

## Appendix A

Belly  
Segment 1

Calibration Flows (cfs)	Low 122.8	Medium NA	High 384.24
Range of simulated Discharges (cfs)	Low 70.58	High 4000	

Water Surface Elevation Model(s)		Initial Calibration Flow	Rmod at 384.24/122.8	Mannings n	WSL Error at	
					Initial Calibration Flow	WSL Error at 384.24
Transect 1	WSP	122.80	0.09	0.114	0.00	0.00
Transect 2	WSP	122.80	0.09	0.114	0.00	0.05
Transect 3	WSP	122.80	0.09	0.094	0.00	0.08
Transect 4	WSP	122.80	0.09	0.001	0.00	0.15
Transect 5	WSP	384.24	1.05	0.052	0.00	0.00
Transect 6	WSP	384.24	1.05	0.052	0.00	0.00
Transect 7	WSP	384.24	1.05	0.070	0.00	0.00

Velocity Models	Vel Calibration			Vel Calibration		
	Set	Low Q	High Q	Set	Low Q	High Q
Transect 1	122.80	70.58	384.00	384.24	385.000	4000.00
Transect 2	122.80	70.58	384.00	384.24	385.000	4000.00
Transect 3	122.80	70.58	384.00	384.24	385.000	4000.00
Transect 4	122.80	70.58	384.00	384.24	385.000	4000.00
Transect 5	122.80	70.58	384.00	384.24	385.000	4000.00

Transect 6	122.80	70.58	384.00	384.24	385.000	4000.00
Transect 7	122.80	70.58	384.00	384.24	385.000	4000.00

Belly

Segment 2

Calibration Flows (cfs)

Low	Medium	High
52.93	NA	549.43

Range of simulated Discharges (cfs)

Low	High
35.29	4535

Water Surface Elevation Model(s)		Initial Calibration Flow	Beta Coefficient	WSL Error at	
				Initial Calibration Flow	WSL Error at 549.43
Transect 1	StagQ	N/A	N/A	0.00	0.00
Transect 2	StagQ	N/A	N/A	0.00	0.00
Transect 3	StagQ	N/A	N/A	0.00	0.00
Transect 4	StagQ	N/A	N/A	0.00	0.00
Transect 5	StagQ	N/A	N/A	0.00	0.00
Transect 6	StagQ	N/A	N/A	0.00	0.00
Transect 7	StagQ	N/A	N/A	0.00	0.00
Transect 8	Mansq		52.93	0.135	0.00

Velocity Models	Vel Calibration Set			Vel Calibration Set		
	Low Q	High Q		Low Q	High Q	
Transect 1	52.93	35.29		200.00	549.43	
Transect 2	52.93	35.29		200.00	549.43	
Transect 3	52.93	35.29		200.00	549.43	
Transect 4	52.93	35.29		200.00	549.43	

Transect 5	52.93	35.29	200.00	549.43	201.000	4535.00
Transect 6	52.93	35.29	200.00	549.43	201.000	4535.00
Transect 7	52.93	35.29	200.00	549.43	201.000	4535.00
Transect 8	52.93	35.29	200.00	549.43	201.000	4535.00

Belly

Segment 4

Calibration Flows (cfs)	Low	Medium	High
	64.93	110	NA

Range of simulated Discharges (cfs)	Low	High
	28.23	6200

Water Surface Elevation Model(s)	Initial Calibration Flow	Rmod at 64.9	Mannings n	WSL Error at Initial Calibration Flow	WSL Error at 384.24
Transect 1	StagQ	NA	NA	0.00	0.00
Transect 2	StagQ	NA	NA	0.00	0.00
Transect 3	StagQ	NA	NA	0.00	0.00
Transect 4	WSP	110.10	1.15	0.00	0.00
Transect 5	WSP	110.10	1.15	0.00	-0.04
Transect 6	WSP	110.10	1.15	0.00	0.04
Transect 7	WSP	110.10	1.15	0.00	0.02

Velocity Models	Vel Calibration Set	Low Q	High Q	Vel Calibration Set	Low Q	High Q
Transect 1	64.93	28.23	110.00	110	111.000	6200.00
Transect 2	64.93	28.23	110.00	110	111.000	6200.00
Transect 3	64.93	28.23	110.00	110	111.000	6200.00

Transect 4	64.93	28.23	110.00	110	111.000	6200.00
Transect 5	64.93	28.23	110.00	110	111.000	6200.00
Transect 6	64.93	28.23	110.00	110	111.000	6200.00
Transect 7	64.93	28.23	110.00	110	111.000	6200.00

Belly

Segment 5

Calibration Flows (cfs)	Low	Medium	High
	66.69	NA	132.68

Range of simulated Discharges (cfs)	Low	High
	28.23	6200

Water Surface Elevation Model(s)	Initial Calibration Flow	Rmod at 132.7/66.69	Mannings n	WSL Error at Initial Calibration Flow	WSL Error at 66.69	
Transect 1	WSP	66.69	0.92	0.065	0.00	0.00
Transect 2	WSP	66.69	0.92	0.065	0.00	0.02
Transect 3	WSP	66.69	0.92	0.046	0.00	-0.02
Transect 4	StagQ	NA	NA	NA	0.00	0.00
Transect 5	WSP	132.68	1.05	0.035	0.00	0.00
Transect 6	WSP	132.68	1.05	0.035	0.00	0.03
Transect 7	WSP	132.68	1.05	0.128	0.00	-0.16
Transect 8	StagQ	NA	NA	NA	0.00	0.00

Velocity Models	Vel Calibration Set	Low Q	High Q	Vel Calibration Set	Low Q	High Q
Transect 1	66.69	28.23	132.68	132.68	133.0	6200.0
Transect 2	66.69	28.23	132.68	132.68	133.0	6200.0

Transect 3	66.69	28.23	132.68	132.68	133.0	6200.0
Transect 4	66.69	28.23	132.68	132.68	133.0	6200.0
Transect 5	66.69	28.23	132.68	132.68	133.0	6200.0
Transect 6	66.69	28.23	132.68	132.68	133.0	6200.0
Transect 7	66.69	28.23	132.68	132.68	133.0	6200.0
Transect 8	66.69	28.23	132.68	132.68	133.0	6200.0

Bow

Reach 1

Calibration Flows (cfs)	Low	Medium	Medium	High
	2870.59	4178.08	7527.86	40000

Range of simulated Discharges (cfs)	Low	High
	750	42000

Water Surface Elevation Model(s)		Initial Calibration Flow	Beta Coefficient	WSL Error at Initial Calibration Flow
Transect 1	StagQ	N/A	N/A	0.00
Transect 2	StagQ	N/A	N/A	0.00
Transect 3	StagQ	N/A	N/A	0.00
Transect 4	StagQ	N/A	N/A	0.00
Transect 5	StagQ	N/A	N/A	0.00
Transect 6	StagQ	N/A	N/A	0.00
Transect 7	StagQ	N/A	N/A	0.00

Velocity Models	Vel Calibration Set	Low Q	High Q
Transect 1		4178.08	750 42000

Transect 2	4178.08	750	42000
Transect 3	4178.08	750	42000
Transect 4	4178.08	750	42000
Transect 5	4178.08	750	42000
Transect 6	4178.08	750	42000
Transect 7	4178.08	750	42000

Bow

Reach 2

Calibration Flows (cfs)	Low	Medium	High
	2542.98	5298.41	10258.96

Range of simulated Discharges (cfs)	Low	High
	1000	42000

Water Surface Elevation Model(s)		Initial Calibration Flow	Rmod at 5298.4	Rmod at 10259.0	Mannings n	WSL Error at		
						Initial Calibration Flow	WSL Error at 5298.4	WSL Error at 10259
Transect 1	WSP	2542.98	0.45	0.35	0.049	0.00	0.00	0.00
Transect 2	WSP	2542.98	0.45	0.35	0.049	0.00	-0.02	0.05
Transect 3	StagQ	NA	StagQ	NA	StagQ	0.00	NA	NA
Transect 4	StagQ	NA	StagQ	NA	StagQ	0.00	NA	NA
Transect 5	StagQ	NA	StagQ	NA	StagQ	0.00	NA	NA
Transect 6	StagQ	NA	StagQ	NA	StagQ	0.00	NA	NA

Velocity Models	Vel Calibration Set	Low Q		High Q	
		Low Q	High Q	Low Q	High Q
Transect 1	2542.98	1000	4400.00	5298.41	44401.000 42000.00

Transect 2	2542.98	1000	4400.00	5298.41	44401.000	42000.00
Transect 3	2542.98	1000	4400.00	5298.41	44401.000	42000.00
Transect 4	2542.98	1000	4400.00	5298.41	44401.000	42000.00
Transect 5	2542.98	1000	4400.00	5298.41	44401.000	42000.00
Transect 6	2542.98	1000	4400.00	5298.41	44401.000	42000.00
Transect 7	2542.98	1000	4400.00	5298.41	44401.000	42000.00

Bow

Reach 3

Calibration Flows (cfs)

Low	Medium	Medium	High
2802.65	3971.03	5467.35	7717.29

Range of simulated Discharges (cfs)

Low	High
500	20000

Water Surface Elevation Model(s)

	Initial Calibration Flow	Beta Coefficient	WSL Error at Initial Calibration Flow
Transect 1	StagQ	N/A	0.00
Transect 2	StagQ	N/A	0.00
Transect 3	StagQ	N/A	0.00
Transect 4	StagQ	N/A	0.00
Transect 5	StagQ	N/A	0.00

Velocity Models

	Vel Calibration Set	Low Q	High Q	Vel Calibration Set	Low Q	High Q
Transect 1	3971.03	500	20000	NA	NA	NA
Transect 2	2802.65	500	3400.00	3971.03	3401.000	20000.00
Transect 3	2802.65	500	3400.00	3971.03	3401.000	20000.00

Transect 4	2802.65	500	3400.00	3971.03	3401.000	20000.00
Transect 5	2802.65	500	3400.00	3971.03	3401.000	20000.00

Waterton  
Reach 2

Calibration Flows (cfs)	Low	Medium	High
	52.93	NA	490.85

Range of simulated Discharges (cfs)	Low	High
	21.17	4000

Water Surface Elevation Model(s)		Initial Calibration Flow	Rmod at 52.93	Mannings n	WSL Error	
					at Initial Calibration Flow	WSL Error at 52.93
Transect 1	WSP	490.85	1.35	0.037	0.00	0.00
Transect 2	WSP	490.85	1.35	0.037	0.00	-0.02
Transect 3	WSP	490.85	1.35	0.028	0.00	-0.04
Transect 4	WSP	490.85	1.35	0.030	0.00	-0.06
Transect 5	WSP	490.85	1.35	0.031	0.00	-0.06
Transect 6	WSP	490.85	1.35	0.012	0.00	-0.06
Transect 7	WSP	490.85	1.35	0.030	0.00	-0.07
Transect 8	WSP	490.85	1.35	0.001	-0.01	-0.07
Transect 9	WSP	490.85	1.35	0.056	0.00	-0.09
Transect 10	WSP	490.85	1.35	0.015	0.00	-0.02
Transect 11	WSP	490.85	1.35	0.061	0.00	0.06
Transect 12	WSP	490.85	1.35	0.067	0.00	0.12



Velocity Models	Vel Calibration Set	Low Q	High Q	Vel Calibration Set	Low Q	High Q
Transect 1	52.93	21.17	200.00	490.85	201.000	5000.00
Transect 2	52.93	21.17	200.00	490.85	201.000	5000.00
Transect 3	52.93	21.17	200.00	490.85	201.000	5000.00
Transect 4	52.93	21.17	200.00	490.85	201.000	5000.00
Transect 5	52.93	21.17	200.00	490.85	201.000	5000.00
Transect 6	52.93	21.17	200.00	490.85	201.000	5000.00
Transect 7	52.93	21.17	200.00	490.85	201.000	5000.00
Transect 8	52.93	21.17	200.00	490.85	201.000	5000.00
Transect 9	52.93	21.17	200.00	490.85	201.000	5000.00
Transect 10	52.93	21.17	200.00	490.85	201.000	5000.00
Transect 11	52.93	21.17	200.00	490.85	201.000	5000.00
Transect 12	52.93	21.17	200.00	490.85	201.000	5000.00

Oldman  
Reach1

Calibration Flows (cfs)	Low	Medium	High
	372.28	1196.95	2165.95
Range of simulated Discharges (cfs)	Low	High	
	141.15	63000	(This is high but required for Project Operations)

Water Surface Elevation Model(s)	Initial Calibration Flow	Beta Coefficient	WSL Error at Initial Calibration Flow
Transect 1	StagQ	N/A	0.00
Transect 2	StagQ	N/A	0.00

Transect 3	StagQ	N/A	N/A	0.00
Transect 4	StagQ	N/A	N/A	0.00
Transect 5	StagQ	N/A	N/A	0.00
Transect 6	StagQ	N/A	N/A	0.00
Transect 7	StagQ	N/A	N/A	0.00

Velocity Models	Vel Calibration Set	Low Q	High Q	Vel Calibration Set	Low Q	High Q	Vel Calibration Set	Low Q	High Q
Transect 1	372.28	141.15	1150.00	1196.95	1151.00	2165.00	2165.95	2166.00	63000.00
Transect 2	372.28	141.15	1150.00	1196.95	1151.00	2165.00	2165.95	2166.00	63000.00
Transect 3	372.28	141.15	1150.00	1196.95	1151.00	2165.00	2165.95	2166.00	63000.00
Transect 4	372.28	141.15	1150.00	1196.95	1151.00	2165.00	2165.95	2166.00	63000.00
Transect 5	372.28	141.15	1150.00	1196.95	1151.00	2165.00	2165.95	2166.00	63000.00

Oldman

Reach 2

Calibration Flows (cfs)	Low	Medium	High
	214.9	398.75	1419.97

Range of simulated Discharges (cfs)	Low	High
	141.15	6000

Water Surface Elevation Model(s)		Initial Calibration Flow	Rmod at 214.9	Rmod at 398.8	Mannings n	Flow	WSL Error at Initial Calibration	WSL Error at 214.9	WSL Error at 398.8
Transect 1	WSP	1419.97	1.66	1.65	0.035	0.00	0.00	0.00	0.00
Transect 2	WSP	1419.97	1.66	1.65	0.035	0.01	0.01	0.01	0.00

Transect 3	WSP	1419.97	1.40	1.38	0.048	0.00	0.00	0.00
Transect 4	WSP	1419.97	1.40	1.38	0.048	0.00	0.12	0.08
Transect 5	WSP	1419.97	1.40	1.38	0.029	0.00	-0.13	0.00
Transect 6	WSP	1419.97	1.03	1.02	0.025	0.00	0.00	0.00
Transect 7	WSP	1419.97	1.03	1.02	0.025	-0.01	-0.04	0.00

Velocity Models	Vel Calibration Set	Low Q	High Q	Vel Calibration Set	Low Q	High Q	Vel Calibration Set	Low Q	High Q
	Transect 1	214.9	141.15	398.00	398.75	399.000	1419.00	1419.97	1420.000
Transect 2	214.9	141.15	398.00	398.75	399.000	1419.00	1419.97	1420.000	6000.00
Transect 3	214.9	141.15	398.00	398.75	399.000	1419.00	1419.97	1420.000	6000.00
Transect 4	214.9	141.15	398.00	398.75	399.000	1419.00	1419.97	1420.000	6000.00
Transect 5	214.9	141.15	398.00	398.75	399.000	1419.00	1419.97	1420.000	6000.00
Transect 6	214.9	141.15	398.00	398.75	399.000	1419.00	1419.97	1420.000	6000.00
Transect 7	214.9	141.15	398.00	398.75	399.000	1419.00	1419.97	1420.000	6000.00

Oldman  
Reach 3

Calibration Flows (cfs)	Low	Medium	High
	338.76	NA	995.81

Range of simulated Discharges (cfs)	Low	High
	141.15	15000

Water Surface Elevation Model(s)	Initial Calibration Flow	Rmod at 338.8	Rmod at 398.8	Mannings n	WSL Error at Initial Calibration	WSL Error at 338.8

Transect 1	WSP	995.81	1.01	1.65	0.030	0.00	0.00
Transect 2	WSP	995.81	1.01	1.65	0.030	0.00	0.00
Transect 3	WSP	995.81	1.01	1.38	0.022	0.00	0.00
Transect 4	WSP	995.81	1.01	1.38	0.020	0.00	-0.01
Transect 5	StagQ	NA	NA	NA	NA	NA	NA

Velocity Models	Vel Calibration Set	Low Q	High Q	Vel Calibration Set	Low Q	High Q
	Transect 1	141.15	141.15	995.00	995.81	996.000
Transect 2	141.15	141.15	995.00	995.81	996.000	15000.00
Transect 3	141.15	141.15	995.00	995.81	996.000	15000.00
Transect 4	141.15	141.15	995.00	995.81	996.000	15000.00
Transect 5	141.15	141.15	995.00	995.81	996.000	15000.00

Oldman

Reach 4

Calibration Flows (cfs)	Low	Medium	High
	196.55	NA	938.65

Range of simulated Discharges (cfs)	Low	High
	105.86	9000

Water Surface Elevation Model(s)		Initial Calibration Flow	Rmod at 196.6	Rmod at 398.8	Mannings n Flow	WSL Error at Initial Calibration	WSL Error at 196.6
		Transect 1	StagQ	NA	NA	NA	NA
Transect 2	StagQ	NA	NA	NA	NA	NA	NA

Transect 3	WSP	938.65	1.49	1.38	0.023	0.00	0.00
Transect 4	WSP	938.65	1.49	1.38	0.023	0.00	-0.03
Transect 5	WSP	938.65	1.49	1.38	0.024	0.00	0.04
Transect 6	WSP	938.65	1.49	1.38	0.034	0.01	0.02
Transect 7	WSP	938.65	1.01	1.89	0.020	0.00	0.00
Transect 8	WSP	938.65	1.01	1.89	0.020	-0.01	0.00

Velocity Models	Vel			Vel		
	Calibration Set	Low Q	High Q	Calibration Set	Low Q	High Q
Transect 1	196.55	105.86	400.00	938.65	401.000	9000.00
Transect 2	196.55	105.86	400.00	938.65	401.000	9000.00
Transect 3	196.55	105.86	400.00	938.65	401.000	9000.00
Transect 4	196.55	105.86	400.00	938.65	401.000	9000.00
Transect 5	196.55	105.86	400.00	938.65	401.000	9000.00
Transect 6	196.55	105.86	400.00	938.65	401.000	9000.00
Transect 7	196.55	105.86	400.00	938.65	401.000	9000.00
Transect 8	196.55	105.86	400.00	938.65	401.000	9000.00

Oldman

Reach 5

Calibration Flows (cfs)	Low	Medium	High
	277.36	735.75	1088.97

Range of simulated Discharges (cfs)	Low	High
	141.15	9000

Water Surface Elevation Model(s)		Initial Calibration		Rmod at 277.4	Rmod at 398.8	Mannings n	WSL Error at Initial Calibration		WSL Error at 277.36	WSL Error at 735.75
		Flow	Beta				at 277.36	at 735.75		
Transect 1	MANSQ	High Flow	0.06	NA	NA	NA	NA	0.09	0.09	
Transect 2	MANSQ	High Flow	0.3	NA	NA	NA	NA	0.00	0.07	
Transect 3	StagQ	NA	NA	NA	NA	NA	NA	NA	NA	
Transect 4	WSP	1088.97	NA	1.60	1.01	0.019	0.00	0.00	0.00	
Transect 5	WSP	1088.97	NA	1.60	1.01	0.019	0.00	-0.04	-0.02	
Transect 6	WSP	1088.97	NA	1.60	1.01	0.055	0.05	0.04	0.04	

Velocity Models	Vel Calibration Set	Vel Calibration		Vel Calibration Set	Vel Calibration		Vel Calibration Set	Vel Calibration	
		Low Q	High Q		Low Q	High Q		Low Q	High Q
Transect 1	277.36	141.15	400.00	735.75	401.000	1088.00	1088.97	1089.000	9000.00
Transect 2	277.36	141.15	400.00	735.75	401.000	1088.00	1088.97	1089.000	9000.00
Transect 3	277.36	141.15	400.00	735.75	401.000	1088.00	1088.97	1089.000	9000.00
Transect 4	277.36	141.15	400.00	735.75	401.000	1088.00	1088.97	1089.000	9000.00
Transect 5	277.36	141.15	400.00	735.75	401.000	1088.00	1088.97	1089.000	9000.00
Transect 6	277.36	141.15	400.00	735.75	401.000	1088.00	1088.97	1089.000	9000.00

Oldman

Reach 6

Calibration Flows (cfs)

Low	Medium	High
252.66	739.27	1268.94

Range of simulated Discharges (cfs)

Low	High
141.15	28000

Water Surface Elevation Model(s)		Initial Calibration Flow
Transect 1	StagQ	NA
Transect 2	StagQ	NA
Transect 3	StagQ	NA
Transect 4	StagQ	NA
Transect 5	StagQ	NA
Transect 6	StagQ	NA

Velocity Models	Vel Calibration Set	Low Q	High Q	Vel Calibration Set	Low Q	High Q	Vel Calibration Set	Low Q	High Q
Transect 1	252.66	141.15	400.00	739.27	401.000	1268.00	1268.94	1269.000	28000
Transect 2	252.66	141.15	400.00	739.27	401.000	1268.00	1088.97	1269.000	28000
Transect 3	252.66	141.15	400.00	739.27	401.000	1268.00	1088.97	1269.000	28000
Transect 4	252.66	141.15	400.00	739.27	401.000	1268.00	1088.97	1269.000	28000
Transect 5	252.66	141.15	400.00	739.27	401.000	1268.00	1088.97	1269.000	28000
Transect 6	252.66	141.15	400.00	739.27	401.000	1268.00	1088.97	1269.000	28000

Red Deer

Reach 1

Calibration Flows (cfs)	Low	Medium	High
	1223	3906.3	9492

Range of simulated Discharges (cfs)	Low	High
	150	10000

Water Surface Elevation Model(s)		Initial Calibration Flow	Rmod at 1223	Rmod at 3906.3	Mannings n	WSL Error		
						at Initial Calibration Flow	WSL Error at 1223	WSL Error at 3906.3
Transect 1	WSP	9492	2.02	1.01	0.050	0.00	0.00	0.00
Transect 2	WSP	9492	2.02	1.01	0.050	0.00	0.00	-0.03
Transect 3	WSP	9492	1.22	1.20	0.038	0.00	0.08	0.00
Transect 4	WSP	9492	1.22	1.20	0.038	0.00	-0.01	-0.02
Transect 5	WSP	9492	1.22	1.20	0.024	0.00	-0.03	0.03

Velocity Models	Vel Calibration Set	Vel Calibration		Vel Calibration		
		Low Q	High Q	Set	Low Q	High Q
Transect 1	1223	150	1823.00	3906.3	1824.000	10000
Transect 2	1223	150	1823.00	3906.3	1824.000	10000
Transect 3	1223	150	1823.00	3906.3	1824.000	10000
Transect 4	1223	150	1823.00	3906.3	1824.000	10000
Transect 5	1223	150	1823.00	3906.3	1824.000	10000

Red Deer Reach 2			
Calibration Flows (cfs)	Low	Medium	High
	719.07	3490.03	9814

Range of simulated Discharges (cfs)	Low	High
	100	17000



Water Surface Elevation Model(s)		Initial Calibration Flow
Transect 1	StagQ	NA
Transect 2	StagQ	NA
Transect 3	StagQ	NA
Transect 4	StagQ	NA
Transect 5	StagQ	NA

Velocity Models	Vel Calibration Set	Low Q	High Q	Vel Calibration Set	Low Q	High Q
Transect 1	719.07	100	3490.00	3906.3	3490.03	17000
Transect 2	719.07	100	3490.00	3906.3	3490.03	17000
Transect 3	719.07	100	3490.00	3906.3	3490.03	17000
Transect 4	719.07	100	3490.00	3906.3	3490.03	17000
Transect 5	719.07	100	3490.00	3906.3	3490.03	17000

Red Deer

Reach 3

Calibration Flows (cfs)	Low	Medium	High
	684.23	3446.1	10374

Range of simulated Discharges (cfs)	Low	High
	150	14000

Water Surface Elevation Model(s)		Initial Calibration Flow
Transect 1	StagQ	NA

Transect 2	StagQ	NA
Transect 3	StagQ	NA
Transect 4	StagQ	NA

Velocity Models	Vel Calibration Set	Low Q	High Q	Vel Calibration Set	Low Q	High Q
Transect 1	684.23	100	3446.00	3446.1	3447	14000
Transect 2	684.23	100	3446.00	3446.1	3447	14000
Transect 3	684.23	100	3446.00	3446.1	3447	14000
Transect 4	684.23	100	3446.00	3446.1	3447	14000

Red Deer

Reach 4

Calibration Flows (cfs)	Low	Medium	High
	671.54	2497.56	6859.5

Range of simulated Discharges (cfs)	Low	High
	150	9000

Water Surface Elevation Model(s)		Initial Calibration Flow
Transect 1	StagQ	NA
Transect 2	StagQ	NA
Transect 3	StagQ	NA
Transect 4	StagQ	NA
Transect 5	StagQ	NA
Transect 6	StagQ	NA

Velocity Models	Vel Calibration Set	Low Q	High Q	Vel Calibration Set	Low Q	High Q
Transect 1	671.54	100	2497.00	2497.56	2498	9000
Transect 2	671.54	100	2497.00	2497.56	2498	9000
Transect 3	671.54	100	2497.00	2497.56	2498	9000
Transect 4	671.54	100	2497.00	2497.56	2498	9000
Transect 5	671.54	100	2497.00	2497.56	2498	9000
Transect 6	671.54	100	2497.00	2497.56	2498	9000

St. Marys

Reach 1

Calibration Flows (cfs)	Low	Medium	High
	113.27	NA	1524.42

Range of simulated Discharges (cfs)	Low	High
	42.35	14500

Water Surface Elevation Model(s)	Initial Calibration Flow	Rmod at 113.27	Mannings n	WSL Error	
				at Initial Calibration	WSL Error at 113.27
Transect 1	WSP	1524.42	1.67	0.027	0.00
Transect 2	WSP	1524.42	1.67	0.027	0.00
Transect 3	WSP	1524.42	1.67	0.026	0.00
Transect 4	WSP	1524.42	1.67	0.037	0.00
Transect 5	WSP	1524.42	1.67	0.023	0.00
Transect 6	WSP	1524.42	1.67	0.026	0.00
Transect 7	WSP	1524.42	1.67	0.027	0.00

Transect 8	WSP	1524.42	1.67	0.018	0.00	0.05
Transect 9	WSP	1524.42	1.67	0.046	0.00	-0.11
Transect 10	WSP	1524.42	1.67	0.037	-0.01	-0.03

Velocity Models	Vel Calibration Set	Low Q	High Q	Vel Calibration Set	Low Q	High Q
Transect 1	113.27	42.35	500.00	1524.42	501.000	14500.00
Transect 2	113.27	42.35	500.00	1524.42	501.000	14500.00
Transect 3	113.27	42.35	500.00	1524.42	501.000	14500.00
Transect 4	113.27	42.35	500.00	1524.42	501.000	14500.00
Transect 5	113.27	42.35	500.00	1524.42	501.000	14500.00
Transect 6	113.27	42.35	500.00	1524.42	501.000	14500.00
Transect 7	113.27	42.35	500.00	1524.42	501.000	14500.00
Transect 8	113.27	42.35	500.00	1524.42	501.000	14500.00
Transect 9	113.27	42.35	500.00	1524.42	501.000	14500.00
Transect 10	113.27	42.35	500.00	1524.42	501.000	14500.00

St. Marys  
Reach 3

Calibration Flows (cfs)	Low	Medium	High
	79.75	227.96	NA

Range of simulated Discharges (cfs)	Low	High
	35.29	9000

Water Surface Elevation Model(s)	Initial Calibration Flow	Rmod at 79.75	Mannings n	WSL Error at Initial Calibration Flow	WSL Error at 79.75
Transect 1	WSP	227.96	1.36	0.045	0.00

Transect 2	WSP	227.96	1.36	0.045	0.00	-0.05
Transect 3	WSP	227.96	1.36	0.043	0.00	-0.06
Transect 4	WSP	227.96	1.36	0.053	0.00	-0.07
Transect 5	WSP	227.96	1.36	0.103	0.00	-0.09
Transect 6	WSP	227.96	1.36	0.066	0.00	0.04
Transect 7	WSP	227.96	1.36	0.151	0.00	-0.06
Transect 8	WSP	227.96	1.36	0.080	0.00	0.07
Transect 9	WSP	227.96	1.36	0.038	0.00	0.01
Transect 10	WSP	227.96	1.36	0.045	0.00	0.09
Transect 11	WSP	227.96	1.36	0.056	0.00	0.02

Velocity Models	Vel Calibration			Vel Calibration		
	Set	Low Q	High Q	Set	Low Q	High Q
Transect 1	79.75	35.29	227.00	227.96	228.000	9000.00
Transect 2	79.75	35.29	227.00	227.96	228.000	9000.00
Transect 3	79.75	35.29	227.00	227.96	228.000	9000.00
Transect 4	79.75	35.29	227.00	227.96	228.000	9000.00
Transect 5	79.75	35.29	227.00	227.96	228.000	9000.00
Transect 6	79.75	35.29	227.00	227.96	228.000	9000.00
Transect 7	79.75	35.29	227.00	227.96	228.000	9000.00
Transect 8	79.75	35.29	227.00	227.96	228.000	9000.00
Transect 9	79.75	35.29	227.00	227.96	228.000	9000.00
Transect 10	79.75	35.29	227.00	227.96	228.000	9000.00
Transect 11	79.75	35.29	227.00	227.96	228.000	9000.00