.01				<u>Step</u>	<u>Description</u>	<u>Value</u>
<u>Step</u>	<u>Description</u>	<u>Value</u>		5.5	Dredging History:	
3.1	Alluvial Fan:			6.1	Berms & Roads Data:	
3.2	Grade Control:				<u>One Side</u>	<u>Both Sides</u>
4.3	Buffer Less Than 25 ft	<u>Left</u>	<u>Right</u>		Berms & Roads:	
					Berm:	
5.1	Flow Regulation - Type:				Path:	
	Use:				Road:	
5.2	# of Bridges or Culverts:				Railroad:	
	Total Length:			6.2	Corridor Development Data:	
5.3	Armoring Length	<u>Left</u>	<u>Right</u>		Length:	
				6.4	Miander Migration:	
	Data Armoring:				<u>Old</u>	<u>New</u>
5.4	Straightening Length:			7.2	Bank Erosion:	
	Straightening Data:				Bank Height:	

Reach: R10.S4.01				<u>Step</u>	<u>Description</u>	<u>Value</u>
<u>Step</u>	<u>Description</u>	<u>Value</u>		5.5	Dredging History:	None
3.1	Alluvial Fan:	None		6.1	Berms & Roads Data:	
3.2	Grade Control:	None			<u>One Side</u>	<u>Both Sides</u>
4.3	Buffer Less Than 25 ft	<u>Left</u>	<u>Right</u>		Berms & Roads:	209.1200 0.0000
		0	214		Berm:	
5.1	Flow Regulation - Type:	None			Path:	
	Use:				Road:	
5.2	# of Bridges or Culverts:	2			Railroad:	
	Total Length:	681.890		6.2	Corridor Development Data:	
5.3	Armoring Length	<u>Left</u>	<u>Right</u>		Length:	299.0500 145.2000
		818.969	815.400	6.4	Miander Migration:	Not Evaluated
		97	02		<u>Old</u>	<u>New</u>
	Data Armoring:			7.2	Bank Erosion:	None
5.4	Straightening Length:	805.03003			Bank Height:	N.D.
	Straightening Data:					



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Reach: **R10.S4.02**

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

<u>Step</u>	<u>Description</u>	<u>Value</u>
5.5	Dredging History:	None
6.1	Berms & Roads Data:	None
		<u>One Side</u> <u>Both Sides</u>
	Berms & Roads:	
	Berm:	
	Path:	
	Road:	
	Railroad:	
6.2	Corridor Development Data:	None
	Length:	
6.4	Miander Migration:	Not Evaluated
		<u>Old</u> <u>New</u>
7.2	Bank Erosion:	N.E.
	Bank Height:	N.E.

Reach: **R10.S4.02-S1.01**

<u>Step</u>	<u>Description</u>	<u>Value</u>	
3.1	Alluvial Fan:		
3.2	Grade Control:		
4.3	Buffer Less Than 25 ft	<u>Left</u>	<u>Right</u>
5.1	Flow Regulation - Type:		
	Use:		
5.2	# of Bridges or Culverts:		
	Total Length:		
5.3	Armoring Length	<u>Left</u>	<u>Right</u>
	Data Armoring:		
5.4	Straightening Length:		
	Straightening Data:		

<u>Step</u>	<u>Description</u>	<u>Value</u>
5.5	Dredging History:	
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:	
6.4	Miander Migration:	
		<u>Old</u> <u>New</u>
7.2	Bank Erosion:	
	Bank Height:	



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Reach: R10.S4.03				<u>Step</u>	<u>Description</u>	<u>Value</u>
<u>Step</u>	<u>Description</u>	<u>Value</u>		5.5	Dredging History:	None
3.1	Alluvial Fan:	None		6.1	Berms & Roads Data:	None
3.2	Grade Control:				<u>One Side</u>	<u>Both Sides</u>
4.3	Buffer Less Than 25 ft	<u>Left</u>	<u>Right</u>		Berms & Roads:	
		0	0		Berm:	
5.1	Flow Regulation - Type:	None			Path:	
	Use:				Road:	
5.2	# of Bridges or Culverts:				Railroad:	
	Total Length:			6.2	Corridor Development Data:	None
5.3	Armoring Length	<u>Left</u>	<u>Right</u>		Length:	
	Data Armoring:	None		6.4	Miander Migration:	Not Evaluated
5.4	Straightening Length:				<u>Old</u>	<u>New</u>
	Straightening Data:	None		7.2	Bank Erosion:	N.E.
					Bank Height:	N.E.

Reach: R10.S4.03-S1.01				<u>Step</u>	<u>Description</u>	<u>Value</u>
<u>Step</u>	<u>Description</u>	<u>Value</u>		5.5	Dredging History:	
3.1	Alluvial Fan:			6.1	Berms & Roads Data:	
3.2	Grade Control:				<u>One Side</u>	<u>Both Sides</u>
4.3	Buffer Less Than 25 ft	<u>Left</u>	<u>Right</u>		Berms & Roads:	
					Berm:	
5.1	Flow Regulation - Type:				Path:	
	Use:				Road:	
5.2	# of Bridges or Culverts:				Railroad:	
	Total Length:			6.2	Corridor Development Data:	
5.3	Armoring Length	<u>Left</u>	<u>Right</u>		Length:	
	Data Armoring:			6.4	Miander Migration:	
5.4	Straightening Length:				<u>Old</u>	<u>New</u>
	Straightening Data:			7.2	Bank Erosion:	
					Bank Height:	



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Reach: **R10.S4.04**

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

<u>Step</u>	<u>Description</u>	<u>Value</u>	
5.5	Dredging History:	None	
6.1	Berms & Roads Data:	None	
		<u>One Side</u>	<u>Both Sides</u>
	Berms & Roads:		
	Berm:		
	Path:		
	Road:		
	Railroad:		
6.2	Corridor Development Data:	None	
	Length:		
6.4	Miander Migration:	Not Evaluated	
		<u>Old</u>	<u>New</u>
7.2	Bank Erosion:	N.E.	
	Bank Height:	N.E.	

Reach: **R11**

<u>Step</u>	<u>Description</u>	<u>Value</u>	
3.1	Alluvial Fan:	None	
3.2	Grade Control:	Dam	
4.3	Buffer Less Than 25 ft	<u>Left</u>	<u>Right</u>
		2603	5404
5.1	Flow Regulation - Type:	Large Run of River	
	Use:	Hydro-electric	
5.2	# of Bridges or Culverts:	1	
	Total Length:	200.000	
5.3	Armoring Length	<u>Left</u>	<u>Right</u>
		1003.92	3675.80
		242	518
	Data Armoring:		
5.4	Straightening Length:	8453.98340	
	Straightening Data:		

<u>Step</u>	<u>Description</u>	<u>Value</u>	
5.5	Dredging History:	None	
6.1	Berms & Roads Data:		
		<u>One Side</u>	<u>Both Sides</u>
	Berms & Roads:	0.0000	0.0000
	Berm:	0.0000	0.0000
	Path:	0.000	0.000
	Road:	587.4048	16990.82813
	Railroad:	16324.183	0.00
		6	
6.2	Corridor Development Data:		
	Length:	6698.0547	393.6755
6.4	Miander Migration:	Flood Chute	
		<u>Old</u>	<u>New</u>
7.2	Bank Erosion:	None	3542.035888
			7
	Bank Height:	N.D.	7.213



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Reach: R11.S1.01				<u>Step</u>	<u>Description</u>	<u>Value</u>	
	<u>Step</u>	<u>Description</u>	<u>Value</u>	5.5	Dredging History:	None	
3.1	Alluvial Fan:	None		6.1	Berms & Roads Data:		
3.2	Grade Control:	None				<u>One Side</u>	<u>Both Sides</u>
4.3	Buffer Less Than 25 ft	<u>Left</u>	<u>Right</u>	Berms & Roads:	91.0500	0.0000	
		142	142	Berm:			
5.1	Flow Regulation - Type:	None		Path:			
	Use:			Road:			
5.2	# of Bridges or Culverts:	2		Railroad:			
	Total Length:	1351.100		6.2	Corridor Development Data:		
5.3	Armoring Length	<u>Left</u>	<u>Right</u>		Length:	193.7700	252.3800
		1047.65	731.599	6.4	Miander Migration:	None	
		002	98			<u>Old</u>	<u>New</u>
	Data Armoring:			7.2	Bank Erosion:	None	
5.4	Straightening Length:	0.00000			Bank Height:	N.D.	
	Straightening Data:	None					

Reach: R11.S1.02				<u>Step</u>	<u>Description</u>	<u>Value</u>	
	<u>Step</u>	<u>Description</u>	<u>Value</u>	5.5	Dredging History:	None	
3.1	Alluvial Fan:	None		6.1	Berms & Roads Data:		
3.2	Grade Control:	None				<u>One Side</u>	<u>Both Sides</u>
4.3	Buffer Less Than 25 ft	<u>Left</u>	<u>Right</u>	Berms & Roads:	2492.9700	0.0000	
		92	30	Berm:			
5.1	Flow Regulation - Type:	None		Path:			
	Use:			Road:			
5.2	# of Bridges or Culverts:	1		Railroad:			
	Total Length:	93.590		6.2	Corridor Development Data:		
5.3	Armoring Length	<u>Left</u>	<u>Right</u>		Length:	572.3500	39.2000
		0.00000	0.00000	6.4	Miander Migration:	None	
	Data Armoring:	None				<u>Old</u>	<u>New</u>
5.4	Straightening Length:	0.00000		7.2	Bank Erosion:	None	
	Straightening Data:	None			Bank Height:	N.D.	



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Reach: R11.S1.03				<u>Step</u>	<u>Description</u>	<u>Value</u>
	<u>Step</u>	<u>Description</u>	<u>Value</u>	5.5	Dredging History:	None
3.1	Alluvial Fan:	None		6.1	Berms & Roads Data:	
3.2	Grade Control:	None			<u>One Side</u>	<u>Both Sides</u>
4.3	Buffer Less Than 25 ft	<u>Left</u>	<u>Right</u>		Berms & Roads:	1832.0900 917.8199
		340	278		Berm:	
5.1	Flow Regulation - Type:	None			Path:	
	Use:				Road:	
5.2	# of Bridges or Culverts:	1			Railroad:	
	Total Length:	338.170		6.2	Corridor Development Data:	
5.3	Armoring Length	<u>Left</u>	<u>Right</u>		Length:	0.0000 71.8100
		0.00000	0.00000	6.4	Miander Migration:	None
	Data Armoring:	None			<u>Old</u>	<u>New</u>
5.4	Straightening Length:	0.00000		7.2	Bank Erosion:	None
	Straightening Data:	None			Bank Height:	N.D.

Reach: R11.S1.03-S1.01				<u>Step</u>	<u>Description</u>	<u>Value</u>
	<u>Step</u>	<u>Description</u>	<u>Value</u>	5.5	Dredging History:	
3.1	Alluvial Fan:			6.1	Berms & Roads Data:	
3.2	Grade Control:				<u>One Side</u>	<u>Both Sides</u>
4.3	Buffer Less Than 25 ft	<u>Left</u>	<u>Right</u>		Berms & Roads:	
					Berm:	
5.1	Flow Regulation - Type:				Path:	
	Use:				Road:	
5.2	# of Bridges or Culverts:				Railroad:	
	Total Length:			6.2	Corridor Development Data:	
5.3	Armoring Length	<u>Left</u>	<u>Right</u>		Length:	
				6.4	Miander Migration:	
	Data Armoring:				<u>Old</u>	<u>New</u>
5.4	Straightening Length:			7.2	Bank Erosion:	
	Straightening Data:				Bank Height:	



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Reach: **R11.S1.04**

<u>Step</u>	<u>Description</u>	<u>Value</u>
3.1	Alluvial Fan:	None
3.2	Grade Control:	None
4.3	Buffer Less Than 25 ft	<u>Left</u> <u>Right</u> 485 173
5.1	Flow Regulation - Type:	None
	Use:	
5.2	# of Bridges or Culverts:	2
	Total Length:	1182.320
5.3	Armoring Length	<u>Left</u> <u>Right</u> 958.830 0.00000 02
	Data Armoring:	
5.4	Straightening Length:	0.00000
	Straightening Data:	None

<u>Step</u>	<u>Description</u>	<u>Value</u>
5.5	Dredging History:	None
6.1	Berms & Roads Data:	
		<u>One Side</u> <u>Both Sides</u>
	Berms & Roads:	2294.8301 0.0000
	Berm:	
	Path:	
	Road:	
	Railroad:	
6.2	Corridor Development Data:	
	Length:	333.5100 40.5100
6.4	Miander Migration:	None
		<u>Old</u> <u>New</u>
7.2	Bank Erosion:	None
	Bank Height:	N.D.

Reach: **R11.S1.04-S1.01**

<u>Step</u>	<u>Description</u>	<u>Value</u>
3.1	Alluvial Fan:	
3.2	Grade Control:	
4.3	Buffer Less Than 25 ft	<u>Left</u> <u>Right</u>
5.1	Flow Regulation - Type:	
	Use:	
5.2	# of Bridges or Culverts:	
	Total Length:	
5.3	Armoring Length	<u>Left</u> <u>Right</u>
	Data Armoring:	
5.4	Straightening Length:	
	Straightening Data:	

<u>Step</u>	<u>Description</u>	<u>Value</u>
5.5	Dredging History:	
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:	
6.4	Miander Migration:	
		<u>Old</u> <u>New</u>
7.2	Bank Erosion:	
	Bank Height:	



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Reach: R11.S1.05				<u>Step</u>	<u>Description</u>	<u>Value</u>
<u>Step</u>	<u>Description</u>	<u>Value</u>		5.5	Dredging History:	None
3.1	Alluvial Fan:	None		6.1	Berms & Roads Data:	
3.2	Grade Control:	None			<u>One Side</u>	<u>Both Sides</u>
4.3	Buffer Less Than 25 ft	<u>Left</u>	<u>Right</u>		Berms & Roads:	2543.4399 0.0000
		61	184		Berm:	
5.1	Flow Regulation - Type:	None			Path:	
	Use:				Road:	
5.2	# of Bridges or Culverts:	1			Railroad:	
	Total Length:	350.660		6.2	Corridor Development Data:	
5.3	Armoring Length	<u>Left</u>	<u>Right</u>		Length:	112.4600 29.7200
		463.440	414.280	6.4	Miander Migration:	None
		00	00		<u>Old</u>	<u>New</u>
	Data Armoring:			7.2	Bank Erosion:	None
5.4	Straightening Length:	0.00000			Bank Height:	N.D.
	Straightening Data:	None				

Reach: R11.S1.06				<u>Step</u>	<u>Description</u>	<u>Value</u>
<u>Step</u>	<u>Description</u>	<u>Value</u>		5.5	Dredging History:	None
3.1	Alluvial Fan:	None		6.1	Berms & Roads Data:	
3.2	Grade Control:	None			<u>One Side</u>	<u>Both Sides</u>
4.3	Buffer Less Than 25 ft	<u>Left</u>	<u>Right</u>		Berms & Roads:	1116.5801 0.0000
		794	28		Berm:	
5.1	Flow Regulation - Type:	None			Path:	
	Use:				Road:	
5.2	# of Bridges or Culverts:	1			Railroad:	
	Total Length:	225.920		6.2	Corridor Development Data:	
5.3	Armoring Length	<u>Left</u>	<u>Right</u>		Length:	0.0000 30.9400
		0.00000	0.00000	6.4	Miander Migration:	None
	Data Armoring:	None			<u>Old</u>	<u>New</u>
5.4	Straightening Length:	0.00000		7.2	Bank Erosion:	None
	Straightening Data:	None			Bank Height:	N.D.



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Reach: R11.S1.06-S1.01				<u>Step</u>	<u>Description</u>	<u>Value</u>
<u>Step</u>	<u>Description</u>	<u>Value</u>		5.5	Dredging History:	
3.1	Alluvial Fan:			6.1	Berms & Roads Data:	
3.2	Grade Control:				<u>One Side</u>	<u>Both Sides</u>
4.3	Buffer Less Than 25 ft	<u>Left</u>	<u>Right</u>		Berms & Roads:	
					Berm:	
5.1	Flow Regulation - Type:				Path:	
	Use:				Road:	
5.2	# of Bridges or Culverts:				Railroad:	
	Total Length:			6.2	Corridor Development Data:	
5.3	Armoring Length	<u>Left</u>	<u>Right</u>		Length:	
	Data Armoring:			6.4	Miander Migration:	
5.4	Straightening Length:				<u>Old</u>	<u>New</u>
	Straightening Data:			7.2	Bank Erosion:	
					Bank Height:	

Reach: R11.S1.06-S1.01-S1.01				<u>Step</u>	<u>Description</u>	<u>Value</u>
<u>Step</u>	<u>Description</u>	<u>Value</u>		5.5	Dredging History:	
3.1	Alluvial Fan:			6.1	Berms & Roads Data:	
3.2	Grade Control:				<u>One Side</u>	<u>Both Sides</u>
4.3	Buffer Less Than 25 ft	<u>Left</u>	<u>Right</u>		Berms & Roads:	
					Berm:	
5.1	Flow Regulation - Type:				Path:	
	Use:				Road:	
5.2	# of Bridges or Culverts:				Railroad:	
	Total Length:			6.2	Corridor Development Data:	
5.3	Armoring Length	<u>Left</u>	<u>Right</u>		Length:	
	Data Armoring:			6.4	Miander Migration:	
5.4	Straightening Length:				<u>Old</u>	<u>New</u>
	Straightening Data:			7.2	Bank Erosion:	
					Bank Height:	



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Reach: R11.S1.06-S1.02				<u>Step</u>	<u>Description</u>	<u>Value</u>
<u>Step</u>	<u>Description</u>	<u>Value</u>		5.5	Dredging History:	
3.1	Alluvial Fan:			6.1	Berms & Roads Data:	
3.2	Grade Control:				<u>One Side</u>	<u>Both Sides</u>
4.3	Buffer Less Than 25 ft	<u>Left</u>	<u>Right</u>		Berms & Roads:	
5.1	Flow Regulation - Type:				Berm:	
	Use:				Path:	
5.2	# of Bridges or Culverts:				Road:	
	Total Length:				Railroad:	
5.3	Armoring Length	<u>Left</u>	<u>Right</u>	6.2	Corridor Development Data:	
	Data Armoring:				Length:	
5.4	Straightening Length:			6.4	Miander Migration:	
	Straightening Data:				<u>Old</u>	<u>New</u>
				7.2	Bank Erosion:	
					Bank Height:	

Reach: R11.S1.07				<u>Step</u>	<u>Description</u>	<u>Value</u>
<u>Step</u>	<u>Description</u>	<u>Value</u>		5.5	Dredging History:	None
3.1	Alluvial Fan:	None		6.1	Berms & Roads Data:	
3.2	Grade Control:	None			<u>One Side</u>	<u>Both Sides</u>
4.3	Buffer Less Than 25 ft	<u>Left</u>	<u>Right</u>		Berms & Roads:	1973.5100 0.0000
		0	0		Berm:	
5.1	Flow Regulation - Type:	None			Path:	
	Use:				Road:	
5.2	# of Bridges or Culverts:	0			Railroad:	
	Total Length:	0.000		6.2	Corridor Development Data:	
5.3	Armoring Length	<u>Left</u>	<u>Right</u>		Length:	235.5000 0.0000
		0.00000	0.00000	6.4	Miander Migration:	Not Evaluated
	Data Armoring:	None			<u>Old</u>	<u>New</u>
5.4	Straightening Length:	0.00000		7.2	Bank Erosion:	None
	Straightening Data:	None			Bank Height:	N.D.



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Reach: R11.S1.08				<u>Step</u>	<u>Description</u>	<u>Value</u>
<u>Step</u>	<u>Description</u>	<u>Value</u>		5.5	Dredging History:	None
3.1	Alluvial Fan:	None		6.1	Berms & Roads Data:	None
3.2	Grade Control:				<u>One Side</u>	<u>Both Sides</u>
4.3	Buffer Less Than 25 ft	<u>Left</u>	<u>Right</u>		Berms & Roads:	
		0	0		Berm:	
5.1	Flow Regulation - Type:	None			Path:	
	Use:				Road:	
5.2	# of Bridges or Culverts:				Railroad:	
	Total Length:			6.2	Corridor Development Data:	None
5.3	Armoring Length	<u>Left</u>	<u>Right</u>		Length:	
				6.4	Miander Migration:	Not Evaluated
	Data Armoring:	None			<u>Old</u>	<u>New</u>
5.4	Straightening Length:			7.2	Bank Erosion:	N.E.
	Straightening Data:	None			Bank Height:	N.E.

Reach: R11.S1.05-S1.01				<u>Step</u>	<u>Description</u>	<u>Value</u>
<u>Step</u>	<u>Description</u>	<u>Value</u>		5.5	Dredging History:	
3.1	Alluvial Fan:			6.1	Berms & Roads Data:	
3.2	Grade Control:				<u>One Side</u>	<u>Both Sides</u>
4.3	Buffer Less Than 25 ft	<u>Left</u>	<u>Right</u>		Berms & Roads:	
					Berm:	
5.1	Flow Regulation - Type:				Path:	
	Use:				Road:	
5.2	# of Bridges or Culverts:				Railroad:	
	Total Length:			6.2	Corridor Development Data:	
5.3	Armoring Length	<u>Left</u>	<u>Right</u>		Length:	
				6.4	Miander Migration:	
	Data Armoring:				<u>Old</u>	<u>New</u>
5.4	Straightening Length:			7.2	Bank Erosion:	
	Straightening Data:				Bank Height:	



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Reach: **R11.S1.05-S1.02**

<u>Step</u>	<u>Description</u>	<u>Value</u>	
3.1	Alluvial Fan:		
3.2	Grade Control:		
4.3	Buffer Less Than 25 ft	<u>Left</u>	<u>Right</u>
5.1	Flow Regulation - Type:		
	Use:		
5.2	# of Bridges or Culverts:		
	Total Length:		
5.3	Armoring Length	<u>Left</u>	<u>Right</u>
	Data Armoring:		
5.4	Straightening Length:		
	Straightening Data:		

<u>Step</u>	<u>Description</u>	<u>Value</u>	
5.5	Dredging History:		
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:		
6.4	Miander Migration:		
		<u>Old</u>	<u>New</u>
7.2	Bank Erosion:		
	Bank Height:		

Reach: **R12**

<u>Step</u>	<u>Description</u>	<u>Value</u>	
3.1	Alluvial Fan:	None	
3.2	Grade Control:	None	
4.3	Buffer Less Than 25 ft	<u>Left</u>	<u>Right</u>
		8724	2846
5.1	Flow Regulation - Type:	None	
	Use:		
5.2	# of Bridges or Culverts:	1	
	Total Length:	20.000	
5.3	Armoring Length	<u>Left</u>	<u>Right</u>
		3261.99	1383.67
		194	236
	Data Armoring:		
5.4	Straightening Length:	6402.89795	
	Straightening Data:		

<u>Step</u>	<u>Description</u>	<u>Value</u>	
5.5	Dredging History:	None	
6.1	Berms & Roads Data:		
		<u>One Side</u>	<u>Both Sides</u>
	Berms & Roads:	0.0000	0.0000
	Berm:	0.0000	0.0000
	Path:	0.000	0.000
	Road:	3873.7881	8175.52539
	Railroad:	6105.4922	0.00
6.2	Corridor Development Data:		
	Length:	5227.4512	2310.8513
6.4	Miander Migration:	Flood Chute	
		<u>Old</u>	<u>New</u>
7.2	Bank Erosion:	None	5519.779296
			9
	Bank Height:	N.D.	5.206



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Reach: R13				<u>Step</u>	<u>Description</u>	<u>Value</u>
<u>Step</u>	<u>Description</u>	<u>Value</u>		5.5	Dredging History:	None
3.1	Alluvial Fan:	None		6.1	Berms & Roads Data:	
3.2	Grade Control:	None			<u>One Side</u>	<u>Both Sides</u>
4.3	Buffer Less Than 25 ft	<u>Left</u>	<u>Right</u>	Berms & Roads:	0.0000	0.0000
		11004	6799	Berm:	0.0000	0.0000
5.1	Flow Regulation - Type:	None		Path:	0.000	0.000
	Use:			Road:	2473.9133	17694.40820
5.2	# of Bridges or Culverts:	3		Railroad:	13325.351	0.00
	Total Length:	1000.000		6		
5.3	Armoring Length	<u>Left</u>	<u>Right</u>	6.2	Corridor Development Data:	
		5191.02	8132.07	Length:	6504.6851	11204.8691
		051	568	6.4	Miander Migration:	Multiple
	Data Armoring:				<u>Old</u>	<u>New</u>
5.4	Straightening Length:	19534.06445		7.2	Bank Erosion:	None
	Straightening Data:					10216.16406
					Bank Height:	N.D.
						5.716

Reach: R13.S2.01				<u>Step</u>	<u>Description</u>	<u>Value</u>
<u>Step</u>	<u>Description</u>	<u>Value</u>		5.5	Dredging History:	None
3.1	Alluvial Fan:	None		6.1	Berms & Roads Data:	
3.2	Grade Control:	None			<u>One Side</u>	<u>Both Sides</u>
4.3	Buffer Less Than 25 ft	<u>Left</u>	<u>Right</u>	Berms & Roads:	0.0000	0.0000
		991	826	Berm:		
5.1	Flow Regulation - Type:	None		Path:		
	Use:			Road:		
5.2	# of Bridges or Culverts:	1		Railroad:		
	Total Length:	177.140		6.2	Corridor Development Data:	
5.3	Armoring Length	<u>Left</u>	<u>Right</u>	Length:	337.3000	148.8000
		470.109	522.859	6.4	Miander Migration:	Migration
		99	99		<u>Old</u>	<u>New</u>
	Data Armoring:			7.2	Bank Erosion:	None
5.4	Straightening Length:	3848.50977			Bank Height:	N.D.
	Straightening Data:					



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Reach: R13.S2.02				<u>Step</u>	<u>Description</u>	<u>Value</u>	
<u>Step</u>	<u>Description</u>	<u>Value</u>		5.5	Dredging History:	None	
3.1	Alluvial Fan:	None		6.1	Berms & Roads Data:		
3.2	Grade Control:	Multiple				<u>One Side</u>	<u>Both Sides</u>
4.3	Buffer Less Than 25 ft	<u>Left</u>	<u>Right</u>		Berms & Roads:	298.1400	0.0000
		439	270		Berm:		
5.1	Flow Regulation - Type:				Path:		
	Use:				Road:		
5.2	# of Bridges or Culverts:	2			Railroad:		
	Total Length:	671.150		6.2	Corridor Development Data:		
5.3	Armoring Length	<u>Left</u>	<u>Right</u>		Length:	285.8800	177.1700
		0.00000	0.00000	6.4	Miander Migration:	Migration	
	Data Armoring:	None				<u>Old</u>	<u>New</u>
5.4	Straightening Length:	1880.00000		7.2	Bank Erosion:	Low	461.9200134
	Straightening Data:				Bank Height:	Medium	6.000

Reach: R13.S2.03				<u>Step</u>	<u>Description</u>	<u>Value</u>	
<u>Step</u>	<u>Description</u>	<u>Value</u>		5.5	Dredging History:	None	
3.1	Alluvial Fan:	None		6.1	Berms & Roads Data:		
3.2	Grade Control:	None				<u>One Side</u>	<u>Both Sides</u>
4.3	Buffer Less Than 25 ft	<u>Left</u>	<u>Right</u>		Berms & Roads:	412.4200	0.0000
		274	171		Berm:		
5.1	Flow Regulation - Type:	None			Path:		
	Use:				Road:		
5.2	# of Bridges or Culverts:	1			Railroad:		
	Total Length:	347.620		6.2	Corridor Development Data:		
5.3	Armoring Length	<u>Left</u>	<u>Right</u>		Length:	687.9400	117.0900
		0.00000	0.00000	6.4	Miander Migration:	Avulsion	
	Data Armoring:	None				<u>Old</u>	<u>New</u>
5.4	Straightening Length:	0.00000		7.2	Bank Erosion:	None	
	Straightening Data:	None			Bank Height:	N.D.	



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Reach: **R13.S2.04**

<u>Step</u>	<u>Description</u>	<u>Value</u>	
3.1	Alluvial Fan:	None	
3.2	Grade Control:	None	
4.3	Buffer Less Than 25 ft	<u>Left</u>	<u>Right</u>
		283	0
5.1	Flow Regulation - Type:	None	
	Use:		
5.2	# of Bridges or Culverts:	0	
	Total Length:	0.000	
5.3	Armoring Length	<u>Left</u>	<u>Right</u>
		0.00000	0.00000
	Data Armoring:	None	
5.4	Straightening Length:	0.00000	
	Straightening Data:	None	

<u>Step</u>	<u>Description</u>	<u>Value</u>	
5.5	Dredging History:	None	
6.1	Berms & Roads Data:		
		<u>One Side</u>	<u>Both Sides</u>
	Berms & Roads:	1287.4700	0.0000
	Berm:		
	Path:		
	Road:		
	Railroad:		
6.2	Corridor Development Data:		
	Length:	73.5300	0.0000
6.4	Miander Migration:	Not Evaluated	
		<u>Old</u>	<u>New</u>
7.2	Bank Erosion:	None	
	Bank Height:	N.D.	

Reach: **R13.S2.05**

<u>Step</u>	<u>Description</u>	<u>Value</u>	
3.1	Alluvial Fan:	None	
3.2	Grade Control:	None	
4.3	Buffer Less Than 25 ft	<u>Left</u>	<u>Right</u>
		98	197
5.1	Flow Regulation - Type:	None	
	Use:		
5.2	# of Bridges or Culverts:	2	
	Total Length:	254.140	
5.3	Armoring Length	<u>Left</u>	<u>Right</u>
		0.00000	0.00000
	Data Armoring:	None	
5.4	Straightening Length:	0.00000	
	Straightening Data:	None	

<u>Step</u>	<u>Description</u>	<u>Value</u>	
5.5	Dredging History:	None	
6.1	Berms & Roads Data:		
		<u>One Side</u>	<u>Both Sides</u>
	Berms & Roads:	296.2700	0.0000
	Berm:		
	Path:		
	Road:		
	Railroad:		
6.2	Corridor Development Data:		
	Length:	0.0000	107.2400
6.4	Miander Migration:	Not Evaluated	
		<u>Old</u>	<u>New</u>
7.2	Bank Erosion:	None	
	Bank Height:	N.D.	



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Reach: R13.S2.04-S1.01				<u>Step</u>	<u>Description</u>	<u>Value</u>
<u>Step</u>	<u>Description</u>	<u>Value</u>		5.5	Dredging History:	
3.1	Alluvial Fan:			6.1	Berms & Roads Data:	
3.2	Grade Control:				<u>One Side</u>	<u>Both Sides</u>
4.3	Buffer Less Than 25 ft	<u>Left</u>	<u>Right</u>		Berms & Roads:	
					Berm:	
5.1	Flow Regulation - Type:				Path:	
	Use:				Road:	
5.2	# of Bridges or Culverts:				Railroad:	
	Total Length:			6.2	Corridor Development Data:	
5.3	Armoring Length	<u>Left</u>	<u>Right</u>		Length:	
	Data Armoring:			6.4	Miander Migration:	
5.4	Straightening Length:				<u>Old</u>	<u>New</u>
	Straightening Data:			7.2	Bank Erosion:	
					Bank Height:	

Reach: R13.S2.04-S1.02				<u>Step</u>	<u>Description</u>	<u>Value</u>
<u>Step</u>	<u>Description</u>	<u>Value</u>		5.5	Dredging History:	
3.1	Alluvial Fan:			6.1	Berms & Roads Data:	
3.2	Grade Control:				<u>One Side</u>	<u>Both Sides</u>
4.3	Buffer Less Than 25 ft	<u>Left</u>	<u>Right</u>		Berms & Roads:	
					Berm:	
5.1	Flow Regulation - Type:				Path:	
	Use:				Road:	
5.2	# of Bridges or Culverts:				Railroad:	
	Total Length:			6.2	Corridor Development Data:	
5.3	Armoring Length	<u>Left</u>	<u>Right</u>		Length:	
	Data Armoring:			6.4	Miander Migration:	
5.4	Straightening Length:				<u>Old</u>	<u>New</u>
	Straightening Data:			7.2	Bank Erosion:	
					Bank Height:	



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Reach: R13.S2.01-S1.01				<u>Step</u>	<u>Description</u>	<u>Value</u>
<u>Step</u>	<u>Description</u>	<u>Value</u>		5.5	Dredging History:	
3.1	Alluvial Fan:			6.1	Berms & Roads Data:	
3.2	Grade Control:				<u>One Side</u>	<u>Both Sides</u>
4.3	Buffer Less Than 25 ft	<u>Left</u>	<u>Right</u>		Berms & Roads:	
5.1	Flow Regulation - Type:				Berm:	
	Use:				Path:	
5.2	# of Bridges or Culverts:				Road:	
	Total Length:				Railroad:	
5.3	Armoring Length	<u>Left</u>	<u>Right</u>	6.2	Corridor Development Data:	
	Data Armoring:				Length:	
5.4	Straightening Length:			6.4	Miander Migration:	
	Straightening Data:				<u>Old</u>	<u>New</u>
				7.2	Bank Erosion:	
					Bank Height:	

Reach: R13.S2.01-S1.02				<u>Step</u>	<u>Description</u>	<u>Value</u>
<u>Step</u>	<u>Description</u>	<u>Value</u>		5.5	Dredging History:	
3.1	Alluvial Fan:			6.1	Berms & Roads Data:	
3.2	Grade Control:				<u>One Side</u>	<u>Both Sides</u>
4.3	Buffer Less Than 25 ft	<u>Left</u>	<u>Right</u>		Berms & Roads:	
5.1	Flow Regulation - Type:				Berm:	
	Use:				Path:	
5.2	# of Bridges or Culverts:				Road:	
	Total Length:				Railroad:	
5.3	Armoring Length	<u>Left</u>	<u>Right</u>	6.2	Corridor Development Data:	
	Data Armoring:				Length:	
5.4	Straightening Length:			6.4	Miander Migration:	
	Straightening Data:				<u>Old</u>	<u>New</u>
				7.2	Bank Erosion:	
					Bank Height:	



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Reach: **R13.S2.01-S1.03**

<u>Step</u>	<u>Description</u>	<u>Value</u>	
3.1	Alluvial Fan:		
3.2	Grade Control:		
4.3	Buffer Less Than 25 ft	<u>Left</u>	<u>Right</u>
5.1	Flow Regulation - Type:		
	Use:		
5.2	# of Bridges or Culverts:		
	Total Length:		
5.3	Armoring Length	<u>Left</u>	<u>Right</u>
	Data Armoring:		
5.4	Straightening Length:		
	Straightening Data:		

<u>Step</u>	<u>Description</u>	<u>Value</u>	
5.5	Dredging History:		
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:		
6.4	Miander Migration:		
		<u>Old</u>	<u>New</u>
7.2	Bank Erosion:		
	Bank Height:		

Reach: **R14**

<u>Step</u>	<u>Description</u>	<u>Value</u>	
3.1	Alluvial Fan:	None	
3.2	Grade Control:	None	
4.3	Buffer Less Than 25 ft	<u>Left</u>	<u>Right</u>
		2557	1867
5.1	Flow Regulation - Type:	None	
	Use:		
5.2	# of Bridges or Culverts:	1	
	Total Length:	400.000	
5.3	Armoring Length	<u>Left</u>	<u>Right</u>
		1377.11	2697.75
		353	146
	Data Armoring:		
5.4	Straightening Length:	2127.73438	
	Straightening Data:		

<u>Step</u>	<u>Description</u>	<u>Value</u>	
5.5	Dredging History:	None	
6.1	Berms & Roads Data:		
		<u>One Side</u>	<u>Both Sides</u>
	Berms & Roads:	0.0000	0.0000
	Berm:	0.0000	0.0000
	Path:	0.000	0.000
	Road:	937.8096	15268.48047
	Railroad:	12698.016	0.00
		6	
6.2	Corridor Development Data:		
	Length:	13534.564	861.5573
		5	
6.4	Miander Migration:	Multiple	
		<u>Old</u>	<u>New</u>
7.2	Bank Erosion:	None	4337.911621
			1
	Bank Height:	N.D.	5.477



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Reach: R15				<u>Step</u>	<u>Description</u>	<u>Value</u>
	<u>Step</u>	<u>Description</u>	<u>Value</u>	5.5	Dredging History:	None
3.1	Alluvial Fan:	None		6.1	Berms & Roads Data:	
3.2	Grade Control:	Dam			<u>One Side</u>	<u>Both Sides</u>
4.3	Buffer Less Than 25 ft	<u>Left</u>	<u>Right</u>	Berms & Roads:	2108.6799	527.2300
		748	0	Berm:		
5.1	Flow Regulation - Type:			Path:		
	Use:			Road:		
5.2	# of Bridges or Culverts:	0		Railroad:		
	Total Length:	0.000		6.2	Corridor Development Data:	
5.3	Armoring Length	<u>Left</u>	<u>Right</u>	Length:	945.1700	1545.7100
		0.00000	0.00000	6.4	Miander Migration:	None
	Data Armoring:	None			<u>Old</u>	<u>New</u>
5.4	Straightening Length:	0.00000		7.2	Bank Erosion:	None
	Straightening Data:	None			Bank Height:	N.D.

Reach: R16				<u>Step</u>	<u>Description</u>	<u>Value</u>
	<u>Step</u>	<u>Description</u>	<u>Value</u>	5.5	Dredging History:	Commercial Mining
3.1	Alluvial Fan:	None		6.1	Berms & Roads Data:	
3.2	Grade Control:	None			<u>One Side</u>	<u>Both Sides</u>
4.3	Buffer Less Than 25 ft	<u>Left</u>	<u>Right</u>	Berms & Roads:	29430.919	22111.5801
		17168	16023	Berm:		
5.1	Flow Regulation - Type:	None		Path:		
	Use:			Road:		
5.2	# of Bridges or Culverts:	3		Railroad:		
	Total Length:	3959.520		6.2	Corridor Development Data:	
5.3	Armoring Length	<u>Left</u>	<u>Right</u>	Length:	6830.7700	13811.1201
		1474.87	2655.14	6.4	Miander Migration:	Avulsion
		000	014		<u>Old</u>	<u>New</u>
	Data Armoring:			7.2	Bank Erosion:	Low
5.4	Straightening Length:	17691.98047			Bank Height:	4108.745117
	Straightening Data:					2
						4.000



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Reach: **R16.S2.01**

<u>Step</u>	<u>Description</u>	<u>Value</u>
3.1	Alluvial Fan:	None
3.2	Grade Control:	None
4.3	Buffer Less Than 25 ft	<u>Left</u> <u>Right</u> 954 650
5.1	Flow Regulation - Type:	None
	Use:	
5.2	# of Bridges or Culverts:	1
	Total Length:	20.200
5.3	Armoring Length	<u>Left</u> <u>Right</u> 431.975 211.940 31 77
	Data Armoring:	
5.4	Straightening Length:	1622.04785
	Straightening Data:	

<u>Step</u>	<u>Description</u>	<u>Value</u>
5.5	Dredging History:	None
6.1	Berms & Roads Data:	
	<u>One Side</u> <u>Both Sides</u>	
	Berms & Roads:	0.0000 0.0000
	Berm:	46.9247 0.0000
	Path:	0.000 0.000
	Road:	0.0000 0.00000
	Railroad:	0.0000 0.00
6.2	Corridor Development Data:	
	Length:	0.0000 0.0000
6.4	Miander Migration:	Multiple
	<u>Old</u> <u>New</u>	
7.2	Bank Erosion:	None 3058.345459 0
	Bank Height:	N.D. 3.512

Reach: **R16.S2.02**

<u>Step</u>	<u>Description</u>	<u>Value</u>
3.1	Alluvial Fan:	None
3.2	Grade Control:	Ledge
4.3	Buffer Less Than 25 ft	<u>Left</u> <u>Right</u> 2048 90
5.1	Flow Regulation - Type:	None
	Use:	
5.2	# of Bridges or Culverts:	1
	Total Length:	0.000
5.3	Armoring Length	<u>Left</u> <u>Right</u> 126.351 44.4440 59 8
	Data Armoring:	
5.4	Straightening Length:	1349.63159
	Straightening Data:	

<u>Step</u>	<u>Description</u>	<u>Value</u>
5.5	Dredging History:	Multiple
6.1	Berms & Roads Data:	
	<u>One Side</u> <u>Both Sides</u>	
	Berms & Roads:	0.0000 0.0000
	Berm:	114.7520 0.0000
	Path:	0.000 0.000
	Road:	515.4956 0.00000
	Railroad:	0.0000 0.00
6.2	Corridor Development Data:	
	Length:	596.2556 0.0000
6.4	Miander Migration:	Flood Chute
	<u>Old</u> <u>New</u>	
7.2	Bank Erosion:	None 3914.175781 3
	Bank Height:	N.D. 3.104



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Reach: R16.S2.02-S1.01				<u>Step</u>	<u>Description</u>	<u>Value</u>
<u>Step</u>	<u>Description</u>	<u>Value</u>		5.5	Dredging History:	None
3.1	Alluvial Fan:	None		6.1	Berms & Roads Data:	
3.2	Grade Control:	Multiple			<u>One Side</u>	<u>Both Sides</u>
4.3	Buffer Less Than 25 ft	<u>Left</u>	<u>Right</u>	Berms & Roads:	0.0000	0.0000
		2782	4802	Berm:	284.9509	0.0000
5.1	Flow Regulation - Type:	None		Path:	0.000	0.000
	Use:			Road:	5602.8882	147.82327
5.2	# of Bridges or Culverts:	6		Railroad:	0.0000	0.00
	Total Length:	224.500		6.2	Corridor Development Data:	
5.3	Armoring Length	<u>Left</u>	<u>Right</u>	Length:	1104.3088	0.0000
		1068.91	2075.36	6.4	Miander Migration:	Flood Chute
		968	865		<u>Old</u>	<u>New</u>
	Data Armoring:			7.2	Bank Erosion:	None
5.4	Straightening Length:	5341.64893				1978.921142
	Straightening Data:					6
				Bank Height:	N.D.	2.996

Reach: R16.S2.02-S1.02				<u>Step</u>	<u>Description</u>	<u>Value</u>
<u>Step</u>	<u>Description</u>	<u>Value</u>		5.5	Dredging History:	
3.1	Alluvial Fan:			6.1	Berms & Roads Data:	
3.2	Grade Control:				<u>One Side</u>	<u>Both Sides</u>
4.3	Buffer Less Than 25 ft	<u>Left</u>	<u>Right</u>	Berms & Roads:		
				Berm:		
5.1	Flow Regulation - Type:			Path:		
	Use:			Road:		
5.2	# of Bridges or Culverts:			Railroad:		
	Total Length:			6.2	Corridor Development Data:	
5.3	Armoring Length	<u>Left</u>	<u>Right</u>	Length:		
				6.4	Miander Migration:	
	Data Armoring:				<u>Old</u>	<u>New</u>
5.4	Straightening Length:			7.2	Bank Erosion:	
	Straightening Data:				Bank Height:	



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Reach: R16.S2.03				<u>Step</u>	<u>Description</u>	<u>Value</u>
<u>Step</u>	<u>Description</u>	<u>Value</u>		5.5	Dredging History:	Gravel Mining
3.1	Alluvial Fan:	None		6.1	Berms & Roads Data:	
3.2	Grade Control:	Ledge			<u>One Side</u>	<u>Both Sides</u>
4.3	Buffer Less Than 25 ft	<u>Left</u>	<u>Right</u>	Berms & Roads:	0.0000	0.0000
		2108	584	Berm:	0.0000	0.0000
5.1	Flow Regulation - Type:	None		Path:	0.000	0.000
	Use:			Road:	916.2406	0.00000
5.2	# of Bridges or Culverts:	1		Railroad:	0.0000	0.00
	Total Length:	5.750		6.2	Corridor Development Data:	
5.3	Armoring Length	<u>Left</u>	<u>Right</u>	Length:	641.8519	0.0000
		582.361	0.00000	6.4	Miander Migration:	Flood Chute
		15			<u>Old</u>	<u>New</u>
	Data Armoring:			7.2	Bank Erosion:	None
5.4	Straightening Length:	3078.80078				1670.144653
						3
	Straightening Data:			Bank Height:	N.D.	3.654

Reach: R16.S2.03-S1.01				<u>Step</u>	<u>Description</u>	<u>Value</u>
<u>Step</u>	<u>Description</u>	<u>Value</u>		5.5	Dredging History:	None
3.1	Alluvial Fan:	None		6.1	Berms & Roads Data:	
3.2	Grade Control:	None			<u>One Side</u>	<u>Both Sides</u>
4.3	Buffer Less Than 25 ft	<u>Left</u>	<u>Right</u>	Berms & Roads:	0.0000	0.0000
		265	831	Berm:	0.0000	0.0000
5.1	Flow Regulation - Type:	None		Path:	0.000	0.000
	Use:			Road:	224.2140	0.00000
5.2	# of Bridges or Culverts:	1		Railroad:	0.0000	0.00
	Total Length:	41.000		6.2	Corridor Development Data:	
5.3	Armoring Length	<u>Left</u>	<u>Right</u>	Length:	0.0000	0.0000
		307.527	259.588	6.4	Miander Migration:	Flood Chute
		59	47		<u>Old</u>	<u>New</u>
	Data Armoring:			7.2	Bank Erosion:	None
5.4	Straightening Length:	831.87531				268.9962158
	Straightening Data:			Bank Height:	N.D.	3.607



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Reach: R16.S2.03-S1.02				<u>Step</u>	<u>Description</u>	<u>Value</u>
<u>Step</u>	<u>Description</u>	<u>Value</u>		5.5	Dredging History:	
3.1	Alluvial Fan:			6.1	Berms & Roads Data:	
3.2	Grade Control:				<u>One Side</u>	<u>Both Sides</u>
4.3	Buffer Less Than 25 ft	<u>Left</u>	<u>Right</u>		Berms & Roads:	
					Berm:	
5.1	Flow Regulation - Type:				Path:	
	Use:				Road:	
5.2	# of Bridges or Culverts:				Railroad:	
	Total Length:			6.2	Corridor Development Data:	
5.3	Armoring Length	<u>Left</u>	<u>Right</u>		Length:	
				6.4	Miander Migration:	
	Data Armoring:				<u>Old</u>	<u>New</u>
5.4	Straightening Length:			7.2	Bank Erosion:	
	Straightening Data:				Bank Height:	

Reach: R16.S2.03-S1.03				<u>Step</u>	<u>Description</u>	<u>Value</u>
<u>Step</u>	<u>Description</u>	<u>Value</u>		5.5	Dredging History:	
3.1	Alluvial Fan:			6.1	Berms & Roads Data:	
3.2	Grade Control:				<u>One Side</u>	<u>Both Sides</u>
4.3	Buffer Less Than 25 ft	<u>Left</u>	<u>Right</u>		Berms & Roads:	
					Berm:	
5.1	Flow Regulation - Type:				Path:	
	Use:				Road:	
5.2	# of Bridges or Culverts:				Railroad:	
	Total Length:			6.2	Corridor Development Data:	
5.3	Armoring Length	<u>Left</u>	<u>Right</u>		Length:	
				6.4	Miander Migration:	
	Data Armoring:				<u>Old</u>	<u>New</u>
5.4	Straightening Length:			7.2	Bank Erosion:	
	Straightening Data:				Bank Height:	



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Reach: R16.S2.04				<u>Step</u>	<u>Description</u>	<u>Value</u>	
<u>Step</u>	<u>Description</u>	<u>Value</u>		5.5	Dredging History:	Gravel Mining	
3.1	Alluvial Fan:	None		6.1	Berms & Roads Data:		
3.2	Grade Control:	None				<u>One Side</u>	<u>Both Sides</u>
4.3	Buffer Less Than 25 ft	<u>Left</u>	<u>Right</u>		Berms & Roads:	768.4800	0.0000
		507	608		Berm:		
5.1	Flow Regulation - Type:	None			Path:		
	Use:				Road:		
5.2	# of Bridges or Culverts:	2			Railroad:		
	Total Length:	283.310		6.2	Corridor Development Data:		
5.3	Armoring Length	<u>Left</u>	<u>Right</u>		Length:	1092.8600	73.9200
		0.00000	0.00000	6.4	Miander Migration:	Not Evaluated	
	Data Armoring:	None				<u>Old</u>	<u>New</u>
5.4	Straightening Length:	703.21997		7.2	Bank Erosion:	Low	297.2600098
	Straightening Data:				Bank Height:	Low	4.000

Reach: R16.S1.01				<u>Step</u>	<u>Description</u>	<u>Value</u>	
<u>Step</u>	<u>Description</u>	<u>Value</u>		5.5	Dredging History:	None	
3.1	Alluvial Fan:	None		6.1	Berms & Roads Data:		
3.2	Grade Control:	None				<u>One Side</u>	<u>Both Sides</u>
4.3	Buffer Less Than 25 ft	<u>Left</u>	<u>Right</u>		Berms & Roads:	0.0000	0.0000
		352	275		Berm:		
5.1	Flow Regulation - Type:	None			Path:		
	Use:				Road:		
5.2	# of Bridges or Culverts:	1			Railroad:		
	Total Length:	976.230		6.2	Corridor Development Data:		
5.3	Armoring Length	<u>Left</u>	<u>Right</u>		Length:	195.3400	258.7600
		584.539	820.400	6.4	Miander Migration:	None	
		98	02			<u>Old</u>	<u>New</u>
	Data Armoring:			7.2	Bank Erosion:	Low	297.6449890
5.4	Straightening Length:	829.62000			Bank Height:	High	16.000
	Straightening Data:						



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Reach: R16.S1.02				<u>Step</u>	<u>Description</u>	<u>Value</u>	
<u>Step</u>	<u>Description</u>	<u>Value</u>		5.5	Dredging History: None		
3.1	Alluvial Fan:	None		6.1	Berms & Roads Data:		
3.2	Grade Control:	None			<u>One Side</u>	<u>Both Sides</u>	
4.3	Buffer Less Than 25 ft	<u>Left</u>	<u>Right</u>	Berms & Roads:	1993.2700	0.0000	
		582	0	Berm:			
5.1	Flow Regulation - Type:	None		Path:			
	Use:			Road:			
5.2	# of Bridges or Culverts:	0		Railroad:			
	Total Length:	0.000		6.2	Corridor Development Data:		
5.3	Armoring Length	<u>Left</u>	<u>Right</u>	Length:	374.7300	16.5900	
		0.00000	0.00000	6.4	Miander Migration:	None	
	Data Armoring:	None			<u>Old</u>	<u>New</u>	
5.4	Straightening Length:	0.00000		7.2	Bank Erosion:	Low	122.1800003
	Straightening Data:	None			Bank Height:	High	16.000

Reach: R16.S1.03				<u>Step</u>	<u>Description</u>	<u>Value</u>	
<u>Step</u>	<u>Description</u>	<u>Value</u>		5.5	Dredging History:	None	
3.1	Alluvial Fan:	None		6.1	Berms & Roads Data:		
3.2	Grade Control:	Ledge			<u>One Side</u>	<u>Both Sides</u>	
4.3	Buffer Less Than 25 ft	<u>Left</u>	<u>Right</u>	Berms & Roads:	1049.3101	474.8500	
		70	3672	Berm:	0.0000	0.0000	
5.1	Flow Regulation - Type:	None		Path:	0.000	0.000	
	Use:			Road:	1049.3101	474.85001	
5.2	# of Bridges or Culverts:	1		Railroad:	0.0000	0.00	
	Total Length:	200.000		6.2	Corridor Development Data:		
5.3	Armoring Length	<u>Left</u>	<u>Right</u>	Length:	574.7300	36.5800	
		142.770	560.209	6.4	Miander Migration:	Flood Chute	
		00	96		<u>Old</u>	<u>New</u>	
	Data Armoring:			7.2	Bank Erosion:	None	2013.199951
5.4	Straightening Length:	5557.62988				2	
	Straightening Data:			Bank Height:	N.D.	3.807	



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Reach: R16.S1.04				<u>Step</u>	<u>Description</u>	<u>Value</u>	
<u>Step</u>	<u>Description</u>	<u>Value</u>		5.5	Dredging History:	None	
3.1	Alluvial Fan:	None		6.1	Berms & Roads Data:		
3.2	Grade Control:	None			<u>One Side</u>	<u>Both Sides</u>	
4.3	Buffer Less Than 25 ft	<u>Left</u>	<u>Right</u>		Berms & Roads:	661.6300	0.0000
		0	0		Berm:		
5.1	Flow Regulation - Type:	None			Path:		
	Use:				Road:		
5.2	# of Bridges or Culverts:	0			Railroad:		
	Total Length:	0.000		6.2	Corridor Development Data:		
5.3	Armoring Length	<u>Left</u>	<u>Right</u>		Length:	167.4400	0.0000
		0.00000	0.00000	6.4	Miander Migration:	None	
	Data Armoring:	None			<u>Old</u>	<u>New</u>	
5.4	Straightening Length:	2039.58008		7.2	Bank Erosion:	Low	252.8600006
	Straightening Data:				Bank Height:	Low	4.000

Reach: R16.S1.05				<u>Step</u>	<u>Description</u>	<u>Value</u>	
<u>Step</u>	<u>Description</u>	<u>Value</u>		5.5	Dredging History:	None	
3.1	Alluvial Fan:	None		6.1	Berms & Roads Data:		
3.2	Grade Control:	Weir			<u>One Side</u>	<u>Both Sides</u>	
4.3	Buffer Less Than 25 ft	<u>Left</u>	<u>Right</u>		Berms & Roads:	7713.2700	0.0000
		91	2292		Berm:		
5.1	Flow Regulation - Type:	None			Path:		
	Use:				Road:		
5.2	# of Bridges or Culverts:	1			Railroad:		
	Total Length:	116.650		6.2	Corridor Development Data:		
5.3	Armoring Length	<u>Left</u>	<u>Right</u>		Length:	1417.8301	127.2100
		0.00000	988.09998	6.4	Miander Migration:	Not Evaluated	
	Data Armoring:				<u>Old</u>	<u>New</u>	
5.4	Straightening Length:	0.00000		7.2	Bank Erosion:	Low	694.0499878
	Straightening Data:	None			Bank Height:	High	16.000



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Reach: **R16.S1.06**

<u>Step</u>	<u>Description</u>	<u>Value</u>
3.1	Alluvial Fan:	None
3.2	Grade Control:	None
4.3	Buffer Less Than 25 ft	<u>Left</u> <u>Right</u> 1009 126
5.1	Flow Regulation - Type:	None
	Use:	
5.2	# of Bridges or Culverts:	2
	Total Length:	768.750
5.3	Armoring Length	<u>Left</u> <u>Right</u> 659.280 0.00000 03
	Data Armoring:	
5.4	Straightening Length:	0.00000
	Straightening Data:	None

<u>Step</u>	<u>Description</u>	<u>Value</u>
5.5	Dredging History:	None
6.1	Berms & Roads Data:	
		<u>One Side</u> <u>Both Sides</u>
	Berms & Roads:	1155.2400 0.0000
	Berm:	
	Path:	
	Road:	
	Railroad:	
6.2	Corridor Development Data:	
	Length:	0.0000 96.4600
6.4	Miander Migration:	Not Evaluated
		<u>Old</u> <u>New</u>
7.2	Bank Erosion:	None
	Bank Height:	N.D.

Reach: **R16.S1.07**

<u>Step</u>	<u>Description</u>	<u>Value</u>
3.1	Alluvial Fan:	None
3.2	Grade Control:	
4.3	Buffer Less Than 25 ft	<u>Left</u> <u>Right</u> 2541 1226
5.1	Flow Regulation - Type:	None
	Use:	
5.2	# of Bridges or Culverts:	
	Total Length:	
5.3	Armoring Length	<u>Left</u> <u>Right</u>
	Data Armoring:	None
5.4	Straightening Length:	
	Straightening Data:	None

<u>Step</u>	<u>Description</u>	<u>Value</u>
5.5	Dredging History:	None
6.1	Berms & Roads Data:	None
		<u>One Side</u> <u>Both Sides</u>
	Berms & Roads:	
	Berm:	
	Path:	
	Road:	
	Railroad:	
6.2	Corridor Development Data:	None
	Length:	
6.4	Miander Migration:	Not Evaluated
		<u>Old</u> <u>New</u>
7.2	Bank Erosion:	None
	Bank Height:	N.D.



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Reach: R16.S1.08				<u>Step</u>	<u>Description</u>	<u>Value</u>
<u>Step</u>	<u>Description</u>	<u>Value</u>		5.5	Dredging History:	None
3.1	Alluvial Fan:	None		6.1	Berms & Roads Data:	
3.2	Grade Control:	None			<u>One Side</u>	<u>Both Sides</u>
4.3	Buffer Less Than 25 ft	<u>Left</u>	<u>Right</u>	Berms & Roads:	906.7700	88.2600
		2855	1723	Berm:		
5.1	Flow Regulation - Type:	None		Path:		
	Use:			Road:		
5.2	# of Bridges or Culverts:	3		Railroad:		
	Total Length:	432.610		6.2	Corridor Development Data:	
5.3	Armoring Length	<u>Left</u>	<u>Right</u>	Length:	108.8100	109.3600
		0.00000	0.00000	6.4	Miander Migration:	Not Evaluated
	Data Armoring:	None			<u>Old</u>	<u>New</u>
5.4	Straightening Length:	0.00000		7.2	Bank Erosion:	None
	Straightening Data:	None			Bank Height:	N.D.

Reach: R16.S1.03-S1.01				<u>Step</u>	<u>Description</u>	<u>Value</u>
<u>Step</u>	<u>Description</u>	<u>Value</u>		5.5	Dredging History:	
3.1	Alluvial Fan:			6.1	Berms & Roads Data:	
3.2	Grade Control:				<u>One Side</u>	<u>Both Sides</u>
4.3	Buffer Less Than 25 ft	<u>Left</u>	<u>Right</u>	Berms & Roads:		
				Berm:		
5.1	Flow Regulation - Type:			Path:		
	Use:			Road:		
5.2	# of Bridges or Culverts:			Railroad:		
	Total Length:			6.2	Corridor Development Data:	
5.3	Armoring Length	<u>Left</u>	<u>Right</u>	Length:		
				6.4	Miander Migration:	
	Data Armoring:				<u>Old</u>	<u>New</u>
5.4	Straightening Length:			7.2	Bank Erosion:	
	Straightening Data:				Bank Height:	



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Reach: **R16.S1.03-S1.02**

<u>Step</u>	<u>Description</u>	<u>Value</u>	
3.1	Alluvial Fan:		
3.2	Grade Control:		
4.3	Buffer Less Than 25 ft	<u>Left</u>	<u>Right</u>
5.1	Flow Regulation - Type:		
	Use:		
5.2	# of Bridges or Culverts:		
	Total Length:		
5.3	Armoring Length	<u>Left</u>	<u>Right</u>
	Data Armoring:		
5.4	Straightening Length:		
	Straightening Data:		

<u>Step</u>	<u>Description</u>	<u>Value</u>	
5.5	Dredging History:		
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:		
6.4	Miander Migration:		
		<u>Old</u>	<u>New</u>
7.2	Bank Erosion:		
	Bank Height:		

Reach: **R13.S1.01**

<u>Step</u>	<u>Description</u>	<u>Value</u>	
3.1	Alluvial Fan:	None	
3.2	Grade Control:	None	
4.3	Buffer Less Than 25 ft	<u>Left</u>	<u>Right</u>
		2438	919
5.1	Flow Regulation - Type:	None	
	Use:		
5.2	# of Bridges or Culverts:	5	
	Total Length:	1130.000	
5.3	Armoring Length	<u>Left</u>	<u>Right</u>
		3474.46	2466.86
		997	987
	Data Armoring:		
5.4	Straightening Length:	4682.29980	
	Straightening Data:		

<u>Step</u>	<u>Description</u>	<u>Value</u>	
5.5	Dredging History:	None	
6.1	Berms & Roads Data:		
		<u>One Side</u>	<u>Both Sides</u>
	Berms & Roads:	1749.0500	776.1000
	Berm:	0.0000	0.0000
	Path:	0.000	0.000
	Road:	1749.0500	776.09998
	Railroad:	0.0000	0.00
6.2	Corridor Development Data:		
	Length:	836.8000	1506.8900
6.4	Miander Migration:	Flood Chute	
		<u>Old</u>	<u>New</u>
7.2	Bank Erosion:	None	1142.579956
			1
	Bank Height:	N.D.	4.009



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Reach: **R13.S1.02**

<u>Step</u>	<u>Description</u>	<u>Value</u>	
3.1	Alluvial Fan:	None	
3.2	Grade Control:	Multiple	
4.3	Buffer Less Than 25 ft	<u>Left</u>	<u>Right</u>
		91	680
5.1	Flow Regulation - Type:	None	
	Use:		
5.2	# of Bridges or Culverts:	1	
	Total Length:	350.000	
5.3	Armoring Length	<u>Left</u>	<u>Right</u>
		620.049	989.859
		99	99
	Data Armoring:		
5.4	Straightening Length:	1181.03003	
	Straightening Data:		

<u>Step</u>	<u>Description</u>	<u>Value</u>	
5.5	Dredging History:	None	
6.1	Berms & Roads Data:		
		<u>One Side</u>	<u>Both Sides</u>
	Berms & Roads:	664.6000	320.8800
	Berm:	113.1900	0.0000
	Path:	0.000	0.000
	Road:	551.4100	320.88000
	Railroad:	0.0000	0.00
6.2	Corridor Development Data:		
	Length:	1600.9301	144.3100
6.4	Miander Migration:	Flood Chute	
		<u>Old</u>	<u>New</u>
7.2	Bank Erosion:	None	115.9300003
	Bank Height:	N.D.	6.977

Reach: **R13.S1.03**

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

<u>Step</u>	<u>Description</u>	<u>Value</u>	
5.5	Dredging History:	None	
6.1	Berms & Roads Data:		
		<u>One Side</u>	<u>Both Sides</u>
	Berms & Roads:	0.0000	0.0000
	Berm:	0.0000	0.0000
	Path:	0.000	0.000
	Road:	0.0000	0.00000
	Railroad:	0.0000	0.00
6.2	Corridor Development Data:		
	Length:	0.0000	0.0000
6.4	Miander Migration:	Multiple	
		<u>Old</u>	<u>New</u>
7.2	Bank Erosion:	None	2965.576904
			3
	Bank Height:	N.D.	2.500



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Reach: **R13.S1.04**

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

<u>Step</u>	<u>Description</u>	<u>Value</u>	
5.5	Dredging History:	None	
6.1	Berms & Roads Data:	None	
		<u>One Side</u>	<u>Both Sides</u>
	Berms & Roads:		
	Berm:		
	Path:		
	Road:		
	Railroad:		
6.2	Corridor Development Data:	None	
	Length:		
6.4	Miander Migration:	Not Evaluated	
		<u>Old</u>	<u>New</u>
7.2	Bank Erosion:	N.E.	
	Bank Height:	N.E.	

Reach: **R13.S1.05**

<u>Step</u>	<u>Description</u>	<u>Value</u>	
3.1	Alluvial Fan:	None	
3.2	Grade Control:	None	
4.3	Buffer Less Than 25 ft	<u>Left</u>	<u>Right</u>
		695	231
5.1	Flow Regulation - Type:	None	
	Use:		
5.2	# of Bridges or Culverts:	2	
	Total Length:	337.910	
5.3	Armoring Length	<u>Left</u>	<u>Right</u>
		0.00000	0.00000
	Data Armoring:	None	
5.4	Straightening Length:	0.00000	
	Straightening Data:	None	

<u>Step</u>	<u>Description</u>	<u>Value</u>	
5.5	Dredging History:	None	
6.1	Berms & Roads Data:		
		<u>One Side</u>	<u>Both Sides</u>
	Berms & Roads:	493.0500	0.0000
	Berm:		
	Path:		
	Road:		
	Railroad:		
6.2	Corridor Development Data:		
	Length:	0.0000	112.3900
6.4	Miander Migration:	Not Evaluated	
		<u>Old</u>	<u>New</u>
7.2	Bank Erosion:	None	
	Bank Height:	N.D.	



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Reach: R13.S1.06				<u>Step</u>	<u>Description</u>	<u>Value</u>
<u>Step</u>	<u>Description</u>	<u>Value</u>		5.5	Dredging History:	None
3.1	Alluvial Fan:	None		6.1	Berms & Roads Data:	
3.2	Grade Control:	None			<u>One Side</u>	<u>Both Sides</u>
4.3	Buffer Less Than 25 ft	<u>Left</u>	<u>Right</u>		Berms & Roads:	496.9400 0.0000
		0	0		Berm:	
5.1	Flow Regulation - Type:	None			Path:	
	Use:				Road:	
5.2	# of Bridges or Culverts:	0			Railroad:	
	Total Length:	0.000		6.2	Corridor Development Data:	
5.3	Armoring Length	<u>Left</u>	<u>Right</u>		Length:	0.0000 0.0000
		0.00000	0.00000	6.4	Miander Migration:	Not Evaluated
	Data Armoring:	None			<u>Old</u>	<u>New</u>
5.4	Straightening Length:	0.00000		7.2	Bank Erosion:	None
	Straightening Data:	None			Bank Height:	N.D.

Reach: R13.S1.02-S1.01				<u>Step</u>	<u>Description</u>	<u>Value</u>
<u>Step</u>	<u>Description</u>	<u>Value</u>		5.5	Dredging History:	None
3.1	Alluvial Fan:	None		6.1	Berms & Roads Data:	
3.2	Grade Control:	Multiple			<u>One Side</u>	<u>Both Sides</u>
4.3	Buffer Less Than 25 ft	<u>Left</u>	<u>Right</u>		Berms & Roads:	3129.7400 0.0000
		200	957		Berm:	91.8100 0.0000
5.1	Flow Regulation - Type:	Small Store and Release			Path:	0.000 0.000
	Use:	Other			Road:	3037.9299 0.00000
5.2	# of Bridges or Culverts:	3			Railroad:	0.0000 0.00
	Total Length:	450.000		6.2	Corridor Development Data:	
5.3	Armoring Length	<u>Left</u>	<u>Right</u>		Length:	800.2300 481.3500
		45.3800	660.9400	6.4	Miander Migration:	Multiple
	Data Armoring:				<u>Old</u>	<u>New</u>
5.4	Straightening Length:	4088.03003		7.2	Bank Erosion:	None 3182.040039
	Straightening Data:				Bank Height:	N.D. 4.044



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Reach: **R13.S1.02-S1.02**

<u>Step</u>	<u>Description</u>	<u>Value</u>
3.1	Alluvial Fan:	None
3.2	Grade Control:	None
4.3	Buffer Less Than 25 ft	<u>Left</u> <u>Right</u> 1170 422
5.1	Flow Regulation - Type:	None
	Use:	
5.2	# of Bridges or Culverts:	1
	Total Length:	150.000
5.3	Armoring Length	<u>Left</u> <u>Right</u> 448.560 523.650 00 02
	Data Armoring:	
5.4	Straightening Length:	1098.66003
	Straightening Data:	

<u>Step</u>	<u>Description</u>	<u>Value</u>
5.5	Dredging History:	Dredging
6.1	Berms & Roads Data:	
	<u>One Side</u> <u>Both Sides</u>	
	Berms & Roads:	704.0400 191.3200
	Berm:	0.0000 0.0000
	Path:	0.000 0.000
	Road:	704.0400 191.32001
	Railroad:	0.0000 0.00
6.2	Corridor Development Data:	
	Length:	1180.8600 43.7900
6.4	Miander Migration:	Multiple
	<u>Old</u> <u>New</u>	
7.2	Bank Erosion:	None 1069.440063 5
	Bank Height:	N.D. 3.972

Reach: **R13.S1.02-S1.02-S1.01**

<u>Step</u>	<u>Description</u>	<u>Value</u>
3.1	Alluvial Fan:	Yes
3.2	Grade Control:	Ledge
4.3	Buffer Less Than 25 ft	<u>Left</u> <u>Right</u> 3253 3451
5.1	Flow Regulation - Type:	None
	Use:	
5.2	# of Bridges or Culverts:	5
	Total Length:	240.000
5.3	Armoring Length	<u>Left</u> <u>Right</u> 329.953 176.054 28 15
	Data Armoring:	
5.4	Straightening Length:	2531.30371
	Straightening Data:	

<u>Step</u>	<u>Description</u>	<u>Value</u>
5.5	Dredging History:	Dredging
6.1	Berms & Roads Data:	
	<u>One Side</u> <u>Both Sides</u>	
	Berms & Roads:	0.0000 0.0000
	Berm:	69.4346 0.0000
	Path:	0.000 0.000
	Road:	153.2938 0.00000
	Railroad:	0.0000 0.00
6.2	Corridor Development Data:	
	Length:	270.8771 0.0000
6.4	Miander Migration:	Multiple
	<u>Old</u> <u>New</u>	
7.2	Bank Erosion:	None 7658.687500 0
	Bank Height:	N.D. 2.289



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Reach: R13.S1.02-S1.02-S1.02				<u>Step</u>	<u>Description</u>	<u>Value</u>
<u>Step</u>	<u>Description</u>	<u>Value</u>		5.5	Dredging History:	
3.1	Alluvial Fan:			6.1	Berms & Roads Data:	
3.2	Grade Control:				<u>One Side</u>	<u>Both Sides</u>
4.3	Buffer Less Than 25 ft	<u>Left</u>	<u>Right</u>		Berms & Roads:	
5.1	Flow Regulation - Type:				Berm:	
	Use:				Path:	
5.2	# of Bridges or Culverts:				Road:	
	Total Length:				Railroad:	
5.3	Armoring Length	<u>Left</u>	<u>Right</u>	6.2	Corridor Development Data:	
	Data Armoring:				Length:	
5.4	Straightening Length:			6.4	Miander Migration:	
	Straightening Data:				<u>Old</u>	<u>New</u>
				7.2	Bank Erosion:	
					Bank Height:	

Reach: R13.S1.02-S1.03				<u>Step</u>	<u>Description</u>	<u>Value</u>
<u>Step</u>	<u>Description</u>	<u>Value</u>		5.5	Dredging History:	Commercial Mining
3.1	Alluvial Fan:	None		6.1	Berms & Roads Data:	
3.2	Grade Control:	None			<u>One Side</u>	<u>Both Sides</u>
4.3	Buffer Less Than 25 ft	<u>Left</u>	<u>Right</u>		Berms & Roads:	697.5000 163.2200
		989	0		Berm:	0.0000 0.0000
5.1	Flow Regulation - Type:	None			Path:	0.000 0.000
	Use:				Road:	697.5000 163.22000
5.2	# of Bridges or Culverts:	1			Railroad:	0.0000 0.00
	Total Length:	200.000		6.2	Corridor Development Data:	
5.3	Armoring Length	<u>Left</u>	<u>Right</u>		Length:	0.0000 48.5600
	Data Armoring:	301.660 00	132.820 01	6.4	Miander Migration:	Multiple
5.4	Straightening Length:	2662.17993			<u>Old</u>	<u>New</u>
	Straightening Data:			7.2	Bank Erosion:	None 1461.099975 6
					Bank Height:	N.D. 3.120



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Reach: R13.S1.02-S1.03-S1.01				<u>Step</u>	<u>Description</u>	<u>Value</u>
<u>Step</u>	<u>Description</u>	<u>Value</u>		5.5	Dredging History:	Dredging
3.1	Alluvial Fan:	None		6.1	Berms & Roads Data:	
3.2	Grade Control:	Ledge			<u>One Side</u>	<u>Both Sides</u>
4.3	Buffer Less Than 25 ft	<u>Left</u>	<u>Right</u>	Berms & Roads:	0.0000	0.0000
		1090	1307	Berm:	0.0000	0.0000
5.1	Flow Regulation - Type:	None		Path:	0.000	0.000
	Use:			Road:	78.6783	0.00000
5.2	# of Bridges or Culverts:	2		Railroad:	0.0000	0.00
	Total Length:	200.000		6.2	Corridor Development Data:	
5.3	Armoring Length	<u>Left</u>	<u>Right</u>	Length:	323.7170	156.2370
		249.228	253.602	6.4	Miander Migration:	Multiple
		56	45		<u>Old</u>	<u>New</u>
	Data Armoring:			7.2	Bank Erosion:	None
5.4	Straightening Length:	965.05145				3947.785644
						5
	Straightening Data:			Bank Height:	N.D.	1.618

Reach: R13.S1.02-S1.03-S1.02				<u>Step</u>	<u>Description</u>	<u>Value</u>
<u>Step</u>	<u>Description</u>	<u>Value</u>		5.5	Dredging History:	None
3.1	Alluvial Fan:	None		6.1	Berms & Roads Data:	
3.2	Grade Control:	Ledge			<u>One Side</u>	<u>Both Sides</u>
4.3	Buffer Less Than 25 ft	<u>Left</u>	<u>Right</u>	Berms & Roads:	0.0000	0.0000
		269	377	Berm:	0.0000	0.0000
5.1	Flow Regulation - Type:	Small Withdrawal		Path:	0.000	0.000
	Use:	Other		Road:	0.0000	0.00000
5.2	# of Bridges or Culverts:	4		Railroad:	0.0000	0.00
	Total Length:	260.000		6.2	Corridor Development Data:	
5.3	Armoring Length	<u>Left</u>	<u>Right</u>	Length:	31.3506	0.0000
		26.9247	44.2110	6.4	Miander Migration:	Multiple
		7	2		<u>Old</u>	<u>New</u>
	Data Armoring:			7.2	Bank Erosion:	None
5.4	Straightening Length:	192.97864				3985.088134
						8
	Straightening Data:			Bank Height:	N.D.	1.715



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Reach: **R13.S1.02-S1.04**

<u>Step</u>	<u>Description</u>	<u>Value</u>
3.1	Alluvial Fan:	None
3.2	Grade Control:	Weir
4.3	Buffer Less Than 25 ft	<u>Left</u> <u>Right</u> 843 1363
5.1	Flow Regulation - Type:	None
	Use:	
5.2	# of Bridges or Culverts:	2
	Total Length:	300.000
5.3	Armoring Length	<u>Left</u> <u>Right</u> 892.989 771.760 99 01
	Data Armoring:	
5.4	Straightening Length:	2323.21997
	Straightening Data:	

<u>Step</u>	<u>Description</u>	<u>Value</u>
5.5	Dredging History:	None
6.1	Berms & Roads Data:	
		<u>One Side</u> <u>Both Sides</u>
	Berms & Roads:	1347.1400 0.0000
	Berm:	175.7400 0.0000
	Path:	0.000 0.000
	Road:	1171.3999 0.00000
	Railroad:	0.0000 0.00
6.2	Corridor Development Data:	
	Length:	1433.2300 284.1800
6.4	Miander Migration:	Multiple
		<u>Old</u> <u>New</u>
7.2	Bank Erosion:	None 1335.239990 2
	Bank Height:	N.D. 3.843

Reach: **R13.S1.02-S1.05**

<u>Step</u>	<u>Description</u>	<u>Value</u>
3.1	Alluvial Fan:	None
3.2	Grade Control:	Ledge
4.3	Buffer Less Than 25 ft	<u>Left</u> <u>Right</u> 452 543
5.1	Flow Regulation - Type:	None
	Use:	
5.2	# of Bridges or Culverts:	1
	Total Length:	300.000
5.3	Armoring Length	<u>Left</u> <u>Right</u> 151.789 176.520 99 00
	Data Armoring:	
5.4	Straightening Length:	4191.97021
	Straightening Data:	

<u>Step</u>	<u>Description</u>	<u>Value</u>
5.5	Dredging History:	Gravel Mining
6.1	Berms & Roads Data:	
		<u>One Side</u> <u>Both Sides</u>
	Berms & Roads:	293.5500 0.0000
	Berm:	101.2200 0.0000
	Path:	0.000 0.000
	Road:	192.3300 0.00000
	Railroad:	0.0000 0.00
6.2	Corridor Development Data:	
	Length:	104.6400 59.0300
6.4	Miander Migration:	Multiple
		<u>Old</u> <u>New</u>
7.2	Bank Erosion:	None 1170.770019 5
	Bank Height:	N.D. 3.712



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Reach: **R13.S1.02-S1.06**

<u>Step</u>	<u>Description</u>	<u>Value</u>
3.1	Alluvial Fan:	None
3.2	Grade Control:	None
4.3	Buffer Less Than 25 ft	<u>Left</u> <u>Right</u> 0 558
5.1	Flow Regulation - Type:	None
	Use:	
5.2	# of Bridges or Culverts:	1
	Total Length:	0.000
5.3	Armoring Length	<u>Left</u> <u>Right</u> 0.00000 365.50903
	Data Armoring:	
5.4	Straightening Length:	3262.43042
	Straightening Data:	

<u>Step</u>	<u>Description</u>	<u>Value</u>
5.5	Dredging History:	Commercial Mining
6.1	Berms & Roads Data:	
		<u>One Side</u> <u>Both Sides</u>
	Berms & Roads:	0.0000 0.0000
	Berm:	0.0000 0.0000
	Path:	0.000 0.000
	Road:	814.2689 0.00000
	Railroad:	0.0000 0.00
6.2	Corridor Development Data:	
	Length:	0.0000 0.0000
6.4	Miander Migration:	Multiple
		<u>Old</u> <u>New</u>
7.2	Bank Erosion:	None 3016.2180176
	Bank Height:	N.D. 2.779

Reach: **R13.S1.02-S1.07**

<u>Step</u>	<u>Description</u>	<u>Value</u>
3.1	Alluvial Fan:	Yes
3.2	Grade Control:	None
4.3	Buffer Less Than 25 ft	<u>Left</u> <u>Right</u> 0 37
5.1	Flow Regulation - Type:	None
	Use:	
5.2	# of Bridges or Culverts:	0
	Total Length:	0.000
5.3	Armoring Length	<u>Left</u> <u>Right</u> 0.00000 310.22928
	Data Armoring:	
5.4	Straightening Length:	0.00000
	Straightening Data:	None

<u>Step</u>	<u>Description</u>	<u>Value</u>
5.5	Dredging History:	None
6.1	Berms & Roads Data:	
		<u>One Side</u> <u>Both Sides</u>
	Berms & Roads:	0.0000 0.0000
	Berm:	0.0000 0.0000
	Path:	0.000 0.000
	Road:	0.0000 0.00000
	Railroad:	0.0000 0.00
6.2	Corridor Development Data:	
	Length:	0.0000 0.0000
6.4	Miander Migration:	Multiple
		<u>Old</u> <u>New</u>
7.2	Bank Erosion:	None 973.0110474
	Bank Height:	N.D. 3.322



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Reach: R13.S1.02-S1.07-S1.01				<u>Step</u>	<u>Description</u>	<u>Value</u>
<u>Step</u>	<u>Description</u>	<u>Value</u>		5.5	Dredging History:	
3.1	Alluvial Fan:			6.1	Berms & Roads Data:	
3.2	Grade Control:				<u>One Side</u>	<u>Both Sides</u>
4.3	Buffer Less Than 25 ft	<u>Left</u>	<u>Right</u>		Berms & Roads:	
5.1	Flow Regulation - Type:				Berm:	
	Use:				Path:	
5.2	# of Bridges or Culverts:				Road:	
	Total Length:				Railroad:	
5.3	Armoring Length	<u>Left</u>	<u>Right</u>	6.2	Corridor Development Data:	
	Data Armoring:				Length:	
5.4	Straightening Length:			6.4	Miander Migration:	
	Straightening Data:				<u>Old</u>	<u>New</u>
				7.2	Bank Erosion:	
					Bank Height:	

Reach: R13.S1.02-S1.07-S1.02				<u>Step</u>	<u>Description</u>	<u>Value</u>
<u>Step</u>	<u>Description</u>	<u>Value</u>		5.5	Dredging History:	
3.1	Alluvial Fan:			6.1	Berms & Roads Data:	
3.2	Grade Control:				<u>One Side</u>	<u>Both Sides</u>
4.3	Buffer Less Than 25 ft	<u>Left</u>	<u>Right</u>		Berms & Roads:	
5.1	Flow Regulation - Type:				Berm:	
	Use:				Path:	
5.2	# of Bridges or Culverts:				Road:	
	Total Length:				Railroad:	
5.3	Armoring Length	<u>Left</u>	<u>Right</u>	6.2	Corridor Development Data:	
	Data Armoring:				Length:	
5.4	Straightening Length:			6.4	Miander Migration:	
	Straightening Data:				<u>Old</u>	<u>New</u>
				7.2	Bank Erosion:	
					Bank Height:	



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Reach: R13.S1.02-S1.08				<u>Step</u>	<u>Description</u>	<u>Value</u>
<u>Step</u>	<u>Description</u>	<u>Value</u>		5.5	Dredging History:	None
3.1	Alluvial Fan:	None		6.1	Berms & Roads Data:	
3.2	Grade Control:	None			<u>One Side</u>	<u>Both Sides</u>
4.3	Buffer Less Than 25 ft	<u>Left</u>	<u>Right</u>	Berms & Roads:	0.0000	0.0000
		0	62	Berm:	0.0000	0.0000
5.1	Flow Regulation - Type:	None		Path:	0.000	0.000
	Use:			Road:	0.0000	0.00000
5.2	# of Bridges or Culverts:	0		Railroad:	0.0000	0.00
	Total Length:	0.000		6.2	Corridor Development Data:	
5.3	Armoring Length	<u>Left</u>	<u>Right</u>	Length:	0.0000	0.0000
		0.00000	229.13609	6.4	Miander Migration:	Multiple
	Data Armoring:				<u>Old</u>	<u>New</u>
5.4	Straightening Length:	0.00000		7.2	Bank Erosion:	None
	Straightening Data:	None				1136.6232910
				Bank Height:	N.D.	2.976

Reach: R13.S1.02-S1.09				<u>Step</u>	<u>Description</u>	<u>Value</u>
<u>Step</u>	<u>Description</u>	<u>Value</u>		5.5	Dredging History:	None
3.1	Alluvial Fan:	Yes		6.1	Berms & Roads Data:	
3.2	Grade Control:	None			<u>One Side</u>	<u>Both Sides</u>
4.3	Buffer Less Than 25 ft	<u>Left</u>	<u>Right</u>	Berms & Roads:	0.0000	0.0000
		59	61	Berm:	108.8100	0.0000
5.1	Flow Regulation - Type:	None		Path:	0.000	0.000
	Use:			Road:	0.0000	0.00000
5.2	# of Bridges or Culverts:	2		Railroad:	0.0000	0.00
	Total Length:	80.000		6.2	Corridor Development Data:	
5.3	Armoring Length	<u>Left</u>	<u>Right</u>	Length:	0.0000	0.0000
		100.30327	123.19357	6.4	Miander Migration:	Multiple
	Data Armoring:				<u>Old</u>	<u>New</u>
5.4	Straightening Length:	160.98279		7.2	Bank Erosion:	None
	Straightening Data:					676.3676147
				Bank Height:	N.D.	2.444



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Reach: **R13.S1.02-S1.10**

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

<u>Step</u>	<u>Description</u>	<u>Value</u>	
5.5	Dredging History:	None	
6.1	Berms & Roads Data:		
		<u>One Side</u>	<u>Both Sides</u>
	Berms & Roads:	289.5400	0.0000
	Berm:		
	Path:		
	Road:		
	Railroad:		
6.2	Corridor Development Data:		
	Length:	0.0000	0.0000
6.4	Miander Migration:	Not Evaluated	
		<u>Old</u>	<u>New</u>
7.2	Bank Erosion:	None	
	Bank Height:	N.D.	

Reach: **M02.01**

<u>Step</u>	<u>Description</u>	<u>Value</u>	
3.1	Alluvial Fan:	None	
3.2	Grade Control:	Ledge	
4.3	Buffer Less Than 25 ft	<u>Left</u>	<u>Right</u>
		596	840
5.1	Flow Regulation - Type:	Small Withdrawal	
	Use:	Recreation	
5.2	# of Bridges or Culverts:	3	
	Total Length:	1560.000	
5.3	Armoring Length	<u>Left</u>	<u>Right</u>
		667.028	651.046
		69	57
	Data Armoring:		
5.4	Straightening Length:	2266.67090	
	Straightening Data:		

<u>Step</u>	<u>Description</u>	<u>Value</u>	
5.5	Dredging History:	None	
6.1	Berms & Roads Data:		
		<u>One Side</u>	<u>Both Sides</u>
	Berms & Roads:	0.0000	0.0000
	Berm:	0.0000	0.0000
	Path:	0.000	0.000
	Road:	2991.2468	0.00000
	Railroad:	0.0000	0.00
6.2	Corridor Development Data:		
	Length:	1145.9896	0.0000
6.4	Miander Migration:	Flood Chute	
		<u>Old</u>	<u>New</u>
7.2	Bank Erosion:	None	1037.435424
			8
	Bank Height:	N.D.	11.920



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Reach: **M02.02**

<u>Step</u>	<u>Description</u>	<u>Value</u>
3.1	Alluvial Fan:	None
3.2	Grade Control:	None
4.3	Buffer Less Than 25 ft	<u>Left</u> <u>Right</u>
		0 0
5.1	Flow Regulation - Type:	None
	Use:	
5.2	# of Bridges or Culverts:	0
	Total Length:	0.000
5.3	Armoring Length	<u>Left</u> <u>Right</u>
		121.769 64.5700
		23 5
	Data Armoring:	
5.4	Straightening Length:	1909.42664
	Straightening Data:	

<u>Step</u>	<u>Description</u>	<u>Value</u>
5.5	Dredging History:	None
6.1	Berms & Roads Data:	
		<u>One Side</u> <u>Both Sides</u>
	Berms & Roads:	0.0000 0.0000
	Berm:	0.0000 0.0000
	Path:	0.000 0.000
	Road:	3747.1326 0.00000
	Railroad:	0.0000 0.00
6.2	Corridor Development Data:	
	Length:	174.1305 0.0000
6.4	Miander Migration:	Flood Chute
		<u>Old</u> <u>New</u>
7.2	Bank Erosion:	None 609.1557007
	Bank Height:	N.D. 3.439

Reach: **M02.03**

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

<u>Step</u>	<u>Description</u>	<u>Value</u>
5.5	Dredging History:	None
6.1	Berms & Roads Data:	
		<u>One Side</u> <u>Both Sides</u>
	Berms & Roads:	0.0000 0.0000
	Berm:	0.0000 0.0000
	Path:	0.000 0.000
	Road:	2921.6572 0.00000
	Railroad:	0.0000 0.00
6.2	Corridor Development Data:	
	Length:	0.0000 0.0000
6.4	Miander Migration:	Multiple
		<u>Old</u> <u>New</u>
7.2	Bank Erosion:	None 0.0000000
	Bank Height:	N.D. 0.000



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Reach: M02.04				<u>Step</u>	<u>Description</u>	<u>Value</u>	
<u>Step</u>	<u>Description</u>	<u>Value</u>		5.5	Dredging History:	None	
3.1	Alluvial Fan:	None		6.1	Berms & Roads Data:		
3.2	Grade Control:	None			<u>One Side</u>	<u>Both Sides</u>	
4.3	Buffer Less Than 25 ft	<u>Left</u>	<u>Right</u>	Berms & Roads:	0.0000	0.0000	
		0	145	Berm:	0.0000	0.0000	
5.1	Flow Regulation - Type:	None		Path:	0.000	0.000	
	Use:			Road:	3345.1509	0.00000	
5.2	# of Bridges or Culverts:	1		Railroad:	0.0000	0.00	
	Total Length:	50.000		6.2	Corridor Development Data:		
5.3	Armoring Length	<u>Left</u>	<u>Right</u>	Length:	0.0000	0.0000	
		32.9327	230.393	6.4	Miander Migration:	Multiple	
		7	39		<u>Old</u>	<u>New</u>	
	Data Armoring:			7.2	Bank Erosion:	None	995.0097656
5.4	Straightening Length:	159.62978		Bank Height:	N.D.	3.077	
	Straightening Data:						

Reach: T1.01				<u>Step</u>	<u>Description</u>	<u>Value</u>	
<u>Step</u>	<u>Description</u>	<u>Value</u>		5.5	Dredging History:	None	
3.1	Alluvial Fan:	None		6.1	Berms & Roads Data:		
3.2	Grade Control:	None			<u>One Side</u>	<u>Both Sides</u>	
4.3	Buffer Less Than 25 ft	<u>Left</u>	<u>Right</u>	Berms & Roads:	0.0000	0.0000	
		112	112	Berm:			
5.1	Flow Regulation - Type:	None		Path:			
	Use:			Road:			
5.2	# of Bridges or Culverts:	1		Railroad:			
	Total Length:	91.040		6.2	Corridor Development Data:		
5.3	Armoring Length	<u>Left</u>	<u>Right</u>	Length:	0.0000	0.0000	
		0.00000	0.00000	6.4	Miander Migration:	None	
	Data Armoring:	None			<u>Old</u>	<u>New</u>	
5.4	Straightening Length:	0.00000		7.2	Bank Erosion:	None	
	Straightening Data:	None		Bank Height:	N.D.		



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Reach: R10.S3.01				<u>Step</u>	<u>Description</u>	<u>Value</u>	
<u>Step</u>	<u>Description</u>	<u>Value</u>		5.5	Dredging History:	None	
3.1	Alluvial Fan:	None		6.1	Berms & Roads Data:		
3.2	Grade Control:	Waterfall				<u>One Side</u>	<u>Both Sides</u>
4.3	Buffer Less Than 25 ft	<u>Left</u>	<u>Right</u>	Berms & Roads:	1195.8700	0.0000	
		801	1156	Berm:	767.0700	0.0000	
5.1	Flow Regulation - Type:	None		Path:	0.000	0.000	
	Use:			Road:	428.8000	0.00000	
5.2	# of Bridges or Culverts:	5		Railroad:	0.0000	0.00	
	Total Length:	1100.000		6.2	Corridor Development Data:		
5.3	Armoring Length	<u>Left</u>	<u>Right</u>	Length:	341.6100	809.3700	
		803.470	860.599	6.4	Miander Migration:	Flood Chute	
		03	98			<u>Old</u>	<u>New</u>
	Data Armoring:			7.2	Bank Erosion:	None	353.4599915
5.4	Straightening Length:	1830.34009		Bank Height:	N.D.	5.318	
	Straightening Data:						

Reach: R10.S3.02				<u>Step</u>	<u>Description</u>	<u>Value</u>	
<u>Step</u>	<u>Description</u>	<u>Value</u>		5.5	Dredging History:	None	
3.1	Alluvial Fan:	None		6.1	Berms & Roads Data:		
3.2	Grade Control:	Multiple				<u>One Side</u>	<u>Both Sides</u>
4.3	Buffer Less Than 25 ft	<u>Left</u>	<u>Right</u>	Berms & Roads:	930.5000	0.0000	
		229	846	Berm:	0.0000	0.0000	
5.1	Flow Regulation - Type:	None		Path:	0.000	0.000	
	Use:			Road:	930.5000	0.00000	
5.2	# of Bridges or Culverts:	0		Railroad:	0.0000	0.00	
	Total Length:	0.000		6.2	Corridor Development Data:		
5.3	Armoring Length	<u>Left</u>	<u>Right</u>	Length:	0.0000	0.0000	
		0.00000	91.7800	6.4	Miander Migration:	Flood Chute	
			0			<u>Old</u>	<u>New</u>
	Data Armoring:			7.2	Bank Erosion:	None	390.3600159
5.4	Straightening Length:	0.00000		Bank Height:	N.D.	8.672	
	Straightening Data:	None					



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Reach: R10.S3.02-S1.01				<u>Step</u>	<u>Description</u>	<u>Value</u>
<u>Step</u>	<u>Description</u>	<u>Value</u>		5.5	Dredging History:	
3.1	Alluvial Fan:			6.1	Berms & Roads Data:	
3.2	Grade Control:				<u>One Side</u>	<u>Both Sides</u>
4.3	Buffer Less Than 25 ft	<u>Left</u>	<u>Right</u>		Berms & Roads:	
5.1	Flow Regulation - Type:				Berm:	
	Use:				Path:	
5.2	# of Bridges or Culverts:				Road:	
	Total Length:				Railroad:	
5.3	Armoring Length	<u>Left</u>	<u>Right</u>	6.2	Corridor Development Data:	
	Data Armoring:				Length:	
5.4	Straightening Length:			6.4	Miander Migration:	
	Straightening Data:				<u>Old</u>	<u>New</u>
				7.2	Bank Erosion:	
					Bank Height:	

Reach: R10.S3.03				<u>Step</u>	<u>Description</u>	<u>Value</u>
<u>Step</u>	<u>Description</u>	<u>Value</u>		5.5	Dredging History:	None
3.1	Alluvial Fan:	None		6.1	Berms & Roads Data:	None
3.2	Grade Control:	Waterfall			<u>One Side</u>	<u>Both Sides</u>
4.3	Buffer Less Than 25 ft	<u>Left</u>	<u>Right</u>		Berms & Roads:	0.0000
		0	0		Berm:	0.0000
5.1	Flow Regulation - Type:	None			Path:	0.000
	Use:				Road:	0.0000
5.2	# of Bridges or Culverts:	0			Railroad:	0.0000
	Total Length:	0.000		6.2	Corridor Development Data:	None
5.3	Armoring Length	<u>Left</u>	<u>Right</u>		Length:	0.0000
	Data Armoring:	0.00000	0.00000	6.4	Miander Migration:	Multiple
5.4	Straightening Length:	0.00000			<u>Old</u>	<u>New</u>
	Straightening Data:	None		7.2	Bank Erosion:	None
					Bank Height:	181.5800018
						N.D.
						6.222



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Reach: **R10.S3.04**

<u>Step</u>	<u>Description</u>	<u>Value</u>	
3.1	Alluvial Fan:	None	
3.2	Grade Control:	Weir	
4.3	Buffer Less Than 25 ft	<u>Left</u>	<u>Right</u>
		44	306
5.1	Flow Regulation - Type:	Small Withdrawal	
	Use:	Recreation	
5.2	# of Bridges or Culverts:	1	
	Total Length:	300.000	
5.3	Armoring Length	<u>Left</u>	<u>Right</u>
		57.3100	36.2600
		0	0
	Data Armoring:		
5.4	Straightening Length:	173.14000	
	Straightening Data:		

<u>Step</u>	<u>Description</u>	<u>Value</u>	
5.5	Dredging History:	Dredging	
6.1	Berms & Roads Data:		
		<u>One Side</u>	<u>Both Sides</u>
	Berms & Roads:	0.0000	0.0000
	Berm:	0.0000	0.0000
	Path:	0.000	0.000
	Road:	0.0000	0.00000
	Railroad:	0.0000	0.00
6.2	Corridor Development Data:		
	Length:	0.0000	0.0000
6.4	Miander Migration:	Multiple	
		<u>Old</u>	<u>New</u>
7.2	Bank Erosion:	None	1352.449951
			2
	Bank Height:	N.D.	6.244

Reach: **R10.S3.04-S1.01**

<u>Step</u>	<u>Description</u>	<u>Value</u>	
3.1	Alluvial Fan:		
3.2	Grade Control:		
4.3	Buffer Less Than 25 ft	<u>Left</u>	<u>Right</u>
5.1	Flow Regulation - Type:		
	Use:		
5.2	# of Bridges or Culverts:		
	Total Length:		
5.3	Armoring Length	<u>Left</u>	<u>Right</u>
	Data Armoring:		
5.4	Straightening Length:		
	Straightening Data:		

<u>Step</u>	<u>Description</u>	<u>Value</u>	
5.5	Dredging History:		
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:		
6.4	Miander Migration:		
		<u>Old</u>	<u>New</u>
7.2	Bank Erosion:		
	Bank Height:		



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Reach: R10.S3.05				<u>Step</u>	<u>Description</u>	<u>Value</u>
<u>Step</u>	<u>Description</u>	<u>Value</u>		5.5	Dredging History:	None
3.1	Alluvial Fan:	None		6.1	Berms & Roads Data:	
3.2	Grade Control:	Multiple			<u>One Side</u>	<u>Both Sides</u>
4.3	Buffer Less Than 25 ft	<u>Left</u>	<u>Right</u>	Berms & Roads:	0.0000	0.0000
		83	80	Berm:	0.0000	0.0000
5.1	Flow Regulation - Type:	None		Path:	0.000	0.000
	Use:			Road:	0.0000	0.00000
5.2	# of Bridges or Culverts:	1		Railroad:	0.0000	0.00
	Total Length:	175.000		6.2	Corridor Development Data:	
5.3	Armoring Length	<u>Left</u>	<u>Right</u>	Length:	0.0000	93.3800
		29.8500	64.7100	6.4	Miander Migration:	Flood Chute
		0	0		<u>Old</u>	<u>New</u>
	Data Armoring:			7.2	Bank Erosion:	None
5.4	Straightening Length:	174.06000			Bank Height:	676.2000122
	Straightening Data:					N.D.
						18.758

Reach: R10.S3.06				<u>Step</u>	<u>Description</u>	<u>Value</u>
<u>Step</u>	<u>Description</u>	<u>Value</u>		5.5	Dredging History:	None
3.1	Alluvial Fan:	None		6.1	Berms & Roads Data:	None
3.2	Grade Control:	Multiple			<u>One Side</u>	<u>Both Sides</u>
4.3	Buffer Less Than 25 ft	<u>Left</u>	<u>Right</u>	Berms & Roads:	0.0000	0.0000
		0	0	Berm:	0.0000	0.0000
5.1	Flow Regulation - Type:	None		Path:	0.000	0.000
	Use:			Road:	0.0000	0.00000
5.2	# of Bridges or Culverts:	0		Railroad:	0.0000	0.00
	Total Length:	0.000		6.2	Corridor Development Data:	None
5.3	Armoring Length	<u>Left</u>	<u>Right</u>	Length:	0.0000	0.0000
		0.00000	0.00000	6.4	Miander Migration:	Flood Chute
	Data Armoring:	None			<u>Old</u>	<u>New</u>
5.4	Straightening Length:	0.00000		7.2	Bank Erosion:	None
	Straightening Data:	None			Bank Height:	1062.429931
						6
						10.330



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Reach: **R10.S3.07**

<u>Step</u>	<u>Description</u>	<u>Value</u>
3.1	Alluvial Fan:	None
3.2	Grade Control:	None
4.3	Buffer Less Than 25 ft	<u>Left</u> <u>Right</u>
		0 0
5.1	Flow Regulation - Type:	None
	Use:	
5.2	# of Bridges or Culverts:	1
	Total Length:	170.000
5.3	Armoring Length	<u>Left</u> <u>Right</u>
		0.00000 0.00000
	Data Armoring:	None
5.4	Straightening Length:	0.00000
	Straightening Data:	None

<u>Step</u>	<u>Description</u>	<u>Value</u>
5.5	Dredging History:	None
6.1	Berms & Roads Data:	
		<u>One Side</u> <u>Both Sides</u>
	Berms & Roads:	0.0000 0.0000
	Berm:	0.0000 0.0000
	Path:	0.000 0.000
	Road:	0.0000 0.00000
	Railroad:	0.0000 0.00
6.2	Corridor Development Data:	
	Length:	0.0000 109.2500
6.4	Miander Migration:	Not Evaluated
		<u>Old</u> <u>New</u>
7.2	Bank Erosion:	None 0.0000000
	Bank Height:	N.D. 0.000

Reach: **R10.S3.05-S1.01**

<u>Step</u>	<u>Description</u>	<u>Value</u>
3.1	Alluvial Fan:	
3.2	Grade Control:	
4.3	Buffer Less Than 25 ft	<u>Left</u> <u>Right</u>
5.1	Flow Regulation - Type:	
	Use:	
5.2	# of Bridges or Culverts:	
	Total Length:	
5.3	Armoring Length	<u>Left</u> <u>Right</u>
	Data Armoring:	
5.4	Straightening Length:	
	Straightening Data:	

<u>Step</u>	<u>Description</u>	<u>Value</u>
5.5	Dredging History:	
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:	
6.4	Miander Migration:	
		<u>Old</u> <u>New</u>
7.2	Bank Erosion:	
	Bank Height:	



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Reach: R10.S3.05-S1.02				<u>Step</u>	<u>Description</u>	<u>Value</u>
<u>Step</u>	<u>Description</u>	<u>Value</u>		5.5	Dredging History:	
3.1	Alluvial Fan:			6.1	Berms & Roads Data:	
3.2	Grade Control:				<u>One Side</u>	<u>Both Sides</u>
4.3	Buffer Less Than 25 ft	<u>Left</u>	<u>Right</u>		Berms & Roads:	
					Berm:	
5.1	Flow Regulation - Type:				Path:	
	Use:				Road:	
5.2	# of Bridges or Culverts:				Railroad:	
	Total Length:			6.2	Corridor Development Data:	
5.3	Armoring Length	<u>Left</u>	<u>Right</u>		Length:	
	Data Armoring:			6.4	Miander Migration:	
5.4	Straightening Length:				<u>Old</u>	<u>New</u>
	Straightening Data:			7.2	Bank Erosion:	
					Bank Height:	

Reach: R10.S3.05-S1.01-S1.01				<u>Step</u>	<u>Description</u>	<u>Value</u>
<u>Step</u>	<u>Description</u>	<u>Value</u>		5.5	Dredging History:	
3.1	Alluvial Fan:			6.1	Berms & Roads Data:	
3.2	Grade Control:				<u>One Side</u>	<u>Both Sides</u>
4.3	Buffer Less Than 25 ft	<u>Left</u>	<u>Right</u>		Berms & Roads:	
					Berm:	
5.1	Flow Regulation - Type:				Path:	
	Use:				Road:	
5.2	# of Bridges or Culverts:				Railroad:	
	Total Length:			6.2	Corridor Development Data:	
5.3	Armoring Length	<u>Left</u>	<u>Right</u>		Length:	
	Data Armoring:			6.4	Miander Migration:	
5.4	Straightening Length:				<u>Old</u>	<u>New</u>
	Straightening Data:			7.2	Bank Erosion:	
					Bank Height:	



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Reach: R10.S3.03-S1.01				<u>Step</u>	<u>Description</u>	<u>Value</u>
<u>Step</u>	<u>Description</u>	<u>Value</u>		5.5	Dredging History:	
3.1	Alluvial Fan:			6.1	Berms & Roads Data:	
3.2	Grade Control:				<u>One Side</u>	<u>Both Sides</u>
4.3	Buffer Less Than 25 ft	<u>Left</u>	<u>Right</u>		Berms & Roads:	
					Berm:	
5.1	Flow Regulation - Type:				Path:	
	Use:				Road:	
5.2	# of Bridges or Culverts:				Railroad:	
	Total Length:			6.2	Corridor Development Data:	
5.3	Armoring Length	<u>Left</u>	<u>Right</u>		Length:	
				6.4	Miander Migration:	
	Data Armoring:				<u>Old</u>	<u>New</u>
5.4	Straightening Length:			7.2	Bank Erosion:	
	Straightening Data:				Bank Height:	

Reach: R10.S1.01				<u>Step</u>	<u>Description</u>	<u>Value</u>
<u>Step</u>	<u>Description</u>	<u>Value</u>		5.5	Dredging History:	None
3.1	Alluvial Fan:	None		6.1	Berms & Roads Data:	
3.2	Grade Control:	Waterfall			<u>One Side</u>	<u>Both Sides</u>
4.3	Buffer Less Than 25 ft	<u>Left</u>	<u>Right</u>		Berms & Roads:	771.7800 0.0000
		605	302		Berm:	
5.1	Flow Regulation - Type:	None			Path:	
	Use:				Road:	
5.2	# of Bridges or Culverts:	6			Railroad:	
	Total Length:	3818.070		6.2	Corridor Development Data:	
5.3	Armoring Length	<u>Left</u>	<u>Right</u>		Length:	294.3500 547.4000
		747.269	416.130	6.4	Miander Migration:	Migration
		96	00		<u>Old</u>	<u>New</u>
	Data Armoring:			7.2	Bank Erosion:	None
5.4	Straightening Length:	890.73999			Bank Height:	N.D.
	Straightening Data:					



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Reach: **R10.S1.02**

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

<u>Step</u>	<u>Description</u>	<u>Value</u>
5.5	Dredging History:	None
6.1	Berms & Roads Data:	None
		<u>One Side</u> <u>Both Sides</u>
	Berms & Roads:	
	Berm:	
	Path:	
	Road:	
	Railroad:	
6.2	Corridor Development Data:	None
	Length:	
6.4	Miander Migration:	Not Evaluated
		<u>Old</u> <u>New</u>
7.2	Bank Erosion:	N.E.
	Bank Height:	N.E.

Reach: **R10.S1.03**

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

<u>Step</u>	<u>Description</u>	<u>Value</u>
5.5	Dredging History:	None
6.1	Berms & Roads Data:	None
		<u>One Side</u> <u>Both Sides</u>
	Berms & Roads:	
	Berm:	
	Path:	
	Road:	
	Railroad:	
6.2	Corridor Development Data:	None
	Length:	
6.4	Miander Migration:	Not Evaluated
		<u>Old</u> <u>New</u>
7.2	Bank Erosion:	N.E.
	Bank Height:	N.E.



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Reach: R10.S1.03-S1.01				<u>Step</u>	<u>Description</u>	<u>Value</u>
<u>Step</u>	<u>Description</u>	<u>Value</u>		5.5	Dredging History:	
3.1	Alluvial Fan:			6.1	Berms & Roads Data:	
3.2	Grade Control:				<u>One Side</u>	<u>Both Sides</u>
4.3	Buffer Less Than 25 ft	<u>Left</u>	<u>Right</u>		Berms & Roads:	
					Berm:	
5.1	Flow Regulation - Type:				Path:	
	Use:				Road:	
5.2	# of Bridges or Culverts:				Railroad:	
	Total Length:			6.2	Corridor Development Data:	
5.3	Armoring Length	<u>Left</u>	<u>Right</u>		Length:	
				6.4	Miander Migration:	
	Data Armoring:				<u>Old</u>	<u>New</u>
5.4	Straightening Length:			7.2	Bank Erosion:	
	Straightening Data:				Bank Height:	

Reach: R10.S1.04				<u>Step</u>	<u>Description</u>	<u>Value</u>
<u>Step</u>	<u>Description</u>	<u>Value</u>		5.5	Dredging History:	None
3.1	Alluvial Fan:	None		6.1	Berms & Roads Data:	None
3.2	Grade Control:	None			<u>One Side</u>	<u>Both Sides</u>
4.3	Buffer Less Than 25 ft	<u>Left</u>	<u>Right</u>		Berms & Roads:	0.0000 0.0000
		0	0		Berm:	
5.1	Flow Regulation - Type:	None			Path:	
	Use:				Road:	
5.2	# of Bridges or Culverts:	1			Railroad:	
	Total Length:	93.340		6.2	Corridor Development Data:	None
5.3	Armoring Length	<u>Left</u>	<u>Right</u>		Length:	0.0000 0.0000
		0.00000	0.00000	6.4	Miander Migration:	Not Evaluated
	Data Armoring:	None			<u>Old</u>	<u>New</u>
5.4	Straightening Length:	0.00000		7.2	Bank Erosion:	None
	Straightening Data:	None			Bank Height:	N.D.



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Reach: **R10.S1.05**

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

<u>Step</u>	<u>Description</u>	<u>Value</u>
5.5	Dredging History:	None
6.1	Berms & Roads Data:	
		<u>One Side</u> <u>Both Sides</u>
	Berms & Roads:	0.0000 0.0000
	Berm:	
	Path:	
	Road:	
	Railroad:	
6.2	Corridor Development Data:	
	Length:	58.0700 0.0000
6.4	Miander Migration:	Not Evaluated
		<u>Old</u> <u>New</u>
7.2	Bank Erosion:	None
	Bank Height:	N.D.

Reach: **R10.S1.06**

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

<u>Step</u>	<u>Description</u>	<u>Value</u>
5.5	Dredging History:	None
6.1	Berms & Roads Data:	None
		<u>One Side</u> <u>Both Sides</u>
	Berms & Roads:	
	Berm:	
	Path:	
	Road:	
	Railroad:	
6.2	Corridor Development Data:	None
	Length:	
6.4	Miander Migration:	Not Evaluated
		<u>Old</u> <u>New</u>
7.2	Bank Erosion:	N.E.
	Bank Height:	N.E.



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Reach: **R10.S1.07**

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

<u>Step</u>	<u>Description</u>	<u>Value</u>	
5.5	Dredging History:	None	
6.1	Berms & Roads Data:		
		<u>One Side</u>	<u>Both Sides</u>
	Berms & Roads:	139.1600	0.0000
	Berm:		
	Path:		
	Road:		
	Railroad:		
6.2	Corridor Development Data:		
	Length:	0.0000	0.0000
6.4	Miander Migration:	Not Evaluated	
		<u>Old</u>	<u>New</u>
7.2	Bank Erosion:	None	
	Bank Height:	N.D.	

Reach: **R10.S1.02-S1.01**

<u>Step</u>	<u>Description</u>	<u>Value</u>	
3.1	Alluvial Fan:		
3.2	Grade Control:		
4.3	Buffer Less Than 25 ft	<u>Left</u>	<u>Right</u>
5.1	Flow Regulation - Type:		
	Use:		
5.2	# of Bridges or Culverts:		
	Total Length:		
5.3	Armoring Length	<u>Left</u>	<u>Right</u>
	Data Armoring:		
5.4	Straightening Length:		
	Straightening Data:		

<u>Step</u>	<u>Description</u>	<u>Value</u>	
5.5	Dredging History:		
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:		
6.4	Miander Migration:		
		<u>Old</u>	<u>New</u>
7.2	Bank Erosion:		
	Bank Height:		



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Reach: R09.S1.01				<u>Step</u>	<u>Description</u>	<u>Value</u>	
<u>Step</u>	<u>Description</u>	<u>Value</u>		5.5	Dredging History:	Gravel Mining	
3.1	Alluvial Fan:	Yes		6.1	Berms & Roads Data:		
3.2	Grade Control:	None				<u>One Side</u>	<u>Both Sides</u>
4.3	Buffer Less Than 25 ft	<u>Left</u>	<u>Right</u>		Berms & Roads:	1601.5601	0.0000
		2471	1064		Berm:		
5.1	Flow Regulation - Type:	None			Path:		
	Use:				Road:		
5.2	# of Bridges or Culverts:	5			Railroad:		
	Total Length:	3351.680		6.2	Corridor Development Data:		
5.3	Armoring Length	<u>Left</u>	<u>Right</u>		Length:	794.5700	361.8400
		684.479	284.989	6.4	Miander Migration:	None	
		98	99			<u>Old</u>	<u>New</u>
	Data Armoring:			7.2	Bank Erosion:	Low	143.5650024
5.4	Straightening Length:	903.71002			Bank Height:	Low	4.000
	Straightening Data:						

Reach: R09.S1.02				<u>Step</u>	<u>Description</u>	<u>Value</u>	
<u>Step</u>	<u>Description</u>	<u>Value</u>		5.5	Dredging History:	None	
3.1	Alluvial Fan:	None		6.1	Berms & Roads Data:		
3.2	Grade Control:	Waterfall				<u>One Side</u>	<u>Both Sides</u>
4.3	Buffer Less Than 25 ft	<u>Left</u>	<u>Right</u>		Berms & Roads:	3336.2000	0.0000
		901	1942		Berm:		
5.1	Flow Regulation - Type:	None			Path:		
	Use:				Road:		
5.2	# of Bridges or Culverts:	3			Railroad:		
	Total Length:	518.240		6.2	Corridor Development Data:		
5.3	Armoring Length	<u>Left</u>	<u>Right</u>		Length:	284.2800	135.4500
		222.259	0.00000	6.4	Miander Migration:	None	
		99				<u>Old</u>	<u>New</u>
	Data Armoring:			7.2	Bank Erosion:	Low	315.5100098
5.4	Straightening Length:	804.15997			Bank Height:	Low	4.000
	Straightening Data:						



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Reach: R09.S1.03				<u>Step</u>	<u>Description</u>	<u>Value</u>
<u>Step</u>	<u>Description</u>	<u>Value</u>		5.5	Dredging History:	None
3.1	Alluvial Fan:	None		6.1	Berms & Roads Data:	None
3.2	Grade Control:	None			<u>One Side</u>	<u>Both Sides</u>
4.3	Buffer Less Than 25 ft	<u>Left</u>	<u>Right</u>	Berms & Roads:	0.0000	0.0000
		0	546	Berm:		
5.1	Flow Regulation - Type:	None		Path:		
	Use:			Road:		
5.2	# of Bridges or Culverts:	0		Railroad:		
	Total Length:	0.000		6.2	Corridor Development Data:	None
5.3	Armoring Length	<u>Left</u>	<u>Right</u>	Length:	0.0000	0.0000
		0.00000	0.00000	6.4	Miander Migration:	None
	Data Armoring:	None			<u>Old</u>	<u>New</u>
5.4	Straightening Length:	1174.10999		7.2	Bank Erosion:	None
	Straightening Data:			Bank Height:	N.D.	

Reach: R09.S1.04				<u>Step</u>	<u>Description</u>	<u>Value</u>
<u>Step</u>	<u>Description</u>	<u>Value</u>		5.5	Dredging History:	None
3.1	Alluvial Fan:	None		6.1	Berms & Roads Data:	
3.2	Grade Control:	None			<u>One Side</u>	<u>Both Sides</u>
4.3	Buffer Less Than 25 ft	<u>Left</u>	<u>Right</u>	Berms & Roads:	0.0000	0.0000
		0	167	Berm:		
5.1	Flow Regulation - Type:	None		Path:		
	Use:			Road:		
5.2	# of Bridges or Culverts:	1		Railroad:		
	Total Length:	66.320		6.2	Corridor Development Data:	
5.3	Armoring Length	<u>Left</u>	<u>Right</u>	Length:	0.0000	0.0000
		0.00000	0.00000	6.4	Miander Migration:	Not Evaluated
	Data Armoring:	None			<u>Old</u>	<u>New</u>
5.4	Straightening Length:	0.00000		7.2	Bank Erosion:	None
	Straightening Data:	None		Bank Height:	N.D.	



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Reach: R09.S1.04-S1.01				<u>Step</u>	<u>Description</u>	<u>Value</u>
<u>Step</u>	<u>Description</u>	<u>Value</u>		5.5	Dredging History:	
3.1	Alluvial Fan:			6.1	Berms & Roads Data:	
3.2	Grade Control:				<u>One Side</u>	<u>Both Sides</u>
4.3	Buffer Less Than 25 ft	<u>Left</u>	<u>Right</u>		Berms & Roads:	
5.1	Flow Regulation - Type:				Berm:	
	Use:				Path:	
5.2	# of Bridges or Culverts:				Road:	
	Total Length:				Railroad:	
5.3	Armoring Length	<u>Left</u>	<u>Right</u>	6.2	Corridor Development Data:	
	Data Armoring:				Length:	
5.4	Straightening Length:			6.4	Miander Migration:	
	Straightening Data:				<u>Old</u>	<u>New</u>
				7.2	Bank Erosion:	
					Bank Height:	

Reach: R09.S1.05				<u>Step</u>	<u>Description</u>	<u>Value</u>
<u>Step</u>	<u>Description</u>	<u>Value</u>		5.5	Dredging History:	None
3.1	Alluvial Fan:	Yes		6.1	Berms & Roads Data:	
3.2	Grade Control:	None			<u>One Side</u>	<u>Both Sides</u>
4.3	Buffer Less Than 25 ft	<u>Left</u>	<u>Right</u>		Berms & Roads:	311.0600
		0	173		Berm:	0.0000
5.1	Flow Regulation - Type:	None			Path:	
	Use:				Road:	
5.2	# of Bridges or Culverts:	0			Railroad:	
	Total Length:	0.000		6.2	Corridor Development Data:	
5.3	Armoring Length	<u>Left</u>	<u>Right</u>		Length:	0.0000
		0.00000	0.00000	6.4	Miander Migration:	Not Evaluated
	Data Armoring:	None			<u>Old</u>	<u>New</u>
5.4	Straightening Length:	0.00000		7.2	Bank Erosion:	None
	Straightening Data:	None			Bank Height:	N.D.



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Reach: R09.S1.03-S1.01				<u>Step</u>	<u>Description</u>	<u>Value</u>
<u>Step</u>	<u>Description</u>	<u>Value</u>		5.5	Dredging History:	
3.1	Alluvial Fan:			6.1	Berms & Roads Data:	
3.2	Grade Control:				<u>One Side</u>	<u>Both Sides</u>
4.3	Buffer Less Than 25 ft	<u>Left</u>	<u>Right</u>		Berms & Roads:	
					Berm:	
5.1	Flow Regulation - Type:				Path:	
	Use:				Road:	
5.2	# of Bridges or Culverts:				Railroad:	
	Total Length:			6.2	Corridor Development Data:	
5.3	Armoring Length	<u>Left</u>	<u>Right</u>		Length:	
	Data Armoring:			6.4	Miander Migration:	
5.4	Straightening Length:				<u>Old</u>	<u>New</u>
	Straightening Data:			7.2	Bank Erosion:	
					Bank Height:	

Reach: R09.S1.03-S1.01-S1.01				<u>Step</u>	<u>Description</u>	<u>Value</u>
<u>Step</u>	<u>Description</u>	<u>Value</u>		5.5	Dredging History:	
3.1	Alluvial Fan:			6.1	Berms & Roads Data:	
3.2	Grade Control:				<u>One Side</u>	<u>Both Sides</u>
4.3	Buffer Less Than 25 ft	<u>Left</u>	<u>Right</u>		Berms & Roads:	
					Berm:	
5.1	Flow Regulation - Type:				Path:	
	Use:				Road:	
5.2	# of Bridges or Culverts:				Railroad:	
	Total Length:			6.2	Corridor Development Data:	
5.3	Armoring Length	<u>Left</u>	<u>Right</u>		Length:	
	Data Armoring:			6.4	Miander Migration:	
5.4	Straightening Length:				<u>Old</u>	<u>New</u>
	Straightening Data:			7.2	Bank Erosion:	
					Bank Height:	



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Reach: R09.S1.03-S1.02				<u>Step</u>	<u>Description</u>	<u>Value</u>
<u>Step</u>	<u>Description</u>	<u>Value</u>		5.5	Dredging History:	
3.1	Alluvial Fan:			6.1	Berms & Roads Data:	
3.2	Grade Control:				<u>One Side</u>	<u>Both Sides</u>
4.3	Buffer Less Than 25 ft	<u>Left</u>	<u>Right</u>		Berms & Roads:	
					Berm:	
5.1	Flow Regulation - Type:				Path:	
	Use:				Road:	
5.2	# of Bridges or Culverts:				Railroad:	
	Total Length:			6.2	Corridor Development Data:	
5.3	Armoring Length	<u>Left</u>	<u>Right</u>		Length:	
	Data Armoring:			6.4	Miander Migration:	
5.4	Straightening Length:				<u>Old</u>	<u>New</u>
	Straightening Data:			7.2	Bank Erosion:	
					Bank Height:	

Reach: R09.S1.03-S1.03				<u>Step</u>	<u>Description</u>	<u>Value</u>
<u>Step</u>	<u>Description</u>	<u>Value</u>		5.5	Dredging History:	
3.1	Alluvial Fan:			6.1	Berms & Roads Data:	
3.2	Grade Control:				<u>One Side</u>	<u>Both Sides</u>
4.3	Buffer Less Than 25 ft	<u>Left</u>	<u>Right</u>		Berms & Roads:	
					Berm:	
5.1	Flow Regulation - Type:				Path:	
	Use:				Road:	
5.2	# of Bridges or Culverts:				Railroad:	
	Total Length:			6.2	Corridor Development Data:	
5.3	Armoring Length	<u>Left</u>	<u>Right</u>		Length:	
	Data Armoring:			6.4	Miander Migration:	
5.4	Straightening Length:				<u>Old</u>	<u>New</u>
	Straightening Data:			7.2	Bank Erosion:	
					Bank Height:	