

APPENDIX A. HIGH-WATER SHORELINE POSITION CHANGE

The following data tables provide shoreline position (UTM-x, UTM-y) and change statistics for the entire Gulf coast of Alabama at a 50-m longshore spacing. Transect 1 is located at the very western end of Dauphin Island as the island was mapped in 1981/82. Cumulative and incremental change rates are provided on the left half of the table, and shoreline position for each transect is listed on the right side of the table. All length measurements are recorded in meters.

Transect #	High-Water Shoreline Position Change Rate									Transect #	High-Water Shoreline Position (UTM Zone 16, NAD 1983)										
	1847/67 to 1917/18 (m/yr)	1847/67 to 1934 (m/yr)	1847/67 to 1957 (m/yr)	1847/67 to 1978/82 (m/yr)	1917/18 to 1934 (m/yr)	1917/18 to 1957 (m/yr)	1917/18 to 1978/82 (m/yr)	1934 to 1957 (m/yr)	1934 to 1978/82 (m/yr)		1957 to 1978/82 (m/yr)	UTM-x (m)	1847/67 UTM-y (m)	1917/18 UTM-x (m)	1917/18 UTM-y (m)	1934 UTM-x (m)	1934 UTM-y (m)	1957 UTM-x (m)	1957 UTM-y (m)	1978/82 UTM-x (m)	1978/82 UTM-y (m)
Start											Start										
1											1								372386.3	3344648.0	
2											2								372437.2	3344642.0	
3											3								372487.5	3344641.0	
4											4								372537.6	3344643.0	
5											5								372587.8	3344644.0	
6											6								372637.4	3344650.0	
7											7								372687.2	3344654.0	
8											8								372737.6	3344652.0	
9											9								372788.6	3344645.0	
10											10								372839.9	3344635.0	
11											11								372890.3	3344633.0	
12											12								372940.2	3344637.0	
13											13								372990.1	3344640.0	
14											14								373040.1	3344642.0	
15											15								373090.3	3344643.0	
16											16								373140.7	3344642.0	
17											17								373191.0	3344641.0	
18											18								373241.5	3344638.0	
19											19								373293.2	3344624.0	
20											20						373290.5	3345157.0	373346.2	3344596.0	
21											21						373345.0	3345114.0	373398.1	3344580.0	
22											22						373399.1	3345076.0	373448.4	3344578.0	
23											23						373452.7	3345041.0	373498.3	3344583.0	
24											24						373505.2	3345019.0	373548.0	3344588.0	
25											25						373559.3	3344980.0	373597.4	3344596.0	
26											26						373611.3	3344962.0	373647.1	3344602.0	
27											27						373664.1	3344936.0	373697.2	3344603.0	
28											28						373719.5	3344884.0	373748.8	3344589.0	
29											29						373778.0	3344801.0	373798.4	3344596.0	
30											30						373830.8	3344776.0	373846.7	3344615.0	
31											31						373882.8	3344758.0	373895.7	3344628.0	
32											32						373937.1	3344717.0	373944.9	3344638.0	
33											33						373991.3	3344678.0	373994.3	3344648.0	
34											34						374043.2	3344661.0	374043.5	3344657.0	
35											35						374094.2	3344653.0	374092.8	3344667.0	
36											36						374145.2	3344646.0	374142.5	3344673.0	
37											37						374195.9	3344641.0	374192.3	3344677.0	
38											38						374246.0	3344642.0	374242.7	3344675.0	
39											39						374295.8	3344648.0	374293.1	3344674.0	
40											40						374346.7	3344641.0	374343.0	3344677.0	
41											41						374397.5	3344634.0	374392.9	3344681.0	
42											42						374448.4	3344628.0	374442.8	3344685.0	
43											43						374499.4	3344621.0	374492.3	3344692.0	
44											44						374550.4	3344613.0	374541.8	3344699.0	
45											45						374601.6	3344603.0	374591.4	3344706.0	
46											46						374652.4	3344597.0	374641.4	3344708.0	
47											47						374703.3	3344591.0	374691.4	3344711.0	
48											48						374753.9	3344588.0	374741.4	3344714.0	
49											49						374803.9	3344590.0	374791.1	3344719.0	
50											50						374853.5	3344597.0	374840.9	3344723.0	
51											51						374902.6	3344608.0	374891.4	3344721.0	
52											52						374951.6	3344621.0	374941.8	3344720.0	
53											53						375000.9	3344630.0	374991.8	3344721.0	
54											54						375050.2	3344640.0	375041.7	3344725.0	
55											55						375100.2	3344642.0	375091.0	3344734.0	
56											56						375150.7	3344640.0	375140.8	3344739.0	
57											57						375200.9	3344640.0	375190.6	3344744.0	
58											58						375250.3	3344648.0	375240.4	3344749.0	
59											59						375299.3	3344661.0	375290.3	3344752.0	
60											60						375349.0	3344666.0	375340.2	3344756.0	
61											61						375398.7	3344672.0	375390.2	3344758.0	
62											62						375448.7	3344675.0	375440.3	3344760.0	
63											63						375498.6	3344679.0	375490.0	3344765.0	
64											64						375548.5	3344682.0	375539.8	3344770.0	
65											65						375597.8	3344691.0	375589.5	3344775.0	
66											66						375646.9	3344703.0	375639.3	3344780.0	
67											67						375696.5	3344709.0	375688.2	3344793.0	
68											68						375746.5	3344712.0	375736.8	3344809.0	
69											69						375796.1	3344718.0	375787.0	3344810.0	
70											70						375845.8	3344723.0	375837.3	3344809.0	
71											71						375895.6	3344728.0	375887.6	3344809.0	
72											72						375945.4	3344733.0	375937.9	3344808.0	
73											73						375996.1	3344729.0	375987.9	3344811.0	
74											74						376045.6	3344736.0	376037.2	3344820.0	
75											75						376094.3	3344751.0	376086.4	3344830.0	
																	376143.8	3344759.0	376135.7	3344841.0	

Transect #	High-Water Shoreline Position Change Rate										Transect #	High-Water Shoreline Position (UTM Zone 16, NAD 1983)									
	1847/67 to 1917/18 (m/yr)	1847/67 to 1934 (m/yr)	1847/67 to 1957 (m/yr)	1847/67 to 1978/82 (m/yr)	1917/18 to 1934 (m/yr)	1917/18 to 1957 (m/yr)	1917/18 to 1978/82 (m/yr)	1934 to 1957 (m/yr)	1934 to 1978/82 (m/yr)	1957 to 1978/82 (m/yr)		UTM-x (m)	1847/67 UTM-y (m)	1917/18 UTM-x (m)	1917/18 UTM-y (m)	1934 UTM-x (m)	1934 UTM-y (m)	1957 UTM-x (m)	1957 UTM-y (m)	1978/82 UTM-x (m)	1978/82 UTM-y (m)
76						-0.1	-1.4			-4.0	76			376198.2	3344717.0			376193.4	3344766.0	376184.9	3344851.0
77						-1.2	-2.2			-4.2	77			376242.8	3344700.0			376242.8	3344774.0	376234.2	3344861.0
78						-1.8	-2.7			-4.3	78			376300.8	3344696.0			376292.1	3344783.0	376283.4	3344871.0
79						-2.2	-2.9			-4.3	79			376350.9	3344697.0			376341.3	3344794.0	376332.7	3344880.0
80						-2.4	-3.0			-4.3	80			376400.4	3344704.0			376391.0	3344799.0	376382.0	3344890.0
81						-2.4	-3.1			-4.5	81			376450.3	3344709.0			376440.8	3344804.0	376431.6	3344897.0
82						-2.4	-3.1			-4.6	82			376490.7	3344717.0			376480.5	3344807.0	376480.5	3344910.0
83						-2.2	-3.2			-5.1	83			376549.1	3344725.0			376540.4	3344813.0	376529.3	3344924.0
84						-2.2	-3.3			-5.5	84			376598.5	3344734.0			376590.0	3344819.0	376578.4	3344936.0
85						-2.1	-3.4			-5.8	85			376648.3	3344738.0			376639.1	3344831.0	376628.5	3344937.0
86						-2.3	-3.3			-5.3	86			376698.5	3344739.0			376687.7	3344847.0	376679.3	3344932.0
87						-2.7	-3.2			-4.2	87			376748.6	3344740.0			376737.1	3344856.0	376730.2	3344925.0
88						-2.9	-3.1			-3.4	88			376786.5	3344746.0			376786.5	3344864.0	376780.8	3344922.0
89						-2.9	-2.9			-2.9	89			376847.6	3344755.0			376835.7	3344875.0	376830.5	3344927.0
90						-3.0	-2.9			-2.6	90			376896.9	3344765.0			376885.2	3344883.0	376879.3	3344942.0
91						-2.9	-2.9			-2.9	91			376934.6	3344775.0			376927.5	3344891.0	376927.5	3344962.0
92						-2.9	-3.1			-3.5	92			376995.7	3344782.0			376984.0	3344899.0	376975.7	3344983.0
93						-2.9	-3.3			-4.2	93			377045.2	3344789.0			377033.1	3344911.0	377023.8	3345005.0
94						-3.0	-3.6			-4.7	94			377082.2	3344790.0			377082.2	3344923.0	377072.7	3345018.0
95						-3.3	-3.8			-4.8	95			377144.7	3344799.0			377131.3	3344934.0	377121.7	3345031.0
96						-3.4	-3.8			-4.8	96			377193.7	3344812.0			377180.5	3344945.0	377170.8	3345042.0
97						-3.3	-3.8			-4.8	97			377242.6	3344826.0			377230.0	3344952.0	377220.2	3345051.0
98						-3.1	-3.7			-4.9	98			377292.1	3344833.0			377279.8	3344957.0	377269.7	3345058.0
99						-3.1	-3.7			-5.0	99			377329.5	3344838.0			377329.5	3344963.0	377319.3	3345065.0
100						-3.1	-3.8			-5.1	100			377391.6	3344843.0			377378.8	3344972.0	377368.9	3345072.0
101						-3.2	-3.8			-5.0	101			377441.1	3344851.0			377427.5	3344987.0	377418.4	3345078.0
102						-3.4	-3.8			-4.5	102			377490.7	3344856.0			377476.8	3344997.0	377468.0	3345085.0
103						-3.5	-3.8			-4.4	103			377540.6	3344861.0			377525.7	3345011.0	377517.4	3345094.0
104						-3.7	-3.9			-4.1	104			377590.3	3344866.0			377575.3	3345017.0	377566.6	3345105.0
105						-3.7	-4.0			-4.4	105			377640.4	3344868.0			377625.0	3345023.0	377615.8	3345115.0
106						-3.9	-4.1			-4.6	106			377690.2	3344872.0			377674.3	3345032.0	377665.0	3345126.0
107						-4.0	-4.2			-4.6	107			377739.8	3344879.0			377723.7	3345040.0	377714.2	3345136.0
108						-4.0	-4.3			-4.7	108			377788.8	3344891.0			377773.1	3345049.0	377763.5	3345146.0
109						-3.9	-4.2			-4.8	109			377837.7	3344905.0			377822.4	3345059.0	377812.7	3345157.0
110						-3.8	-4.2			-4.9	110			377886.5	3344919.0			377871.7	3345068.0	377861.8	3345168.0
111						-3.7	-4.1			-5.0	111			377935.3	3344934.0			377921.1	3345077.0	377911.1	3345178.0
112						-3.6	-4.0			-5.0	112			377983.7	3344952.0			377970.0	3345090.0	377960.2	3345189.0
113						-3.4	-3.9			-4.9	113			378032.5	3344966.0			378018.8	3345104.0	378009.2	3345201.0
114						-3.4	-3.9			-4.8	114			378081.5	3344979.0			378067.7	3345118.0	378058.3	3345213.0
115						-3.5	-3.9			-4.7	115			378130.3	3344994.0			378116.8	3345130.0	378107.5	3345223.0
116						-3.4	-3.8			-4.6	116			378179.1	3345008.0			378165.9	3345141.0	378156.9	3345232.0
117						-3.3	-3.7			-4.5	117			378228.0	3345022.0			378215.1	3345151.0	378206.0	3345243.0
118						-3.2	-3.7			-4.5	118			378276.8	3345037.0			378264.5	3345161.0	378255.0	3345256.0
119						-3.1	-3.6			-4.7	119			378325.5	3345052.0			378313.7	3345171.0	378303.8	3345270.0
120						-3.0	-3.6			-4.9	120			378374.7	3345063.0			378362.3	3345187.0	378352.7	3345284.0
121						-3.1	-3.7			-4.8	121			378423.7	3345075.0			378411.4	3345198.0	378401.7	3345297.0
122						-3.1	-3.7			-4.9	122			378472.8	3345086.0			378460.5	3345211.0	378450.8	3345309.0
123						-3.1	-3.7			-4.9	123			378521.5	3345102.0			378509.8	3345220.0	378500.0	3345319.0
124						-2.9	-3.6			-4.9	124			378570.6	3345114.0			378558.9	3345232.0	378549.2	3345329.0
125						-2.9	-3.6			-4.8	125			378619.9	3345123.0			378608.0	3345243.0	378598.4	3345340.0
126						-3.0	-3.6			-4.8	126			378669.4	3345130.0			378657.3	3345253.0	378647.6	3345350.0
127						-3.0	-3.6			-4.8	127			378718.9	3345138.0			378706.7	3345261.0	378696.8	3345361.0
128						-3.1	-3.7			-5.0	128			378768.0	3345150.0			378756.3	3345268.0	378746.0	3345372.0
129						-2.9	-3.7			-5.1	129			378817.0	3345162.0			378805.6	3345277.0	378795.1	3345383.0
130						-2.8	-3.6			-5.2	130			378865.9	3345176.0			378854.7	3345289.0	378844.2	3345394.0
131						-2.8	-3.6			-5.2	131			378914.9	3345189.0			378903.7	3345301.0	378893.3	3345406.0
132						-2.8	-3.6			-5.2	132			378964.4	3345196.0			378952.8	3345313.0	378942.7	3345415.0
133						-2.9	-3.6			-5.0	133			379013.4	3345208.0			379001.9	3345324.0	378992.0	3345424.0
134						-2.9	-3.6			-4.9	134			379062.2	3345223.0			379051.0	3345336.0	379041.3	3345433.0
135						-2.8	-3.5			-4.8	135			379110.7	3345240.0			379100.2	3345347.0	379090.6	3345443.0
136						-2.6	-3.4			-4.8	136			379159.8	3345253.0			379149.5	3345356.0	379139.9	3345452.0
137						-2.6	-3.3			-4.8	137			379208.7	3345266.0			379198.8	3345366.0	379189.2	3345462.0
138						-2.5	-3.2			-4.8	138			379257.2	3345284.0			379247.6	3345380.0	379238.6	3345471.0
139						-2.4	-3.1			-4.5	139			379305.3	3345305.0			379296.7	3345391.0	379287.8	3345481.0
140						-2.2	-2.9			-4.5	140			379353.8	3345323.0			379346.3	3345398.0	379336.8	3345494.0
141						-1.9	-2.8			-4.7	141			379402.6	3345337.0			379395.5	3345409.0	379386.3	3345502.0
142						-1.8	-2.7			-4.6	142			379451.7	3345349.0			379444.8	3345419.0	379435.9	3345508.0
143						-1.7	-2.6			-4.4	143			379500.8	3345360.0			379493.6	3345433.0	379485.2	3345517.0
144						-1.8	-2.6			-4.2	144			379549.7	3345373.0			379542.3	3345448.0	379534.2	3345530.0
145						-1.9	-2.6			-4.1	145			379598.7	3345387.0			379591.4	3345460.0	379583.3	3345542.0

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	1847/67 to	1847/67 to	1847/67 to	1847/67 to	1917/18 to	1917/18 to	1917/18 to	1917/18 to	1934 to	1934 to		1957 to	1847/67		1917/18		1934		1957		1978/82		
	1917/18 (m/yr)	1934 (m/yr)	1957 (m/yr)	1978/82 (m/yr)	1934 (m/yr)	1957 (m/yr)	1978/82 (m/yr)	1978/82 (m/yr)	1957 (m/yr)	1978/82 (m/yr)		1978/82 (m/yr)	UTM-x (m)	UTM-y (m)	UTM-x (m)	UTM-y (m)	UTM-x (m)	UTM-y (m)	UTM-x (m)	UTM-y (m)	UTM-x (m)	UTM-y (m)	UTM-x (m)
152	1.9		0.6	-0.2		-1.8	-2.7				152	379930.7	3345585.0	379943.3	3345458.0			379935.3	3345538.0	379927.1	3345621.0		
153	1.8		0.4	-0.3		-2.0	-2.7				153	379981.6	3345578.0	379992.8	3345466.0			379984.8	3345546.0	379976.9	3345626.0		
154	1.6		0.3	-0.4		-2.0	-2.6				154	380033.6	3345561.0	380042.1	3345475.0			380033.8	3345558.0	380026.3	3345634.0		
155	1.2		0.0	-0.6		-2.1	-2.6				155	380084.3	3345555.0	380091.4	3345484.0			380082.5	3345574.0	380075.3	3345647.0		
156	1.0		-0.2	-0.7		-2.2	-2.7				156	380135.3	3345548.0	380140.4	3345497.0			380131.8	3345584.0	380124.4	3345659.0		
157	0.7		-0.3	-0.8		-2.1	-2.7				157	380186.5	3345538.0	380189.0	3345514.0			380181.2	3345592.0	380173.4	3345671.0		
158	0.3		-0.5	-1.0		-1.9	-2.6				158	380238.1	3345525.0	380237.8	3345529.0			380230.4	3345603.0	380222.0	3345688.0		
159	-0.1		-0.7	-1.3		-1.8	-2.6				159	380289.8	3345511.0	380286.8	3345541.0			380279.8	3345612.0	380270.2	3345708.0		
160	-0.4		-0.9	-1.5		-1.8	-2.8				160	380341.6	3345495.0	380335.9	3345552.0			380328.7	3345625.0	380318.8	3345724.0		
161	-0.8		-1.2	-1.8		-1.8	-2.9				161	380393.7	3345476.0	380385.4	3345560.0			380377.8	3345637.0	380368.0	3345735.0		
162	-1.2		-1.5	-2.0		-1.9	-2.9				162	380444.3	3345473.0	380434.6	3345570.0			380426.6	3345651.0	380417.1	3345746.0		
163	-1.4		-1.6	-2.1		-2.0	-2.9				163	380493.8	3345480.0	380483.3	3345586.0			380475.6	3345663.0	380466.4	3345756.0		
164	-1.5		-1.7	-2.1		-1.9	-2.8				164	380543.0	3345490.0	380532.6	3345595.0			380524.7	3345675.0	380516.0	3345763.0		
165	-1.5		-1.7	-2.1		-2.0	-2.8				165	380592.4	3345499.0	380582.1	3345603.0			380574.0	3345685.0	380565.9	3345766.0		
166	-1.5		-1.7	-2.1		-2.0	-2.7				166	380641.4	3345512.0	380631.8	3345608.0			380623.0	3345697.0	380615.9	3345769.0		
167	-1.4		-1.7	-2.0		-2.2	-2.7				167	380690.3	3345525.0	380681.3	3345616.0			380671.9	3345711.0	380665.7	3345773.0		
168	-1.3		-1.7	-1.9		-2.4	-2.6				168	380739.3	3345538.0	380730.7	3345625.0			380721.1	3345721.0	380714.8	3345784.0		
169	-1.2		-1.7	-1.9		-2.4	-2.6				169	380788.2	3345552.0	380779.8	3345637.0			380770.5	3345729.0	380763.8	3345797.0		
170	-1.2		-1.6	-1.9		-2.3	-2.7				170	380837.1	3345565.0	380828.4	3345652.0			380819.9	3345739.0	380812.4	3345814.0		
171	-1.3		-1.6	-1.9		-2.1	-2.7				171	380886.1	3345577.0	380877.8	3345662.0			380869.0	3345749.0	380860.5	3345836.0		
172	-1.2		-1.6	-2.0		-2.2	-2.9				172	380935.3	3345588.0	380927.6	3345666.0			380918.4	3345758.0	380909.2	3345852.0		
173	-1.1		-1.5	-2.0		-2.3	-3.1				173	380984.6	3345598.0	380977.0	3345674.0			380967.4	3345771.0	380958.8	3345858.0		
174	-1.1		-1.6	-2.0		-2.4	-3.0				174	381034.0	3345606.0	381026.6	3345681.0			381016.5	3345783.0	381008.8	3345860.0		
175	-1.1		-1.6	-2.0		-2.5	-3.0				175	381083.4	3345615.0	381076.1	3345689.0			381065.6	3345794.0	381058.9	3345861.0		
176	-1.1		-1.6	-1.9		-2.6	-2.9				176	381132.7	3345624.0	381125.0	3345702.0			381114.6	3345807.0	381108.5	3345868.0		
177	-1.1		-1.7	-1.9		-2.6	-2.8				177	381182.0	3345633.0	381174.3	3345711.0			381164.0	3345815.0	381157.7	3345878.0		
178	-1.1		-1.7	-1.9		-2.6	-2.8				178	381231.3	3345643.0	381223.5	3345722.0			381213.2	3345826.0	381206.9	3345889.0		
179	-1.1		-1.7	-1.9		-2.6	-2.8				179	381280.5	3345654.0	381272.6	3345733.0			381262.4	3345836.0	381256.0	3345901.0		
180	-1.1		-1.7	-1.9		-2.6	-2.8				180	381329.8	3345664.0	381321.7	3345745.0			381311.7	3345846.0	381304.9	3345914.0		
181	-1.2		-1.7	-1.9		-2.5	-2.8				181	381379.3	3345671.0	381370.7	3345758.0	381364.4	3345821.0	381360.3	3345862.0	381353.6	3345930.0		
182	-1.2	-1.7	-1.7	-2.0	-3.8	-2.6	-2.9	-1.7	-2.5	-3.4	182	381428.8	3345678.0	381419.2	3345775.0	381413.8	3345830.0	381410.1	3345867.0	381402.3	3345945.0		
183	-1.4	-1.7	-1.7	-2.1	-3.3	-2.3	-2.8	-1.6	-2.7	-3.9	183	381478.3	3345686.0	381466.2	3345808.0	381463.2	3345838.0	381459.1	3345879.0	381451.5	3345955.0		
184		-1.8	-1.8	-2.1				-1.8	-2.7	-3.8	184	381527.6	3345695.0			381512.8	3345845.0	381508.0	3345892.0	381500.9	3345964.0		
185		-1.7	-1.8	-2.1				-2.0	-2.8	-3.6	185	381576.9	3345704.0			381562.1	3345854.0	381556.9	3345906.0	381550.3	3345973.0		
186		-1.7	-1.8	-2.1				-2.2	-2.7	-3.3	186	381626.3	3345713.0			381611.3	3345864.0	381605.9	3345918.0	381600.2	3345976.0		
187		-1.7	-1.9	-2.0				-2.3	-2.6	-2.9	187	381675.6	3345723.0			381660.4	3345876.0	381655.4	3345927.0	381650.0	3345981.0		
188		-1.8	-1.8	-2.0				-2.2	-2.4	-2.7	188	381724.8	3345734.0			381709.6	3345887.0	381704.9	3345933.0	381699.6	3345987.0		
189		-1.8	-1.8	-1.9				-2.0	-2.3	-2.7	189	381774.0	3345744.0			381759.2	3345893.0	381754.4	3345942.0	381748.9	3345996.0		
190		-1.7	-1.8	-1.9				-2.1	-2.4	-2.7	190	381823.2	3345754.0			381808.3	3345904.0	381803.3	3345955.0	381798.0	3346008.0		
191		-1.7	-1.8	-2.0				-2.2	-2.4	-2.6	191	381872.3	3345766.0			381857.6	3345914.0	381852.3	3345968.0	381846.9	3346022.0		
192		-1.7	-1.8	-2.0				-2.3	-2.5	-2.7	192	381921.8	3345773.0			381907.0	3345923.0	381901.5	3345978.0	381895.8	3346035.0		
193		-1.7	-1.9	-2.0				-2.4	-2.6	-2.9	193	381971.3	3345781.0			381956.6	3345930.0	381951.1	3345984.0	381944.9	3346047.0		
194		-1.7	-1.9	-2.0				-2.3	-2.7	-3.1	194	382020.6	3345791.0			382004.9	3345949.0	381999.6	3346003.0	381993.7	3346061.0		
195		-1.8	-1.9	-2.1				-2.3	-2.6	-2.9	195	382069.8	3345801.0			382053.2	3345968.0	382049.4	3346007.0	382042.8	3346073.0		
196		-1.9	-1.9	-2.1				-1.6	-2.4	-3.3	196	382119.1	3345811.0			382102.2	3345981.0	382098.2	3346021.0	382092.2	3346082.0		
197		-2.0	-1.9	-2.1				-1.7	-2.3	-3.0	197	382168.3	3345821.0			382151.2	3345994.0	382147.0	3346036.0	382141.5	3346091.0		
198		-2.0	-2.0	-2.1				-1.8	-2.2	-2.7	198	382217.8	3345828.0			382200.4	3346004.0	382196.3	3346045.0	382191.0	3346099.0		
199		-2.0	-2.0	-2.1				-1.8	-2.2	-2.7	199	382267.4	3345835.0			382250.0	3346010.0	382245.6	3346054.0	382240.4	3346107.0		
200		-2.0	-2.0	-2.1				-1.9	-2.2	-2.6	200	382317.0	3345841.0			382299.7	3346016.0	382295.5	3346058.0	382289.5	3346118.0		
201		-2.0	-2.0	-2.1				-1.8	-2.4	-3.0	201	382366.5	3345849.0			382349.2	3346023.0	382344.3	3346073.0	382339.2	3346125.0		
202		-2.0	-2.0	-2.1				-2.1	-2.3	-2.6	202	382416.1	3345856.0			382398.5	3346033.0	382393.3	3346085.0	382388.6	3346133.0		
203		-2.0	-2.1	-2.1				-2.2	-2.3	-2.4	203	382465.8	3345861.0			382447.9	3346042.0	382442.4	3346097.0	382437.9	3346142.0		
204		-2.1	-2.1	-2.2				-2.4	-2.3	-2.2	204	382515.3	3345868.0			382497.1	3346052.0	382491.6	3346107.0	382486.8	3346155.0		
205		-2.1	-2.2	-2.2				-2.4	-2.4	-2.4	205	382564.4	3345880.0			382546.1	3346065.0	382541.9	3346107.0	382536.1	3346166.0		
206		-2.1	-2.1	-2.2				-1.8	-2.3	-2.9	206	382613.8	3345889.0			382594.8	3346080.0	382590.8	3346120.0	382585.4	3346175.0		
207		-2.2	-2.1	-2.2				-1.7	-2.2	-2.7	207	382663.1	3345899.0			382644.0	3346091.0	382640.1	3346130.0	382634.6	3346185.0		
208		-2.2	-2.1	-2.2																			

Transect #	High-Water Shoreline Position Change Rate										Transect #	High-Water Shoreline Position (UTM Zone 16, NAD 1983)									
	1847/67 to 1917/18 (m/yr)	1847/67 to 1934 (m/yr)	1847/67 to 1957 (m/yr)	1847/67 to 1978/82 (m/yr)	1917/18 to 1934 (m/yr)	1917/18 to 1957 (m/yr)	1917/18 to 1978/82 (m/yr)	1934 to 1957 (m/yr)	1934 to 1978/82 (m/yr)	1957 to 1978/82 (m/yr)		UTM-x (m)	1847/67 UTM-y (m)	1917/18 UTM-x (m)	1917/18 UTM-y (m)	1934 UTM-x (m)	1934 UTM-y (m)	1957 UTM-x (m)	1957 UTM-y (m)	1978/82 UTM-x (m)	1978/82 UTM-y (m)
228		-2.5	-2.4	-2.4				-1.8	-2.3	-2.9	228	383703.0	3346052.0			383681.4	3346269.0	383677.1	3346313.0	383671.0	3346375.0
229		-2.5	-2.4	-2.4				-1.9	-2.4	-3.1	229	383752.4	3346060.0			383729.4	3346293.0	383726.1	3346325.0	383720.3	3346384.0
230		-2.7	-2.4	-2.5				-1.4	-2.1	-2.9	230	383801.8	3346069.0			383778.5	3346303.0	383775.6	3346333.0	383769.6	3346393.0
231		-2.7	-2.4	-2.5				-1.3	-2.1	-3.0	231	383851.5	3346074.0			383828.3	3346308.0	383825.2	3346340.0	383819.0	3346402.0
232		-2.7	-2.4	-2.5				-1.4	-2.2	-3.1	232	383901.2	3346080.0			383877.8	3346316.0	383874.7	3346347.0	383868.5	3346409.0
233		-2.7	-2.4	-2.5				-1.3	-2.1	-3.1	233	383950.8	3346086.0			383927.0	3346326.0	383924.3	3346353.0	383918.2	3346415.0
234		-2.8	-2.4	-2.5				-1.2	-2.1	-3.1	234	384000.4	3346093.0			383976.3	3346336.0	383973.5	3346364.0	383967.8	3346422.0
235		-2.8	-2.5	-2.5				-1.2	-2.0	-2.9	235	384049.9	3346100.0			384026.6	3346335.0	384022.8	3346373.0	384017.3	3346429.0
236		-2.7	-2.5	-2.5				-1.6	-2.2	-2.8	236	384099.5	3346107.0			384077.1	3346333.0	384072.3	3346381.0	384066.7	3346438.0
237		-2.6	-2.5	-2.5				-2.0	-2.4	-2.8	237	384149.3	3346112.0			384126.7	3346339.0	384121.8	3346389.0	384116.0	3346447.0
238		-2.6	-2.5	-2.6				-2.1	-2.5	-2.9	238	384198.8	3346119.0			384175.9	3346349.0	384170.9	3346400.0	384165.4	3346455.0
239		-2.7	-2.6	-2.6				-2.2	-2.4	-2.8	239	384248.0	3346130.0			384223.9	3346372.0	384220.2	3346410.0	384215.0	3346462.0
240		-2.8	-2.5	-2.6				-1.6	-2.1	-2.6	240	384297.3	3346140.0			384272.3	3346390.0	384270.0	3346414.0	384264.9	3346466.0
241		-2.9	-2.5	-2.5				-1.0	-1.7	-2.6	241	384346.6	3346149.0			384321.8	3346399.0	384319.7	3346419.0	384314.3	3346474.0
242		-2.9	-2.5	-2.5				-0.9	-1.7	-2.7	242	384396.1	3346157.0			384371.6	3346403.0	384369.4	3346425.0	384363.7	3346483.0
243		-2.8	-2.4	-2.5				-1.0	-1.8	-2.9	243	384445.8	3346162.0			384421.2	3346410.0	384418.9	3346433.0	384413.1	3346492.0
244		-2.9	-2.5	-2.5				-1.0	-1.9	-2.9	244	384495.3	3346169.0			384470.9	3346415.0	384468.4	3346440.0	384462.5	3346500.0
245		-2.8	-2.5	-2.5				-1.1	-2.0	-3.0	245	384545.2	3346173.0			384521.3	3346413.0	384517.8	3346449.0	384512.0	3346507.0
246		-2.8	-2.5	-2.6				-1.5	-2.2	-2.9	246	384595.3	3346174.0			384571.5	3346414.0	384567.0	3346459.0	384561.7	3346513.0
247		-2.8	-2.6	-2.6				-1.9	-2.3	-2.7	247	384645.4	3346176.0			384621.0	3346421.0	384616.4	3346468.0	384611.3	3346519.0
248		-2.8	-2.7	-2.6				-2.0	-2.2	-2.5	248	384695.2	3346180.0			384670.3	3346431.0	384665.8	3346476.0	384661.1	3346524.0
249		-2.9	-2.7	-2.6				-1.9	-2.1	-2.4	249	384744.8	3346187.0			384719.2	3346445.0	384715.5	3346482.0	384710.8	3346529.0
250		-3.0	-2.7	-2.6				-1.6	-1.9	-2.3	250	384794.3	3346194.0			384767.3	3346466.0	384765.0	3346489.0	384760.6	3346534.0
251		-3.1	-2.7	-2.6				-1.0	-1.6	-2.2	251	384843.9	3346200.0			384816.0	3346482.0	384814.4	3346497.0	384810.3	3346539.0
252		-3.3	-2.7	-2.6				-0.7	-1.3	-2.1	252	384893.7	3346206.0			384865.9	3346485.0	384864.0	3346505.0	384860.1	3346544.0
253		-3.2	-2.7	-2.6				-0.8	-1.4	-1.9	253	384943.4	3346210.0			384916.1	3346486.0	384913.7	3346510.0	384909.8	3346549.0
254		-3.2	-2.7	-2.6				-1.0	-1.4	-1.9	254	384993.2	3346215.0			384966.5	3346484.0	384963.5	3346515.0	384959.6	3346554.0
255		-3.1	-2.7	-2.6				-1.3	-1.6	-1.9	255	385043.3	3346217.0			385016.4	3346487.0	385013.1	3346521.0	385009.3	3346560.0
256		-3.1	-2.8	-2.6				-1.4	-1.7	-1.9	256	385093.4	3346218.0			385064.9	3346505.0	385062.8	3346527.0	385058.9	3346566.0
257		-3.3	-2.8	-2.7				-0.9	-1.4	-1.9	257	385143.4	3346221.0			385113.8	3346519.0	385112.6	3346531.0	385108.5	3346572.0
258		-3.4	-2.8	-2.7				-0.5	-1.2	-2.0	258	385193.2	3346225.0			385163.5	3346524.0	385162.1	3346539.0	385157.9	3346581.0
259		-3.5	-2.9	-2.7				-0.6	-1.3	-2.1	259	385242.8	3346232.0			385213.2	3346530.0	385211.8	3346544.0	385207.1	3346591.0
260		-3.4	-2.8	-2.8				-0.6	-1.4	-2.3	260	385292.4	3346238.0			385263.1	3346533.0	385261.5	3346549.0	385256.5	3346599.0
261		-3.4	-2.8	-2.8				-0.7	-1.5	-2.5	261	385342.0	3346244.0			385312.9	3346538.0	385311.1	3346556.0	385306.3	3346605.0
262		-3.4	-2.8	-2.8				-0.8	-1.5	-2.4	262	385391.9	3346248.0			385362.3	3346546.0	385360.8	3346561.0	385356.0	3346610.0
263		-3.4	-2.8	-2.8				-0.6	-1.5	-2.4	263	385441.9	3346251.0			385411.9	3346552.0	385410.6	3346565.0	385405.7	3346615.0
264		-3.5	-2.9	-2.8				-0.6	-1.4	-2.5	264	385491.8	3346254.0			385461.8	3346556.0	385460.3	3346571.0	385455.4	3346621.0
265		-3.5	-2.9	-2.8				-0.7	-1.5	-2.5	265	385541.7	3346257.0			385512.0	3346557.0	385510.0	3346577.0	385505.1	3346627.0
266		-3.5	-2.9	-2.8				-0.9	-1.6	-2.5	266	385591.6	3346261.0			385562.2	3346557.0	385559.7	3346583.0	385554.5	3346635.0
267		-3.4	-2.9	-2.9				-1.1	-1.8	-2.6	267	385641.5	3346264.0			385612.2	3346560.0	385609.2	3346590.0	385603.8	3346644.0
268		-3.4	-3.0	-2.9				-1.3	-1.9	-2.7	268	385691.5	3346267.0			385660.4	3346580.0	385658.6	3346599.0	385653.4	3346650.0
269		-3.6	-3.0	-2.9				-0.8	-1.6	-2.6	269	385741.8	3346266.0			385709.6	3346591.0	385708.2	3346605.0	385703.1	3346656.0
270		-3.8	-3.1	-3.0				-0.6	-1.5	-2.5	270	385791.8	3346269.0			385759.4	3346595.0	385757.1	3346619.0	385752.8	3346662.0
271		-3.8	-3.2	-3.0				-1.0	-1.5	-2.1	271	385841.8	3346272.0			385809.6	3346596.0	385806.8	3346623.0	385802.3	3346670.0
272		-3.7	-3.2	-3.1				-1.2	-1.7	-2.3	272	385891.5	3346277.0			385859.7	3346598.0	385856.6	3346628.0	385849.6	3346699.0
273		-3.7	-3.2	-3.2				-1.3	-2.3	-3.5	273	385941.3	3346281.0			385909.8	3346599.0	385906.4	3346632.0	385901.7	3346680.0
274		-3.7	-3.2	-3.1				-1.4	-1.9	-2.4	274	385991.1	3346286.0			385959.3	3346606.0	385956.4	3346636.0	385951.8	3346682.0
275		-3.7	-3.2	-3.0				-1.3	-1.7	-2.3	275	386040.7	3346292.0			386008.5	3346617.0	386005.6	3346646.0	386001.9	3346683.0
276		-3.7	-3.2	-3.0				-1.3	-1.5	-1.8	276	386090.6	3346296.0			386057.6	3346628.0	386055.8	3346646.0	386051.9	3346686.0
277		-3.8	-3.2	-3.0				-0.8	-1.3	-2.0	277	386140.5	3346299.0			386107.4	3346632.0	386105.8	3346648.0	386101.9	3346688.0
278		-3.8	-3.2	-3.0				-0.7	-1.3	-2.0	278	386190.1	3346306.0			386157.5	3346634.0	386155.6	3346654.0	386151.7	3346693.0
279		-3.8	-3.2	-3.0				-0.9	-1.4	-1.9	279	386239.7	3346312.0			386207.5	3346636.0	386205.4	3346658.0	386200.9	3346703.0
280		-3.7	-3.1	-3.0				-0.9	-1.5	-2.2	280	386289.3	3346318.0			386257.3	3346641.0	386255.2	3346663.0	386250.5	3346709.0
281		-3.7	-3.1	-3.0				-0.9	-1.6	-2.3	281	386339.2	3346322.0			386306.8	3346649.0	386304.9	3346667.0	386300.4	3346713.0
282		-3.8	-3.1	-3.0				-0.8	-1.5	-2.3	282	386389.1	3346326.0			386356.3	3346657.0	386354.3	3346676.0	386350.3	3346717.0
283		-3.8	-3.2	-3.0				-0.8	-1.4	-2.0	283	386438.9	3346330.0			386406.1	3346660.0	386404.0	3346682.0	386400.2	3346720.0
284		-3.8	-3.2	-3.0				-0.9	-1.4	-1.9	284	386488.7	3346335.0			386456.3	3346662.0	386453.7	3346688.0	386450.1	3346724.0
285		-3.8	-3.2	-3.0				-1.1	-1.4	-1.8	285	386538.5	3346339.0			386506.5	3346662.0	386503.7	3346690.0	386500.0	3346727.0
286		-3.7	-3.2	-3.0				-1.2	-1.5	-1.9	286	386588.2	3346345.0			386556.7	3346662.0	386554.5	3346684.0	386549.9	3346731.0

Transect #	High-Water Shoreline Position Change Rate										Transect #	High-Water Shoreline Position (UTM Zone 16, NAD 1983)									
	1847/67 to 1917/18 (m/yr)	1847/67 to 1934 (m/yr)	1847/67 to 1957 (m/yr)	1847/67 to 1978/82 (m/yr)	1917/18 to 1934 (m/yr)	1917/18 to 1957 (m/yr)	1917/18 to 1978/82 (m/yr)	1934 to 1957 (m/yr)	1934 to 1978/82 (m/yr)	1957 to 1978/82 (m/yr)		UTM-x (m)	UTM-y (m)	UTM-x (m)	UTM-y (m)	UTM-x (m)	UTM-y (m)	UTM-x (m)	UTM-y (m)	UTM-x (m)	UTM-y (m)
304		-3.6	-3.0	-2.9				-0.9	-1.4	-2.0	304	387485.4	3346418.0		387454.4	3346729.0	387452.2	3346752.0	387448.3	3346792.0	
305		-3.6	-3.0	-2.9				-1.0	-1.4	-2.0	305	387535.6	3346418.0		387504.8	3346728.0	387502.3	3346753.0	387498.3	3346793.0	
306		-3.6	-3.1	-2.9				-1.1	-1.5	-2.0	306	387585.7	3346419.0		387554.9	3346729.0	387552.3	3346756.0	387548.4	3346796.0	
307		-3.6	-3.1	-2.9				-1.1	-1.5	-2.0	307	387635.6	3346423.0		387604.3	3346738.0	387602.2	3346759.0	387598.6	3346796.0	
308		-3.6	-3.1	-2.9				-0.9	-1.3	-1.8	308	387685.1	3346430.0		387654.2	3346742.0	387652.2	3346762.0	387648.9	3346795.0	
309		-3.6	-3.0	-2.8				-0.9	-1.2	-1.7	309	387734.8	3346436.0		387704.2	3346744.0	387702.1	3346765.0	387699.2	3346795.0	
310		-3.6	-3.0	-2.8				-0.9	-1.2	-1.5	310	387784.6	3346441.0		387754.6	3346743.0	387752.0	3346769.0	387749.5	3346794.0	
311		-3.5	-3.0	-2.7				-1.1	-1.2	-1.3	311	387834.5	3346443.0		387805.3	3346739.0	387802.3	3346768.0	387799.7	3346794.0	
312		-3.4	-3.0	-2.7				-1.3	-1.3	-1.3	312	387884.5	3346446.0		387855.5	3346738.0	387852.5	3346769.0	387849.5	3346799.0	
313		-3.4	-2.9	-2.7				-1.3	-1.4	-1.5	313	387934.5	3346449.0		387905.3	3346743.0	387902.5	3346771.0	387899.6	3346800.0	
314		-3.4	-2.9	-2.7				-1.2	-1.3	-1.5	314	387984.4	3346452.0		387954.9	3346749.0	387952.8	3346771.0	387949.6	3346802.0	
315		-3.4	-2.9	-2.7				-0.9	-1.2	-1.6	315	388034.3	3346456.0		388004.7	3346754.0	388002.8	3346773.0	388000.0	3346801.0	
316		-3.4	-2.9	-2.7				-0.8	-1.1	-1.4	316	388084.2	3346460.0		388054.8	3346755.0	388052.9	3346775.0	388050.3	3346800.0	
317		-3.4	-2.9	-2.6				-0.8	-1.0	-1.3	317	388134.3	3346461.0		388105.6	3346750.0	388102.9	3346777.0	388100.3	3346803.0	
318		-3.3	-2.9	-2.6				-1.1	-1.2	-1.3	318	388184.5	3346461.0		388156.1	3346748.0	388152.8	3346781.0	388150.3	3346806.0	
319		-3.3	-2.9	-2.6				-1.4	-1.3	-1.2	319	388234.6	3346463.0		388206.2	3346749.0	388202.9	3346782.0	388199.9	3346812.0	
320		-3.3	-2.9	-2.7				-1.4	-1.4	-1.5	320	388284.7	3346464.0		388256.5	3346748.0	388253.1	3346782.0	388249.6	3346818.0	
321		-3.3	-2.9	-2.7				-1.5	-1.6	-1.8	321	388334.6	3346468.0		388306.8	3346747.0	388303.2	3346784.0	388299.6	3346821.0	
322		-3.2	-2.9	-2.7				-1.6	-1.7	-1.8	322	388384.5	3346471.0		388357.1	3346747.0	388353.3	3346785.0	388349.6	3346823.0	
323		-3.2	-2.9	-2.7				-1.6	-1.7	-1.9	323	388434.6	3346473.0		388407.1	3346750.0	388403.6	3346784.0	388399.8	3346824.0	
324		-3.2	-2.8	-2.7				-1.5	-1.7	-2.0	324	388484.9	3346472.0		388457.0	3346753.0	388453.7	3346787.0	388450.1	3346823.0	
325		-3.2	-2.9	-2.7				-1.5	-1.6	-1.8	325	388534.9	3346475.0		388506.9	3346757.0	388503.6	3346790.0	388500.5	3346821.0	
326		-3.3	-2.9	-2.7				-1.4	-1.5	-1.5	326	388585.0	3346476.0		388556.9	3346759.0	388554.2	3346786.0	388551.1	3346818.0	
327		-3.3	-2.8	-2.6				-1.2	-1.3	-1.6	327	388635.2	3346477.0		388607.0	3346761.0	388604.2	3346788.0	388601.8	3346813.0	
328		-3.3	-2.8	-2.6				-1.2	-1.2	-1.2	328	388685.5	3346476.0		388657.3	3346759.0	388654.7	3346786.0	388651.5	3346818.0	
329		-3.3	-2.8	-2.6				-1.1	-1.4	-1.6	329	388735.3	3346480.0		388707.8	3346758.0	388705.3	3346783.0	388701.4	3346822.0	
330		-3.2	-2.8	-2.6				-1.1	-1.5	-1.9	330	388785.0	3346485.0		388758.3	3346754.0	388755.4	3346784.0	388751.4	3346824.0	
331		-3.1	-2.7	-2.6				-1.3	-1.6	-2.0	331	388834.7	3346491.0		388809.0	3346750.0	388805.4	3346787.0	388801.4	3346827.0	
332		-3.0	-2.7	-2.6				-1.6	-1.8	-2.0	332	388884.4	3346497.0		388859.5	3346747.0	388855.3	3346790.0	388851.5	3346828.0	
333		-2.9	-2.7	-2.5				-1.8	-1.9	-1.9	333	388934.0	3346504.0		388910.1	3346744.0	388905.6	3346789.0	388902.0	3346825.0	
334		-2.8	-2.6	-2.5				-1.9	-1.9	-1.8	334	388983.8	3346508.0		388960.6	3346742.0	388956.1	3346787.0	388952.6	3346822.0	
335		-2.7	-2.5	-2.4				-1.9	-1.9	-1.7	335	389033.7	3346511.0		389010.9	3346741.0	389006.4	3346787.0	389002.9	3346821.0	
336		-2.6	-2.5	-2.4				-2.0	-1.9	-1.7	336	389083.6	3346515.0		389061.2	3346741.0	389056.7	3346786.0	389053.3	3346821.0	
337		-2.6	-2.5	-2.4				-1.9	-1.8	-1.7	337	389133.8	3346516.0		389111.5	3346740.0	389106.9	3346786.0	389103.4	3346821.0	
338		-2.6	-2.5	-2.3				-2.0	-1.9	-1.7	338	389183.8	3346518.0		389162.0	3346738.0	389157.2	3346786.0	389153.7	3346821.0	
339		-2.5	-2.4	-2.3				-2.1	-1.9	-1.7	339	389233.7	3346521.0		389212.6	3346734.0	389207.3	3346787.0	389204.4	3346816.0	
340		-2.5	-2.4	-2.3				-2.3	-1.9	-1.5	340	389283.7	3346524.0		389262.9	3346734.0	389257.6	3346787.0	389254.9	3346814.0	
341		-2.4	-2.4	-2.2				-2.3	-1.9	-1.4	341	389333.3	3346530.0		389312.4	3346740.0	389307.9	3346787.0	389305.2	3346813.0	
342		-2.4	-2.3	-2.2				-2.0	-1.7	-1.3	342	389382.8	3346538.0		389362.5	3346742.0	389358.3	3346784.0	389354.9	3346818.0	
343		-2.4	-2.2	-2.2				-1.8	-1.8	-1.7	343	389432.5	3346544.0		389412.7	3346743.0	389408.5	3346785.0	389405.0	3346820.0	
344		-2.3	-2.2	-2.1				-1.8	-1.8	-1.7	344	389482.3	3346548.0		389462.8	3346744.0	389458.8	3346785.0	389455.2	3346820.0	
345		-2.3	-2.2	-2.1				-1.7	-1.8	-1.8	345	389532.4	3346549.0		389512.7	3346748.0	389509.1	3346784.0	389505.5	3346820.0	
346		-2.3	-2.1	-2.1				-1.5	-1.7	-1.8	346	389582.6	3346549.0		389563.0	3346747.0	389559.5	3346782.0	389555.6	3346822.0	
347		-2.3	-2.1	-2.1				-1.5	-1.7	-2.0	347	389632.8	3346551.0		389613.8	3346742.0	389610.0	3346779.0	389605.6	3346824.0	
348		-2.2	-2.1	-2.1				-1.6	-1.9	-2.2	348	389682.9	3346552.0		389664.7	3346735.0	389660.7	3346775.0	389655.9	3346823.0	
349		-2.1	-2.0	-2.1				-1.7	-2.0	-2.4	349	389733.0	3346553.0		389715.3	3346732.0	389711.6	3346769.0	389706.3	3346822.0	
350		-2.1	-2.0	-2.1				-1.6	-2.1	-2.6	350	389782.9	3346557.0		389765.8	3346729.0	389762.0	3346767.0	389756.8	3346820.0	
351		-2.0	-1.9	-2.0				-1.6	-2.1	-2.6	351	389832.8	3346561.0		389816.3	3346726.0	389811.2	3346777.0	389807.3	3346817.0	
352		-4.5	-1.9	-2.0				-2.2	-2.1	-2.0	352	389882.5	3346565.0		389866.4	3346728.0	389861.4	3346778.0	389857.6	3346817.0	
353		-4.5	-1.9	-1.9		2.6	1.1	-2.1	-2.0	-1.9	353	389932.3	3346570.0	389909.3	3346802.0	389916.5	3346729.0	389912.1	3346774.0	389907.8	3346816.0
354		-3.3	-1.8	-1.9	-1.9	4.3	0.7	-0.2	-1.9	-2.0	354	389982.3	3346573.0	389964.3	3346754.0	389966.8	3346728.0	389962.4	3346773.0	389958.2	3346816.0
355		-2.6	-1.8	-1.8	-1.9	1.5	-0.5	-1.0	-1.9	-2.0	355	390032.7	3346571.0	390016.6	3346733.0	390017.1	3346728.0	390013.0	3346769.0	390008.8	3346812.0
356		-2.3	-1.8	-1.8	-1.9	0.3	-0.9	-1.3	-1.8	-2.1	356	390083.2	3346569.0	390067.4	3346727.0	390067.5	3346727.0	390063.6	3346766.0	390059.4	3346808.0
357		-2.3	-1.8	-1.8	-1.8	0.0	-1.0	-1.3	-1.7	-2.1	357	390133.6	3346567.0	390117.8	3346727.0	390118.0	3346724.0	390113.2	3346773.0	390110.0	3346804.0
358		-2.3	-1.8	-1.9	-1.8	0.2	-1.2	-1.3	-2.1	-1.9	358	390184.1	3346564.0	390167.8	3346728.0	390168.5	3346722.0	390163.0	3346777.0	390160.6	3346801.0
359		-2.4	-1.8	-1.9	-1.8	0.4	-1.2	-1.2	-2.4	-1.8	359	390234.6	3346562.0	390218.2	3346727.0	390218.8	3346720.0	390214.3	3346766.0	390211.2	3346798.0
360		-2.4	-1.8	-1.9	-1.8	0.4	-1.0	-1.2	-2.0	-1.6	360	390284.7	3346564.0	390269.2	3346720.0	390269.5	3346717.0	390265.2	3346760.0	390262.0	3346792.0
361		-2.2	-1.8	-1.8	-1.8	0.2	-1.0	-1.2	-1.9	-1.7	361	390334.7	3346566.0	390320.5	3346709.0	390320.0	3346714.0	390315.1	3346763.0	390312.8	3346786.0
362		-2.0	-1.7	-1.8	-1.7	-0.3	-1.3	-1.3	-2.1	-1.7	362	390384.9	3346566.0	390371.2	3346705.0	390370.4	3346				

Transect #	High-Water Shoreline Position Change Rate										Transect #	High-Water Shoreline Position (UTM Zone 16, NAD 1983)									
	1847/67 to	1847/67 to	1847/67 to	1847/67 to	1917/18 to	1917/18 to	1917/18 to	1917/18 to	1934 to	1934 to		1957 to	1917/18		1934		1957		1978/82		
	1917/18 (m/yr)	1934 (m/yr)	1957 (m/yr)	1978/82 (m/yr)	1934 (m/yr)	1957 (m/yr)	1978/82 (m/yr)	1978/82 (m/yr)	1957 (m/yr)	1978/82 (m/yr)		1978/82 (m/yr)	UTM-x (m)	UTM-y (m)	UTM-x (m)	UTM-y (m)	UTM-x (m)	UTM-y (m)	UTM-x (m)	UTM-y (m)	UTM-x (m)
380	-1.0	-0.8	-0.7	-1.0	-0.4	-0.1	-1.0	0.1	-1.2	-2.6	380	391292.5	3346534.0	391285.7	3346603.0	391285.4	3346606.0	391286.3	3346597.0	391278.9	3346671.0
381	-1.0	-0.8	-0.6	-1.1	-0.2	0.2	-1.1	0.4	-1.5	-3.7	381	391344.3	3346518.0	391337.7	3346585.0	391338.2	3346581.0	391337.8	3346583.0	391329.8	3346655.0
382	-1.0	-0.7	-0.6	-1.1	0.3	0.0	-1.3	-0.1	-1.9	-4.1	382	391395.5	3346509.0	391389.8	3346566.0	391390.8	3346557.0	391389.6	3346569.0	391380.7	3346658.0
383	-0.8	-0.6	-0.5	-1.1	0.6	-0.1	-1.5	-0.5	-2.3	-4.5	383	391446.7	3346499.0	391441.5	3346551.0	391443.2	3346534.0	391441.6	3346551.0	391432.4	3346643.0
384	-0.7	-0.4	-0.5	-1.1	1.0	0.0	-1.5	-0.7	-2.5	-4.6	384	391497.8	3346491.0	391492.9	3346540.0	391495.5	3346514.0	391493.1	3346538.0	391483.6	3346634.0
385	-0.7	-0.3	-0.4	-1.1	1.5	0.0	-1.6	-1.0	-2.8	-4.8	385	391548.4	3346487.0	391544.7	3346525.0	391548.4	3346487.0	391545.3	3346518.0	391534.7	3346625.0
386	-0.5	0.0	-0.3	-1.1	2.2	0.2	-1.7	-1.3	-3.2	-5.3	386	391599.3	3346481.0	391596.8	3346506.0	391600.9	3346464.0	391596.4	3346510.0	391585.9	3346615.0
387	-0.4	0.2	-0.3	-1.0	2.5	-0.1	-1.8	-1.9	-3.5	-5.2	387	391650.4	3346472.0	391648.3	3346493.0	391651.8	3346458.0	391647.1	3346505.0	391637.2	3346605.0
388	-0.3	0.2	-0.3	-1.0	2.0	-0.3	-1.9	-2.0	-3.4	-4.9	388	391701.4	3346464.0	391700.2	3346476.0	391702.6	3346453.0	391697.5	3346504.0	391688.5	3346594.0
389	-0.2	0.1	-0.4	-1.0	1.4	-0.7	-2.0	-2.2	-3.3	-4.5	389	391753.0	3346451.0	391752.5	3346455.0	391753.6	3346445.0	391748.3	3346499.0	391739.8	3346584.0
390	-0.1	0.1	-0.4	-1.0	0.6	-1.1	-2.1	-2.3	-3.2	-4.2	390	391804.5	3346438.0	391804.7	3346436.0	391804.7	3346436.0	391799.0	3346493.0	391791.1	3346573.0
391	0.0	0.0	-0.5	-1.0	0.0	-1.4	-2.3	-2.4	-3.2	-4.0	391	391855.8	3346427.0	391856.4	3346421.0	391855.7	3346429.0	391850.4	3346481.0	391842.3	3346564.0
392	0.1	0.0	-0.5	-1.1	-0.4	-1.5	-2.4	-2.3	-3.1	-4.1	392	391906.7	3346421.0	391908.8	3346400.0	391906.7	3346421.0	391901.8	3346470.0	391893.6	3346553.0
393	0.3	0.0	-0.4	-1.0	-1.3	-1.7	-2.5	-2.1	-3.0	-4.1	393	391957.2	3346419.0	391961.2	3346378.0	391957.8	3346413.0	391952.5	3346466.0	391945.2	3346539.0
394	0.6	0.1	-0.4	-0.9	-2.1	-2.2	-2.7	-2.3	-2.9	-3.6	394	392007.6	3346417.0	392012.9	3346364.0	392008.8	3346404.0	392003.5	3346458.0	391996.9	3346524.0
395	0.8	0.1	-0.4	-0.8	-2.4	-2.3	-2.7	-2.3	-2.8	-3.3	395	392058.1	3346415.0	392064.1	3346354.0	392059.8	3346397.0	392054.9	3346446.0	392048.7	3346509.0
396	0.9	0.2	-0.3	-0.7	-2.6	-2.3	-2.6	-2.1	-2.6	-3.1	396	392108.5	3346412.0	392116.0	3346337.0	392110.6	3346391.0	392106.4	3346434.0	392100.8	3346490.0
397	1.1	0.2	-0.2	-0.6	-3.2	-2.4	-2.5	-1.8	-2.3	-2.8	397	392159.0	3346410.0	392167.7	3346322.0	392161.8	3346382.0	392158.2	3346418.0	392152.9	3346472.0
398	1.3	0.3	-0.1	-0.5	-3.6	-2.4	-2.5	-1.5	-2.1	-2.7	398	392209.4	3346408.0	392218.9	3346313.0	392213.3	3346369.0	392210.0	3346403.0	392205.2	3346451.0
399	1.4	0.5	0.1	-0.3	-3.3	-2.2	-2.3	-1.4	-1.9	-2.4	399	392260.0	3346405.0	392270.1	3346303.0	392265.2	3346352.0	392262.0	3346385.0	392257.8	3346428.0
400	1.5	0.6	0.2	-0.2	-2.9	-2.0	-2.1	-1.4	-1.7	-2.1	400	392310.6	3346401.0	392322.3	3346284.0	392317.3	3346333.0	392314.1	3346367.0	392310.2	3346406.0
401	1.7	0.8	0.3	0.0	-2.9	-2.1	-2.0	-1.4	-1.7	-1.9	401	392360.8	3346402.0	392374.3	3346266.0	392369.7	3346313.0	392365.3	3346357.0	392362.6	3346384.0
402	1.9	1.0	0.4	0.1	-2.8	-2.3	-2.0	-1.9	-1.6	-1.4	402	392411.2	3346400.0	392426.1	3346251.0	392422.1	3346291.0	392416.5	3346347.0	392415.2	3346361.0
403	2.1	1.3	0.5	0.3	-2.4	-2.4	-1.8	-2.4	-1.6	-0.7	403	392461.8	3346396.0	392477.6	3346238.0	392474.5	3346269.0	392468.4	3346331.0	392467.7	3346337.0
404	2.3	1.5	0.6	0.5	-1.8	-2.3	-1.6	-2.7	-1.6	-0.3	404	392512.4	3346393.0	392530.0	3346216.0	392527.1	3346245.0	392520.6	3346310.0	392520.2	3346315.0
405	2.5	1.7	0.8	0.6	-1.7	-2.3	-1.6	-2.8	-1.6	-0.2	405	392563.1	3346389.0	392581.5	3346203.0	392579.3	3346226.0	392572.9	3346290.0	392573.0	3346289.0
406	2.7	1.9	0.9	0.8	-1.3	-2.2	-1.4	-2.8	-1.5	0.1	406	392613.8	3346385.0	392633.2	3346188.0	392631.0	3346210.0	392626.7	3346254.0	392626.0	3346261.0
407	2.8	2.0	1.2	1.0	-1.3	-1.6	-1.2	-1.9	-1.2	-0.3	407	392664.6	3346378.0	392684.8	3346175.0	392683.0	3346193.0	392679.7	3346227.0	392679.0	3346234.0
408	2.9	2.1	1.4	1.1	-1.1	-1.3	-1.0	-1.5	-0.9	-0.3	408	392715.6	3346371.0	392736.3	3346162.0	392735.3	3346173.0	392732.8	3346197.0	392731.8	3346207.0
409	3.0	2.3	1.6	1.3	-0.6	-0.9	-0.7	-1.1	-0.8	-0.5	409	392766.6	3346364.0	392787.8	3346150.0	392788.1	3346147.0	392785.2	3346176.0	392784.7	3346181.0
410	3.1	2.5	1.7	1.4	0.1	-0.7	-0.5	-1.3	-0.8	-0.2	410	392817.8	3346354.0	392839.2	3346138.0	392841.4	3346116.0	392838.8	3346143.0	392837.5	3346155.0
411	3.1	2.7	1.9	1.5	1.3	-0.1	-0.3	-1.2	-0.9	-0.6	411	392869.4	3346340.0	392890.4	3346129.0	392894.7	3346085.0	392892.1	3346112.0	392889.6	3346136.0
412	3.0	2.9	2.1	1.6	2.6	0.4	-0.1	-1.1	-1.2	-1.2	412	392921.4	3346322.0	392941.8	3346117.0	392947.6	3346058.0	392944.7	3346088.0	392941.8	3346117.0
413	2.9	3.1	2.1	1.6	3.5	0.7	0.0	-1.3	-1.4	-1.5	413	392973.4	3346304.0	392992.9	3346108.0	393000.4	3346032.0	392998.9	3346047.0	392994.0	3346098.0
414	2.8	3.1	2.3	1.6	4.5	1.5	0.2	-0.6	-1.5	-2.5	414	393025.7	3346284.0	393044.9	3346090.0	393053.3	3346006.0	393052.7	3346012.0	393046.3	3346077.0
415	2.8	3.2	2.5	1.6	5.0	1.9	0.2	-0.3	-1.6	-3.2	415	393078.1	3346262.0	393096.4	3346078.0	393105.2	3345989.0	393106.2	3345980.0	393098.6	3346056.0
416	2.6	3.2	2.6	1.6	5.2	2.4	0.4	0.4	-1.5	-3.8	416	393130.9	3346237.0	393148.5	3346060.0	393155.9	3345985.0	393158.4	3345959.0	393151.0	3346034.0
417	2.5	2.9	2.5	1.6	4.4	2.5	0.4	1.1	-1.1	-3.7	417	393183.5	3346213.0	393199.4	3346053.0	393206.6	3345980.0	393209.8	3345949.0	393203.4	3346012.0
418	2.3	2.7	2.4	1.5	4.3	2.6	0.7	1.4	-0.7	-3.1	418	393235.8	3346192.0	393251.2	3346037.0	393257.3	3345976.0	393260.7	3345941.0	393255.9	3345989.0
419	2.2	2.5	2.3	1.6	3.6	2.4	0.8	1.5	-0.3	-2.4	419	393288.1	3346171.0	393304.5	3346007.0	393308.0	3345971.0	393311.4	3345937.0	393307.6	3345975.0
420	2.4	2.3	2.1	1.5	2.1	1.7	0.5	1.5	-0.1	-1.9	420	393340.6	3346149.0	393356.1	3345992.0	393357.8	3345976.0	393360.9	3345944.0	393357.8	3345976.0
421	2.2	2.0	1.9	1.3	1.0	1.2	0.3	1.3	0.0	-1.6	421	393392.9	3346128.0	393407.1	3345985.0	393408.0	3345976.0	393409.9	3345957.0	393406.8	3345989.0
422	2.1	1.8	1.6	1.1	0.5	0.7	-0.1	0.8	-0.3	-1.6	422	393445.0	3346109.0	393457.8	3345981.0	393458.5	3345973.0	393458.7	3345972.0	393455.6	3346003.0
423	1.8	1.6	1.3	0.8	0.5	0.2	-0.4	0.0	-0.7	-1.5	423	393497.3	3346088.0	393507.9	3345982.0	393509.3	3345968.0	393507.8	3345983.0	393504.4	3346017.0
424	1.5	1.4	1.0	0.5	0.8	0.0	-0.6	-0.6	-1.1	-1.7	424	393549.7	3346067.0	393558.3	3345981.0	393560.5	3345959.0	393557.4	3345989.0	393553.3	3346031.0
425	1.2	1.2	0.7	0.3	1.3	-0.2	-0.8	-1.3	-1.7	-2.1	425	393602.0	3346046.0	393608.8	3345978.0	393610.5	3345961.0	393607.3	3345994.0	393602.5	3346041.0
426	1.0	1.0	0.5	0.0	1.0	-0.4	-1.0	-1.4	-1.8	-2.3	426	393654.3	3346025.0	393659.3	3345975.0	393660.5	3345963.0	393659.9	3345999.0	393651.9	3346050.0
427	0.7	0.7	0.2	-0.2	0.7	-0.6	-1.3	-1.6	-2.0	-2.5	427	393707.0	3346001.0	393709.5	3345975.0	393710.8	3345962.0	393706.9	3346002.0	393701.4	3346058.0
428	0.4	0.5	0.0	-0.4	0.8	-0.7	-1.4	-1.7	-2.2	-2.8	428	393759.8	3345976.0	393759.3	3345980.0	393761.6	3345957.0	393756.6	3346007.0	393751.0	3346063.0
429	-0.1	0.2	-0.3	-0.7	1.4	-0.7	-1.4	-2.2	-2.4	-2.8	429	393811.8	3345958.0	393809.2	3345984.0	393812.5	3345950.0	393806.1			

Transect #	High-Water Shoreline Position Change Rate										Transect #	High-Water Shoreline Position (UTM Zone 16, NAD 1983)											
	1847/67 to	1847/67 to	1847/67 to	1847/67 to	1917/18 to	1917/18 to	1917/18 to	1917/18 to	1934 to	1934 to		1957 to	1847/67		1917/18		1934		1957		1978/82		
	1917/18 (m/yr)	1934 (m/yr)	1957 (m/yr)	1978/82 (m/yr)	1934 (m/yr)	1957 (m/yr)	1978/82 (m/yr)	1978/82 (m/yr)	1957 (m/yr)	1978/82 (m/yr)		1978/82 (m/yr)	UTM-x (m)	UTM-y (m)	UTM-x (m)	UTM-y (m)	UTM-x (m)	UTM-y (m)	UTM-x (m)	UTM-y (m)	UTM-x (m)	UTM-y (m)	UTM-x (m)
456	0.9	0.6	-0.1	0.4	-0.7	-1.7	-0.1	-2.5	0.1	3.1	456	395152.6	3346117.0	395159.4	3346048.0	395157.8	3346065.0	395152.1	3346123.0	395158.3	3346059.0		
457	1.0	0.6	-0.1	0.4	-1.0	-1.8	-0.2	-2.5	0.1	3.1	457	395201.5	3346130.0	395209.3	3346052.0	395207.2	3346073.0	395201.8	3346127.0	395207.8	3346067.0		
458	1.1	0.7	0.0	0.5	-1.3	-1.9	-0.2	-2.3	0.1	3.0	458	395250.3	3346145.0	395259.5	3346052.0	395256.4	3346083.0	395251.3	3346135.0	395256.1	3346086.0		
459	1.3	0.7	0.1	0.4	-1.8	-2.1	-0.6	-2.2	-0.1	2.4	459	395299.3	3346158.0	395309.8	3346051.0	395305.6	3346094.0	395300.6	3346144.0	395304.4	3346107.0		
460	1.5	0.7	0.1	0.4	-2.5	-2.3	-0.9	-2.1	-0.3	1.9	460	395348.4	3346169.0	395359.4	3346058.0	395355.0	3346102.0	395350.4	3346149.0	395352.6	3346127.0		
461	1.6	0.8	0.2	0.3	-2.6	-2.3	-1.1	-2.0	-0.6	1.1	461	395397.6	3346180.0	395408.4	3346071.0	395404.3	3346112.0	395400.3	3346152.0	395401.1	3346145.0		
462	1.6	0.8	0.3	0.3	-2.4	-2.0	-1.2	-1.7	-0.8	0.4	462	395446.8	3346190.0	395457.1	3346086.0	395453.3	3346125.0	395450.1	3346157.0	395449.9	3346159.0		
463	1.5	0.7	0.3	0.2	-2.3	-1.8	-1.2	-1.4	-0.8	-0.1	463	395496.2	3346199.0	395505.0	3346110.0	395502.3	3346138.0	395499.8	3346162.0	395498.8	3346173.0		
464	1.3	0.7	0.3	0.2	-1.7	-1.3	-1.0	-1.1	-0.8	-0.5	464	395545.3	3346210.0	395553.1	3346132.0	395551.0	3346152.0	395548.8	3346175.0	395547.8	3346185.0		
465	1.1	0.7	0.3	0.2	-1.2	-1.1	-0.9	-1.0	-0.8	-0.5	465	395594.3	3346222.0	395601.6	3346149.0	395599.7	3346169.0	395597.9	3346186.0	395596.7	3346199.0		
466	1.0	0.6	0.3	0.2	-1.1	-0.9	-0.8	-0.8	-0.7	-0.6	466	395643.3	3346236.0	395650.6	3346162.0	395648.3	3346185.0	395648.1	3346187.0	395645.6	3346212.0		
467	1.1	0.6	0.4	0.2	-1.4	-0.6	-0.8	-0.1	-0.6	-1.2	467	395692.3	3346249.0	395699.3	3346177.0	395696.8	3346203.0	395697.7	3346193.0	395694.9	3346222.0		
468	1.0	0.5	0.5	0.2	-1.5	-0.4	-0.7	0.4	-0.4	-1.4	468	395741.0	3346264.0	395748.5	3346188.0	395745.2	3346222.0	395747.3	3346200.0	395744.1	3346232.0		
469	1.1	0.5	0.6	0.2	-2.0	-0.3	-0.7	0.9	-0.2	-1.6	469	395789.8	3346278.0	395798.2	3346194.0	395793.9	3346237.0	395797.0	3346206.0	395793.0	3346246.0		
470	1.2	0.5	0.7	0.2	-2.5	-0.3	-0.9	1.3	-0.2	-2.0	470	395838.7	3346292.0	395847.9	3346199.0	395842.8	3346250.0	395847.1	3346207.0	395842.2	3346256.0		
471	1.3	0.5	0.8	0.3	-3.0	-0.2	-0.9	1.9	-0.1	-2.4	471	395887.6	3346305.0	395897.5	3346205.0	395891.6	3346265.0	395891.4	3346207.0	395891.4	3346267.0		
472	1.4	0.5	0.9	0.3	-3.5	0.0	-1.0	2.5	0.0	-3.0	472	395936.6	3346318.0	395947.2	3346211.0	395941.0	3346274.0	395947.4	3346209.0	395941.0	3346274.0		
473	1.5	0.5	1.0	0.3	-3.7	0.1	-1.0	2.8	0.0	-3.2	473	395985.5	3346331.0	395997.0	3346216.0	395990.2	3346284.0	395997.7	3346209.0	395990.5	3346281.0		
474	1.7	0.5	1.1	0.4	-4.0	0.2	-1.1	3.3	0.1	-3.6	474	396034.7	3346342.0	396046.7	3346221.0	396040.0	3346288.0	396047.5	3346213.0	396039.8	3346291.0		
475	1.7	0.6	1.2	0.4	-4.0	0.2	-1.2	3.2	-0.1	-3.8	475	396083.8	3346353.0	396096.3	3346227.0	396090.4	3346287.0	396097.6	3346215.0	396089.3	3346299.0		
476	1.8	0.8	1.3	0.4	-3.5	0.3	-1.2	3.1	-0.3	-4.2	476	396132.8	3346365.0	396146.1	3346232.0	396141.0	3346283.0	396147.8	3346215.0	396139.2	3346302.0		
477	1.9	1.0	1.4	0.5	-3.0	0.4	-1.2	2.9	-0.4	-4.3	477	396182.0	3346377.0	396195.6	3346239.0	396192.1	3346275.0	396197.1	3346225.0	396189.0	3346306.0		
478	2.0	1.2	1.4	0.5	-2.1	0.4	-1.1	2.1	-0.7	-4.0	478	396231.3	3346386.0	396243.9	3346259.0	396243.2	3346266.0	396245.0	3346248.0	396239.1	3346307.0		
479	1.8	1.4	1.3	0.6	-0.4	0.3	-0.8	0.8	-0.9	-2.9	479	396281.0	3346392.0	396293.8	3346293.0	396292.2	3346279.0	396293.2	3346269.0	396289.2	3346309.0		
480	1.4	1.3	1.1	0.6	0.9	0.6	-0.3	0.4	-0.7	-2.0	480	396330.7	3346397.0	396338.7	3346316.0	396341.4	3346290.0	396340.8	3346295.0	396344.0	3346263.0		
481	1.2	1.2	0.9	1.0	1.6	0.5	0.9	-0.2	0.6	1.6	481	396381.2	3346394.0	396385.6	3346350.0	396389.8	3346308.0	396388.8	3346318.0	396392.5	3346281.0		
482	0.6	1.0	0.7	0.9	2.5	0.8	1.1	-0.4	0.6	1.8	482	396431.9	3346390.0	396432.3	3346386.0	396438.8	3346321.0	396437.5	3346333.0	396441.3	3346295.0		
483	0.1	0.8	0.5	0.7	3.9	1.3	1.5	-0.5	0.6	1.9	483	396483.1	3346381.0	396478.5	3346427.0	396486.7	3346344.0	396485.4	3346357.0	396490.3	3346308.0		
484		0.4	0.2	0.6	4.9	1.7	2.0	-0.5	0.8	2.4	484	396534.7	3346367.0	396522.7	3346488.0	396532.6	3346388.0	396530.0	3346414.0	396538.9	3346324.0		
485				0.3	5.9	1.8	2.7	-1.1	1.5	4.5	485	396585.7	3346359.0	396588.1	3346537.0	396575.9	3346458.0	396574.1	3346476.0	396584.4	3346372.0		
486											486	396635.8	3346360.0										
487											487	396689.8	3346323.0										
Main Channel											Main Channel												
488								2.2	2.0	-2.2	488					401009.2	3343740.0	401023.4	3343596.0	401018.4	3343647.0		
489								0.5	-1.3	-3.2	489				401076.1	3343572.0	401077.3	3343560.0	401070.0	3343634.0			
490								0.5	-1.8	-4.1	490				401129.0	3343545.0	401130.3	3343533.0	401120.9	3343627.0			
491								1.0	-2.0	-4.9	491				401180.8	3343530.0	401183.0	3343507.0	401171.7	3343622.0			
492								0.7	-2.2	-5.1	492				401232.5	3343515.0	401234.1	3343499.0	401222.4	3343617.0			
493								-0.1	-2.6	-5.0	493				401284.4	3343499.0	401284.2	3343501.0	401272.6	3343617.0			
494								-1.1	-2.9	-4.7	494				401335.9	3343486.0	401333.3	3343512.0	401322.6	3343619.0			
495								-2.1	-3.0	-4.0	495				401386.6	3343481.0	401381.7	3343531.0	401372.6	3343622.0			
496								-3.2	-3.0	-2.8	496				401436.6	3343484.0	401429.1	3343559.0	401422.6	3343625.0			
497								-3.3	-3.0	-2.7	497				401486.4	3343488.0	401478.8	3343565.0	401472.7	3343626.0			
498								-2.4	-2.9	-3.3	498				401536.0	3343494.0	401530.5	3343551.0	401522.8	3343627.0			
499								-1.1	-2.5	-3.8	499	401557.9	3343781.0		401584.4	3343513.0	401581.8	3343540.0	401573.1	3343627.0			
500		3.2	2.2	1.2				-0.6	-2.0	-3.5	500	401609.0	3343772.0	401623.1	3343630.0	401633.1	3343529.0	401631.7	3343543.0	401623.7	3343624.0		
501	2.1	2.9	2.1	1.1	6.3	2.2	0.1	-0.6	-2.0	-3.8	501	401660.0	3343764.0	401673.9	3343624.0	401681.2	3343551.0	401681.2	3343551.0	401674.4	3343619.0		
502	2.0	2.5	2.0	1.1	4.6	1.9	0.1	0.0	-1.5	-2.9	502	401710.9	3343758.0	401725.8	3343607.0	401730.0	3343565.0	401730.7	3343558.0	401725.1	3343614.0		
503	2.2	2.3	1.9	1.1	2.7	1.3	-0.1	0.3	-1.1	-2.4	503	401761.3	3343756.0	401776.2	3343606.0	401779.3	3343575.0	401780.3	3343565.0	401775.8	3343610.0		
504	2.2	2.1	1.8	1.1	2.0	1.0	-0.1	0.4	-0.8	-1.9	504	401811.4	3343757.0	401826.2	3343608.0	401829.0	3343580.0	401829.7	3343573.0	401826.5	3343606.0		
505	2.2	2.1	1.7	1.2	1.8	0.9	0.0	0.3	-0.6	-1.4	505	401861.0	3343764.0	401875.8	3343615.0	401879.0	3343582.0	401879.4	3343579.0	401876.7	3343606.0		
506	2.2	2.1	1.7	1.2	2.0	0.9	0.1	0.2	-0.5	-1.2	506	401910.7	3343770.0	401925.7	3343618.0	401928.6	3343589.0	401928.3	3343592.0	401926.9	3343606.0		
507	2.2	2.1	1.6	1.2	1.8	0.7	0.2	-0.1	-0.4	-0.6	507	401960.4	3343774.0	401976.3	3343615.0	401977.6	3343602.0	401976.8	3343610.0	401976.3	3343615.0		
508	2.3	2.0	1.5	1.2	0.8	0.1	0.0	-0.4	-0.3	-0.2	508	402010.2	3343780.0	402027.3	3343608.0	402027.0	3343611.0	402025.8	3343622.0	402025.8	3343622.0		
509	2.5	2.0	1.5	1.2	-0.2	-0.4	-0.2	-0.5	-0.2	0.0	509	402059.9	3343785.0	402077.3	3343610.0	402076.3	33436						

Transect #	High-Water Shoreline Position Change Rate										Transect #	High-Water Shoreline Position (UTM Zone 16, NAD 1983)										
	1847/67 to	1847/67 to	1847/67 to	1847/67 to	1917/18 to	1917/18 to	1917/18 to	1917/18 to	1934 to	1934 to		1957 to	1847/67		1917/18		1934		1957		1978/82	
	1917/18 (m/yr)	1934 (m/yr)	1957 (m/yr)	1978/82 (m/yr)	1934 (m/yr)	1957 (m/yr)	1978/82 (m/yr)	1978/82 (m/yr)	1957 (m/yr)	1978/82 (m/yr)		1978/82 (m/yr)	UTM-x (m)	UTM-y (m)	UTM-x (m)	UTM-y (m)	UTM-x (m)	UTM-y (m)	UTM-x (m)	UTM-y (m)	UTM-x (m)	UTM-y (m)
531	2.6	1.7	1.4	1.1	-2.4	-0.8	-0.6	0.3	0.0	-0.3	531	403143.1	3344009.0	403160.3	3343835.0	403156.9	3343869.0	403157.7	3343862.0	403156.8	3343871.0	
532	2.5	1.6	1.4	1.0	-2.1	-0.7	-0.6	0.3	0.0	-0.4	532	403192.2	3344021.0	403209.2	3343849.0	403205.9	3343882.0	403206.8	3343873.0	403205.8	3343884.0	
533	2.5	1.6	1.4	1.0	-2.1	-0.6	-0.6	0.4	0.0	-0.4	533	403241.1	3344034.0	403258.3	3343861.0	403255.0	3343893.0	403255.3	3343890.0	403255.1	3343893.0	
534	2.5	1.7	1.3	1.1	-2.0	-0.7	-0.5	0.1	0.0	-0.1	534	403289.6	3344052.0	403306.6	3343880.0	403304.3	3343903.0	403304.9	3343897.0	403304.6	3343900.0	
535	2.5	1.8	1.4	1.2	-1.5	-0.4	-0.3	0.3	0.1	-0.1	535	403338.2	3344068.0	403355.3	3343896.0	403353.6	3343913.0	403353.8	3343911.0	403354.0	3343908.0	
536	2.5	1.8	1.5	1.2	-1.1	-0.4	-0.2	0.0	0.1	0.1	536	403386.9	3344084.0	403404.2	3343910.0	403402.8	3343923.0	403402.3	3343928.0	403403.4	3343917.0	
537	2.5	1.9	1.4	1.3	-0.8	-0.5	-0.1	-0.2	0.1	0.5	537	403435.7	3344099.0	403453.3	3343920.0	403451.8	3343936.0	403451.1	3343943.0	403452.6	3343928.0	
538	2.6	1.9	1.4	1.3	-1.0	-0.6	-0.1	-0.3	0.2	0.6	538	403484.5	3344113.0	403501.9	3343937.0	403500.9	3343947.0	403500.3	3343953.0	403501.7	3343940.0	
539	2.6	2.0	1.5	1.3	-0.6	-0.4	0.0	-0.2	0.2	0.6	539	403533.4	3344126.0	403551.0	3343949.0	403549.6	3343963.0	403548.7	3343972.0	403550.7	3343952.0	
540	2.6	1.9	1.4	1.3	-0.9	-0.6	0.0	-0.4	0.2	0.9	540	403582.3	3344140.0	403599.7	3343965.0	403598.7	3343975.0	403597.8	3343983.0	403599.5	3343966.0	
541	2.6	2.0	1.5	1.3	-0.6	-0.5	0.0	-0.4	0.2	0.7	541	403631.3	3344152.0	403648.7	3343977.0	403647.5	3343989.0	403647.6	3343988.0	403648.3	3343981.0	
542	2.6	1.9	1.5	1.3	-0.7	-0.3	-0.1	0.0	0.2	0.3	542	403680.8	3344160.0	403698.1	3343986.0	403696.4	3344002.0	403697.9	3343987.0	403697.0	3343996.0	
543	2.5	1.9	1.6	1.2	-1.1	0.0	-0.2	0.6	0.1	-0.4	543	403730.1	3344170.0	403747.2	3343997.0	403745.3	3344016.0	403747.7	3343992.0	403746.4	3344005.0	
544	2.5	1.8	1.6	1.3	-1.2	0.1	-0.1	1.0	0.2	-0.6	544	403779.1	3344182.0	403797.2	3343999.0	403794.5	3344026.0	403797.1	3344000.0	403795.8	3344014.0	
545	2.7	1.8	1.7	1.3	-1.7	0.0	-0.2	1.1	0.3	-0.6	545	403827.9	3344196.0	403846.8	3344007.0	403844.2	3344032.0	403846.4	3344010.0	403845.9	3344015.0	
546	2.8	1.9	1.7	1.4	-1.6	-0.1	-0.1	0.9	0.4	-0.2	546	403876.4	3344214.0	403895.7	3344020.0	403893.6	3344041.0	403894.9	3344027.0	403894.9	3344028.0	
547	2.8	2.0	1.7	1.4	-1.3	-0.2	-0.1	0.6	0.3	0.0	547	403924.9	3344232.0	403944.4	3344035.0	403942.6	3344053.0	403944.6	3344034.0	403943.6	3344043.0	
548	2.9	2.1	1.8	1.4	-1.1	0.0	-0.1	0.8	0.2	-0.4	548	403973.4	3344249.0	403993.7	3344045.0	403991.5	3344067.0	403993.8	3344044.0	403992.7	3344054.0	
549	3.0	2.2	1.9	1.5	-1.4	0.0	-0.2	1.0	0.3	-0.5	549	404022.7	3344258.0	404042.9	3344055.0	404040.8	3344077.0	404042.9	3344055.0	404042.1	3344063.0	
550	3.0	2.1	1.9	1.5	-1.4	0.0	-0.1	0.9	0.3	-0.3	550	404072.2	3344266.0	404091.8	3344069.0	404090.4	3344083.0	404092.3	3344063.0	404091.2	3344075.0	
551	2.9	2.2	1.9	1.5	-0.9	0.1	-0.1	0.8	0.2	-0.5	551	404121.6	3344275.0	404140.8	3344082.0	404139.9	3344091.0	404141.6	3344074.0	404141.1	3344079.0	
552	2.8	2.2	1.9	1.5	-0.5	0.2	0.1	0.7	0.3	-0.2	552	404170.9	3344284.0	404189.9	3344093.0	404189.4	3344097.0	404190.9	3344083.0	404189.9	3344093.0	
553	2.8	2.2	1.9	1.5	-0.3	0.3	0.0	0.6	0.1	-0.4	553	404220.3	3344293.0	404238.9	3344106.0	404238.6	3344108.0	404240.3	3344091.0	404239.1	3344104.0	
554	2.7	2.2	1.9	1.4	-0.2	0.4	0.0	0.7	0.1	-0.5	554	404269.6	3344303.0	404288.2	3344115.0	404288.5	3344112.0	404289.6	3344101.0	404288.7	3344110.0	
555	2.7	2.3	1.9	1.5	0.2	0.4	0.1	0.5	0.0	-0.4	555	404318.8	3344313.0	404337.3	3344127.0	404337.7	3344122.0	404338.5	3344115.0	404339.0	3344110.0	
556	2.7	2.3	1.8	1.5	0.3	0.3	0.3	0.3	0.3	0.2	556	404368.2	3344322.0	404386.4	3344138.0	404386.9	3344133.0	404388.3	3344119.0	404388.1	3344121.0	
557	2.7	2.2	1.9	1.5	0.3	0.5	0.3	0.6	0.2	-0.1	557	404417.3	3344332.0	404435.9	3344145.0	404436.3	3344142.0	404437.3	3344131.0	404437.2	3344133.0	
558	2.7	2.3	1.9	1.5	0.2	0.4	0.2	0.5	0.2	-0.1	558	404466.5	3344343.0	404485.3	3344155.0	404485.7	3344150.0	404486.8	3344139.0	404486.3	3344143.0	
559	2.7	2.3	1.9	1.5	0.3	0.4	0.2	0.5	0.1	-0.2	559	404516.0	3344350.0	404534.4	3344166.0	404535.1	3344158.0	404535.8	3344151.0	404536.0	3344149.0	
560	2.7	2.3	1.8	1.5	0.5	0.4	0.3	0.3	0.2	0.1	560	404565.5	3344359.0	404584.5	3344167.0	404584.3	3344169.0	404585.7	3344155.0	404586.0	3344152.0	
561	2.8	2.2	1.9	1.6	-0.1	0.3	0.2	0.6	0.4	0.1	561	404614.8	3344367.0	404633.9	3344176.0	404634.0	3344175.0	404635.5	3344159.0	404635.6	3344158.0	
562	2.8	2.3	1.9	1.6	0.1	0.4	0.3	0.7	0.4	0.0	562	404664.2	3344377.0	404683.3	3344184.0	404683.0	3344187.0	404684.3	3344174.0	404684.3	3344173.0	
563	2.8	2.2	1.9	1.6	-0.2	0.3	0.2	0.6	0.3	0.0	563	404713.5	3344386.0	404732.3	3344197.0	404732.4	3344195.0	404733.7	3344182.0	404733.3	3344187.0	
564	2.8	2.3	1.9	1.5	0.1	0.4	0.2	0.6	0.2	-0.2	564	404762.8	3344396.0	404781.8	3344204.0	404780.5	3344217.0	404783.3	3344188.0	404782.9	3344193.0	
565	2.8	2.1	1.9	1.5	-0.8	0.4	0.2	1.2	0.5	-0.2	565	404812.3	3344403.0	404831.3	3344211.0	404829.2	3344232.0	404832.3	3344201.0	404832.6	3344198.0	
566	2.8	2.0	1.9	1.6	-1.3	0.2	0.2	1.3	0.7	0.1	566	404862.2	3344406.0	404881.2	3344215.0	404878.4	3344243.0	404881.8	3344209.0	404882.2	3344205.0	
567	2.8	1.9	1.8	1.5	-1.8	0.2	0.1	1.5	0.8	0.1	567	404912.2	3344409.0	404931.1	3344219.0	404928.5	3344245.0	404931.1	3344219.0	404931.5	3344214.0	
568	2.8	1.9	1.8	1.5	-1.6	0.0	0.1	1.1	0.7	0.2	568	404962.2	3344411.0	404980.7	3344225.0	404978.6	3344247.0	404980.5	3344227.0	404980.8	3344224.0	
569	2.7	1.9	1.7	1.4	-1.4	0.0	0.0	0.8	0.5	0.1	569	405012.2	3344414.0	405030.2	3344233.0	405028.2	3344253.0	405030.3	3344232.0	405030.4	3344231.0	
570	2.6	1.9	1.7	1.4	-1.3	0.0	0.0	0.9	0.5	0.0	570	405062.0	3344419.0	405079.1	3344247.0	405078.2	3344255.0	405079.6	3344241.0	405079.8	3344239.0	
571	2.5	1.9	1.6	1.4	-0.5	0.1	0.1	0.6	0.3	0.1	571	405111.5	3344426.0	405127.7	3344263.0	405127.6	3344264.0	405129.0	3344250.0	405129.2	3344247.0	
572	2.4	1.9	1.6	1.4	-0.1	0.3	0.2	0.6	0.4	0.1	572	405161.7	3344427.0	405176.5	3344278.0	405177.1	3344272.0	405179.0	3344252.0	405178.8	3344254.0	
573	2.2	1.8	1.6	1.3	0.4	0.6	0.4	0.8	0.4	-0.1	573	405211.8	3344428.0	405225.7	3344288.0	405226.0	3344285.0	405228.4	3344260.0	405228.7	3344257.0	
574	2.0	1.7	1.6	1.3	0.2	0.7	0.5	1.1	0.6	0.1	574	405261.6	3344432.0	405275.6	3344292.0	405275.9	3344288.0	405277.8	3344269.0	405278.6	3344261.0	
575	2.0	1.7	1.5	1.3	0.2	0.6	0.5	0.8	0.6	0.3	575	405311.3	3344437.0	405325.4	3344296.0	405325.5	3344295.0	405328.1	3344269.0	405328.2	3344268.0	
576	2.1	1.7	1.6	1.3	0.1	0.7	0.5	1.1	0.6	0.1	576	405361.1	3344443.0	405375.0	3344302.0	405375.3	3344299.0	405378.1	3344271.0	405377.8	3344274.0	
577	2.0	1.7	1.6	1.3	0.2	0.8	0.4	1.2	0.5	-0.1	577	405410.8	3344447.0	405424.7	3344308.0	405424.8	3344307.0	405427.8	3344276.0	405427.4	3344280.0	
578	2.0	1.7	1.6	1.3	0.0	0.8	0.4	1.3	0.6	-0.2	578	405460.8	3344450.0	405474.5	3344312.0	405474.9	3344308.0	405477.5	3344282.0	405477.0	3344287.0	
579	2.0	1.7	1.6	1.2	0.3	0.8	0.4	1.1	0.5	-0.2	579	405510.5	3344456.0	405524.6	3344314.0	405524.6	3344314.0	405527.0	3344289.0	405526.6	3344293.0	
580	2.1	1.7	1.5	1.2	0.0	0.6	0.3	1.1	0.5	-0.2	580	405560.3	3344460.0	405574.4	3344319.0	40						

Transect #	High-Water Shoreline Position Change Rate										Transect #	High-Water Shoreline Position (UTM Zone 16, NAD 1983)										
	1847/67 to	1847/67 to	1847/67 to	1847/67 to	1917/18 to	1917/18 to	1917/18 to	1917/18 to	1934 to	1934 to		1957 to	1847/67		1917/18		1934		1957		1978/82	
	1917/18 (m/yr)	1934 (m/yr)	1957 (m/yr)	1978/82 (m/yr)	1934 (m/yr)	1957 (m/yr)	1978/82 (m/yr)	1957 (m/yr)	1978/82 (m/yr)	1957 (m/yr)		1978/82 (m/yr)	1978/82 (m/yr)	UTM-x (m)	UTM-y (m)	UTM-x (m)	UTM-y (m)	UTM-x (m)	UTM-y (m)	UTM-x (m)	UTM-y (m)	UTM-x (m)
607	0.6	0.4	0.6	0.4	-0.5	0.7	0.2	1.4	0.4	-0.6	607	406914.9	3344481.0	406918.8	3344441.0	406918.0	3344449.0	406921.2	3344417.0	406919.9	3344430.0	
608	0.6	0.4	0.6	0.4	-0.5	0.6	0.2	1.4	0.4	-0.6	608	406964.9	3344483.0	406969.6	3344436.0	406971.3	3344453.0	406971.3	3344419.0	406970.3	3344429.0	
609	0.7	0.4	0.6	0.4	-1.1	0.4	0.1	1.5	0.5	-0.5	609	407014.8	3344486.0	407021.2	3344422.0	407017.0	3344465.0	407021.2	3344422.0	407020.5	3344430.0	
610	0.9	0.3	0.6	0.4	-2.7	0.0	-0.1	1.8	0.8	-0.3	610	407064.7	3344490.0	407071.1	3344426.0	407065.9	3344478.0	407071.1	3344426.0	407069.9	3344438.0	
611	0.9	0.1	0.6	0.4	-3.3	0.0	-0.2	2.2	0.9	-0.5	611	407114.5	3344495.0	407120.5	3344434.0	407116.2	3344478.0	407120.7	3344432.0	407119.4	3344445.0	
612	0.9	0.2	0.6	0.4	-2.7	0.0	-0.2	2.0	0.7	-0.6	612	407164.4	3344499.0	407170.8	3344434.0	407166.3	3344479.0	407170.6	3344436.0	407169.1	3344451.0	
613	0.9	0.2	0.6	0.4	-2.8	-0.1	-0.3	1.8	0.6	-0.6	613	407214.3	3344502.0	407220.0	3344444.0	407215.6	3344489.0	407220.5	3344440.0	407218.7	3344457.0	
614	0.8	0.2	0.6	0.3	-2.8	0.1	-0.2	2.1	0.7	-0.8	614	407264.3	3344505.0	407269.8	3344448.0	407265.5	3344492.0	407270.4	3344442.0	407268.6	3344461.0	
615	0.8	0.1	0.6	0.3	-2.7	0.2	-0.2	2.1	0.7	-0.8	615	407314.4	3344505.0	407319.0	3344459.0	407315.3	3344496.0	407320.8	3344441.0	407318.6	3344463.0	
616	0.7	0.1	0.6	0.3	-2.3	0.5	-0.1	2.4	0.7	-0.9	616	407364.8	3344504.0	407368.8	3344464.0	407365.4	3344498.0	407370.2	3344450.0	407368.8	3344464.0	
617	0.6	0.1	0.5	0.3	-2.1	0.4	0.0	2.1	0.7	-0.6	617	407415.4	3344501.0	407418.6	3344468.0	407415.1	3344503.0	407419.9	3344455.0	407418.6	3344468.0	
618	0.5	0.0	0.4	0.2	-2.2	0.3	0.0	2.1	0.7	-0.6	618	407465.9	3344498.0	407469.0	3344467.0	407465.3	3344504.0	407469.9	3344457.0	407468.4	3344473.0	
619	0.5	-0.1	0.4	0.2	-2.4	0.2	-0.1	2.0	0.7	-0.7	619	407516.2	3344497.0	407519.6	3344463.0	407515.5	3344504.0	407519.6	3344464.0	407518.2	3344478.0	
620	0.5	-0.1	0.3	0.2	-2.6	0.0	-0.2	1.7	0.6	-0.6	620	407566.4	3344498.0	407569.6	3344466.0	407565.7	3344505.0	407569.6	3344465.0	407568.0	3344482.0	
621	0.5	-0.1	0.3	0.1	-2.5	0.0	-0.3	1.7	0.5	-0.7	621	407616.5	3344499.0	407619.6	3344468.0	407615.8	3344506.0	407620.1	3344463.0	407617.9	3344485.0	
622	0.4	-0.1	0.3	0.1	-2.4	0.1	-0.3	1.8	0.4	-1.0	622	407666.5	3344502.0	407669.8	3344468.0	407666.4	3344503.0	407669.7	3344470.0	407669.0	3344486.0	
623	0.5	0.0	0.3	0.1	-2.2	-0.1	-0.3	1.4	0.4	-0.7	623	407716.9	3344500.0	407720.0	3344469.0	407716.7	3344503.0	407719.2	3344477.0	407718.3	3344486.0	
624	0.4	0.0	0.2	0.1	-2.1	-0.2	-0.3	1.1	0.4	-0.4	624	407767.8	3344494.0	407770.1	3344470.0	407766.8	3344503.0	407769.1	3344481.0	407767.9	3344492.0	
625	0.3	-0.1	0.1	0.0	-2.1	-0.3	-0.3	0.9	0.2	-0.5	625	407818.5	3344489.0	407820.2	3344472.0	407817.2	3344502.0	407819.0	3344484.0	407817.7	3344497.0	
626	0.2	-0.2	0.0	-0.1	-1.9	-0.3	-0.4	0.8	0.1	-0.6	626	407869.2	3344485.0	407870.9	3344468.0	407866.9	3344508.0	407868.9	3344487.0	407867.5	3344501.0	
627	0.3	-0.3	0.0	-0.1	-2.5	-0.5	-0.5	0.9	0.1	-0.6	627	407919.1	3344488.0	407920.8	3344470.0	407916.8	3344511.0	407918.5	3344494.0	407917.5	3344505.0	
628	0.3	-0.3	-0.1	-0.1	-2.6	-0.6	-0.5	0.7	0.1	-0.5	628	407969.1	3344491.0	407971.0	3344471.0	407966.8	3344514.0	407968.5	3344496.0	407967.4	3344507.0	
629	0.3	-0.3	-0.1	-0.1	-2.7	-0.6	-0.6	0.8	0.1	-0.5	629	408019.1	3344493.0	408021.5	3344469.0	408016.9	3344515.0	408018.6	3344498.0	408017.5	3344509.0	
630	0.3	-0.3	0.0	-0.1	-2.9	-0.7	-0.6	0.7	0.1	-0.5	630	408069.2	3344494.0	408072.0	3344466.0	408068.7	3344520.0	408068.5	3344502.0	408067.6	3344511.0	
631	0.4	-0.3	-0.1	-0.1	-3.4	-0.9	-0.7	0.8	0.2	-0.4	631	408119.7	3344492.0	408121.8	3344471.0	408116.5	3344524.0	408118.0	3344509.0	408117.7	3344512.0	
632	0.3	-0.4	-0.2	-0.2	-3.4	-1.0	-0.7	0.7	0.3	-0.1	632	408170.1	3344490.0	408170.8	3344483.0	408166.5	3344526.0	408168.3	3344508.0	408167.8	3344514.0	
633	0.1	-0.4	-0.2	-0.2	-2.7	-0.6	-0.5	0.8	0.3	-0.2	633	408219.9	3344494.0	408221.1	3344483.0	408216.3	3344531.0	408218.8	3344507.0	408217.9	3344515.0	
634	0.2	-0.4	-0.1	-0.2	-3.0	-0.6	-0.5	1.1	0.3	-0.4	634	408269.6	3344501.0	408272.0	3344476.0	408266.1	3344536.0	408268.5	3344511.0	408267.9	3344517.0	
635	0.4	-0.4	-0.1	-0.1	-3.8	-0.9	-0.7	1.1	0.4	-0.3	635	408319.1	3344508.0	408322.8	3344471.0	408316.2	3344537.0	408318.9	3344510.0	408317.8	3344521.0	
636	0.5	-0.3	0.0	-0.1	-4.1	-1.0	-0.8	1.1	0.3	-0.5	636	408369.3	3344508.0	408373.5	3344466.0	408366.5	3344536.0	408369.1	3344511.0	408367.8	3344523.0	
637	0.6	-0.3	0.0	-0.1	-4.4	-1.1	-0.9	1.1	0.3	-0.5	637	408419.8	3344506.0	408424.0	3344464.0	408416.6	3344538.0	408419.3	3344510.0	408418.0	3344523.0	
638	0.6	-0.4	0.0	-0.1	-4.6	-1.2	-1.0	1.2	0.3	-0.6	638	408470.2	3344504.0	408473.2	3344474.0	408467.2	3344535.0	408469.6	3344511.0	408468.2	3344524.0	
639	0.4	-0.4	-0.1	-0.2	-3.8	-0.9	-0.8	1.0	0.2	-0.6	639	408520.6	3344503.0	408523.0	3344479.0	408517.8	3344530.0	408519.7	3344512.0	408518.2	3344527.0	
640	0.3	-0.3	-0.1	-0.2	-3.2	-0.8	-0.8	0.8	0.1	-0.7	640	408570.9	3344502.0	408572.9	3344482.0	408568.1	3344530.0	408569.8	3344514.0	408567.9	3344532.0	
641	0.3	-0.3	-0.1	-0.2	-3.0	-0.8	-0.8	0.7	0.0	-0.8	641	408621.1	3344503.0	408622.5	3344489.0	408618.6	3344528.0	408619.7	3344516.0	408617.9	3344535.0	
642	0.2	-0.3	-0.1	-0.2	-2.5	-0.7	-0.7	0.5	-0.1	-0.8	642	408671.2	3344504.0	408672.1	3344495.0	408668.8	3344528.0	408669.4	3344522.0	408668.0	3344536.0	
643	0.1	-0.3	-0.2	-0.2	-2.1	-0.7	-0.6	0.3	-0.2	-0.6	643	408721.5	3344503.0	408722.7	3344491.0	408718.6	3344532.0	408719.8	3344521.0	408717.9	3344539.0	
644	0.2	-0.3	-0.2	-0.3	-2.6	-0.8	-0.8	0.5	-0.1	-0.8	644	408771.8	3344503.0	408773.5	3344486.0	408768.9	3344532.0	408769.7	3344524.0	408767.9	3344543.0	
645	0.2	-0.3	-0.2	-0.3	-2.9	-1.0	-0.9	0.3	-0.2	-0.8	645	408822.1	3344503.0	408824.4	3344479.0	408819.2	3344532.0	408819.7	3344526.0	408817.9	3344544.0	
646	0.3	-0.3	-0.2	-0.3	-3.3	-1.2	-1.1	0.2	-0.3	-0.8	646	408872.6	3344500.0	408875.0	3344476.0	408869.2	3344534.0	408869.6	3344530.0	408868.2	3344545.0	
647	0.4	-0.4	-0.3	-0.3	-3.6	-1.4	-1.1	0.2	-0.2	-0.6	647	408922.9	3344499.0	408924.8	3344480.0	408919.8	3344530.0	408919.6	3344533.0	408918.3	3344546.0	
648	0.3	-0.4	-0.3	-0.4	-3.2	-1.4	-1.1	-0.1	-0.3	-0.6	648	408972.9	3344502.0	408974.8	3344482.0	408970.4	3344527.0	408969.8	3344532.0	408968.4	3344547.0	
649	0.3	-0.3	-0.3	-0.3	-2.8	-1.3	-1.0	-0.2	-0.4	-0.6	649	409022.9	3344505.0	409023.3	3344494.0	409020.8	3344526.0	409019.8	3344536.0	409018.5	3344548.0	
650	0.1	-0.3	-0.3	-0.3	-2.0	-1.1	-0.9	-0.4	-0.5	-0.5	650	409072.9	3344507.0	409073.3	3344503.0	409070.9	3344527.0	409070.0	3344536.0	409068.4	3344552.0	
651	0.1	-0.2	-0.3	-0.3	-1.5	-0.8	-0.8	-0.4	-0.5	-0.7	651	409123.3	3344505.0	409123.1	3344507.0	409121.1	3344527.0	409120.2	3344536.0	409118.3	3344556.0	
652	0.0	-0.3	-0.3	-0.4	-1.3	-0.8	-0.8	-0.4	-0.6	-0.8	652	409174.0	3344501.0	409173.7	3344504.0	409170.9	3344532.0	409170.7	3344534.0	409168.4	3344556.0	
653	0.0	-0.4	-0.3	-0.4	-1.7	-0.8	-0.8	-0.1	-0.5	-1.0	653	409224.8	3344495.0	409224.7	3344496.0	409220.7	3344537.0	409221.1	3344532.0	409218.9	3344554.0	
654	0.0	-0.5	-0.3	-0.5	-2.5	-0.9	-0.9	0.2	-0.4	-1.0	654	409275.3	3344492.0	409275.4	3344491.0	409270.7	3344539.0	409271.2	3344533.0	409269.2	3344554.0	
655	0.0	-0.5	-0.4	-0.5	-3.0	-1.1	-1.0	0.2	-0.3	-0.9	655	409325.6	3344492.0	409326.0	3344488.0	409320.7	3344541.0	409321.9	3344529.0	409319.3	3344555.0	
656	0.1	-0.6	-0.3	-0.5	-3.3	-1.1	-1.1	0.5	-0.3	-1.1	656	409375.5	3344495.0	409376.3	3344488.0	409370.6						

Transect #	High-Water Shoreline Position Change Rate										Transect #	High-Water Shoreline Position (UTM Zone 16, NAD 1983)											
	1847/67 to	1847/67 to	1847/67 to	1847/67 to	1917/18 to	1917/18 to	1917/18 to	1917/18 to	1934 to	1934 to		1957 to	1847/67		1917/18		1934		1957		1978/82		
	1917/18 (m/yr)	1934 (m/yr)	1957 (m/yr)	1978/82 (m/yr)	1934 (m/yr)	1957 (m/yr)	1978/82 (m/yr)	1978/82 (m/yr)	1957 (m/yr)	1978/82 (m/yr)		1978/82 (m/yr)	UTM-x (m)	UTM-y (m)	UTM-x (m)	UTM-y (m)	UTM-x (m)	UTM-y (m)	UTM-x (m)	UTM-y (m)	UTM-x (m)	UTM-y (m)	UTM-x (m)
683	0.2	-0.7	-0.3	-0.4	-4.6	-1.3	-1.1	1.0	0.1	-0.8	683	410731.8	3344498.0	410732.8	3344489.0	410726.0	3344558.0	410727.6	3344541.0	410725.9	3344558.0	410725.9	3344558.0
684	0.1	-0.7	-0.4	-0.5	-4.3	-1.3	-1.1	0.7	0.0	-0.7	684	410782.5	3344494.0	410783.2	3344487.0	410776.6	3344553.0	410777.9	3344541.0	410776.5	3344554.0	410776.5	3344554.0
685	0.1	-0.7	-0.4	-0.5	-4.2	-1.4	-1.1	0.5	0.0	-0.6	685	410833.4	3344488.0	410833.5	3344486.0	410827.0	3344552.0	410828.1	3344541.0	410826.9	3344553.0	410826.9	3344553.0
686	0.0	-0.8	-0.5	-0.5	-4.1	-1.4	-1.1	0.5	0.0	-0.5	686	410884.1	3344483.0	410884.0	3344484.0	410876.9	3344555.0	410878.3	3344542.0	410877.2	3344553.0	410877.2	3344553.0
687	0.0	-0.9	-0.5	-0.5	-4.5	-1.5	-1.1	0.6	0.0	-0.5	687	410934.7	3344480.0	410934.5	3344482.0	410927.7	3344550.0	410928.7	3344540.0	410927.4	3344552.0	410927.4	3344552.0
688	0.0	-0.8	-0.6	-0.6	-4.3	-1.5	-1.1	0.4	0.0	-0.5	688	410985.1	3344478.0	410984.5	3344484.0	410978.3	3344546.0	410979.0	3344540.0	410978.3	3344547.0	410978.3	3344547.0
689	-0.1	-0.8	-0.6	-0.5	-3.9	-1.4	-1.0	0.3	0.0	-0.3	689	411035.8	3344474.0	411034.7	3344485.0	411028.4	3344548.0	411029.3	3344538.0	411028.8	3344544.0	411028.8	3344544.0
690	-0.2	-0.9	-0.6	-0.5	-4.0	-1.4	-1.0	0.4	0.1	-0.2	690	411086.3	3344471.0	411085.0	3344483.0	411078.9	3344546.0	411079.9	3344535.0	411079.3	3344541.0	411079.3	3344541.0
691	-0.2	-0.9	-0.6	-0.5	-3.9	-1.3	-0.9	0.4	0.1	-0.2	691	411136.7	3344469.0	411136.3	3344473.0	411129.4	3344543.0	411130.4	3344533.0	411130.2	3344535.0	411130.2	3344535.0
692	-0.1	-0.9	-0.6	-0.5	-4.4	-1.5	-1.0	0.4	0.2	-0.1	692	411187.5	3344464.0	411187.8	3344461.0	411180.2	3344537.0	411181.2	3344527.0	411180.7	3344532.0	411180.7	3344532.0
693	0.0	-0.9	-0.6	-0.5	-4.8	-1.7	-1.1	0.4	0.1	-0.2	693	411238.2	3344459.0	411238.4	3344457.0	411230.7	3344535.0	411232.0	3344521.0	411231.3	3344529.0	411231.3	3344529.0
694	0.0	-0.9	-0.6	-0.5	-4.9	-1.6	-1.1	0.6	0.1	-0.3	694	411289.1	3344453.0	411288.9	3344454.0	411280.8	3344536.0	411282.6	3344518.0	411281.8	3344526.0	411281.8	3344526.0
695	0.0	-1.0	-0.6	-0.6	-5.1	-1.6	-1.1	0.8	0.2	-0.3	695	411340.0	3344446.0	411339.4	3344452.0	411331.0	3344536.0	411333.4	3344513.0	411332.0	3344526.0	411332.0	3344526.0
696	-0.1	-1.1	-0.6	-0.6	-5.3	-1.5	-1.2	1.0	0.2	-0.6	696	411390.4	3344444.0	411390.4	3344444.0	411381.3	3344536.0	411383.9	3344510.0	411382.5	3344524.0	411382.5	3344524.0
697	0.0	-1.1	-0.6	-0.6	-5.7	-1.7	-1.3	1.1	0.3	-0.6	697	411440.6	3344445.0	411441.9	3344431.0	411431.6	3344535.0	411434.5	3344506.0	411432.9	3344522.0	411432.9	3344522.0
698	0.2	-1.1	-0.6	-0.6	-6.5	-1.9	-1.5	1.3	0.3	-0.7	698	411490.7	3344446.0	411492.3	3344430.0	411482.4	3344530.0	411485.0	3344503.0	411483.4	3344520.0	411483.4	3344520.0
699	0.2	-1.0	-0.5	-0.6	-6.3	-1.9	-1.4	1.1	0.2	-0.7	699	411541.2	3344444.0	411543.4	3344421.0	411532.4	3344532.0	411535.9	3344497.0	411534.3	3344513.0	411534.3	3344513.0
700	0.3	-1.0	-0.5	-0.5	-7.0	-1.9	-1.5	1.5	0.4	-0.7	700	411591.6	3344442.0	411594.4	3344414.0	411582.9	3344530.0	411586.7	3344491.0	411584.8	3344511.0	411584.8	3344511.0
701	0.4	-1.0	-0.5	-0.5	-7.3	-2.0	-1.5	1.7	0.4	-0.8	701	411642.0	3344441.0	411644.2	3344418.0	411633.1	3344530.0	411636.8	3344493.0	411635.1	3344510.0	411635.1	3344510.0
702	0.3	-1.1	-0.5	-0.5	-7.0	-1.9	-1.5	1.6	0.4	-0.7	702	411692.7	3344436.0	411693.5	3344428.0	411683.6	3344528.0	411687.4	3344489.0	411685.8	3344505.0	411685.8	3344505.0
703	0.1	-1.1	-0.5	-0.5	-6.3	-1.6	-1.2	1.7	0.5	-0.7	703	411743.6	3344429.0	411743.5	3344431.0	411733.9	3344527.0	411737.7	3344488.0	411735.8	3344508.0	411735.8	3344508.0
704	0.0	-1.2	-0.5	-0.6	-6.1	-1.5	-1.2	1.7	0.4	-0.9	704	411794.5	3344423.0	411793.6	3344432.0	411784.3	3344526.0	411787.3	3344495.0	411785.9	3344510.0	411785.9	3344510.0
705	-0.1	-1.2	-0.7	-0.7	-5.9	-1.6	-1.2	1.3	0.3	-0.6	705	411845.3	3344418.0	411843.4	3344436.0	411834.6	3344525.0	411837.8	3344492.0	411836.3	3344509.0	411836.3	3344509.0
706	-0.3	-1.3	-0.7	-0.7	-5.6	-1.4	-1.2	1.4	0.3	-0.7	706	411895.8	3344414.0	411893.7	3344436.0	411885.0	3344524.0	411888.6	3344487.0	411886.8	3344505.0	411886.8	3344505.0
707	-0.3	-1.3	-0.7	-0.7	-5.5	-1.3	-1.1	1.6	0.4	-0.8	707	411946.0	3344415.0	411944.2	3344434.0	411935.5	3344521.0	411939.2	3344483.0	411937.3	3344503.0	411937.3	3344503.0
708	-0.3	-1.2	-0.6	-0.7	-5.5	-1.3	-1.1	1.6	0.4	-0.8	708	411996.5	3344413.0	411995.3	3344424.0	411986.6	3344513.0	411990.1	3344477.0	411987.5	3344503.0	411987.5	3344503.0
709	-0.2	-1.2	-0.6	-0.7	-5.6	-1.4	-1.3	1.5	0.2	-1.1	709	412047.0	3344410.0	412047.1	3344409.0	412037.1	3344510.0	412040.5	3344476.0	412038.2	3344499.0	412038.2	3344499.0
710	0.0	-1.2	-0.6	-0.7	-6.3	-1.7	-1.4	1.5	0.2	-1.0	710	412097.7	3344406.0	412098.2	3344401.0	412088.1	3344502.0	412091.0	3344473.0	412089.5	3344488.0	412089.5	3344488.0
711	0.1	-1.1	-0.6	-0.6	-6.4	-1.8	-1.4	1.3	0.3	-0.7	711	412147.8	3344406.0	412148.8	3344397.0	412138.5	3344501.0	412141.6	3344469.0	412140.5	3344481.0	412140.5	3344481.0
712	0.1	-1.1	-0.6	-0.6	-6.5	-1.8	-1.3	1.4	0.4	-0.5	712	412198.3	3344405.0	412199.4	3344393.0	412189.3	3344494.0	412192.3	3344465.0	412191.0	3344477.0	412191.0	3344477.0
713	0.2	-1.1	-0.6	-0.6	-6.4	-1.8	-1.4	1.3	0.4	-0.5	713	412248.9	3344401.0	412250.1	3344389.0	412240.5	3344486.0	412242.7	3344463.0	412241.3	3344478.0	412241.3	3344478.0
714	0.2	-1.0	-0.6	-0.6	-6.1	-1.9	-1.4	1.0	0.2	-0.6	714	412299.4	3344398.0	412300.6	3344387.0	412291.3	3344480.0	412293.2	3344461.0	412292.0	3344472.0	412292.0	3344472.0
715	0.2	-1.0	-0.6	-0.6	-5.8	-1.9	-1.4	0.8	0.2	-0.5	715	412349.8	3344397.0	412350.4	3344380.0	412341.9	3344476.0	412343.8	3344457.0	412342.8	3344468.0	412342.8	3344468.0
716	0.1	-0.9	-0.6	-0.5	-5.4	-1.7	-1.2	0.8	0.2	-0.5	716	412400.1	3344396.0	412401.1	3344386.0	412392.4	3344474.0	412394.3	3344455.0	412393.3	3344465.0	412393.3	3344465.0
717	0.1	-0.9	-0.5	-0.5	-5.5	-1.7	-1.3	0.8	0.2	-0.4	717	412450.6	3344394.0	412451.7	3344383.0	412442.4	3344476.0	412444.7	3344453.0	412443.9	3344461.0	412443.9	3344461.0
718	0.2	-1.0	-0.5	-0.5	-5.9	-1.8	-1.3	1.0	0.3	-0.3	718	412500.8	3344394.0	412501.6	3344387.0	412493.0	3344473.0	412495.0	3344452.0	412494.5	3344457.0	412494.5	3344457.0
719	0.1	-0.9	-0.5	-0.5	-5.4	-1.7	-1.1	0.9	0.3	-0.2	719	412550.8	3344396.0	412552.9	3344375.0	412543.7	3344468.0	412545.6	3344449.0	412544.7	3344458.0	412544.7	3344458.0
720	0.3	-0.9	-0.5	-0.5	-5.9	-1.9	-1.3	0.8	0.2	-0.4	720	412601.1	3344396.0	412605.0	3344357.0	412594.4	3344464.0	412596.3	3344444.0	412594.8	3344459.0	412594.8	3344459.0
721	0.6	-0.8	-0.4	-0.5	-6.7	-2.2	-1.6	0.8	0.1	-0.6	721	412651.6	3344393.0	412655.8	3344352.0	412645.0	3344459.0	412647.1	3344438.0	412645.5	3344455.0	412645.5	3344455.0
722	0.6	-0.8	-0.4	-0.5	-6.8	-2.2	-1.7	0.9	0.1	-0.7	722	412702.0	3344391.0	412705.7	3344355.0	412695.6	3344457.0	412697.8	3344435.0	412696.1	3344451.0	412696.1	3344451.0
723	0.5	-0.8	-0.4	-0.5	-6.4	-2.0	-1.5	1.0	0.1	-0.7	723	412752.4	3344391.0	412756.1	3344353.0	412746.0	3344455.0	412748.2	3344432.0	412746.9	3344446.0	412746.9	3344446.0
724	0.5	-0.8	-0.4	-0.4	-6.4	-2.0	-1.5	1.0	0.2	-0.6	724	412802.7	3344390.0	412807.3	3344343.0	412796.5	3344452.0	412798.8	3344429.0	412797.7	3344440.0	412797.7	3344440.0
725	0.7	-0.7	-0.4	-0.4	-6.8	-2.2	-1.6	1.0	0.3	-0.5	725	412853.3	3344387.0	412857.6	3344343.0	412847.0	3344450.0	412849.8	3344421.0	412848.3	3344437.0	412848.3	3344437.0
726	0.6	-0.7	-0.3	-0.4	-6.7	-2.0	-1.5	1.2	0.3	-0.7	726	412904.1	3344381.0	412906.9	3344352.0	412897.6	3344446.0	412900.5	3344417.0	412898.7	3344435.0	412898.7	3344435.0
727	0.4	-0.8	-0.3	-0.4	-5.9	-1.6	-1.3	1.3	0.3	-0.8	727	412954.9	3344375.0	412956.4	3344360.								

Transect #	High-Water Shoreline Position Change Rate										Transect #	High-Water Shoreline Position (UTM Zone 16, NAD 1983)										
	1847/67 to	1847/67 to	1847/67 to	1847/67 to	1917/18 to	1917/18 to	1917/18 to	1917/18 to	1934 to	1934 to		1957 to	1847/67		1917/18		1934		1957		1978/82	
	1917/18 (m/yr)	1934 (m/yr)	1957 (m/yr)	1978/82 (m/yr)	1934 (m/yr)	1957 (m/yr)	1978/82 (m/yr)	1978/82 (m/yr)	1957 (m/yr)	1978/82 (m/yr)		1978/82 (m/yr)	UTM-x (m)	UTM-y (m)	UTM-x (m)	UTM-y (m)	UTM-x (m)	UTM-y (m)	UTM-x (m)	UTM-y (m)	UTM-x (m)	UTM-y (m)
759	0.2	-0.8	-0.4	-0.5	-5.3	-1.6	-1.2	1.0	0.2	-0.5	759	414570.6	3344296.0	414571.9	3344283.0	414563.7	3344366.0	414565.9	3344344.0	414564.9	3344354.0	
760	0.2	-0.8	-0.4	-0.4	-5.2	-1.5	-1.1	0.9	0.3	-0.4	760	414620.9	3344295.0	414622.3	3344281.0	414614.3	3344362.0	414616.5	3344340.0	414615.6	3344349.0	
761	0.2	-0.8	-0.4	-0.4	-5.1	-1.5	-1.1	1.0	0.3	-0.4	761	414671.3	3344294.0	414672.6	3344281.0	414665.0	3344358.0	414667.1	3344336.0	414666.7	3344340.0	
762	0.2	-0.8	-0.4	-0.4	-4.8	-1.4	-1.0	0.9	0.4	-0.2	762	414721.9	3344290.0	414722.9	3344281.0	414716.0	3344350.0	414717.6	3344334.0	414717.9	3344331.0	
763	0.1	-0.7	-0.4	-0.3	-4.4	-1.4	-0.8	0.7	0.4	0.1	763	414772.6	3344286.0	414772.8	3344284.0	414766.8	3344344.0	414768.8	3344324.0	414769.0	3344322.0	
764	0.0	-0.7	-0.4	-0.3	-3.8	-1.0	-0.6	0.9	0.5	0.1	764	414823.2	3344283.0	414823.3	3344276.0	414818.1	3344334.0	414819.4	3344321.0	414819.8	3344317.0	
765	0.1	-0.6	-0.4	-0.3	-3.6	-1.1	-0.6	0.6	0.4	0.2	765	414873.6	3344281.0	414874.6	3344271.0	414868.5	3344332.0	414870.0	3344317.0	414870.8	3344308.0	
766	0.1	-0.6	-0.3	-0.2	-3.8	-1.2	-0.6	0.6	0.5	0.4	766	414924.0	3344279.0	414925.4	3344265.0	414919.1	3344329.0	414921.0	3344309.0	414921.8	3344301.0	
767	0.2	-0.6	-0.3	-0.2	-4.0	-1.1	-0.6	0.8	0.6	0.3	767	414974.5	3344277.0	414975.8	3344263.0	414970.2	3344320.0	414971.4	3344308.0	414971.8	3344304.0	
768	0.2	-0.5	-0.3	-0.2	-3.6	-1.1	-0.7	0.5	0.3	0.2	768	415024.9	3344275.0	415026.6	3344258.0	415020.8	3344316.0	415021.5	3344309.0	415021.6	3344308.0	
769	0.2	-0.5	-0.3	-0.3	-3.6	-1.3	-0.8	0.3	0.2	0.0	769	415075.3	3344274.0	415077.5	3344251.0	415071.6	3344311.0	415071.8	3344309.0	415071.7	3344310.0	
770	0.3	-0.4	-0.3	-0.3	-3.7	-1.5	-0.9	0.1	0.0	-0.1	770	415125.7	3344272.0	415128.6	3344243.0	415121.9	3344311.0	415122.6	3344303.0	415121.8	3344311.0	
771	0.4	-0.5	-0.3	-0.3	-4.3	-1.5	-1.1	0.3	0.0	-0.3	771	415176.2	3344270.0	415180.4	3344227.0	415172.4	3344308.0	415173.3	3344299.0	415172.2	3344310.0	
772	0.6	-0.5	-0.3	-0.3	-5.1	-1.8	-1.3	0.4	0.0	-0.5	772	415226.4	3344270.0	415231.7	3344217.0	415222.9	3344305.0	415224.2	3344292.0	415222.8	3344306.0	
773	0.8	-0.4	-0.2	-0.3	-5.5	-1.9	-1.4	0.6	0.0	-0.6	773	415276.6	3344271.0	415281.7	3344219.0	415273.3	3344303.0	415274.9	3344287.0	415274.3	3344294.0	
774	0.8	-0.4	-0.2	-0.2	-5.3	-1.7	-1.2	0.7	0.2	-0.3	774	415326.7	3344272.0	415331.7	3344221.0	415323.9	3344300.0	415325.8	3344280.0	415325.5	3344284.0	
775	0.7	-0.3	-0.1	-0.1	-5.0	-1.5	-1.0	0.9	0.4	-0.2	775	415377.1	3344270.0	415383.3	3344208.0	415374.9	3344293.0	415376.5	3344276.0	415376.4	3344278.0	
776	0.9	-0.3	-0.1	-0.1	-5.3	-1.7	-1.1	0.7	0.3	-0.1	776	415427.9	3344264.0	415435.2	3344192.0	415425.7	3344287.0	415427.1	3344273.0	415427.2	3344272.0	
777	1.1	-0.3	-0.1	-0.1	-6.0	-2.1	-1.3	0.6	0.3	0.0	777	415478.7	3344259.0	415485.9	3344187.0	415476.4	3344283.0	415477.5	3344271.0	415478.0	3344266.0	
778	1.1	-0.3	-0.1	-0.1	-6.0	-2.1	-1.3	0.5	0.4	0.2	778	415529.4	3344255.0	415535.6	3344192.0	415527.5	3344273.0	415528.4	3344265.0	415529.1	3344257.0	
779	0.9	-0.2	-0.1	0.0	-5.1	-1.9	-1.1	0.4	0.3	0.3	779	415580.0	3344251.0	415584.7	3344204.0	415578.2	3344269.0	415578.7	3344264.0	415580.0	3344251.0	
780	0.7	-0.2	-0.1	0.0	-4.1	-1.5	-0.8	0.2	0.4	0.6	780	415630.6	3344248.0	415635.2	3344201.0	415628.4	3344269.0	415629.3	3344261.0	415630.7	3344247.0	
781	0.7	-0.3	-0.1	0.0	-4.3	-1.5	-0.7	0.3	0.5	0.6	781	415681.1	3344245.0	415685.8	3344197.0	415678.9	3344267.0	415679.9	3344257.0	415681.2	3344244.0	
782	0.7	-0.3	-0.1	0.0	-4.4	-1.5	-0.7	0.5	0.5	0.6	782	415731.5	3344243.0	415735.8	3344200.0	415730.0	3344259.0	415730.7	3344251.0	415731.4	3344244.0	
783	0.6	-0.2	-0.1	0.0	-3.7	-1.3	-0.7	0.3	0.3	0.3	783	415781.7	3344244.0	415786.8	3344192.0	415780.6	3344255.0	415781.3	3344248.0	415782.0	3344241.0	
784	0.8	-0.1	0.0	0.0	-4.0	-1.4	-0.8	0.3	0.3	0.3	784	415832.1	3344242.0	415837.8	3344184.0	415831.3	3344251.0	415831.8	3344245.0	415832.6	3344238.0	
785	0.8	-0.1	0.0	0.0	-4.2	-1.6	-0.9	0.2	0.3	0.3	785	415882.5	3344240.0	415887.8	3344187.0	415881.3	3344253.0	415882.4	3344242.0	415883.2	3344234.0	
786	0.8	-0.1	0.0	0.0	-4.2	-1.4	-0.8	0.5	0.4	0.3	786	415932.9	3344239.0	415937.7	3344191.0	415932.0	3344248.0	415933.1	3344237.0	415933.6	3344233.0	
787	0.7	-0.1	0.0	0.1	-3.6	-1.2	-0.7	0.5	0.3	0.2	787	415983.1	3344240.0	415988.2	3344188.0	415982.5	3344246.0	415983.4	3344236.0	415983.5	3344236.0	
788	0.8	-0.1	0.0	0.0	-3.6	-1.2	-0.8	0.4	0.2	0.0	788	416033.4	3344239.0	416038.4	3344188.0	416032.8	3344246.0	416034.3	3344230.0	416033.8	3344235.0	
789	0.7	-0.1	0.1	0.0	-3.6	-1.1	-0.8	0.7	0.2	-0.2	789	416083.8	3344237.0	416089.1	3344184.0	416083.2	3344244.0	416084.7	3344229.0	416084.0	3344235.0	
790	0.8	-0.1	0.1	0.0	-3.8	-1.1	-0.8	0.7	0.2	-0.3	790	416134.3	3344234.0	416139.3	3344185.0	416133.4	3344244.0	416134.6	3344232.0	416134.3	3344235.0	
791	0.7	-0.1	0.0	0.0	-3.7	-1.2	-0.8	0.5	0.2	-0.1	791	416184.8	3344232.0	416188.4	3344196.0	416184.0	3344240.0	416184.8	3344232.0	416184.7	3344234.0	
792	0.5	-0.1	0.0	0.0	-2.7	-0.9	-0.6	0.3	0.1	-0.1	792	416235.3	3344230.0	416239.2	3344191.0	416234.1	3344241.0	416235.1	3344232.0	416234.9	3344234.0	
793	0.6	-0.1	0.0	0.0	-3.2	-1.1	-0.7	0.4	0.2	-0.1	793	416285.8	3344227.0	416290.0	3344185.0	416283.7	3344248.0	416285.4	3344231.0	416285.1	3344233.0	
794	0.6	-0.2	0.0	-0.1	-4.0	-1.2	-0.8	0.7	0.3	-0.1	794	416336.1	3344227.0	416340.7	3344180.0	416334.2	3344246.0	416335.8	3344230.0	416335.5	3344230.0	
795	0.7	-0.2	0.0	0.0	-4.1	-1.3	-0.8	0.7	0.3	-0.1	795	416386.5	3344225.0	416391.1	3344179.0	416384.7	3344243.0	416385.8	3344232.0	416386.0	3344230.0	
796	0.7	-0.2	-0.1	0.0	-4.0	-1.4	-0.8	0.5	0.3	0.1	796	416437.1	3344222.0	416441.3	3344179.0	416435.1	3344242.0	416435.8	3344234.0	416436.6	3344227.0	
797	0.6	-0.2	-0.1	0.0	-3.9	-1.4	-0.8	0.3	0.3	0.3	797	416487.5	3344220.0	416491.8	3344176.0	416485.5	3344241.0	416486.1	3344234.0	416487.1	3344224.0	
798	0.6	-0.2	-0.1	0.0	-4.1	-1.5	-0.8	0.3	0.4	0.4	798	416537.9	3344219.0	416541.7	3344180.0	416535.8	3344240.0	416537.2	3344226.0	416537.8	3344220.0	
799	0.6	-0.3	-0.1	0.0	-3.8	-1.2	-0.6	0.6	0.4	0.2	799	416588.3	3344217.0	416592.2	3344178.0	416586.2	3344239.0	416588.0	3344220.0	416588.4	3344215.0	
800	0.6	-0.3	0.0	0.0	-3.8	-1.1	-0.6	0.8	0.5	0.2	800	416638.8	3344214.0	416643.1	3344171.0	416636.6	3344236.0	416638.4	3344218.0	416639.3	3344209.0	
801	0.6	-0.3	0.0	0.0	-4.1	-1.2	-0.6	0.8	0.6	0.4	801	416689.3	3344212.0	416693.6	3344169.0	416687.0	3344235.0	416689.2	3344213.0	416689.7	3344207.0	
802	0.6	-0.3	0.0	0.0	-4.2	-1.1	-0.6	0.6	0.6	0.3	802	416739.7	3344210.0	416744.3	3344164.0	416737.3	3344235.0	416739.8	3344209.0	416739.9	3344208.0	
803	0.7	-0.3	0.0	0.0	-4.5	-1.2	-0.7	1.1	0.6	0.1	803	416790.2	3344208.0	416794.9	3344160.0	416787.3	3344237.0	416790.4	3344206.0	416790.4	3344206.0	
804	0.7	-0.3	0.0	0.0	-4.8	-1.2	-0.7	1.3	0.7	0.0	804	416840.7	3344205.0	416845.8	3344154.0	416837.8	3344234.0	416840.7	3344205.0	416840.3	3344209.0	
805	0.7	-0.3	0.0	0.0	-5.0	-1.3	-0.9	1.2	0.5	-0.1	805	416891.3	3344202.0	416896.4	3344151.0	416888.3	3344232.0	416891.1	3344203.0	416890.9	3344205.0	
806	0.7	-0.4	0.0	0.0	-5.1	-1.3	-0.9	1.2	0.6	-0.1	806	416941.9	3344198.0	416946.8	3344149.0	416938.9	3344228.0	416941.4	3344203.0	416942.0	3344197.0	
807	0.7	-0.4	0.0	0.0	-4.9	-1.4	-0.8	1.1	0.7	0.3	807	416992.5	3344195.0	416997.4	3344145.0	416989.5	3344224.0	416991.5	3344204.0	416992.5	3344194.0	
808	0.7	-0.4	-0.1	0.0	-5.0	-1.5	-0.8	0.9	0.6	0.4	808	417043.1	3344191.0	417048.0	3344141.0	41						

Transect #	High-Water Shoreline Position Change Rate										Transect #	High-Water Shoreline Position (UTM Zone 16, NAD 1983)										
	1847/67 to	1847/67 to	1847/67 to	1847/67 to	1917/18 to	1917/18 to	1917/18 to	1917/18 to	1934 to	1934 to		1957 to	1847/67		1917/18		1934		1957		1978/82	
	1917/18 (m/yr)	1934 (m/yr)	1957 (m/yr)	1978/82 (m/yr)	1934 (m/yr)	1957 (m/yr)	1978/82 (m/yr)	1957 (m/yr)	1978/82 (m/yr)	1957 (m/yr)		1978/82 (m/yr)	1978/82 (m/yr)	UTM-x (m)	UTM-y (m)	UTM-x (m)	UTM-y (m)	UTM-x (m)	UTM-y (m)	UTM-x (m)	UTM-y (m)	UTM-x (m)
835	1.2	-0.2	-0.2	-0.2	-6.4	-2.8	-1.8	-0.3	-0.3	-0.3	835	418405.3	3344135.0	418413.9	3344048.0	418403.3	3344155.0	418403.1	3344157.0	418402.4	3344164.0	
836	1.3	-0.2	-0.2	-0.2	-6.7	-2.8	-1.9	-0.1	-0.2	-0.3	836	418455.5	3344135.0	418464.3	3344047.0	418453.1	3344159.0	418453.9	3344152.0	418453.0	3344160.0	
837	1.3	-0.3	-0.2	-0.2	-7.1	-2.7	-1.8	0.3	0.0	-0.4	837	418506.0	3344133.0	418514.2	3344051.0	418503.7	3344156.0	418504.3	3344150.0	418503.6	3344157.0	
838	1.2	-0.3	-0.2	-0.2	-6.6	-2.5	-1.7	0.3	0.0	-0.3	838	418556.5	3344131.0	418564.3	3344051.0	418554.4	3344152.0	418555.0	3344145.0	418554.1	3344154.0	
839	1.2	-0.2	-0.1	-0.2	-6.3	-2.4	-1.6	0.3	-0.1	-0.4	839	418607.0	3344128.0	418614.4	3344053.0	418604.8	3344150.0	418605.3	3344145.0	418604.7	3344151.0	
840	1.1	-0.3	-0.2	-0.2	-6.1	-2.4	-1.6	0.2	0.0	-0.2	840	418657.5	3344125.0	418665.1	3344048.0	418654.7	3344154.0	418655.9	3344141.0	418654.9	3344151.0	
841	1.1	-0.3	-0.1	-0.2	-6.6	-2.4	-1.6	0.5	0.1	-0.4	841	418707.9	3344123.0	418716.6	3344036.0	418705.3	3344150.0	418706.1	3344142.0	418705.6	3344147.0	
842	1.3	-0.3	-0.2	-0.2	-7.2	-2.7	-1.8	0.4	0.1	-0.2	842	418758.1	3344124.0	418767.8	3344027.0	418755.2	3344153.0	418756.6	3344139.0	418756.2	3344143.0	
843	1.4	-0.3	-0.1	-0.1	-7.9	-2.9	-1.9	0.6	0.2	-0.2	843	418808.8	3344119.0	418817.4	3344032.0	418805.4	3344154.0	418807.0	3344138.0	418806.7	3344141.0	
844	1.3	-0.4	-0.2	-0.2	-7.6	-2.7	-1.7	0.7	0.3	-0.1	844	418859.6	3344114.0	418867.5	3344034.0	418855.9	3344151.0	418857.2	3344138.0	418856.6	3344144.0	
845	1.2	-0.4	-0.2	-0.2	-7.3	-2.7	-1.8	0.5	0.1	-0.3	845	418910.3	3344109.0	418918.2	3344030.0	418906.4	3344148.0	418907.3	3344139.0	418906.4	3344148.0	
846	1.2	-0.5	-0.3	-0.3	-7.5	-2.8	-1.9	0.4	0.0	-0.4	846	418960.9	3344106.0	418969.3	3344022.0	418957.2	3344143.0	418957.7	3344138.0	418957.1	3344144.0	
847	1.2	-0.4	-0.3	-0.3	-7.6	-3.0	-2.0	0.2	0.0	-0.2	847	419011.5	3344102.0	419018.7	3344029.0	419006.8	3344149.0	419008.1	3344136.0	419007.7	3344141.0	
848	1.1	-0.6	-0.3	-0.3	-7.5	-2.7	-1.8	0.6	0.2	-0.2	848	419062.1	3344098.0	419067.8	3344041.0	419057.3	3344147.0	419058.9	3344131.0	419058.1	3344139.0	
849	0.8	-0.6	-0.3	-0.3	-6.6	-2.3	-1.6	0.7	0.2	-0.3	849	419112.7	3344095.0	419118.3	3344039.0	419108.8	3344134.0	419109.6	3344127.0	419108.3	3344139.0	
850	0.8	-0.5	-0.3	-0.3	-6.0	-2.2	-1.6	0.3	-0.1	-0.5	850	419163.3	3344092.0	419168.5	3344039.0	419159.5	3344129.0	419160.0	3344125.0	419158.6	3344138.0	
851	0.8	-0.4	-0.3	-0.4	-5.7	-2.2	-1.6	0.2	-0.2	-0.6	851	419213.7	3344090.0	419219.0	3344037.0	419209.5	3344132.0	419210.6	3344121.0	419209.4	3344133.0	
852	0.8	-0.5	-0.3	-0.3	-6.0	-2.1	-1.5	0.5	0.0	-0.5	852	419264.0	3344090.0	419269.8	3344030.0	419259.8	3344131.0	419261.2	3344117.0	419261.0	3344128.0	
853	0.9	-0.5	-0.3	-0.3	-6.3	-2.2	-1.6	0.6	0.1	-0.5	853	419314.1	3344091.0	419319.8	3344033.0	419310.3	3344130.0	419311.5	3344117.0	419310.4	3344128.0	
854	0.8	-0.5	-0.2	-0.3	-6.1	-2.1	-1.5	0.5	0.0	-0.5	854	419364.5	3344089.0	419369.9	3344035.0	419360.4	3344130.0	419361.9	3344116.0	419360.8	3344127.0	
855	0.8	-0.5	-0.2	-0.3	-6.0	-2.1	-1.5	0.6	0.1	-0.5	855	419414.9	3344088.0	419420.7	3344029.0	419411.0	3344127.0	419412.3	3344114.0	419411.1	3344126.0	
856	0.9	-0.5	-0.2	-0.3	-6.1	-2.2	-1.6	0.5	0.0	-0.5	856	419465.3	3344086.0	419471.5	3344024.0	419461.5	3344125.0	419462.7	3344113.0	419461.8	3344122.0	
857	0.9	-0.5	-0.2	-0.3	-6.4	-2.3	-1.6	0.5	0.1	-0.4	857	419515.5	3344087.0	419522.4	3344017.0	419512.1	3344121.0	419512.9	3344112.0	419512.7	3344115.0	
858	1.0	-0.4	-0.2	-0.2	-6.5	-2.4	-1.6	0.4	0.1	-0.1	858	419565.6	3344088.0	419572.9	3344014.0	419562.5	3344120.0	419563.3	3344111.0	419562.9	3344116.0	
859	1.1	-0.4	-0.2	-0.2	-6.6	-2.5	-1.6	0.4	0.1	-0.2	859	419615.8	3344088.0	419622.6	3344020.0	419612.8	3344118.0	419613.7	3344110.0	419613.0	3344117.0	
860	1.0	-0.4	-0.2	-0.2	-6.1	-2.3	-1.5	0.4	0.0	-0.3	860	419666.1	3344088.0	419672.7	3344022.0	419663.2	3344117.0	419663.8	3344112.0	419663.3	3344116.0	
861	1.0	-0.3	-0.2	-0.2	-6.0	-2.3	-1.5	0.2	0.0	-0.2	861	419716.2	3344090.0	419722.8	3344023.0	419713.5	3344117.0	419713.5	3344118.0	419713.8	3344113.0	
862	1.0	-0.3	-0.3	-0.2	-5.9	-2.4	-1.4	-0.1	0.1	0.2	862	419766.2	3344092.0	419772.4	3344029.0	419763.6	3344118.0	419763.0	3344124.0	419763.9	3344115.0	
863	0.9	-0.3	-0.3	-0.2	-5.6	-2.4	-1.4	-0.3	0.1	0.4	863	419815.9	3344097.0	419822.3	3344033.0	419813.8	3344118.0	419813.3	3344123.0	419813.3	3344123.0	
864	0.9	-0.3	-0.2	-0.2	-5.3	-2.3	-1.4	-0.2	-0.1	0.0	864	419865.7	3344102.0	419872.5	3344033.0	419863.9	3344120.0	419863.6	3344123.0	419863.3	3344126.0	
865	1.0	-0.2	-0.2	-0.2	-5.5	-2.3	-1.5	-0.1	-0.1	-0.1	865	419915.7	3344105.0	419922.8	3344032.0	419914.0	3344121.0	419913.8	3344123.0	419912.9	3344132.0	
866	1.1	-0.2	-0.2	-0.2	-5.6	-2.3	-1.6	-0.1	-0.2	-0.4	866	419966.0	3344104.0	419973.5	3344029.0	419964.1	3344123.0	419964.4	3344120.0	419962.8	3344136.0	
867	1.1	-0.2	-0.1	-0.2	-5.9	-2.3	-1.7	0.2	-0.3	-0.7	867	420016.4	3344102.0	420023.4	3344031.0	420014.3	3344124.0	420014.7	3344119.0	420012.9	3344137.0	
868	1.0	-0.3	-0.2	-0.3	-5.8	-2.2	-1.7	0.2	-0.3	-0.8	868	420066.8	3344101.0	420073.1	3344037.0	420063.7	3344132.0	420064.6	3344122.0	420063.0	3344139.0	
869	0.9	-0.4	-0.2	-0.3	-6.0	-2.2	-1.6	0.4	-0.1	-0.7	869	420116.9	3344102.0	420123.2	3344039.0	420113.7	3344134.0	420114.7	3344124.0	420112.9	3344143.0	
870	0.9	-0.4	-0.2	-0.3	-6.0	-2.2	-1.7	0.4	-0.2	-0.8	870	420167.0	3344103.0	420173.5	3344038.0	420163.6	3344138.0	420164.7	3344127.0	420162.6	3344148.0	
871	1.0	-0.4	-0.2	-0.3	-6.3	-2.3	-1.8	0.5	-0.2	-0.9	871	420216.8	3344108.0	420223.9	3344036.0	420213.3	3344143.0	420215.0	3344127.0	420212.5	3344152.0	
872	1.0	-0.4	-0.2	-0.3	-6.7	-2.3	-1.9	0.7	-0.2	-1.1	872	420266.2	3344117.0	420274.7	3344031.0	420263.6	3344143.0	420265.1	3344128.0	420262.5	3344154.0	
873	1.2	-0.3	-0.1	-0.3	-7.0	-2.5	-2.0	0.7	-0.2	-1.1	873	420316.0	3344121.0	420325.7	3344024.0	420313.7	3344145.0	420314.9	3344133.0	420312.4	3344157.0	
874	1.4	-0.3	-0.1	-0.3	-7.6	-2.8	-2.1	0.5	-0.3	-1.0	874	420366.1	3344122.0	420376.0	3344023.0	420363.7	3344147.0	420364.8	3344135.0	420362.4	3344160.0	
875	1.4	-0.3	-0.1	-0.3	-7.8	-2.9	-2.2	0.5	-0.3	-1.0	875	420416.3	3344122.0	420425.3	3344033.0	420413.5	3344152.0	420414.3	3344143.0	420412.4	3344162.0	
876	1.3	-0.3	-0.2	-0.3	-7.5	-2.8	-2.1	0.4	-0.2	-1.0	876	420466.6	3344123.0	420474.9	3344039.0	420464.0	3344148.0	420464.5	3344144.0	420462.6	3344163.0	
877	1.2	-0.3	-0.2	-0.3	-6.9	-2.7	-2.0	0.2	-0.3	-0.8	877	420516.7	3344124.0	420525.5	3344036.0	420514.1	3344150.0	420514.8	3344143.0	420512.8	3344163.0	
878	1.3	-0.3	-0.2	-0.3	-7.2	-2.7	-2.0	0.3	-0.3	-0.9	878	420566.9	3344124.0	420575.4	3344039.0	420564.6	3344148.0	420564.9	3344144.0	420563.0	3344164.0	
879	1.2	-0.3	-0.2	-0.3	-6.9	-2.7	-2.0	0.2	-0.3	-0.9	879	420617.1	3344125.0	420624.6	3344050.0	420614.6	3344150.0	420615.1	3344145.0	420613.1	3344165.0	
880	1.1	-0.3	-0.2	-0.3	-6.3	-2.4	-1.8	0.2	-0.3	-0.9	880	420667.1	3344128.0	420673.9	3344059.0	420664.8	3344151.0	420665.5	3344144.0	420663.3	3344166.0	
881	1.0	-0.3	-0.1	-0.3	-5.8	-2.2	-1.7	0.3	-0.3	-1.0	881	420716.8	3344133.0	420724.2	3344058.0	420715.0	3344151.0	420715.3	3344148.0	420713.3	3344168.0	
882	1.1	-0.2	-0.1	-0.3	-5.8	-2.3	-1.8	0.1	-0.4	-0.9	882	420766.9	3344134.0	420774.2	3344061.0	420764.5	3344158.0	420765.1	3344152.0	420763.6	3344168.0	
883	1.1	-0.3	-0.2	-0.3	-6.1	-2.3	-1.7	0.2	-0.2	-0.7	883	420817.1	3344135.0	420823.7	3344068.0	420814.4	3344162.0	420815.1	3344155.0	420813.8	3344168.0	
884	1.0	-0.3	-0.2	-0.3	-5.9	-2.2	-1.6	0.3	-0.1	-0.6	884	420867.3	3344135.0	420872.9	3344079.0	420864.2						

Transect #	High-Water Shoreline Position Change Rate										Transect #	High-Water Shoreline Position (UTM Zone 16, NAD 1983)										
	1847/67 to	1847/67 to	1847/67 to	1847/67 to	1917/18 to	1917/18 to	1917/18 to	1917/18 to	1934 to	1934 to		1957 to	1847/67		1917/18		1934		1957		1978/82	
	1917/18 (m/yr)	1934 (m/yr)	1957 (m/yr)	1978/82 (m/yr)	1934 (m/yr)	1957 (m/yr)	1978/82 (m/yr)	1957 (m/yr)	1978/82 (m/yr)	1957 (m/yr)		1978/82 (m/yr)	1978/82 (m/yr)	UTM-x (m)	UTM-y (m)	UTM-x (m)	UTM-y (m)	UTM-x (m)	UTM-y (m)	UTM-x (m)	UTM-y (m)	UTM-x (m)
911	1.5	-0.3	-0.1	-0.3	-8.0	-2.9	-2.2	0.5	-0.2	-1.0	911	422210.5	3344270.0	422219.8	3344178.0	422208.1	3344295.0	422209.3	3344282.0	422207.1	3344305.0	
912	1.4	-0.3	-0.1	-0.3	-7.4	-2.7	-2.0	0.5	-0.2	-1.0	912	422260.3	3344276.0	422258.8	3344190.0	422258.0	3344298.0	422259.0	3344288.0	422257.3	3344305.0	
913	1.2	-0.3	-0.1	-0.2	-6.8	-2.5	-1.8	0.4	-0.2	-0.7	913	422309.9	3344281.0	422317.9	3344201.0	422308.0	3344301.0	422308.8	3344293.0	422307.6	3344304.0	
914	1.2	-0.2	-0.1	-0.2	-6.2	-2.3	-1.7	0.3	-0.1	-0.5	914	422359.7	3344286.0	422366.9	3344214.0	422358.0	3344303.0	422358.7	3344296.0	422358.0	3344304.0	
915	1.1	-0.2	-0.1	-0.1	-5.6	-2.1	-1.4	0.3	0.0	-0.3	915	422409.6	3344289.0	422416.0	3344225.0	422408.0	3344306.0	422408.6	3344299.0	422408.2	3344303.0	
916	0.9	-0.2	-0.1	-0.1	-5.1	-1.9	-1.3	0.3	0.1	-0.2	916	422459.5	3344293.0	422465.2	3344236.0	422457.6	3344312.0	422457.9	3344309.0	422458.5	3344303.0	
917	0.8	-0.2	-0.1	-0.1	-4.8	-1.9	-1.1	0.1	0.2	0.3	917	422509.3	3344297.0	422514.3	3344248.0	422507.6	3344314.0	422507.6	3344314.0	422508.6	3344305.0	
918	0.7	-0.2	-0.2	-0.1	-4.2	-1.7	-0.9	0.0	0.2	0.4	918	422559.1	3344302.0	422563.4	3344258.0	422557.2	3344321.0	422557.3	3344320.0	422557.7	3344316.0	
919	0.6	-0.2	-0.2	-0.1	-3.9	-1.6	-0.9	0.0	0.1	0.2	919	422608.9	3344306.0	422612.2	3344273.0	422606.3	3344332.0	422606.7	3344329.0	422606.7	3344328.0	
920	0.5	-0.3	-0.2	-0.2	-3.7	-1.4	-0.9	0.2	0.1	0.0	920	422658.8	3344310.0	422660.8	3344290.0	422655.9	3344340.0	422656.8	3344330.0	422655.8	3344340.0	
921	0.3	-0.4	-0.2	-0.2	-3.1	-1.0	-0.8	0.4	0.0	-0.4	921	422708.7	3344314.0	422709.5	3344306.0	422706.3	3344338.0	422706.5	3344336.0	422705.4	3344347.0	
922	0.1	-0.3	-0.2	-0.3	-2.0	-0.8	-0.7	0.1	-0.2	-0.5	922	422758.5	3344318.0	422759.1	3344312.0	422755.6	3344347.0	422756.3	3344340.0	422754.8	3344356.0	
923	0.1	-0.3	-0.2	-0.3	-2.2	-0.7	-0.7	0.3	-0.2	-0.7	923	422808.3	3344322.0	422809.1	3344315.0	422805.1	3344355.0	422805.6	3344350.0	422804.0	3344365.0	
924	0.1	-0.4	-0.3	-0.3	-2.5	-0.9	-0.8	0.2	-0.2	-0.7	924	422857.8	3344330.0	422858.9	3344319.0	422855.3	3344356.0	422854.7	3344361.0	422853.0	3344378.0	
925	0.2	-0.3	-0.3	-0.4	-2.3	-1.1	-1.0	-0.2	-0.5	-0.7	925	422907.4	3344337.0	422908.5	3344325.0	422905.3	3344358.0	422904.2	3344369.0	422902.0	3344391.0	
926	0.2	-0.3	-0.3	-0.4	-2.1	-1.1	-1.1	-0.5	-0.7	-1.0	926	422956.3	3344350.0	422958.8	3344324.0	422954.1	3344372.0	422953.8	3344375.0	422951.1	3344403.0	
927	0.4	-0.3	-0.2	-0.4	-3.0	-1.3	-1.3	-0.2	-0.7	-1.2	927	423005.6	3344360.0	423008.6	3344329.0	423003.3	3344383.0	423002.9	3344386.0	423000.1	3344415.0	
928	0.4	-0.3	-0.2	-0.4	-3.4	-1.5	-1.4	-0.1	-0.7	-1.2	928	423055.3	3344365.0	423057.9	3344338.0	423052.6	3344392.0	423052.4	3344394.0	423049.6	3344422.0	
929	0.4	-0.3	-0.3	-0.4	-3.4	-1.4	-1.3	-0.1	-0.6	-1.2	929	423105.0	3344370.0	423108.0	3344340.0	423101.8	3344402.0	423102.5	3344396.0	423099.2	3344429.0	
930	0.4	-0.4	-0.2	-0.4	-3.9	-1.4	-1.4	0.3	-0.6	-1.4	930	423154.6	3344377.0	423158.3	3344340.0	423151.4	3344410.0	423152.5	3344399.0	423148.8	3344435.0	
931	0.5	-0.4	-0.2	-0.4	-4.4	-1.5	-1.5	0.5	-0.5	-1.6	931	423204.3	3344382.0	423208.3	3344343.0	423200.6	3344420.0	423202.2	3344404.0	423198.5	3344441.0	
932	0.6	-0.4	-0.2	-0.5	-4.8	-1.6	-1.6	0.7	-0.5	-1.6	932	423253.8	3344391.0	423258.5	3344343.0	423249.8	3344430.0	423251.2	3344417.0	423248.1	3344448.0	
933	0.7	-0.5	-0.2	-0.4	-5.5	-1.9	-1.7	0.6	-0.4	-1.4	933	423303.4	3344397.0	423307.1	3344359.0	423299.5	3344436.0	423301.7	3344414.0	423297.7	3344454.0	
934	0.6	-0.5	-0.2	-0.4	-4.8	-1.4	-1.5	0.9	-0.4	-1.7	934	423353.0	3344403.0	423356.5	3344368.0	423348.8	3344445.0	423351.0	3344423.0	423347.3	3344460.0	
935	0.5	-0.5	-0.2	-0.4	-4.9	-1.4	-1.5	0.9	-0.3	-1.6	935	423402.7	3344409.0	423405.6	3344380.0	423397.8	3344458.0	423400.0	3344436.0	423397.0	3344466.0	
936	0.4	-0.6	-0.3	-0.4	-4.9	-1.4	-1.4	0.9	-0.2	-1.3	936	423452.4	3344414.0	423454.5	3344393.0	423447.7	3344462.0	423449.2	3344446.0	423446.7	3344472.0	
937	0.3	-0.6	-0.3	-0.4	-4.3	-1.4	-1.3	0.7	-0.2	-1.1	937	423502.1	3344420.0	423503.7	3344404.0	423497.7	3344464.0	423498.7	3344454.0	423496.3	3344478.0	
938	0.2	-0.5	-0.3	-0.4	-3.8	-1.3	-1.2	0.4	-0.3	-1.0	938	423551.8	3344425.0	423553.8	3344405.0	423547.2	3344472.0	423548.9	3344454.0	423546.0	3344483.0	
939	0.3	-0.6	-0.3	-0.4	-4.2	-1.3	-1.3	0.7	-0.2	-1.2	939	423601.3	3344433.0	423605.1	3344395.0	423596.5	3344481.0	423598.3	3344463.0	423595.9	3344487.0	
940	0.6	-0.6	-0.3	-0.4	-5.4	-1.7	-1.5	0.8	-0.1	-1.0	940	423650.6	3344442.0	423655.9	3344388.0	423645.9	3344490.0	423647.4	3344475.0	423645.8	3344490.0	
941	0.8	-0.6	-0.3	-0.4	-6.4	-2.2	-1.6	0.6	0.0	-0.7	941	423699.7	3344454.0	423705.1	3344399.0	423695.1	3344500.0	423697.1	3344480.0	423695.6	3344495.0	
942	0.8	-0.5	-0.2	-0.3	-6.3	-2.1	-1.5	0.9	0.1	-0.6	942	423748.9	3344464.0	423753.7	3344416.0	423744.7	3344507.0	423746.5	3344488.0	423745.4	3344500.0	
943	0.7	-0.5	-0.2	-0.3	-5.7	-1.8	-1.3	0.8	0.2	-0.5	943	423798.0	3344475.0	423802.4	3344431.0	423794.2	3344514.0	423795.4	3344502.0	423794.8	3344508.0	
944	0.6	-0.5	-0.2	-0.2	-5.2	-1.8	-1.2	0.5	0.1	-0.3	944	423847.2	3344487.0	423852.3	3344434.0	423843.3	3344525.0	423844.6	3344512.0	423844.2	3344517.0	
945	0.8	-0.5	-0.2	-0.2	-5.7	-2.0	-1.3	0.6	0.2	-0.2	945	423896.3	3344498.0	423903.2	3344428.0	423893.3	3344528.0	423894.4	3344517.0	423893.4	3344527.0	
946	1.0	-0.4	-0.2	-0.2	-6.3	-2.3	-1.6	0.5	0.0	-0.4	946	423945.6	3344507.0	423953.1	3344432.0	423942.7	3344536.0	423944.0	3344523.0	423942.9	3344535.0	
947	1.1	-0.3	-0.2	-0.2	-6.6	-2.3	-1.7	0.6	0.0	-0.5	947	423995.0	3344516.0	424003.3	3344433.0	423992.3	3344543.0	423994.3	3344523.0	423992.5	3344541.0	
948	1.2	-0.3	-0.1	-0.2	-6.9	-2.3	-1.7	0.8	0.0	-0.8	948	424044.5	3344524.0	424052.6	3344442.0	424041.6	3344552.0	424042.9	3344539.0	424042.2	3344547.0	
949	1.2	-0.3	-0.1	-0.2	-6.9	-2.5	-1.7	0.6	0.1	-0.3	949	424093.8	3344532.0	424102.3	3344447.0	424090.8	3344563.0	424092.3	3344548.0	424091.8	3344553.0	
950	1.2	-0.4	-0.1	-0.2	-7.3	-2.6	-1.7	0.7	0.2	-0.2	950	424143.1	3344542.0	424152.1	3344452.0	424140.2	3344572.0	424142.0	3344554.0	424141.5	3344558.0	
951	1.3	-0.4	-0.1	-0.1	-7.5	-2.6	-1.7	0.8	0.3	-0.2	951	424192.4	3344552.0	424201.8	3344457.0	424189.8	3344578.0	424191.6	3344560.0	424191.3	3344563.0	
952	1.4	-0.3	-0.1	-0.1	-7.6	-2.6	-1.7	0.8	0.3	-0.1	952	424241.6	3344562.0	424251.0	3344468.0	424239.1	3344588.0	424240.8	3344571.0	424241.1	3344568.0	
953	1.4	-0.3	-0.1	0.0	-7.5	-2.6	-1.6	0.7	0.4	0.1	953	424290.8	3344574.0	424299.9	3344481.0	424288.3	3344599.0	424289.6	3344585.0	424290.6	3344575.0	
954	1.4	-0.3	-0.1	0.0	-7.4	-2.7	-1.5	0.6	0.5	0.4	954	424339.9	3344585.0	424348.8	3344494.0	424337.8	3344606.0	424339.7	3344586.0	424339.9	3344584.0	
955	1.3	-0.3	0.0	0.0	-7.0	-2.3	-1.4	0.8	0.5	0.1	955	424389.3	3344593.0	424397.5	3344511.0	424387.0	3344616.0	424388.9	3344597.0	424389.3	3344593.0	
956	1.2	-0.3	0.0	0.0	-6.6	-2.2	-1.3	0.8	0.5	0.2	956	424438.4	3344605.0	424446.1	3344527.0	424436.7	3344622.0	424437.8	3344611.0	424438.7	3344601.0	
957	1.1	-0.2	-0.1	0.0	-6.0	-2.1	-1.2	0.5	0.4	0.4	957	424487.6	3344615.0	424494.8	3344542.0	424486.1	3344630.0	424487.1	3344621.0	424488.2	3344610.0	
958	1.1	-0.2	0.0	0.0	-5.5	-2.0	-1.1	0.4	0.4	0.5	958	424536.6	3344628.0	424544.1	3344552.0	424535.4	3344640.0	424536.8	3344625.0	424537.3	3344621.0	
959	1.1	-0.1	0.0	0.1	-5.5	-1.9	-1.1	0.6	0.4	0.2	959	424585.7	3344640.0	424593.1	3344565.0	424585.3	3344644.0	424586.1	3344635.0	424586.3	3344633.0	
960	1.1	0.0	0.0	0.1	-4.9	-1.8	-1.1	0.4	0.2	0.1	960	424634.8	3344651.0	424642.0	3344579.0	424634.8						

Transect #	High-Water Shoreline Position Change Rate										Transect #	High-Water Shoreline Position (UTM Zone 16, NAD 1983)										
	1847/67 to	1847/67 to	1847/67 to	1847/67 to	1917/18 to	1917/18 to	1917/18 to	1917/18 to	1934 to	1934 to		1957 to	1847/67		1917/18		1934		1957		1978/82	
	1917/18 (m/yr)	1934 (m/yr)	1957 (m/yr)	1978/82 (m/yr)	1934 (m/yr)	1957 (m/yr)	1978/82 (m/yr)	1978/82 (m/yr)	1957 (m/yr)	1978/82 (m/yr)		1978/82 (m/yr)	UTM-x (m)	UTM-y (m)	UTM-x (m)	UTM-y (m)	UTM-x (m)	UTM-y (m)	UTM-x (m)	UTM-y (m)	UTM-x (m)	UTM-y (m)
987	1.0	-0.3	-0.1	-0.1	-5.8	-2.2	-1.2	0.3	0.3	0.3	987	425966.8	3344899.0	425974.0	3344826.0	425964.4	3344923.0	425965.6	3344911.0	425965.7	3344910.0	
988	1.1	-0.3	-0.1	-0.1	-6.1	-2.2	-1.4	0.5	0.3	0.0	988	426015.6	3344914.0	426023.7	3344832.0	426013.2	3344938.0	426014.9	3344921.0	426014.7	3344922.0	
989	1.2	-0.3	-0.1	-0.1	-6.7	-2.3	-1.5	0.8	0.3	-0.1	989	426064.3	3344929.0	426072.8	3344844.0	426062.3	3344949.0	426064.0	3344932.0	426063.9	3344933.0	
990	1.2	-0.2	0.0	0.0	-6.6	-2.2	-1.4	0.8	0.3	0.0	990	426113.5	3344939.0	426121.2	3344862.0	426111.9	3344956.0	426112.9	3344945.0	426113.0	3344944.0	
991	1.1	-0.2	-0.1	0.0	-5.9	-2.1	-1.3	0.4	0.2	-0.1	991	426162.9	3344948.0	426169.7	3344880.0	426161.6	3344961.0	426162.8	3344949.0	426162.1	3344956.0	
992	1.0	-0.2	0.0	-0.1	-5.1	-1.8	-1.2	0.5	0.1	-0.3	992	426212.3	3344957.0	426218.3	3344896.0	426211.0	3344970.0	426211.8	3344961.0	426211.1	3344969.0	
993	0.9	-0.2	0.0	-0.1	-4.6	-1.7	-1.2	0.4	0.0	-0.3	993	426261.5	3344967.0	426267.8	3344904.0	426260.3	3344980.0	426261.4	3344968.0	426260.1	3344981.0	
994	0.9	-0.1	0.0	-0.1	-4.8	-1.6	-1.2	0.5	0.0	-0.6	994	426310.7	3344977.0	426317.1	3344913.0	426309.4	3344991.0	426310.5	3344980.0	426309.1	3344994.0	
995	0.9	-0.2	0.0	-0.1	-4.9	-1.7	-1.3	0.5	-0.1	-0.6	995	426360.0	3344988.0	426365.6	3344931.0	426358.8	3344999.0	426360.2	3344985.0	426358.2	3345005.0	
996	0.8	-0.1	0.0	-0.1	-4.3	-1.4	-1.2	0.6	-0.1	-0.9	996	426409.2	3344998.0	426414.4	3344946.0	426407.5	3345014.0	426409.6	3344994.0	426407.4	3345016.0	
997	0.8	-0.2	0.0	-0.1	-4.3	-1.2	-1.1	0.9	0.0	-1.0	997	426458.3	3345009.0	426464.3	3344949.0	426456.8	3345024.0	426458.7	3345006.0	426456.8	3345025.0	
998	0.9	-0.2	0.0	-0.1	-4.7	-1.4	-1.2	0.8	0.0	-0.8	998	426507.6	3345019.0	426513.8	3344957.0	426505.8	3345037.0	426507.8	3345017.0	426506.3	3345032.0	
999	0.9	-0.2	0.0	-0.1	-5.0	-1.5	-1.2	0.8	0.1	-0.6	999	426556.9	3345029.0	426562.7	3344970.0	426555.2	3345045.0	426556.6	3345032.0	426555.8	3345040.0	
1000	0.8	-0.2	0.0	-0.1	-4.7	-1.6	-1.1	0.6	0.1	-0.3	1000	426606.2	3345038.0	426610.9	3344990.0	426604.3	3345057.0	426605.5	3345045.0	426605.3	3345047.0	
1001	0.7	-0.2	-0.1	-0.1	-4.2	-1.4	-0.9	0.5	0.2	-0.1	1001	426655.4	3345048.0	426659.0	3345012.0	426653.8	3345065.0	426654.5	3345058.0	426654.8	3345055.0	
1002	0.5	-0.2	-0.1	-0.1	-3.3	-1.2	-0.7	0.3	0.2	0.1	1002	426704.7	3345058.0	426707.4	3345031.0	426703.1	3345074.0	426703.0	3345075.0	426704.5	3345060.0	
1003	0.4	-0.2	-0.2	0.0	-2.7	-1.1	-0.5	0.0	0.3	0.6	1003	426753.9	3345068.0	426756.2	3345046.0	426752.7	3345081.0	426752.4	3345083.0	426754.1	3345066.0	
1004	0.3	-0.2	-0.1	0.0	-2.2	-1.0	-0.3	-0.1	0.3	0.7	1004	426803.2	3345078.0	426805.4	3345055.0	426801.7	3345094.0	426802.2	3345088.0	426803.6	3345074.0	
1005	0.3	-0.2	-0.1	0.0	-2.4	-0.8	-0.3	0.2	0.4	0.6	1005	426852.8	3345085.0	426854.7	3345065.0	426850.8	3345105.0	426852.3	3345089.0	426852.8	3345084.0	
1006	0.3	-0.2	0.0	0.0	-2.5	-0.6	-0.3	0.7	0.4	0.2	1006	426902.8	3345088.0	426904.1	3345074.0	426900.0	3345115.0	426902.1	3345094.0	426901.9	3345096.0	
1007	0.2	-0.3	-0.1	-0.1	-2.5	-0.5	-0.4	0.9	0.4	-0.1	1007	426952.6	3345092.0	426953.4	3345083.0	426949.9	3345119.0	426951.6	3345102.0	426950.9	3345109.0	
1008	0.1	-0.3	-0.1	-0.1	-2.2	-0.5	-0.4	0.7	0.2	-0.3	1008	427002.5	3345095.0	427003.3	3345087.0	426999.3	3345127.0	427000.6	3345114.0	426999.8	3345122.0	
1009	0.1	-0.4	-0.2	-0.2	-2.5	-0.7	-0.6	0.6	0.1	-0.3	1009	427052.4	3345099.0	427053.4	3345089.0	427049.0	3345132.0	427050.5	3345115.0	427048.5	3345138.0	
1010	0.1	-0.4	-0.2	-0.3	-2.7	-0.7	-0.8	0.6	-0.1	-0.9	1010	427101.8	3345107.0	427103.2	3345093.0	427098.5	3345140.0	427100.0	3345125.0	427097.1	3345154.0	
1011	0.2	-0.4	-0.2	-0.4	-2.9	-0.8	-1.0	0.6	-0.3	-1.3	1011	427151.1	3345117.0	427152.8	3345099.0	427148.5	3345143.0	427149.0	3345138.0	427146.0	3345168.0	
1012	0.3	-0.3	-0.2	-0.4	-2.7	-1.0	-1.1	0.2	-0.5	-1.3	1012	427200.6	3345124.0	427202.5	3345105.0	427198.1	3345150.0	427197.8	3345152.0	427194.8	3345182.0	
1013	0.3	-0.3	-0.3	-0.4	-2.8	-1.2	-1.2	-0.1	-0.7	-1.3	1013	427249.8	3345135.0	427251.7	3345115.0	427247.2	3345161.0	427246.8	3345164.0	427244.1	3345192.0	
1014	0.3	-0.3	-0.3	-0.4	-2.8	-1.2	-1.2	-0.2	-0.7	-1.2	1014	427298.8	3345147.0	427300.9	3345126.0	427296.2	3345173.0	427296.4	3345171.0	427293.6	3345199.0	
1015	0.3	-0.3	-0.2	-0.4	-3.0	-1.2	-1.2	0.1	-0.6	-1.2	1015	427347.8	3345159.0	427350.8	3345130.0	427345.2	3345186.0	427345.4	3345184.0	427343.0	3345208.0	
1016	0.4	-0.3	-0.2	-0.4	-3.5	-1.4	-1.3	0.1	-0.5	-1.1	1016	427397.2	3345168.0	427401.1	3345129.0	427394.6	3345195.0	427393.9	3345201.0	427392.1	3345219.0	
1017	0.6	-0.3	-0.3	-0.4	-4.1	-1.8	-1.4	-0.3	-0.5	-0.8	1017	427447.0	3345172.0	427451.5	3345128.0	427444.1	3345202.0	427442.8	3345215.0	427441.3	3345230.0	
1018	0.7	-0.4	-0.4	-0.4	-4.7	-2.2	-1.6	-0.5	-0.6	-0.7	1018	427496.9	3345176.0	427501.5	3345130.0	427492.8	3345218.0	427492.3	3345223.0	427490.4	3345241.0	
1019	0.7	-0.5	-0.4	-0.5	-5.5	-2.4	-1.8	-0.2	-0.5	-0.8	1019	427546.3	3345184.0	427551.1	3345136.0	427542.1	3345227.0	427541.7	3345231.0	427539.6	3345252.0	
1020	0.7	-0.5	-0.4	-0.5	-5.7	-2.4	-1.9	-0.2	-0.6	-0.9	1020	427595.7	3345193.0	427600.0	3345150.0	427591.4	3345236.0	427591.6	3345235.0	427588.8	3345263.0	
1021	0.6	-0.5	-0.4	-0.5	-5.4	-2.2	-1.8	0.1	-0.6	-1.2	1021	427645.2	3345201.0	427648.8	3345165.0	427640.8	3345245.0	427641.2	3345242.0	427638.1	3345272.0	
1022	0.5	-0.5	-0.4	-0.5	-5.0	-2.0	-1.7	0.1	-0.6	-1.3	1022	427695.1	3345204.0	427697.7	3345178.0	427690.3	3345253.0	427691.6	3345240.0	427687.8	3345278.0	
1023	0.4	-0.6	-0.3	-0.6	-4.7	-1.6	-1.6	0.6	-0.5	-1.7	1023	427744.8	3345210.0	427746.7	3345191.0	427740.0	3345258.0	427740.8	3345250.0	427737.8	3345280.0	
1024	0.3	-0.6	-0.4	-0.5	-4.2	-1.5	-1.4	0.4	-0.5	-1.3	1024	427794.5	3345215.0	427795.7	3345203.0	427789.4	3345267.0	427790.2	3345259.0	427787.7	3345283.0	
1025	0.2	-0.6	-0.4	-0.5	-4.0	-1.4	-1.3	0.4	-0.4	-1.1	1025	427844.1	3345222.0	427844.9	3345214.0	427838.7	3345276.0	427839.3	3345270.0	427837.6	3345287.0	
1026	0.1	-0.6	-0.4	-0.5	-3.9	-1.4	-1.2	0.2	-0.2	-0.7	1026	427893.3	3345232.0	427894.3	3345222.0	427888.0	3345285.0	427888.8	3345277.0	427887.5	3345290.0	
1027	0.1	-0.6	-0.4	-0.4	-4.0	-1.4	-1.1	0.3	-0.1	-0.6	1027	427942.7	3345241.0	427943.2	3345236.0	427937.3	3345295.0	427937.8	3345291.0	427937.1	3345297.0	
1028	0.1	-0.6	-0.5	-0.4	-3.7	-1.4	-1.0	0.2	-0.1	-0.3	1028	427992.3	3345247.0	427992.0	3345250.0	427986.7	3345304.0	427987.1	3345299.0	427986.6	3345304.0	
1029	-0.1	-0.7	-0.5	-0.4	-3.4	-1.2	-0.9	0.2	0.0	-0.2	1029	428042.1	3345252.0	428040.8	3345264.0	428036.3	3345310.0	428037.1	3345302.0	428035.9	3345314.0	
1030	-0.2	-0.7	-0.5	-0.5	-2.9	-1.0	-0.8	0.4	-0.1	-0.5	1030	428091.5	3345260.0	428089.8	3345277.0	428085.5	3345321.0	428085.6	3345320.0	428085.1	3345325.0	
1031	-0.2	-0.7	-0.6	-0.5	-2.8	-1.1	-0.8	0.0	-0.1	-0.2	1031	428140.8	3345270.0	428138.7	3345291.0	428134.7	3345332.0	428134.5	3345333.0	428134.5	3345333.0	
1032	-0.3	-0.7	-0.6	-0.5	-2.6	-1.1	-0.7	-0.1	0.0	0.0	1032	428190.1	3345280.0	428188.0	3345300.0	428183.8	3345342.0	428184.6	3345335.0	428184.2	3345338.0	
1033	-0.3	-0.7	-0.5	-0.4	-2.7	-0.9	-0.6	0.3	0.1	-0.2	1033	428239.4	3345288.0	428237.9	3345304.0	428232.9	3345354.0	428233.7	3345346.0	428234.0	3345343.0	
1034	-0.2	-0.8	-0.5	-0.4	-3.2	-1.1	-0.6	0.4	0.2	0.1	1034	428289.3	3345292.0	428288.1	3345305.0	428282.3	3345363.0	428283.3	3345353.0	428283.8	3345347.0	
1035	-0.2	-0.8	-0.6	-0.4	-3.7	-1.2	-0.7	0.4	0.3	0.3	1035	428339.2	3345296.0	428338.0	3345307.0	428331.7	3345372.0	428332.5	3345363.0	428333.7	3345351.0	
1036	-0.2	-0.9	-0.6	-0.4	-4.0	-1.4	-0.7	0.4	0.5													

Transect #	High-Water Shoreline Position Change Rate										Transect #	High-Water Shoreline Position (UTM Zone 16, NAD 1983)										
	1847/67 to	1847/67 to	1847/67 to	1847/67 to	1917/18 to	1917/18 to	1917/18 to	1917/18 to	1934 to	1934 to		1957 to	1847/67		1917/18		1934		1957		1978/82	
	1917/18 (m/yr)	1934 (m/yr)	1957 (m/yr)	1978/82 (m/yr)	1934 (m/yr)	1957 (m/yr)	1978/82 (m/yr)	1978/82 (m/yr)	1957 (m/yr)	1978/82 (m/yr)		1978/82 (m/yr)	UTM-x (m)	UTM-y (m)	UTM-x (m)	UTM-y (m)	UTM-x (m)	UTM-y (m)	UTM-x (m)	UTM-y (m)	UTM-x (m)	UTM-y (m)
1063	0.2	-0.3	-0.3	-0.4	-2.5	-1.1	-1.1	-0.2	-0.6	-1.0	1063	429723.3	3345525.0	429725.4	3345504.0	429721.3	3345546.0	429719.8	3345561.0	429718.4	3345575.0	
1064	0.3	-0.2	-0.3	-0.4	-2.7	-1.5	-1.1	-0.6	-0.6	-0.6	1064	429772.6	3345535.0	429776.0	3345500.0	429770.9	3345552.0	429769.7	3345564.0	429767.8	3345583.0	
1065	0.5	-0.2	-0.3	-0.4	-3.3	-1.6	-1.3	-0.5	-0.7	-0.8	1065	429821.9	3345544.0	429826.1	3345502.0	429820.5	3345559.0	429819.2	3345572.0	429817.2	3345592.0	
1066	0.6	-0.2	-0.3	-0.4	-3.5	-1.8	-1.4	-0.6	-0.7	-0.9	1066	429871.7	3345549.0	429875.4	3345512.0	429870.0	3345566.0	429867.9	3345587.0	429866.7	3345599.0	
1067	0.5	-0.2	-0.4	-0.4	-3.4	-1.9	-1.4	-0.9	-0.7	-0.5	1067	429921.4	3345554.0	429924.8	3345520.0	429919.3	3345575.0	429917.9	3345589.0	429916.5	3345604.0	
1068	0.5	-0.3	-0.3	-0.4	-3.5	-1.8	-1.3	-0.6	-0.6	-0.6	1068	429970.9	3345562.0	429974.2	3345529.0	429968.8	3345583.0	429967.6	3345595.0	429966.3	3345609.0	
1069	0.5	-0.2	-0.3	-0.4	-3.4	-1.7	-1.3	-0.5	-0.5	-0.6	1069	430020.0	3345573.0	430023.9	3345534.0	430018.3	3345590.0	430016.6	3345607.0	430016.1	3345613.0	
1070	0.6	-0.2	-0.3	-0.3	-3.5	-1.9	-1.3	-0.7	-0.5	-0.2	1070	430069.4	3345582.0	430073.3	3345542.0	430068.6	3345590.0	430066.4	3345612.0	430065.8	3345618.0	
1071	0.6	-0.1	-0.3	-0.3	-3.0	-1.8	-1.2	-0.9	-0.6	-0.3	1071	430119.0	3345588.0	430123.0	3345548.0	430118.0	3345598.0	430115.8	3345621.0	430115.6	3345623.0	
1072	0.6	-0.1	-0.3	-0.3	-3.2	-1.9	-1.2	-1.0	-0.5	-0.1	1072	430168.6	3345595.0	430172.8	3345552.0	430167.4	3345607.0	430165.6	3345625.0	430165.3	3345628.0	
1073	0.6	-0.1	-0.3	-0.3	-3.5	-1.9	-1.2	-0.8	-0.4	-0.1	1073	430218.2	3345601.0	430222.8	3345555.0	430216.8	3345615.0	430214.8	3345635.0	430215.4	3345630.0	
1074	0.7	-0.2	-0.3	-0.2	-3.7	-2.0	-1.2	-0.9	-0.3	0.2	1074	430267.8	3345608.0	430272.7	3345559.0	430266.3	3345623.0	430264.6	3345640.0	430265.5	3345631.0	
1075	0.7	-0.2	-0.3	-0.2	-4.0	-2.1	-1.1	-0.8	-0.2	0.4	1075	430317.4	3345614.0	430322.1	3345567.0	430315.8	3345631.0	430314.8	3345641.0	430315.8	3345631.0	
1076	0.7	-0.2	-0.2	-0.1	-4.0	-1.9	-1.0	-0.4	0.0	0.4	1076	430367.2	3345619.0	430371.0	3345581.0	430364.9	3345642.0	430364.9	3345642.0	430365.5	3345636.0	
1077	0.6	-0.3	-0.2	-0.1	-3.8	-1.6	-0.9	0.0	0.1	0.3	1077	430416.9	3345625.0	430419.7	3345596.0	430414.3	3345650.0	430414.0	3345653.0	430415.2	3345642.0	
1078	0.4	-0.3	-0.3	-0.1	-3.4	-1.5	-0.7	-0.1	0.2	0.5	1078	430466.6	3345630.0	430468.5	3345611.0	430463.9	3345657.0	430464.1	3345655.0	430463.9	3345657.0	
1079	0.3	-0.3	-0.2	-0.2	-2.9	-1.1	-0.7	0.1	0.0	-0.1	1079	430516.3	3345635.0	430518.1	3345617.0	430513.6	3345663.0	430513.9	3345660.0	430512.8	3345670.0	
1080	0.3	-0.3	-0.2	-0.3	-2.9	-1.1	-0.8	0.1	-0.2	-0.4	1080	430566.1	3345640.0	430568.1	3345619.0	430562.8	3345673.0	430562.9	3345672.0	430562.2	3345679.0	
1081	0.3	-0.4	-0.3	-0.3	-3.4	-1.3	-1.0	0.0	-0.1	-0.3	1081	430615.9	3345645.0	430618.9	3345614.0	430612.4	3345680.0	430612.2	3345682.0	430611.8	3345686.0	
1082	0.4	-0.4	-0.3	-0.3	-4.1	-1.7	-1.1	-0.1	-0.1	-0.2	1082	430665.9	3345647.0	430669.3	3345613.0	430661.9	3345687.0	430662.4	3345682.0	430662.1	3345685.0	
1083	0.5	-0.5	-0.3	-0.3	-4.6	-1.8	-1.2	0.2	0.0	-0.2	1083	430715.9	3345649.0	430717.8	3345630.0	430711.4	3345694.0	430711.7	3345691.0	430712.3	3345686.0	
1084	0.3	-0.5	-0.4	-0.3	-4.0	-1.6	-0.9	0.1	0.2	0.2	1084	430765.8	3345653.0	430767.1	3345640.0	430761.3	3345698.0	430761.4	3345697.0	430762.2	3345689.0	
1085	0.2	-0.5	-0.4	-0.3	-3.7	-1.5	-0.8	0.0	0.2	0.4	1085	430816.1	3345653.0	430817.5	3345638.0	430811.1	3345702.0	430811.3	3345701.0	430812.1	3345692.0	
1086	0.2	-0.6	-0.4	-0.3	-4.1	-1.6	-0.9	0.0	0.2	0.4	1086	430866.3	3345653.0	430868.2	3345633.0	430860.9	3345707.0	430860.7	3345709.0	430862.0	3345696.0	
1087	0.3	-0.6	-0.5	-0.3	-4.6	-1.9	-1.0	-0.1	0.3	0.6	1087	430916.6	3345652.0	430917.6	3345642.0	430911.1	3345708.0	430910.9	3345709.0	430911.7	3345702.0	
1088	0.1	-0.7	-0.5	-0.4	-4.1	-1.7	-1.0	-0.1	0.1	0.3	1088	430966.8	3345653.0	430969.6	3345652.0	430960.2	3345719.0	430960.8	3345713.0	430961.3	3345709.0	
1089	0.0	-0.8	-0.6	-0.4	-4.3	-1.6	-0.9	0.3	0.2	0.2	1089	431016.8	3345655.0	431015.7	3345666.0	431010.5	3345719.0	431010.8	3345716.0	431011.0	3345714.0	
1090	-0.2	-0.7	-0.6	-0.4	-3.3	-1.3	-0.8	0.1	0.1	0.1	1090	431066.3	3345662.0	431064.2	3345683.0	431060.7	3345719.0	431060.9	3345717.0	431060.7	3345720.0	
1091	-0.3	-0.7	-0.5	-0.4	-2.2	-0.8	-0.6	0.1	0.0	-0.1	1091	431115.8	3345670.0	431114.3	3345686.0	431110.1	3345728.0	431109.9	3345730.0	431110.3	3345726.0	
1092	-0.2	-0.7	-0.6	-0.4	-2.6	-1.1	-0.6	-0.1	0.0	0.2	1092	431165.3	3345678.0	431163.3	3345698.0	431159.4	3345737.0	431158.9	3345742.0	431159.9	3345732.0	
1093	-0.3	-0.7	-0.6	-0.4	-2.4	-1.1	-0.6	-0.2	0.1	0.4	1093	431214.8	3345686.0	431212.4	3345710.0	431209.0	3345743.0	431208.9	3345744.0	431209.5	3345739.0	
1094	-0.3	-0.7	-0.5	-0.4	-2.1	-0.9	-0.5	0.0	0.1	0.2	1094	431263.8	3345697.0	431262.0	3345716.0	431258.7	3345749.0	431258.7	3345749.0	431259.0	3345746.0	
1095	-0.3	-0.6	-0.5	-0.4	-2.1	-0.9	-0.5	0.0	0.1	0.2	1095	431312.8	3345710.0	431311.1	3345727.0	431308.2	3345757.0	431308.4	3345754.0	431308.5	3345754.0	
1096	-0.3	-0.6	-0.4	-0.3	-1.9	-0.7	-0.4	0.1	0.1	0.0	1096	431362.2	3345718.0	431359.7	3345744.0	431357.6	3345765.0	431358.4	3345757.0	431357.9	3345762.0	
1097	-0.4	-0.5	-0.4	-0.3	-1.3	-0.3	-0.3	0.3	0.1	-0.2	1097	431411.7	3345727.0	431408.0	3345763.0	431407.1	3345772.0	431408.5	3345758.0	431407.4	3345769.0	
1098	-0.5	-0.5	-0.3	-0.3	-0.6	0.1	-0.1	0.6	0.1	-0.5	1098	431461.4	3345731.0	431457.3	3345773.0	431456.6	3345780.0	431458.2	3345764.0	431457.1	3345775.0	
1099	-0.6	-0.6	-0.3	-0.3	-0.4	0.2	0.0	0.7	0.1	-0.5	1099	431511.3	3345735.0	431508.2	3345766.0	431505.9	3345790.0	431508.4	3345764.0	431506.3	3345786.0	
1100	-0.5	-0.7	-0.3	-0.4	-1.5	0.1	-0.3	1.1	0.1	-1.0	1100	431561.1	3345740.0	431558.3	3345768.0	431555.6	3345796.0	431557.8	3345772.0	431555.2	3345799.0	
1101	-0.4	-0.7	-0.3	-0.5	-1.8	-0.1	-0.5	1.0	-0.1	-1.2	1101	431610.9	3345745.0	431607.3	3345780.0	431605.3	3345800.0	431606.8	3345786.0	431604.2	3345812.0	
1102	-0.5	-0.7	-0.4	-0.5	-1.3	-0.1	-0.5	0.6	-0.3	-1.1	1102	431660.0	3345756.0	431656.2	3345794.0	431655.0	3345806.0	431656.6	3345790.0	431653.4	3345822.0	
1103	-0.6	-0.6	-0.3	-0.5	-0.7	0.1	-0.4	0.7	-0.3	-1.4	1103	431709.3	3345766.0	431705.3	3345806.0	431704.4	3345814.0	431706.2	3345796.0	431702.7	3345832.0	
1104	-0.6	-0.6	-0.3	-0.5	-0.5	0.2	-0.4	0.8	-0.4	-1.5	1104	431758.6	3345774.0	431754.5	3345816.0	431753.8	3345823.0	431755.1	3345810.0	431752.1	3345840.0	
1105	-0.6	-0.6	-0.3	-0.5	-0.4	0.2	-0.4	0.6	-0.4	-1.3	1105	431807.8	3345786.0	431804.2	3345821.0	431803.3	3345830.0	431804.7	3345817.0	431801.6	3345848.0	
1106	-0.5	-0.5	-0.3	-0.5	-0.5	0.1	-0.4	0.6	-0.4	-1.4	1106	431857.0	3345796.0	431854.8	3345818.0	431853.0	3345837.0	431854.3	3345823.0	431851.1	3345856.0	
1107	-0.3	-0.5	-0.3	-0.5	-1.2	-0.1	-0.6	0.6	-0.4	-1.4	1107	431906.3	3345805.0	431903.8	3345831.0	431902.5	3345843.0	431903.3	3345836.0	431900.7	3345862.0	
1108	-0.4	-0.5	-0.3	-0.4	-0.8	-0.1	-0.5	0.3	-0.4	-1.1	1108	431956.0	3345811.0	431952.4	3345847.0	431951.8	3345853.0	431952.4	3345847.0	431950.6	3345865.0	
1109	-0.5	-0.5	-0.3	-0.4	-0.4	0.0	-0.3	0.2	-0.3	-0.8	1109	432006.2	3345811.0	432001.2	3345862.0	432001.3	3345861.0	432001.6	3345858.0	432000.6	3345868.0	
1110	-0.7	-0.6	-0.4	-0.4	0.1	0.1	-0.1	0.1	-0.2	-0.4	1110	432056.7	3345809.0	432050.0	3345876.0	432050.7	3345870.0	432050.6	3345870.0	432050.5	3345871.0	
1111	-1.0	-0.7	-0.6	-0.5	0.4	0.2	0.1	0.0	0.0	-0.1	1111	432106.2	3345816.0	432099.4	3345884.0	432100.6	3345873.0	432100.0	3345879.0	432100.3	3345876.0	
1112	-1.0	-0.7	-0.6	-0.5	0.7	0.1																

Transect #	High-Water Shoreline Position Change Rate										Transect #	High-Water Shoreline Position (UTM Zone 16, NAD 1983)										
	1847/67 to	1847/67 to	1847/67 to	1847/67 to	1917/18 to	1917/18 to	1917/18 to	1917/18 to	1934 to	1934 to		1957 to	1847/67		1917/18		1934		1957		1978/82	
	1917/18 (m/yr)	1934 (m/yr)	1957 (m/yr)	1978/82 (m/yr)	1934 (m/yr)	1957 (m/yr)	1978/82 (m/yr)	1978/82 (m/yr)	1957 (m/yr)	1978/82 (m/yr)		1978/82 (m/yr)	UTM-x (m)	UTM-y (m)	UTM-x (m)	UTM-y (m)	UTM-x (m)	UTM-y (m)	UTM-x (m)	UTM-y (m)	UTM-x (m)	UTM-y (m)
1139	0.0	-0.1	-0.3	-0.3	-0.7	-0.8	-0.7	-0.9	-0.6	-0.4	1139	433484.6	3346104.0	433484.3	3346106.0	433482.6	3346123.0	433481.3	3346136.0	433481.6	3346133.0	
1140	0.0	-0.2	-0.3	-0.2	-1.1	-0.8	-0.4	-0.6	-0.2	0.1	1140	433533.8	3346114.0	433533.4	3346118.0	433531.8	3346134.0	433530.4	3346148.0	433531.8	3346133.0	
1141	-0.1	-0.2	-0.3	-0.1	-1.0	-0.8	-0.3	-0.6	0.0	0.6	1141	433582.8	3346126.0	433582.7	3346127.0	433581.1	3346144.0	433580.1	3346154.0	433581.6	3346139.0	
1142	0.0	-0.2	-0.3	-0.1	-1.0	-0.7	-0.2	-0.4	0.1	0.6	1142	433631.9	3346138.0	433631.3	3346143.0	433629.7	3346160.0	433628.9	3346168.0	433631.1	3346146.0	
1143	-0.1	-0.3	-0.3	-0.1	-1.1	-0.6	0.0	-0.3	0.3	1.0	1143	433681.1	3346148.0	433681.5	3346145.0	433678.6	3346174.0	433678.7	3346172.0	433680.5	3346155.0	
1144	0.1	-0.3	-0.2	-0.1	-1.9	-0.7	-0.2	0.1	0.4	0.8	1144	433730.3	3346159.0	433731.1	3346151.0	433727.8	3346185.0	433727.8	3346184.0	433729.4	3346168.0	
1145	0.1	-0.3	-0.2	-0.1	-2.1	-0.8	-0.3	0.0	0.4	0.7	1145	433779.9	3346166.0	433779.8	3346167.0	433776.9	3346196.0	433777.0	3346195.0	433778.4	3346180.0	
1146	0.0	-0.4	-0.3	-0.1	-1.8	-0.7	-0.2	0.1	0.3	0.6	1146	433829.7	3346170.0	433828.6	3346181.0	433826.3	3346204.0	433826.9	3346198.0	433827.5	3346192.0	
1147	-0.2	-0.4	-0.3	-0.2	-1.4	-0.4	-0.2	0.2	0.3	0.3	1147	433879.8	3346172.0	433878.0	3346189.0	433876.3	3346207.0	433876.7	3346203.0	433876.7	3346203.0	
1148	-0.3	-0.4	-0.3	-0.2	-1.1	-0.3	-0.2	0.2	0.1	0.0	1148	433929.4	3346178.0	433927.5	3346197.0	433926.3	3346209.0	433925.9	3346213.0	433925.9	3346213.0	
1149	-0.3	-0.4	-0.3	-0.3	-0.8	-0.4	-0.3	-0.2	-0.1	0.0	1149	433979.1	3346184.0	433976.9	3346205.0	433976.4	3346211.0	433975.5	3346220.0	433975.2	3346223.0	
1150	-0.3	-0.3	-0.3	-0.3	-0.4	-0.4	-0.3	-0.4	-0.3	-0.1	1150	434028.4	3346193.0	434026.5	3346212.0	434026.0	3346217.0	434024.7	3346230.0	434024.4	3346233.0	
1151	-0.3	-0.3	-0.3	-0.3	-0.3	-0.5	-0.3	-0.6	-0.4	-0.1	1151	434077.6	3346203.0	434076.0	3346220.0	434075.4	3346226.0	434074.2	3346238.0	434073.6	3346243.0	
1152	-0.2	-0.3	-0.3	-0.3	-0.4	-0.5	-0.4	-0.5	-0.4	-0.2	1152	434126.5	3346217.0	434125.2	3346231.0	434124.7	3346235.0	434124.0	3346242.0	434123.2	3346250.0	
1153	-0.2	-0.2	-0.2	-0.3	-0.3	-0.3	-0.3	-0.3	-0.3	-0.4	1153	434175.3	3346231.0	434174.6	3346238.0	434174.3	3346241.0	434173.8	3346246.0	434172.9	3346255.0	
1154	-0.1	-0.1	-0.1	-0.2	-0.2	-0.2	-0.3	-0.2	-0.3	-0.4	1154	434224.7	3346240.0	434224.6	3346241.0	434224.0	3346247.0	434223.0	3346257.0	434222.8	3346259.0	
1155	0.0	-0.1	-0.2	-0.1	-0.4	-0.4	-0.3	-0.4	-0.3	-0.1	1155	434274.5	3346245.0	434274.3	3346247.0	434273.9	3346250.0	434272.6	3346264.0	434272.7	3346263.0	
1156	0.0	-0.1	-0.2	-0.1	-0.2	-0.4	-0.3	-0.6	-0.3	0.1	1156	434324.4	3346248.0	434324.3	3346249.0	434323.6	3346256.0	434322.8	3346264.0	434322.5	3346267.0	
1157	0.0	-0.1	-0.1	-0.1	-0.4	-0.4	-0.3	-0.3	-0.2	-0.1	1157	434374.2	3346253.0	434373.5	3346259.0	434373.4	3346260.0	434373.2	3346262.0	434372.3	3346271.0	
1158	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.2	-0.1	-0.2	-0.4	1158	434424.3	3346254.0	434422.5	3346272.0	434423.2	3346266.0	434422.5	3346272.0	434422.4	3346273.0	
1159	-0.3	-0.1	-0.2	-0.1	0.4	0.0	0.0	-0.3	-0.2	0.0	1159	434473.7	3346263.0	434472.4	3346275.0	434473.2	3346268.0	434472.1	3346279.0	434472.1	3346279.0	
1160	-0.2	-0.1	-0.1	-0.1	0.5	-0.1	-0.1	-0.5	-0.2	0.0	1160	434522.7	3346275.0	434522.5	3346277.0	434522.7	3346275.0	434521.7	3346285.0	434521.3	3346289.0	
1161	0.0	0.0	-0.1	-0.1	0.1	-0.2	-0.2	-0.4	-0.3	-0.2	1161	434571.7	3346287.0	434572.0	3346284.0	434572.4	3346281.0	434571.0	3346295.0	434570.1	3346303.0	
1162	0.0	0.1	-0.1	-0.1	0.2	-0.3	-0.3	-0.6	-0.5	-0.4	1162	434620.9	3346298.0	434621.8	3346289.0	434622.0	3346287.0	434620.6	3346301.0	434619.1	3346316.0	
1163	0.1	0.1	0.0	-0.1	0.1	-0.3	-0.4	-0.6	-0.6	-0.7	1163	434670.2	3346307.0	434671.0	3346300.0	434671.4	3346295.0	434670.9	3346300.0	434668.4	3346325.0	
1164	0.1	0.1	0.1	-0.1	0.3	0.0	-0.4	-0.2	-0.7	-1.1	1164	434720.1	3346311.0	434721.0	3346302.0	434720.7	3346305.0	434719.7	3346315.0	434718.5	3346327.0	
1165	0.1	0.1	0.0	-0.1	-0.2	-0.3	-0.4	-0.4	-0.5	-0.5	1165	434770.2	3346313.0	434771.2	3346303.0	434770.0	3346315.0	434769.9	3346315.0	434768.8	3346327.0	
1166	0.1	0.0	0.0	-0.1	-0.8	-0.3	-0.4	0.0	-0.3	-0.5	1166	434820.0	3346317.0	434821.2	3346306.0	434819.5	3346322.0	434819.0	3346327.0	434818.9	3346328.0	
1167	0.2	-0.1	-0.1	-0.1	-1.0	-0.5	-0.4	-0.2	-0.1	0.0	1167	434869.8	3346322.0	434871.6	3346304.0	434869.0	3346330.0	434869.5	3346324.0	434868.4	3346336.0	
1168	0.3	-0.1	0.0	-0.1	-1.6	-0.5	-0.5	0.2	-0.1	-0.5	1168	434919.6	3346326.0	434920.7	3346315.0	434918.7	3346335.0	434919.5	3346327.0	434917.9	3346344.0	
1169	0.2	-0.1	0.0	-0.1	-1.2	-0.3	-0.5	0.4	-0.2	-0.7	1169	434970.2	3346322.0	434969.4	3346331.0	434968.6	3346339.0	434969.5	3346329.0	434967.4	3346351.0	
1170	-0.1	-0.2	-0.1	-0.2	-0.5	0.0	-0.3	0.4	-0.3	-0.9	1170	435020.4	3346323.0	435018.9	3346338.0	435018.6	3346343.0	435018.6	3346341.0	435016.8	3346359.0	
1171	-0.2	-0.2	-0.2	-0.3	-0.3	-0.1	-0.3	0.1	-0.4	-0.8	1171	435070.1	3346329.0	435068.7	3346343.0	435069.3	3346336.0	435069.2	3346338.0	435066.3	3346367.0	
1172	-0.2	-0.1	-0.1	-0.3	0.4	0.1	-0.4	-0.1	-0.7	-1.2	1172	435119.5	3346337.0	435118.5	3346347.0	435119.3	3346339.0	435118.6	3346346.0	435115.8	3346375.0	
1173	-0.1	0.0	-0.1	-0.3	0.5	0.0	-0.4	-0.3	-0.8	-1.2	1173	435169.6	3346339.0	435168.1	3346353.0	435168.9	3346346.0	435167.9	3346356.0	435165.9	3346375.0	
1174	-0.2	-0.1	-0.2	-0.3	0.5	-0.1	-0.4	-0.4	-0.6	-0.8	1174	435219.4	3346343.0	435217.8	3346359.0	435218.1	3346356.0	435217.4	3346363.0	435216.6	3346371.0	
1175	-0.2	-0.2	-0.2	-0.2	0.2	-0.1	-0.2	-0.3	-0.3	-0.4	1175	435269.1	3346348.0	435267.0	3346370.0	435268.0	3346360.0	435266.9	3346370.0	435267.0	3346369.0	
1176	-0.3	-0.1	-0.2	-0.2	0.7	0.0	0.0	-0.5	-0.2	0.0	1176	435319.5	3346347.0	435316.1	3346382.0	435317.6	3346366.0	435317.2	3346371.0	435317.4	3346368.0	
1177	-0.5	-0.2	-0.2	-0.2	1.0	0.3	0.2	0.2	0.0	0.1	1177	435369.0	3346354.0	435365.8	3346387.0	435366.9	3346375.0	435366.8	3346376.0	435367.7	3346368.0	
1178	-0.5	-0.2	-0.2	-0.1	0.7	0.3	0.3	-0.1	0.2	0.4	1178	435418.5	3346362.0	435415.4	3346393.0	435416.8	3346379.0	435416.9	3346378.0	435417.7	3346370.0	
1179	-0.5	-0.2	-0.2	-0.1	0.9	0.4	0.4	0.0	0.2	0.4	1179	435468.4	3346366.0	435465.3	3346397.0	435466.7	3346383.0	435467.1	3346379.0	435467.6	3346373.0	
1180	-0.5	-0.2	-0.1	-0.1	0.9	0.5	0.4	0.2	0.2	0.2	1180	435518.5	3346366.0	435515.9	3346393.0	435517.0	3346382.0	435516.6	3346386.0	435517.3	3346379.0	
1181	-0.4	-0.2	-0.2	-0.1	0.7	0.2	0.2	-0.2	0.1	0.3	1181	435568.6	3346368.0	435566.3	3346391.0	435567.6	3346378.0	435566.9	3346385.0	435567.0	3346385.0	
1182	-0.3	-0.1	-0.2	-0.1	0.8	0.2	0.1	-0.3	-0.1	0.0	1182	435618.6	3346371.0	435616.3	3346395.0	435617.7	3346380.0	435617.4	3346383.0	435617.0	3346387.0	
1183	-0.3	-0.1	-0.1	-0.1	0.9	0.3	0.1	-0.1	-0.2	-0.2	1183	435668.6	3346374.0	435666.3	3346396.0	435667.9	3346380.0	435667.8	3346382.0	435667.7	3346382.0	
1184	-0.3	-0.1	-0.1	-0.1	1.0	0.4	0.2	-0.1	0.0	0.0	1184	435718.4	3346378.0	435716.5	3346397.0	435717.1	3346391.0	435718.1	3346381.0	435718.0	3346382.0	
1185	-0.3	-0.2	-0.2	0.0	0.4	0.4	0.2	0.4	0.2	0.0	1185	435767.8	3346387.0	435766.7	3346398.0	435767.4	3346391.0	435767.7	3346387.0	435768.3	3346381.0	
1186	-0.2	0.0	0.0	0.0	0.5	0.3	0.3	0.1	0.2	0.3	1186	435817.6	3346391.0	435816.4	3346403.0	435817.8	3346389.0	435818.2	3346385.0	435818.8	3346379.0	
1187	-0.2	0.0	0.1	0.1	0.8	0.4	0.4	0.2	0.2	0.3	1187	435868.2	3346387.0	435866.2	3346408.0	435867.8	3346391.0	435867.8	3346391.0	435868.7	3346383.0	
1188	-0.3	0.0	0.0	0.0	1.0	0.4																

Transect #	High-Water Shoreline Position Change Rate										Transect #	High-Water Shoreline Position (UTM Zone 16, NAD 1983)									
	1847/67 to	1847/67 to	1847/67 to	1847/67 to	1917/18 to	1917/18 to	1917/18 to	1917/18 to	1934 to	1934 to		1957 to	1917/18		1934		1957		1978/82		
	1917/18 (m/yr)	1934 (m/yr)	1957 (m/yr)	1978/82 (m/yr)	1934 (m/yr)	1957 (m/yr)	1978/82 (m/yr)	1957 (m/yr)	1978/82 (m/yr)	1957 (m/yr)		1978/82 (m/yr)	1978/82 (m/yr)	UTM-x (m)	UTM-y (m)	UTM-x (m)	UTM-y (m)	UTM-x (m)	UTM-y (m)	UTM-x (m)	UTM-y (m)
1215	0.5	-0.2	-0.4		-3.4	-2.0			-1.1			1215	437256.1	3346579.0	437260.9	3346530.0	437255.3	3346587.0	437252.5	3346615.0	
1216	0.7	-0.1	-0.3		-3.6	-2.2			-1.2			1216	437303.8	3346604.0	437309.7	3346545.0	437303.7	3346605.0	437300.9	3346633.0	
1217	0.9	0.0	-0.3		-3.8	-2.3			-1.2			1217	437351.9	3346625.0	437357.9	3346565.0	437351.9	3346626.0	437349.3	3346652.0	
1218	0.9	0.0	-0.3		-3.8	-2.2			-1.1			1218	437399.8	3346650.0	437406.2	3346585.0	437400.0	3346648.0	437397.3	3346675.0	
1219	0.9	0.0	-0.2		-3.9	-2.3			-1.2			1219	437447.4	3346676.0	437454.7	3346603.0	437447.9	3346671.0	437445.1	3346699.0	
1220	1.1	0.1	-0.2		-4.3	-2.5			-1.2			1220	437495.3	3346699.0	437502.6	3346626.0	437496.0	3346692.0	437493.7	3346716.0	
1221	1.1	0.1	-0.2		-4.1	-2.3			-1.0			1221	437543.7	3346718.0	437550.5	3346649.0	437544.1	3346714.0	437542.3	3346733.0	
1222	1.0	0.0	-0.1		-4.1	-2.1			-0.8			1222	437592.2	3346736.0	437598.8	3346669.0	437592.3	3346735.0	437590.5	3346753.0	
1223	1.0	0.0	-0.2		-4.1	-2.1			-0.8			1223	437640.9	3346751.0	437647.2	3346688.0	437640.7	3346754.0	437638.7	3346774.0	
1224	0.9	0.0	-0.2		-4.1	-2.2			-0.9			1224	437690.0	3346763.0	437695.5	3346707.0	437689.1	3346772.0	437687.6	3346787.0	
1225	0.8	-0.1	-0.2		-4.1	-2.0			-0.6			1225	437738.9	3346777.0	437742.8	3346738.0	437737.3	3346793.0	437736.5	3346801.0	
1226	0.6	-0.2	-0.2		-3.5	-1.6			-0.3			1226	437787.2	3346796.0	437790.6	3346762.0	437786.1	3346807.0	437785.3	3346815.0	
1227	0.5	-0.1	-0.2		-2.8	-1.3			-0.3			1227	437836.3	3346808.0	437839.0	3346780.0	437834.8	3346823.0	437834.4	3346827.0	
1228	0.4	-0.2	-0.2		-2.7	-1.2			-0.2			1228	437885.5	3346818.0	437887.9	3346794.0	437884.0	3346833.0	437883.6	3346837.0	
1229	0.4	-0.2	-0.2		-2.5	-1.1			-0.2			1229	437934.5	3346831.0	437936.6	3346809.0	437932.9	3346847.0	437932.6	3346850.0	
1230	0.3	-0.2	-0.2		-2.4	-1.0			-0.1			1230	437983.7	3346842.0	437985.6	3346822.0	437981.6	3346862.0	437982.1	3346857.0	
1231	0.3	-0.2	-0.1		-2.5	-0.9			0.2			1231	438032.9	3346852.0	438035.3	3346828.0	438030.7	3346874.0	438031.2	3346869.0	
1232	0.3	-0.3	-0.2		-2.9	-1.0			0.2			1232	438082.1	3346862.0	438084.6	3346837.0	438079.4	3346889.0	438080.6	3346877.0	
1233	0.4	-0.3	-0.1		-3.3	-1.0			0.5			1233	438131.1	3346874.0	438133.2	3346854.0	438128.3	3346903.0	438129.9	3346887.0	
1234	0.3	-0.3	-0.1		-3.0	-0.8			0.7			1234	438179.8	3346891.0	438181.6	3346872.0	438177.3	3346916.0	438178.9	3346899.0	
1235	0.3	-0.3	-0.1		-2.7	-0.7			0.7			1235	438228.5	3346906.0	438230.3	3346888.0	438227.0	3346921.0	438228.1	3346910.0	
1236	0.3	-0.2	0.0		-2.1	-0.6			0.5			1236	438277.6	3346917.0	438279.0	3346903.0	438276.3	3346930.0	438277.5	3346919.0	
1237	0.2	-0.2	0.0		-1.7	-0.4			0.5			1237	438327.0	3346926.0	438327.8	3346918.0	438326.2	3346935.0	438326.8	3346928.0	
1238	0.1	-0.1	0.0		-1.0	-0.2			0.3			1238	438375.8	3346941.0	438373.8	3346961.0	438375.5	3346943.0	438376.4	3346934.0	
1239	-0.3	0.0	0.1		1.1	0.7			0.4			1239	438424.5	3346956.0	438422.0	3346981.0	438425.0	3346951.0	438426.2	3346939.0	
1240	-0.4	0.1	0.2		1.9	1.1			0.5			1240	438474.0	3346964.0	438472.9	3346975.0	438474.7	3346957.0	438475.7	3346947.0	
1241	-0.2	0.1	0.2		1.2	0.7			0.4			1241	438523.7	3346970.0	438522.8	3346978.0	438523.7	3346969.0	438525.1	3346955.0	
1242	-0.1	0.0	0.1		0.6	0.6			0.6			1242	438572.4	3346985.0	438570.8	3347000.0	438572.8	3346981.0	438574.4	3346965.0	
1243	-0.2	0.1	0.2		1.2	0.9			0.7			1243	438621.5	3346996.0	438620.3	3347008.0	438622.4	3346987.0	438623.9	3346972.0	
1244	-0.2	0.1	0.2		1.3	0.9			0.7			1244	438670.7	3347007.0	438669.8	3347016.0	438672.1	3346992.0	438673.2	3346981.0	
1245	-0.1	0.2	0.2		1.5	0.9			0.5			1245	438720.7	3347009.0	438719.1	3347026.0	438721.6	3347000.0	438722.4	3346993.0	
1246	-0.2	0.1	0.2		1.6	0.8			0.3			1246	438770.9	3347010.0	438769.4	3347025.0	438770.5	3347014.0	438771.2	3347007.0	
1247	-0.2	0.0	0.0		0.7	0.5			0.3			1247	438822.2	3346999.0	438819.4	3347027.0	438819.8	3347023.0	438820.3	3347018.0	
1248	-0.4	-0.3	-0.2		0.3	0.2			0.2			1248	438870.7	3347017.0	438869.3	3347031.0	438869.3	3347031.0	438869.5	3347029.0	
1249	-0.2	-0.2	-0.1		0.0	0.1			0.1			1249	438918.6	3347041.0	438919.1	3347035.0	438918.5	3347041.0	438918.1	3347045.0	
1250	0.1	0.0	0.0		-0.4	-0.3			-0.2			1250	438967.7	3347052.0	438969.0	3347039.0	438967.7	3347052.0	438967.5	3347054.0	
1251	0.2	0.0	0.0		-0.8	-0.4			-0.1			1251	439016.8	3347063.0	439018.8	3347043.0	439016.4	3347068.0	439015.9	3347073.0	
1252	0.3	-0.1	-0.1		-1.6	-0.8			-0.2			1252	439066.1	3347073.0	439067.8	3347056.0	439065.2	3347082.0	439064.3	3347090.0	
1253	0.2	-0.1	-0.2		-1.6	-0.9			-0.4			1253	439115.6	3347081.0	439116.6	3347070.0	439114.1	3347095.0	439113.7	3347100.0	
1254	0.1	-0.2	-0.2		-1.6	-0.8			-0.2			1254	439164.7	3347092.0	439165.4	3347085.0	439163.0	3347109.0	439163.2	3347107.0	
1255	0.1	-0.2	-0.1		-1.5	-0.6			0.1			1255	439213.5	3347106.0	439214.1	3347100.0	439211.7	3347124.0	439212.3	3347119.0	
1256	0.1	-0.2	-0.1		-1.5	-0.5			0.2			1256	439262.9	3347115.0	439263.7	3347107.0	439260.8	3347136.0	439261.1	3347134.0	
1257	0.1	-0.3	-0.2		-1.9	-0.7			0.1			1257	439312.2	3347125.0	439313.6	3347111.0	439309.6	3347151.0	439310.1	3347146.0	
1258	0.2	-0.3	-0.2		-2.5	-0.9			0.2			1258	439361.3	3347136.0	439361.9	3347130.0	439358.6	3347163.0	439358.8	3347161.0	
1259	0.1	-0.3	-0.2		-2.1	-0.8			0.1			1259	439410.8	3347144.0	439410.4	3347147.0	439407.6	3347176.0	439407.7	3347175.0	
1260	0.0	-0.4	-0.3		-1.8	-0.7			0.0			1260	439459.0	3347164.0	439460.0	3347154.0	439456.5	3347189.0	439456.8	3347187.0	
1261	0.1	-0.3	-0.2		-2.2	-0.8			0.1			1261	439507.5	3347182.0	439509.0	3347166.0	439505.2	3347205.0	439505.6	3347201.0	
1262	0.2	-0.3	-0.2		-2.4	-0.9			0.2			1262	439555.6	3347204.0	439558.2	3347177.0	439554.0	3347219.0	439554.1	3347219.0	
1263	0.4	-0.2	-0.1		-2.6	-1.1			0.0			1263	439604.5	3347217.0	439607.3	3347188.0	439604.2	3347220.0	439602.3	3347239.0	
1264	0.4	0.0	-0.2		-2.0	-1.3			-0.8			1264	439653.2	3347232.0	439656.3	3347202.0	439651.9	3347246.0	439651.1	3347253.0	
1265	0.4	-0.2	-0.2		-2.8	-1.3			-0.3			1265	439702.1	3347246.0	439705.4	3347213.0	439699.6	3347271.0	439699.9	3347268.0	
1266	0.5	-0.3	-0.2		-3.6	-1.4			0.1			1266	439751.0	3347259.0	439753.1	3347239.0	439748.1	3347289.0	439748.4	3347286.0	
1267	0.3	-0.4	-0.2		-3.2	-1.2			0.2			1267	439799.7	3347275.0	439801.2	3347260.0	439796.5	3347307.0	439797.4	3347299.0	
1268	0.2	-0.4	-0.2		-3.0	-1.0			0.4			1268	439848.8	3347287.0	439850.9	3347266.0	439845.3	3347322.0	439846.3	3347312.0	
1269	0.3	-0.4			-3.5							1269	439898.3	3347295.0	439899.6	3347281.0	439893.9	3347338.0			
1270	0.2	-0.5			-3.6							1270	439947.5	3347305.0	439947.6	3347304.0	439942.7	3347353.0			
1271	0.0	-0.6			-3.0							1271	439996.8	3347314.0	439996.1	3347322.0	439991.9	3347364.0			
1272	-0.1	-0.6			-2.6							1272	440045.8	3347327.0	440044.9	3347336.0	440041.1	3347374.0			
1273	-0.1	-0.6			-2.4							1273	440094.5	3347342.0	440093.7	3347351.0	440090.2	3347386.0			
1274	-0.1	-0.5			-2.2							1274	440142.9	3347361.0	440141.9	3347371.0	440139.2	3347398.0			
1275																					

Transect #	High-Water Shoreline Position Change Rate										Transect #	High-Water Shoreline Position (UTM Zone 16, NAD 1983)									
	1847/67 to	1847/67 to	1847/67 to	1847/67 to	1917/18 to	1917/18 to	1917/18 to	1917/18 to	1934 to	1934 to		1957 to	1847/67		1917/18		1934		1957	1978/82	
	1917/18 (m/yr)	1934 (m/yr)	1957 (m/yr)	1978/82 (m/yr)	1934 (m/yr)	1957 (m/yr)	1978/82 (m/yr)	1957 (m/yr)	1978/82 (m/yr)	1957 (m/yr)		1978/82 (m/yr)	UTM-x (m)	UTM-y (m)	UTM-x (m)	UTM-y (m)	UTM-x (m)	UTM-y (m)	UTM-x (m)	UTM-y (m)	UTM-x (m)
1291	0.3	-0.4			-3.3						1291	440973.5	3347599.0	440974.1	3347593.0	440970.0	3347633.0				
1292	0.1	-0.4			-2.5						1292	441022.3	3347613.0	441022.3	3347613.0	441019.7	3347639.0				
1293	0.0	-0.3			-1.6						1293	441071.3	3347626.0	441071.9	3347619.0	441069.0	3347649.0				
1294	0.1	-0.3			-1.9						1294	441120.2	3347639.0	441121.4	3347627.0	441118.3	3347658.0				
1295	0.2	-0.2			-1.9						1295	441169.4	3347650.0	441170.5	3347639.0	441167.2	3347672.0				
1296	0.2	-0.3			-2.1						1296	441218.6	3347661.0	441219.6	3347650.0	441215.8	3347689.0				
1297	0.2	-0.3			-2.5						1297	441267.8	3347671.0	441267.8	3347671.0	441264.4	3347705.0				
1298	0.0	-0.4			-2.1						1298	441316.4	3347688.0	441316.3	3347688.0	441313.8	3347714.0				
1299	0.0	-0.3			-1.6						1299	441365.8	3347696.0	441364.8	3347706.0	441362.4	3347731.0				
1300	-0.1	-0.4			-1.5						1300	441415.3	3347703.0	441413.4	3347723.0	441410.8	3347749.0				
1301	-0.3	-0.5			-1.6						1301	441464.7	3347712.0	441462.2	3347737.0	441459.6	3347764.0				
1302	-0.4	-0.6			-1.7						1302	441513.8	3347723.0	441510.6	3347756.0	441508.3	3347779.0				
1303	-0.5	-0.7			-1.4						1303	441562.6	3347738.0	441559.2	3347773.0	441557.2	3347792.0				
1304	-0.5	-0.6			-1.2						1304	441611.2	3347754.0	441608.1	3347786.0	441606.1	3347806.0				
1305	-0.5	-0.6			-1.3						1305	441660.4	3347766.0	441657.4	3347795.0	441654.9	3347821.0				
1306	-0.4	-0.7			-1.6						1306	441709.5	3347777.0	441705.9	3347813.0	441703.4	3347838.0				
1307	-0.5	-0.7			-1.6						1307	441758.9	3347785.0	441754.5	3347829.0	441752.0	3347855.0				
1308	-0.6	-0.8			-1.6						1308	441807.7	3347800.0	441803.4	3347843.0	441801.1	3347867.0				
1309	-0.6	-0.8			-1.5						1309	441856.3	3347816.0	441852.4	3347855.0	441849.4	3347886.0				
1310	-0.6	-0.8			-1.9						1310	441905.9	3347823.0	441901.5	3347867.0	441898.8	3347894.0				
1311	-0.6	-0.8			-1.7						1311	441953.8	3347847.0	441950.8	3347877.0	441948.2	3347903.0				
1312	-0.4	-0.7			-1.6						1312	442002.5	3347862.0	441999.6	3347891.0	441997.1	3347917.0				
1313	-0.4	-0.6			-1.6						1313	442051.4	3347875.0	442048.6	3347904.0	442045.2	3347939.0				
1314	-0.4	-0.8			-2.2						1314	442100.3	3347889.0	442096.8	3347924.0	442093.9	3347954.0				
1315	-0.5	-0.8			-1.9						1315	442149.5	3347900.0	442145.4	3347941.0	442142.5	3347971.0				
1316	-0.6	-0.8			-1.9						1316	442198.4	3347913.0	442193.9	3347958.0	442191.1	3347987.0				
1317	-0.7	-0.9			-1.8						1317	442246.7	3347933.0	442241.7	3347984.0	442239.8	3348002.0				
1318	-0.7	-0.8			-1.2						1318	442294.1	3347962.0	442290.3	3348000.0	442288.7	3348016.0				
1319	-0.6	-0.6			-1.0						1319	442342.4	3347981.0	442338.7	3348018.0	442337.4	3348032.0				
1320	-0.5	-0.6			-0.8						1320	442391.4	3347994.0	442387.0	3348038.0	442385.5	3348054.0				
1321	-0.6	-0.7			-1.0						1321	442440.3	3348007.0	442435.5	3348056.0	442434.1	3348069.0				
1322	-0.7	-0.7			-0.8						1322	442489.0	3348023.0	442484.0	3348073.0	442482.4	3348089.0				
1323	-0.7	-0.8			-1.0						1323	442537.3	3348042.0	442532.4	3348092.0	442530.7	3348109.0				
1324	-0.7	-0.8			-1.1						1324	442586.0	3348058.0	442581.9	3348099.0	442579.2	3348127.0				
1325	-0.6	-0.8			-1.7						1325	442634.7	3348074.0	442630.8	3348112.0	442628.0	3348141.0				
1326	-0.6	-0.8			-1.8						1326	442683.2	3348091.0	442679.8	3348126.0	442676.5	3348158.0				
1327	-0.5	-0.8			-2.0						1327	442731.7	3348109.0	442728.8	3348138.0	442724.3	3348184.0				
1328	-0.4	-0.9			-2.8						1328	442780.2	3348126.0	442777.7	3348152.0	442772.7	3348202.0				
1329	-0.4	-0.9			-3.2						1329	442828.8	3348143.0	442825.7	3348174.0	442821.7	3348215.0				
1330	-0.4	-0.8			-2.5						1330	442877.6	3348157.0	442873.7	3348197.0	442870.7	3348227.0				
1331	-0.6	-0.8			-1.9						1331	442926.8	3348168.0	442922.3	3348213.0	442920.1	3348235.0				
1332	-0.7	-0.8			-1.4						1332	442976.4	3348174.0	442971.4	3348225.0	442968.3	3348256.0				
1333	-0.7	-1.0			-1.9						1333	443024.1	3348200.0	443020.5	3348236.0	443017.1	3348271.0				
1334	-0.5	-0.8			-2.2						1334	443071.8	3348226.0	443069.5	3348249.0	443065.8	3348286.0				
1335	-0.3	-0.7			-2.3						1335	443120.4	3348243.0	443118.7	3348260.0	443115.1	3348296.0				
1336	-0.3	-0.6			-2.3						1336	443169.3	3348255.0	443167.8	3348271.0	443164.3	3348306.0				
1337	-0.2	-0.6			-2.2						1337	443218.3	3348268.0	443216.3	3348288.0	443213.4	3348318.0				
1338	-0.3	-0.6			-1.9						1338	443266.7	3348287.0	443264.3	3348311.0	443262.1	3348333.0				
1339	-0.3	-0.5			-1.4						1339	443315.3	3348303.0	443312.2	3348335.0	443311.0	3348347.0				
1340	-0.5	-0.5			-0.8						1340	443364.4	3348315.0	443360.2	3348357.0	443360.3	3348357.0				
1341	-0.6	-0.5			0.0						1341	443412.5	3348337.0	443409.1	3348371.0	443409.3	3348369.0				
1342	-0.5	-0.4			0.2						1342	443460.7	3348357.0	443458.6	3348379.0	443458.8	3348376.0				
1343	-0.3	-0.2			0.1						1343	443509.4	3348373.0	443507.8	3348389.0	443508.1	3348386.0				
1344	-0.2	-0.2			0.2						1344	443558.2	3348387.0	443557.0	3348400.0	443557.2	3348398.0				
1345	-0.2	-0.1			0.1						1345	443606.8	3348404.0	443606.2	3348410.0	443606.0	3348412.0				
1346	-0.1	-0.1			-0.1						1346	443655.8	3348417.0	443655.1	3348424.0	443655.1	3348423.0				
1347	-0.1	-0.1			0.0						1347	443704.8	3348429.0	443703.9	3348438.0	443704.5	3348433.0				
1348	-0.1	0.0			0.4						1348	443754.2	3348438.0	443753.2	3348448.0	443753.7	3348443.0				
1349	-0.2	-0.1			0.4						1349	443803.4	3348448.0	443802.1	3348462.0	443803.1	3348451.0				
1350	-0.2	0.0			0.7						1350	443852.4	3348461.0	443851.0	3348475.0	443851.8	3348467.0				
1351	-0.2	-0.1			0.5						1351	443901.6	3348471.0	443899.2	3348495.0	443900.4	3348483.0				
1352	-0.3	-0.1			0.8						1352	443951.3	3348476.0	443947.2	3348518.0	443949.2	3348498.0				
1353	-0.6	-0.3			1.3						1353	443999.7	3348495.0	443994.9	3348544.0	443998.1	3348511.0				
1354	-0.7	-0.2			2.1						1354	444048.0	3348515.0	444044.3	3348552.0	444046.2	3348533.0				
1355	-0.5	-0.2			1.2						1355	444096.6	3348532.0	444094.6	3348552.0	444095.0	3348548.0				
1356	-0.3	-0.2			0.3						1356	444145.3	3348548.0	444143.7	3348564.0	444144.2	3348558.0				
1357	-0.2	-0.1			0.3						1357	444194.2	3348561.0	444192.5	3348578.0	444193.8	3348565.0				
1358	-0.2	-0.1			0.8						1358	444243.4	3348571.0	444241.7	3348589.0	444242.9	3348576.0				
1359	-0.3	-0.1			0.8																

Transect #	High-Water Shoreline Position Change Rate									Transect #	High-Water Shoreline Position (UTM Zone 16, NAD 1983)												
	1847/67 to	1847/67 to	1847/67 to	1847/67 to	1917/18 to	1917/18 to	1917/18 to	1917/18 to	1934 to		1934 to	1957 to	1917/18			1934			1957		1978/82		
	1917/18 (m/yr)	1934 (m/yr)	1957 (m/yr)	1978/82 (m/yr)	1934 (m/yr)	1957 (m/yr)	1978/82 (m/yr)	1957 (m/yr)	1978/82 (m/yr)		1957 (m/yr)	1978/82 (m/yr)	1978/82 (m/yr)	UTM-x (m)	UTM-y (m)	UTM-x (m)	UTM-y (m)	UTM-x (m)	UTM-y (m)	UTM-x (m)	UTM-y (m)	UTM-x (m)	UTM-y (m)
1367	-0.6	-0.4			0.5								1367	444686.0	3348668.0	444682.5	3348704.0	444682.4	3348704.0				
1368	-0.5	-0.4			0.0								1368	444735.1	3348679.0	444732.0	3348710.0	444731.9	3348710.0				
1369	-0.5	-0.4			-0.1								1369	444784.7	3348686.0	444781.5	3348718.0	444781.5	3348718.0				
1370	-0.5	-0.4			0.0								1370	444833.2	3348704.0	444830.9	3348727.0	444831.0	3348726.0				
1371	-0.3	-0.3			0.0								1371	444881.9	3348720.0	444880.2	3348737.0	444880.0	3348737.0				
1372	-0.2	-0.2			-0.1								1372	444930.9	3348732.0	444929.0	3348751.0	444929.2	3348751.0				
1373	-0.3	-0.2			0.1								1373	444980.2	3348741.0	444977.7	3348767.0	444977.3	3348767.0				
1374	-0.4	-0.3			-0.2								1374	445030.1	3348745.0	445026.7	3348779.0	445026.7	3348779.0				
1375	-0.5	-0.4			0.0								1375	445079.7	3348751.0	445075.9	3348789.0	445075.5	3348789.0				
1376	-0.6	-0.5			-0.3								1376	445128.3	3348768.0	445125.3	3348798.0	445124.5	3348798.0				
1377	-0.4	-0.4			-0.5								1377	445177.1	3348782.0	445175.0	3348804.0	445173.3	3348804.0				
1378	-0.3	-0.4			-1.1								1378	445226.2	3348794.0	445224.5	3348811.0	445222.7	3348811.0				
1379	-0.2	-0.4			-1.2								1379	445275.4	3348804.0	445273.7	3348822.0	445271.5	3348822.0				
1380	-0.3	-0.5			-1.3								1380	445323.9	3348822.0	445323.4	3348827.0	445321.1	3348827.0				
1381	-0.1	-0.3			-1.5								1381	445372.1	3348842.0	445373.4	3348829.0	445370.3	3348829.0				
1382	0.2	-0.2			-2.0								1382	445421.0	3348856.0	445423.3	3348834.0	445419.4	3348834.0				
1383	0.3	-0.2			-2.4								1383	445470.4	3348865.0	445472.9	3348840.0	445468.6	3348840.0				
1384	0.4	-0.2			-2.7								1384	445521.0	3348861.0	445522.8	3348843.0	445517.6	3348843.0				
1385	0.3	-0.4			-3.3								1385	445570.8	3348866.0	445572.3	3348851.0	445567.0	3348851.0				
1386	0.2	-0.4			-3.3								1386	445619.1	3348885.0	445621.8	3348859.0	445615.8	3348859.0				
1387	0.4	-0.4			-3.7								1387	445666.4	3348915.0	445671.0	3348869.0	445665.3	3348869.0				
1388	0.7	-0.1			-3.6								1388	445714.3	3348939.0	445719.9	3348882.0	445714.4	3348882.0				
1389	0.8	0.0			-3.4								1389	445763.4	3348950.0	445769.2	3348891.0	445763.9	3348891.0				
1390	0.9	0.1			-3.4								1390	445812.7	3348959.0	445818.5	3348901.0	445812.4	3348901.0				
1391	0.8	0.0			-3.9								1391	445860.3	3348986.0	445867.8	3348911.0	445860.8	3348911.0				
1392	1.1	0.1			-4.4								1392	445907.6	3349016.0	445916.9	3348922.0	445908.8	3349022.0				
1393	1.4	0.1			-5.2								1393	445955.6	3349039.0	445966.1	3348933.0	445957.3	3349022.0				
1394	1.5	0.2			-5.6								1394	446004.1	3349057.0	446015.3	3348943.0	446006.8	3349029.0				
1395	1.7	0.3			-5.4								1395	446052.8	3349071.0	446064.3	3348956.0	446056.3	3349037.0				
1396	1.7	0.4			-5.1								1396	446101.8	3349084.0	446113.7	3348965.0	446105.7	3349046.0				
1397	1.7	0.5			-5.1								1397	446150.4	3349101.0	446163.1	3348973.0	446154.3	3349061.0				
1398	1.9	0.5			-5.5								1398	446199.2	3349116.0	446212.3	3348983.0	446203.6	3349071.0				
1399	1.9	0.5			-5.5								1399	446248.2	3349128.0	446261.5	3348994.0	446251.7	3349093.0				
1400	1.9	0.4			-6.2								1400	446296.3	3349150.0	446310.8	3349004.0	446301.3	3349100.0				
1401	2.1	0.6			-6.0								1401	446345.4	3349161.0	446360.1	3349013.0	446349.7	3349118.0				
1402	2.2	0.5			-6.6								1402	446394.5	3349172.0	446409.2	3349025.0	446398.4	3349133.0				
1403	2.2	0.5			-6.8								1403	446443.6	3349184.0	446458.6	3349034.0	446447.8	3349143.0				
1404	2.2	0.5			-6.8								1404	446493.0	3349193.0	446507.9	3349042.0	446496.9	3349154.0				
1405	2.2	0.5			-7.0								1405	446542.6	3349199.0	446557.5	3349049.0	446546.3	3349163.0				
1406	2.2	0.4			-7.1								1406	446592.4	3349204.0	446606.7	3349060.0	446596.3	3349164.0				
1407	2.1	0.5			-6.5								1407	446642.5	3349205.0	446655.6	3349073.0	446646.0	3349170.0				
1408	1.9	0.4			-6.1								1408	446692.4	3349209.0	446704.5	3349087.0	446694.6	3349186.0				
1409	1.8	0.3			-6.3								1409	446741.8	3349217.0	446753.6	3349098.0	446742.4	3349211.0				
1410	1.7	0.1			-7.1								1410	446791.3	3349225.0	446801.7	3349120.0	446791.4	3349224.0				
1411	1.5	0.0			-6.5								1411	446840.8	3349233.0	446850.5	3349134.0	446840.5	3349235.0				
1412	1.4	0.0			-6.3								1412	446890.9	3349234.0	446899.6	3349146.0	446889.3	3349250.0				
1413	1.3	-0.2			-6.5								1413	446942.5	3349220.0	446949.0	3349155.0	446939.5	3349250.0				
1414	1.0	-0.4			-6.0								1414	446995.2	3349196.0	446998.3	3349164.0	446989.8	3349250.0				
1415	0.5	-0.6			-5.4								1415	447052.3	3349126.0	447047.4	3349175.0	447039.1	3349260.0				
1416		-1.6			-5.3								1416	447095.4	3349198.0	447095.9	3349193.0	447084.1	3349312.0				
1417													1417	447141.2	3349243.0	447144.4	3349211.0	447125.0	3349406.0				
Perdido Pass													Perdido Pass										
1418	-3.5	-3.3											1418	447439.3	3349277.0								
1419	-4.0	-2.8											1419	447491.3	3349259.0	447412.3	3349549.0	447415.5	3349517.0				
1420	-4.8	-2.9			2.0								1420	447540.9	3349266.0	447458.8	3349587.0	447466.8	3349506.0				
1421	-5.2	-2.7			5.1								1421	447590.8	3349270.0	447505.3	3349625.0	447518.3	3349494.0				
1422	-4.1	-2.5			8.2								1422	447639.8	3349282.0	447562.7	3349553.0	447569.6	3349483.0				
1423	-3.8	-2.2			4.4								1423	447688.7	3349295.0	447614.1	3349541.0	447621.1	3349471.0				
1424	-3.6	-1.8			4.4								1424	447737.8	3349307.0	447663.9	3349545.0	447673.3	3349451.0				
1425	-3.7	-1.5			5.9								1425	447786.9	3349318.0	447712.9	3349558.0	447725.1	3349435.0				
1426	-3.5	-1.4			7.8								1426	447836.2	3349329.0	447763.3	3349557.0	447775.5	3349433.0				
1427	-3.3	-1.2			7.8								1427	447885.2	3349341.0	447813.6	3349556.0	447826.1	3349430.0				
1428	-3.2	-0.8			7.9								1428	447934.7	3349348.0	447863.4	3349560.0	447878.9	3349404.0				
1429	-3.1	-0.6			9.8								1429	447984.5	3349353.0	447913.8	3349558.0	447929.3	3349402.0				
1430	-2.2	-0.4			9.8								1430	448034.2	3349358.0	447969.2	3349507.0	447980.9	334938				

Transect #	High-Water Shoreline Position Change Rate										Transect #	High-Water Shoreline Position (UTM Zone 16, NAD 1983)								
	1847/67 to	1847/67 to	1847/67 to	1847/67 to	1917/18 to	1917/18 to	1917/18 to	1917/18 to	1934 to	1934 to		1957 to	1917/18		1934		1957	1978/82		
	1917/18 (m/yr)	1934 (m/yr)	1957 (m/yr)	1978/82 (m/yr)	1934 (m/yr)	1957 (m/yr)	1978/82 (m/yr)	1957 (m/yr)	1978/82 (m/yr)	1957 (m/yr)		1978/82 (m/yr)	UTM-x (m)	UTM-y (m)	UTM-x (m)	UTM-y (m)	UTM-x (m)	UTM-y (m)	UTM-x (m)	UTM-y (m)
1439	-2.6	-0.1			10.9							1439	448477.1	3349452.0	448410.4	3349617.0	448427.3	3349448.0		
1440	-2.6	-0.1			10.6							1440	448526.4	3349461.0	448459.6	3349628.0	448476.4	3349459.0		
1441	-2.5	-0.1			10.7							1441	448575.6	3349472.0	448509.4	3349633.0	448525.7	3349469.0		
1442	-2.4	-0.1			10.3							1442	448624.3	3349487.0	448559.0	3349639.0	448575.0	3349478.0		
1443	-2.3	0.0			10.1							1443	448673.3	3349501.0	448608.6	3349646.0	448624.5	3349486.0		
1444	-2.8	0.1			10.1							1444	448722.2	3349513.0	448654.2	3349692.0	448674.3	3349490.0		
1445	-3.8	0.2			12.7							1445	448770.7	3349531.0	448696.6	3349771.0	448723.7	3349499.0		
1446	-4.2	0.2			17.1							1446	448819.4	3349547.0	448741.8	3349823.0	448772.7	3349511.0		
1447	-3.9	0.3			19.6							1447	448868.1	3349563.0	448792.5	3349817.0	448822.0	3349521.0		
1448	-3.6	0.3			18.6							1448	448916.9	3349577.0	448843.3	3349812.0	448870.7	3349536.0		
1449	-3.3	0.4			17.3							1449	448965.8	3349591.0	448894.1	3349807.0	448920.6	3349540.0		
1450	-3.1	0.5			16.8							1450	449014.8	3349603.0	448944.8	3349802.0	448970.2	3349547.0		
1451	-2.8	0.5			16.0							1451	449063.9	3349615.0	448995.6	3349797.0	449019.2	3349559.0		
1452	-2.6	0.5			14.9							1452	449113.8	3349618.0	449046.3	3349791.0	449068.3	3349571.0		
1453	-2.5	0.4			13.8							1453	449163.8	3349620.0	449097.1	3349786.0	449117.2	3349584.0		
1454	-2.3	0.4			12.7							1454	449212.9	3349632.0	449147.9	3349781.0	449166.9	3349590.0		
1455	-2.1	0.5			12.0							1455	449261.9	3349644.0	449198.6	3349776.0	449216.7	3349594.0		
1456	-1.8	0.5			11.4							1456	449311.2	3349654.0	449249.4	3349771.0	449266.0	3349604.0		
1457	-1.4	0.5			10.5							1457	449359.9	3349669.0	449301.3	3349754.0	449315.4	3349612.0		
1458	-1.1	0.6			8.9							1458	449408.6	3349686.0	449352.3	3349746.0	449364.7	3349621.0		
1459	0.9	0.7			7.9							1459	449457.7	3349697.0	449414.6	3349625.0	449414.8	3349623.0		
1460	1.2	0.7			0.1							1460	449507.0	3349707.0	449465.9	3349615.0	449463.7	3349637.0		
1461	1.3	0.7			-1.4							1461	449555.8	3349721.0	449515.7	3349619.0	449512.9	3349647.0		
1462	1.1	0.7			-1.7							1462	449605.0	3349731.0	449563.1	3349648.0	449561.9	3349660.0		
1463	0.9	0.7			-0.7							1463	449654.4	3349740.0	449611.2	3349669.0	449610.6	3349675.0		
1464	0.7	0.6			-0.4							1464	449703.5	3349751.0	449659.1	3349693.0	449659.5	3349689.0		
1465	0.6	0.7			0.3							1465	449752.4	3349765.0	449707.6	3349710.0	449709.0	3349696.0		
1466	0.6	0.7			0.9							1466	449801.8	3349774.0	449756.3	3349725.0	449758.3	3349706.0		
1467	0.4	0.5			1.2							1467	449850.8	3349787.0	449804.6	3349746.0	449805.9	3349732.0		
1468	0.4	0.6			0.8							1468	449899.7	3349800.0	449853.6	3349758.0	449855.4	3349740.0		
1469	0.5	0.7			1.2							1469	449948.9	3349811.0	449903.2	3349764.0	449905.4	3349743.0		
1470	0.8	0.7			1.4							1470	449998.2	3349820.0	449954.2	3349757.0	449955.1	3349748.0		
1471	0.9	0.8			0.6							1471	450048.0	3349824.0	450004.5	3349757.0	450004.7	3349754.0		
1472	0.5	0.7			0.1							1472	450097.8	3349829.0	450051.2	3349792.0	450053.8	3349766.0		
1473	0.1	0.6			1.6							1473	450147.3	3349837.0	450098.2	3349825.0	450102.9	3349778.0		
1474	0.1	0.6			3.0							1474	450196.1	3349851.0	450148.1	3349828.0	450151.9	3349790.0		
1475	0.4	0.6			2.4							1475	450244.3	3349871.0	450198.7	3349825.0	450201.1	3349801.0		
1476	0.5	0.7			1.5							1476	450293.3	3349884.0	450247.9	3349835.0	450250.3	3349811.0		
1477	0.6	0.7			1.5							1477	450342.5	3349895.0	450297.3	3349844.0	450299.1	3349826.0		
1478	0.7	0.7			1.1							1478	450392.0	3349902.0	450347.4	3349845.0	450348.4	3349835.0		
1479	0.6	0.7			0.6							1479	450441.3	3349912.0	450395.8	3349864.0	450397.8	3349844.0		
1480	0.4	0.7			1.3							1480	450490.9	3349918.0	450443.8	3349886.0	450447.3	3349851.0		
1481	0.2	0.7			2.2							1481	450539.8	3349932.0	450492.0	3349907.0	450496.5	3349862.0		
1482	0.2	0.7			2.9							1482	450588.6	3349946.0	450540.9	3349920.0	450545.5	3349874.0		
1483	0.3	0.7			2.9							1483	450637.6	3349959.0	450590.5	3349927.0	450594.8	3349883.0		
1484	0.4	0.7			2.7							1484	450686.9	3349968.0	450640.3	3349931.0	450643.3	3349901.0		
1485	0.5	0.6			1.9							1485	450736.0	3349980.0	450690.4	3349933.0	450691.8	3349919.0		
1486	0.5	0.6			0.9							1486	450784.5	3349997.0	450739.5	3349944.0	450741.1	3349929.0		
1487	0.5	0.6			1.0							1487	450833.2	3350013.0	450787.8	3349964.0	450789.9	3349943.0		
1488	0.6	0.7			1.3							1488	450882.2	3350026.0	450837.3	3349972.0	450838.8	3349957.0		
1489	0.5	0.7			0.9							1489	450931.2	3350038.0	450885.7	3349991.0	450887.8	3349969.0		
1490	0.4	0.6			1.4							1490	450980.4	3350049.0	450934.1	3350009.0	450936.3	3349986.0		
1491	0.3	0.6			1.4							1491	451029.6	3350059.0	450982.8	3350025.0	450985.3	3349999.0		
1492	0.4	0.5			1.6							1492	451078.8	3350069.0	451032.2	3350033.0	451034.1	3350014.0		
1493	0.5	0.5			1.2							1493	451128.0	3350080.0	451081.9	3350038.0	451082.8	3350030.0		
1494	0.6	0.5			0.5							1494	451177.4	3350089.0	451132.2	3350038.0	451132.4	3350036.0		
1495	0.7	0.5			0.1							1495	451226.8	3350097.0	451182.3	3350040.0	451181.9	3350043.0		
1496	0.8	0.5			-0.2							1496	451276.4	3350104.0	451232.0	3350045.0	451231.3	3350052.0		
1497	0.8	0.5			-0.5							1497	451326.0	3350110.0	451281.9	3350048.0	451280.7	3350060.0		
1498	0.8	0.4			-0.7							1498	451375.3	3350119.0	451331.3	3350057.0	451329.2	3350078.0		
1499	0.5	0.3			-1.3							1499	451424.5	3350130.0	451378.9	3350083.0	451377.6	3350097.0		
1500	0.5	0.2			-0.9							1500	451473.8	3350140.0	451427.6	3350099.0	451426.4	3350111.0		
1501	0.4	0.2			-0.8							1501	451523.0	3350150.0	451476.7	3350111.0	451475.6	3350122.0		
1502	0.3	0.3			-0.7							1502	451572.3	3350160.0	451525.2	3350128.0	451525.3	3350127.0		
1503	0.3	0.3			0.1							1503	451622.1	3350165.0	451574.3	3350140.0	451575.1	3350132.0		
1504	0.2	0.4			0.5							1504	451671.8	3350170.0	451623.5	3350150.0	451625.7	3350128.0		
1505	0.1	0.4			1.4							1505	451721.2	3350178.0	451672.4	3350163.0	451675.4	3350134.0		
1506		0.4			1.8							1506	451770.5	3350188.0	451720.7	3350184.0	451724.8	3350142.0		
1507		0.4			2.6							1507	451819.8	3350197.0	451770.0	3350193.0	451774.0	3350152.0		
1508		0.3			2.6							1508	451868.9	3350209.0	451819.6	3350200.0	451822.3	3350172.0		
1509																				