



Appendix C

Maximum Water Surface Elevations



**US Army Corps
of Engineers**
Norfolk District

Chesapeake
VIRGINIA

Department of Public Works

URS

Table C-1. Existing Conditions Peak Water Surface Elevations (Scenario 1)

Vertical Datum: NAVD 1988

This modeling was completed using SWMM Version 5, with Nodal Ponding enabled.

Blue Shaded Numbers indicate locations where the maximum computed water surface meets or exceeds the ground elevation for that node. Blue shaded numbers are 'approximate' (as are other maximum computed elevations nearby).

Junction Number	Ground Elevation (ft)	Maximum Computed Water Surface Elevation					
		2-Yr (ft)	5-Yr (ft)	10-Yr (ft)	25-Yr (ft)	50-Yr (ft)	100-Yr (ft)
104	18.00	16.80	17.50	17.89	18.00	18.01	18.02
105	18.00	16.77	17.49	17.88	18.00	18.00	18.01
106	18.00	16.59	17.07	17.40	17.62	17.77	17.91
107	18.00	16.67	17.17	17.42	17.68	18.00	18.01
111	18.00	15.61	16.75	17.32	17.43	17.44	17.44
113	17.00	14.44	14.46	14.42	15.15	15.87	16.07
115	14.50	12.47	13.24	13.47	14.44	14.55	14.61
117	14.50	12.34	13.06	13.31	14.15	14.35	14.48
119	11.50	9.97	10.83	11.17	11.23	11.36	11.44
120	11.00	9.90	10.79	11.00	11.01	11.03	11.09
123	14.60	12.03	12.87	13.18	14.01	14.27	14.44
125	15.30	11.93	12.63	12.86	13.40	13.58	13.70
127	14.00	11.76	12.43	12.64	13.16	13.34	13.47
131	11.00	9.44	9.79	9.95	10.06	10.17	10.26
133	12.00	6.79	7.29	7.80	8.85	9.57	9.90
137	11.00	4.68	6.36	7.31	8.45	9.01	9.30
139	10.90	4.65	6.30	7.21	8.30	8.73	8.99
141	10.50	4.51	6.21	7.13	8.23	8.65	8.91
143	11.00	7.21	7.59	7.80	8.29	8.71	8.98
145	9.50	4.47	6.17	7.10	8.20	8.61	8.88
149	8.30	4.42	6.11	7.04	8.14	8.54	8.80
151	8.30	4.39	5.96	6.77	7.69	8.01	8.18
155	12.00	9.87	10.66	11.12	11.65	12.01	12.04
157	12.00	9.59	10.34	10.79	11.32	11.76	11.79
159	11.80	9.54	10.31	10.73	11.22	11.61	11.64
161	11.50	9.45	10.22	10.63	11.13	11.52	11.56
162	10.50	7.49	7.96	8.18	8.39	8.58	8.73
163	8.30	4.40	6.00	6.83	7.81	8.20	8.33
167	12.30	8.00	8.36	8.54	9.16	9.88	10.14
169	12.00	7.90	8.26	8.45	9.16	9.87	10.13
170	11.50	7.75	8.07	8.24	9.15	9.86	10.12
171	10.50	7.93	8.66	9.07	9.84	10.51	10.57
172	10.50	6.80	7.45	8.04	9.11	9.79	9.97
173	12.00	6.57	7.36	7.98	9.09	9.76	9.92
175	12.10	6.39	7.14	7.77	8.80	9.26	9.39
181	7.95	4.35	6.00	6.89	7.94	8.19	8.41
183	7.95	4.33	5.89	6.68	7.61	7.92	8.07
185	7.95	4.29	5.84	6.63	7.56	7.87	8.02
187	7.96	4.27	5.82	6.60	7.49	7.81	7.95

Table C-1. Existing Conditions Peak Water Surface Elevations (Scenario 1)

Vertical Datum: NAVD 1988

This modeling was completed using SWMM Version 5, with Nodal Ponding enabled.

Blue Shaded Numbers indicate locations where the maximum computed water surface meets or exceeds the ground elevation for that node. Blue shaded numbers are 'approximate' (as are other maximum computed elevations nearby).

Junction Number	Ground Elevation (ft)	Maximum Computed Water Surface Elevation					
		2-Yr (ft)	5-Yr (ft)	10-Yr (ft)	25-Yr (ft)	50-Yr (ft)	100-Yr (ft)
195	10.50	9.54	10.04	10.31	10.50	10.52	10.55
203	10.50	5.69	6.23	6.51	7.29	7.80	8.06
209	10.00	3.83	5.36	6.17	6.97	7.39	7.59
211	9.00	3.81	5.35	6.13	6.92	7.29	7.47
213	10.50	8.82	9.27	9.60	10.28	10.54	10.62
215	9.00	3.27	4.78	5.55	6.32	6.73	6.96
217	8.50	3.12	4.61	5.37	6.14	6.56	6.82
227	17.00	16.24	17.00	17.00	17.01	17.02	17.04
228	17.00	15.62	15.93	15.97	15.98	16.00	16.02
229	16.50	14.89	15.68	15.76	15.78	15.81	15.84
232	15.00	14.35	15.01	15.03	15.07	15.13	15.19
235	15.90	10.97	11.55	11.85	12.18	12.52	12.84
237	15.80	10.96	11.55	11.85	12.16	12.49	12.81
240	15.00	10.91	11.50	11.79	12.12	12.48	12.80
241	14.00	10.89	11.47	11.77	12.10	12.46	12.78
242	13.50	10.88	11.45	11.77	12.10	12.46	12.78
243	13.50	10.87	11.45	11.76	12.09	12.45	12.76
245	13.00	10.88	11.45	11.75	12.09	12.44	12.76
249	12.70	9.36	9.64	9.80	9.97	10.17	10.37
251	13.50	9.13	9.31	9.42	9.54	9.70	9.86
261	15.00	14.05	14.55	14.72	14.87	14.99	15.00
265	14.50	11.33	11.87	11.98	12.13	12.35	12.65
267	12.30	10.99	12.07	12.14	12.30	12.31	12.37
268	12.00	10.85	12.01	12.05	12.12	12.23	12.31
269	12.30	10.25	10.86	11.06	11.33	11.70	12.07
271	12.30	9.58	9.95	10.10	10.25	10.39	10.46
275	12.00	7.71	8.26	8.43	8.63	8.86	9.03
277	11.00	6.20	6.94	7.26	7.60	8.00	8.32
279	9.70	5.57	6.26	6.60	7.01	7.50	7.89
281	9.78	5.52	6.18	6.51	6.90	7.36	7.69
285	10.50	4.51	5.40	5.92	6.49	7.04	7.42
286	10.80	9.73	10.31	10.46	10.59	10.80	10.82
287	11.50	9.17	9.79	9.99	10.25	10.59	10.72
288	10.00	8.82	9.50	9.51	9.76	10.00	10.02
290	10.00	6.79	7.31	7.70	7.85	7.87	7.86
291	10.00	2.98	4.43	5.16	5.91	6.36	6.64
295	11.00	8.56	9.57	10.07	10.29	10.55	10.78
297	10.50	7.54	8.49	9.03	9.31	9.60	9.90
299	10.00	4.65	5.82	6.45	7.03	7.49	7.82

Table C-1. Existing Conditions Peak Water Surface Elevations (Scenario 1)

Vertical Datum: NAVD 1988

This modeling was completed using SWMM Version 5, with Nodal Ponding enabled.

Blue Shaded Numbers indicate locations where the maximum computed water surface meets or exceeds the ground elevation for that node. Blue shaded numbers are 'approximate' (as are other maximum computed elevations nearby).

Junction Number	Ground Elevation (ft)	Maximum Computed Water Surface Elevation					
		2-Yr (ft)	5-Yr (ft)	10-Yr (ft)	25-Yr (ft)	50-Yr (ft)	100-Yr (ft)
303	9.50	2.99	4.40	5.13	5.91	6.38	6.69
304	9.50	2.85	4.24	4.94	5.67	6.13	6.43
305	9.50	2.83	4.21	4.91	5.63	6.09	6.39
311	17.73	14.57	15.08	15.33	15.59	15.86	16.09
313	17.70	14.52	15.01	15.26	15.51	15.77	15.99
314	14.35	11.98	12.63	13.03	13.50	14.06	14.15
315	14.80	11.95	12.61	13.02	13.50	14.06	14.14
316	14.70	11.95	12.61	13.01	13.49	14.05	14.13
317	14.00	11.92	12.56	12.96	13.44	14.00	14.04
319	14.00	11.88	12.50	12.84	13.24	13.72	13.82
321	13.50	11.22	11.91	12.27	12.62	13.00	13.35
322	12.50	10.62	11.07	11.30	11.56	11.89	12.21
323	11.50	9.40	10.04	10.36	10.67	11.18	11.48
325	11.50	8.10	8.96	9.59	10.34	10.83	11.02
327	12.00	9.43	10.32	10.99	11.75	12.07	12.20
329	10.50	7.95	8.78	9.40	10.12	10.52	10.63
330	11.00	6.82	7.15	7.33	7.51	7.69	7.85
331	10.30	7.89	8.57	9.05	9.57	9.85	9.94
332	11.00	8.61	9.23	9.56	9.90	10.26	10.57
333	12.00	5.43	6.45	6.97	7.59	8.22	8.43
334	11.00	4.11	4.16	4.16	4.35	4.89	5.25
335	7.50	3.04	3.37	3.59	4.12	4.69	5.12
341	10.00	2.54	3.76	4.38	5.03	5.50	5.81
342	8.00	2.21	3.33	3.93	4.56	5.08	5.42
343	6.00	2.11	3.16	3.74	4.35	4.89	5.25
345	6.70	2.04	3.05	3.61	4.22	4.77	5.13
347	6.77	2.02	3.00	3.55	4.14	4.65	5.01
349	10.00	7.26	7.60	7.79	8.00	8.24	8.45
350	9.50	5.84	6.41	6.70	7.34	7.50	7.69
351	7.20	4.21	4.75	6.44	7.20	7.20	7.20
353	7.80	2.12	2.60	3.09	3.64	4.15	4.52
359	11.84	8.74	9.34	9.67	10.05	10.48	10.88
361	11.84	8.72	9.30	9.62	9.96	10.32	10.65
362	11.50	8.50	9.11	9.44	9.79	10.17	10.51
365	11.00	9.10	10.45	11.00	11.02	11.07	11.14
366	10.00	7.89	8.56	8.90	9.27	9.66	10.00
367	11.00	9.05	10.43	11.00	11.00	11.05	11.12
369	10.90	8.90	9.91	10.39	10.52	10.70	10.85
371	11.80	9.28	10.01	10.41	10.87	11.34	11.45

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Vertical Datum: NAVD 1988

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Junction Number	Ground Elevation (ft)	Maximum Computed Water Surface Elevation					
		2-Yr (ft)	5-Yr (ft)	10-Yr (ft)	25-Yr (ft)	50-Yr (ft)	100-Yr (ft)
375	11.00	8.95	9.71	10.16	10.70	11.00	11.01
377	11.00	8.85	9.44	9.92	10.27	10.50	10.56
379	9.90	7.97	9.11	9.77	9.91	9.95	10.02
381	9.90	7.89	9.03	9.69	9.84	9.85	9.90
385	10.00	7.53	8.15	8.46	8.80	9.16	9.48
387	10.00	6.82	7.31	7.56	7.92	8.37	8.74
389	5.83	4.07	5.80	5.81	5.81	5.82	5.84
390	5.83	1.58	2.21	2.63	3.10	3.56	3.90
391	10.50	7.79	9.00	9.67	9.83	9.83	9.89
393	10.60	7.58	8.96	9.65	9.82	9.82	9.87
395	10.60	7.39	8.17	8.55	8.64	8.70	8.74
401	8.10	5.94	7.28	7.68	7.74	7.82	7.97
409	7.60	5.88	7.25	7.61	7.68	7.77	7.86
411	7.30	5.68	6.87	6.95	6.96	6.98	7.00
413	8.00	4.96	6.74	6.75	6.75	6.75	6.75
415	8.00	4.73	5.07	5.36	5.38	5.38	5.36
423	7.40	2.77	3.24	3.61	4.03	4.51	4.96
425	6.60	2.46	3.17	3.55	3.95	4.40	4.79
427	6.70	4.04	4.24	4.35	4.48	4.68	5.20
429	6.80	3.13	3.26	3.50	3.92	4.36	4.74
430	10.00	9.00	9.80	10.04	10.13	10.25	10.38
431	10.00	8.63	9.58	9.97	10.03	10.12	10.23
432	10.00	8.40	9.26	9.67	9.73	9.80	9.89
433	9.00	5.69	6.54	6.60	6.54	6.46	6.40
435	5.90	2.35	3.10	3.49	3.91	4.34	4.72
437	5.70	2.35	3.09	3.48	3.89	4.31	4.68
439	5.40	2.32	3.06	3.45	3.85	4.28	4.64
441	5.40	2.30	3.00	3.36	3.72	4.08	4.37
445	5.60	1.89	2.62	2.86	3.31	3.75	4.08
447	5.10	1.84	2.54	2.77	3.25	3.68	4.00
451	5.00	1.63	2.21	2.63	3.12	3.57	3.90
453	4.00	1.55	2.21	2.62	3.10	3.56	3.89
461	4.23	1.54	2.20	2.60	3.06	3.52	3.86
463	4.25	1.54	2.20	2.60	3.06	3.52	3.86
467	10.00	9.25	9.97	10.00	10.01	10.03	10.07
468	10.00	8.67	9.61	9.70	9.71	9.73	9.77
469	10.00	8.28	8.68	8.77	8.80	8.83	8.87
471	9.00	7.95	8.03	8.06	8.13	8.22	8.34
472	8.00	7.95	8.02	8.06	8.13	8.22	8.33

Table C-1. Existing Conditions Peak Water Surface Elevations (Scenario 1)

Vertical Datum: NAVD 1988

This modeling was completed using SWMM Version 5, with Nodal Ponding enabled.

Blue Shaded Numbers indicate locations where the maximum computed water surface meets or exceeds the ground elevation for that node. Blue shaded numbers are 'approximate' (as are other maximum computed elevations nearby).

Junction Number	Ground Elevation (ft)	Maximum Computed Water Surface Elevation					
		2-Yr (ft)	5-Yr (ft)	10-Yr (ft)	25-Yr (ft)	50-Yr (ft)	100-Yr (ft)
473	8.00	4.49	5.62	5.59	5.58	5.58	5.57
474	8.00	4.46	5.53	5.53	5.53	5.52	5.51
475	7.00	5.10	6.09	7.00	7.00	7.00	7.01
476	7.00	4.66	5.27	5.76	5.88	5.95	5.97
478	7.00	5.34	5.61	5.77	5.96	6.22	6.59
479	7.00	4.80	5.06	5.21	5.40	5.60	5.78
480	6.00	2.96	3.28	3.44	3.57	3.78	4.15
483	8.00	1.79	2.09	2.33	2.61	3.03	3.38
485	7.00	1.62	2.04	2.29	2.59	3.03	3.38
503	18.80	15.81	16.44	17.20	18.80	18.81	18.82
504	18.80	13.01	13.61	14.18	14.80	15.17	15.37
505	21.43	12.97	13.89	14.45	15.13	15.95	16.76
506	19.80	12.97	13.89	14.45	15.13	15.95	16.76
507	20.30	12.10	12.59	12.89	13.23	13.62	13.95
509	20.30	12.10	12.61	12.92	13.31	13.76	14.16
511	20.30	12.09	12.56	12.86	13.23	13.65	14.03
513	23.16	12.61	13.19	13.50	13.86	14.24	14.58
515	20.80	13.79	14.35	14.70	15.12	15.60	16.07
517	22.80	13.79	14.35	14.70	15.11	15.59	16.06
518	18.50	15.00	15.51	15.78	16.08	16.44	16.82
519	20.40	13.78	14.33	14.66	15.04	15.48	15.92
520	20.28	13.61	14.07	14.32	14.61	14.94	15.29
521	20.75	13.62	14.10	14.36	14.66	15.01	15.40
522	19.00	17.24	17.63	17.84	18.08	18.35	18.61
524	20.43	13.34	13.81	14.06	14.36	14.71	15.05
525	19.80	14.71	15.18	15.44	15.74	16.09	16.43
526	18.60	14.96	15.48	15.74	16.09	16.46	16.95
527	20.80	15.01	15.57	15.86	16.26	16.68	17.28
528	20.80	14.98	15.53	15.81	16.18	16.56	17.14
529	19.60	13.79	14.37	14.74	15.20	15.75	16.28
531	19.80	13.79	14.36	14.72	15.16	15.67	16.16
532	17.00	15.48	16.48	17.00	17.01	17.03	17.05
533	16.00	14.18	14.30	14.33	14.36	14.36	14.36
535	18.27	12.76	13.46	13.85	14.28	14.75	15.16
535.1	19.21	12.76	13.45	13.84	14.28	14.75	15.15
535.2	19.00	12.75	13.43	13.82	14.26	14.73	15.14
535.3	18.73	12.75	13.43	13.82	14.26	14.73	15.14
535.4	17.90	12.73	13.41	13.80	14.24	14.71	15.12
537	13.80	12.96	13.54	13.55	13.80	13.80	13.81

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Junction Number	Ground Elevation (ft)	Maximum Computed Water Surface Elevation					
		2-Yr (ft)	5-Yr (ft)	10-Yr (ft)	25-Yr (ft)	50-Yr (ft)	100-Yr (ft)
538	15.50	12.05	12.42	12.69	13.04	13.26	13.38
541	11.50	9.66	10.27	10.91	11.39	11.51	11.52
542	11.45	9.66	10.25	10.88	11.24	11.45	11.45
543	16.05	12.71	13.39	13.77	14.21	14.69	15.10
544	15.54	12.72	13.39	13.78	14.22	14.70	15.11
545	17.73	12.74	13.41	13.80	14.24	14.73	15.14
546	13.75	10.96	11.42	11.65	11.98	12.38	12.74
547	13.16	10.13	10.55	11.11	11.75	12.24	12.63
548	12.00	8.77	9.51	9.93	10.30	10.49	10.56
549	12.00	8.68	9.43	9.85	10.22	10.43	10.52
551	14.99	10.88	11.54	11.87	12.12	12.27	12.36
552	14.99	10.81	11.44	11.75	11.96	12.07	12.13
553	12.30	10.64	11.10	11.34	11.69	12.11	12.30
554	11.00	9.26	9.86	10.51	11.01	11.07	11.12
555	12.26	8.84	9.80	10.47	11.02	11.09	11.13
556	11.00	7.97	9.70	10.41	10.98	11.00	11.04
557	8.50	7.54	8.52	8.58	8.67	8.76	8.84
558	8.50	7.48	8.41	8.48	8.52	8.57	8.62
559	10.00	7.29	8.04	8.21	8.35	8.47	8.53
561	10.30	4.62	5.38	5.92	6.54	7.23	7.84
562	10.00	4.59	5.26	5.80	6.35	6.81	7.16
563	10.00	8.68	9.08	9.29	9.51	9.74	9.96
565	9.50	8.11	8.53	8.75	8.99	9.38	9.51
566	10.00	7.77	8.14	8.36	8.67	9.20	9.33
567	9.70	7.54	7.91	8.15	8.57	9.15	9.28
568	8.32	6.68	7.51	7.82	8.16	8.33	8.37
569	8.45	6.67	7.48	7.76	8.06	8.23	8.29
570	10.00	6.64	7.46	7.71	7.98	8.14	8.22
571	9.50	6.67	7.47	7.69	7.94	8.11	8.19
572	10.40	6.62	7.44	7.68	7.94	8.11	8.19
573	8.00	4.47	5.29	5.84	6.37	6.82	7.15
575	8.00	4.12	5.29	5.84	6.38	6.82	7.15
576	9.30	6.51	7.29	7.51	7.73	7.93	8.07
577	9.90	7.77	8.63	8.95	9.22	9.46	9.55
579	10.00	7.19	7.96	8.16	8.33	8.47	8.53
581	10.00	6.48	7.25	7.47	7.67	7.89	8.05
582	9.00	8.69	9.00	9.01	9.03	9.07	9.11
583	11.00	7.77	8.63	8.95	9.22	9.46	9.54
584	8.10	8.10	8.12	8.13	8.15	8.17	8.19

Table C-1. Existing Conditions Peak Water Surface Elevations (Scenario 1)

Vertical Datum: NAVD 1988

This modeling was completed using SWMM Version 5, with Nodal Ponding enabled.

Blue Shaded Numbers indicate locations where the maximum computed water surface meets or exceeds the ground elevation for that node. Blue shaded numbers are 'approximate' (as are other maximum computed elevations nearby).

Junction Number	Ground Elevation (ft)	Maximum Computed Water Surface Elevation					
		2-Yr (ft)	5-Yr (ft)	10-Yr (ft)	25-Yr (ft)	50-Yr (ft)	100-Yr (ft)
585	8.50	4.12	5.29	5.84	6.38	6.82	7.15
586	9.50	6.52	7.29	7.51	7.73	7.93	8.07
587	8.60	3.95	5.18	5.75	6.30	6.75	7.08
588	16.30	14.38	15.51	15.72	16.02	16.30	16.30
589	8.70	3.95	5.17	5.74	6.28	6.72	7.05
590	15.10	14.29	15.10	15.10	15.10	15.11	15.11
591	15.00	14.20	15.00	15.01	15.01	15.01	15.02
592	14.20	13.41	13.55	13.50	13.47	13.49	13.50
593	12.10	10.91	11.44	11.75	12.04	12.11	12.13
594	8.50	8.50	8.50	8.51	8.51	8.52	8.53
595	9.50	8.13	8.71	8.99	9.26	9.48	9.53
596	9.20	6.68	7.48	7.70	7.94	8.11	8.19
597	7.60	7.61	7.62	7.63	7.64	7.66	7.68
598	9.00	6.73	7.48	7.70	7.94	8.10	8.19
599	8.10	3.65	4.99	5.60	6.17	6.63	6.97
600	9.00	6.71	7.48	7.70	7.94	8.10	8.19
601	8.10	3.63	4.96	5.57	6.13	6.58	6.90
607	14.41	12.75	13.04	13.19	13.36	13.53	13.72
609	9.00	7.72	8.23	8.48	8.74	8.99	9.01
613	8.50	3.60	4.94	5.55	6.11	6.56	6.88
614	8.50	3.58	4.93	5.54	6.10	6.54	6.87
615	8.70	6.01	7.17	8.32	8.70	8.71	8.70
616	8.70	4.39	4.91	5.52	6.08	6.53	6.85
617	13.00	11.79	12.37	12.67	13.00	13.01	13.04
619	12.20	11.05	11.73	12.11	12.24	12.34	12.45
621	11.00	9.67	10.29	10.61	10.98	11.04	11.10
627	12.00	11.01	11.56	11.96	12.00	12.03	12.06
629	11.75	10.72	11.38	11.75	11.77	11.81	11.85
631	11.40	10.57	11.11	11.37	11.40	11.43	11.45
635	11.00	9.85	10.38	10.63	10.85	11.01	11.04
641	10.20	7.50	8.78	9.56	10.07	10.17	10.22
642	11.00	10.11	10.74	11.00	11.00	11.01	11.02
643	10.00	9.70	10.00	10.01	10.02	10.07	10.13
644	10.00	8.26	9.38	9.51	9.74	9.80	9.88
645	10.00	8.02	9.33	9.48	9.73	9.79	9.87
647	9.80	7.68	8.29	8.81	9.32	9.40	9.50
649	9.25	6.71	8.04	8.74	9.25	9.34	9.44
651	10.00	6.61	7.97	8.68	9.18	9.28	9.38
653	9.60	6.26	7.62	8.33	8.86	9.00	9.13

Table C-1. Existing Conditions Peak Water Surface Elevations (Scenario 1)

Vertical Datum: NAVD 1988

This modeling was completed using SWMM Version 5, with Nodal Ponding enabled.

Blue Shaded Numbers indicate locations where the maximum computed water surface meets or exceeds the ground elevation for that node. Blue shaded numbers are 'approximate' (as are other maximum computed elevations nearby).

Junction Number	Ground Elevation (ft)	Maximum Computed Water Surface Elevation					
		2-Yr (ft)	5-Yr (ft)	10-Yr (ft)	25-Yr (ft)	50-Yr (ft)	100-Yr (ft)
654	9.00	3.57	4.91	5.52	6.08	6.53	6.85
655	9.50	6.22	7.48	8.11	8.56	8.71	8.86
656	8.00	8.00	8.00	8.01	8.01	8.02	8.03
657	8.50	6.37	6.70	6.85	7.01	7.16	7.30
658	8.20	3.71	5.10	5.76	6.32	6.71	6.99
659	9.50	3.54	4.87	5.49	6.04	6.48	6.80
665	10.00	3.24	4.43	4.97	5.45	5.87	6.21
671	12.10	10.68	11.45	11.55	11.72	11.86	12.06
673	12.10	10.63	11.19	11.20	11.22	11.22	11.71
675	12.00	9.05	9.58	9.88	10.30	10.72	11.47
679	11.60	7.63	8.45	8.98	9.68	10.41	11.24
681	11.40	7.49	8.20	8.59	8.99	9.42	9.81
683	11.00	6.62	7.51	7.94	8.37	8.83	9.23
685	10.90	9.30	9.79	10.04	10.30	10.58	10.84
687	10.00	5.99	6.79	7.21	7.62	8.05	8.44
689	10.00	5.20	5.99	6.41	6.80	7.23	7.62
692	12.10	12.10	12.15	12.20	12.25	12.31	12.38
693	12.20	12.12	12.20	12.20	12.24	12.30	12.36
694	12.20	12.08	12.20	12.20	12.21	12.23	12.28
695	12.00	12.00	12.02	12.05	12.10	12.17	12.22
696	12.00	11.45	11.60	11.60	11.61	11.66	11.70
697	12.00	11.41	11.56	11.56	11.57	11.61	11.65
699	12.00	9.17	9.24	9.26	9.29	9.45	9.55
700	12.00	11.18	11.67	11.93	12.01	12.05	12.11
701	12.00	10.57	11.16	11.48	11.76	11.88	12.00
702	11.00	9.76	10.46	10.87	11.05	11.15	11.26
703	9.90	7.41	8.02	8.58	9.13	9.24	9.43
704	10.50	8.54	9.44	10.04	10.29	10.46	10.52
705	9.60	7.31	7.86	8.08	8.10	8.41	8.73
707	11.00	5.06	5.80	6.18	6.49	6.91	7.33
713	11.60	8.16	9.04	9.54	9.77	9.94	10.02
715	11.30	8.15	8.99	9.44	9.65	9.80	9.88
716	11.00	7.06	8.05	8.54	8.86	9.12	9.31
717	10.55	6.66	7.59	8.04	8.35	8.60	8.79
719	10.50	6.64	7.55	7.98	8.24	8.45	8.62
721	10.50	3.18	4.34	4.87	5.33	5.73	6.07
723	10.00	3.06	4.20	4.72	5.17	5.59	5.94
724	11.59	10.20	10.68	11.05	11.37	11.46	11.57
725	11.19	9.94	10.57	10.91	11.19	11.22	11.26

Table C-1. Existing Conditions Peak Water Surface Elevations (Scenario 1)

Vertical Datum: NAVD 1988

This modeling was completed using SWMM Version 5, with Nodal Ponding enabled.

Blue Shaded Numbers indicate locations where the maximum computed water surface meets or exceeds the ground elevation for that node. Blue shaded numbers are 'approximate' (as are other maximum computed elevations nearby).

Junction Number	Ground Elevation (ft)	Maximum Computed Water Surface Elevation					
		2-Yr (ft)	5-Yr (ft)	10-Yr (ft)	25-Yr (ft)	50-Yr (ft)	100-Yr (ft)
726	11.19	9.82	10.52	10.75	11.07	11.18	11.19
727	9.50	2.34	3.33	3.81	4.27	4.79	5.22
729	9.50	2.33	3.30	3.78	4.22	4.74	5.17
730	12.00	9.68	10.40	10.57	10.91	11.14	11.37
731	12.00	9.22	9.60	9.83	9.85	9.86	9.85
733	10.40	7.11	7.47	7.65	7.84	8.03	8.19
735	8.00	4.88	5.27	5.46	5.66	5.86	6.03
737	8.00	4.82	5.18	5.35	5.52	5.69	5.84
739	6.00	2.19	2.74	3.03	3.42	3.83	4.18
741	5.50	1.82	2.56	2.96	3.38	3.77	4.11
743	4.00	1.82	2.56	2.96	3.38	3.77	4.10
747	10.90	5.25	6.68	7.85	8.01	8.09	8.20
749	7.80	4.33	6.61	7.80	7.80	7.80	7.80
751	7.80	2.46	2.58	3.14	4.79	5.26	5.64
752	11.74	10.80	11.31	11.61	11.74	11.75	11.78
753	4.00	1.70	2.40	2.79	3.22	3.67	4.00
754	14.30	13.80	14.20	14.30	14.30	14.31	14.33
755	12.10	10.35	10.84	11.09	11.29	11.49	11.67
756	12.00	9.78	10.37	10.68	10.92	11.10	11.26
757	10.20	10.21	10.22	10.23	10.24	10.27	10.30
759	10.30	9.33	9.34	9.34	9.35	9.36	9.37
761	10.00	1.56	2.22	2.63	3.09	3.55	3.89
762	12.00	9.54	10.15	10.48	10.73	10.92	11.09
763	12.00	9.48	10.07	10.38	10.61	10.77	10.90
765	11.10	6.27	6.78	7.27	7.83	8.26	8.67
766	12.00	5.92	6.70	7.21	7.78	8.22	8.62
767	15.33	12.13	12.77	13.10	13.45	13.82	14.15
769	13.40	10.53	11.35	11.77	12.21	12.67	13.07
771	12.00	8.60	9.36	9.77	10.23	10.87	11.57
773	9.79	5.06	6.21	6.84	7.51	8.10	8.64
775	9.79	5.03	6.17	6.79	7.41	7.94	8.40
777	8.00	4.06	5.17	5.79	6.40	6.91	7.36
779	9.57	3.65	4.76	5.38	5.98	6.48	6.91
781	9.59	3.63	4.72	5.34	5.92	6.41	6.84
785	7.85	6.42	7.55	7.85	7.85	7.86	7.86
787	7.80	5.95	6.26	6.36	6.36	6.36	6.36
789	8.00	3.03	4.05	4.63	5.19	5.66	6.08
791	5.50	2.29	2.97	3.50	4.11	4.66	5.09
793	8.00	2.15	2.94	3.50	4.11	4.66	5.07

Table C-1. Existing Conditions Peak Water Surface Elevations (Scenario 1)

Vertical Datum: NAVD 1988

This modeling was completed using SWMM Version 5, with Nodal Ponding enabled.

Blue Shaded Numbers indicate locations where the maximum computed water surface meets or exceeds the ground elevation for that node. Blue shaded numbers are 'approximate' (as are other maximum computed elevations nearby).

Junction Number	Ground Elevation (ft)	Maximum Computed Water Surface Elevation					
		2-Yr (ft)	5-Yr (ft)	10-Yr (ft)	25-Yr (ft)	50-Yr (ft)	100-Yr (ft)
795	8.00	1.95	2.90	3.46	4.07	4.60	4.99
799	7.00	1.92	2.87	3.42	4.02	4.56	4.93
801	6.79	1.83	2.73	3.26	3.85	4.38	4.76
803	6.73	1.80	2.66	3.17	3.72	4.24	4.60
805	6.00	1.76	2.60	3.09	3.64	4.15	4.52
807	6.00	1.62	2.35	2.78	3.27	3.78	4.15
809	5.13	1.60	2.32	2.75	3.23	3.74	4.11
811	5.08	1.60	2.30	2.73	3.18	3.66	4.00
815	4.00	1.54	2.19	2.60	3.05	3.51	3.85
817	8.00	1.52	2.16	2.56	3.00	3.46	3.80
818	10.50	9.04	9.54	9.79	10.06	10.38	10.50
820	10.00	7.78	8.50	9.08	9.50	9.51	9.52
821	9.90	7.00	7.34	7.47	7.67	8.31	8.90
822	6.50	3.97	4.20	4.30	4.41	4.53	4.66
825	9.10	4.98	5.77	6.42	6.93	7.50	8.09
827	9.00	4.77	5.50	6.02	6.29	6.42	6.54
828	8.94	8.91	8.95	8.96	9.01	9.09	9.18
829	8.94	7.14	7.47	7.48	7.48	7.50	7.51
831	6.10	4.28	5.22	5.85	6.12	6.22	6.37
833	6.50	2.61	3.32	3.60	3.94	4.19	4.35
837	7.10	2.13	2.72	2.97	3.28	3.52	3.88
839	6.50	1.58	2.12	2.36	2.79	3.25	3.71
841	6.10	1.43	1.98	2.35	2.79	3.24	3.69
843	6.30	1.41	1.98	2.35	2.78	3.24	3.64
845	4.50	2.41	3.24	4.10	4.10	4.11	4.13
846	4.50	1.51	1.91	2.28	2.71	3.16	3.52
847	8.00	1.41	1.98	2.35	2.78	3.23	3.59
848	4.00	1.37	1.91	2.28	2.70	3.15	3.50
849	7.50	1.32	1.82	2.17	2.58	3.02	3.37
851	7.50	1.24	1.67	1.99	2.37	2.78	3.11
853	10.00	8.90	9.47	9.75	10.00	10.01	10.04
855	12.00	11.11	11.65	11.93	12.00	12.01	12.03
859	10.00	8.12	8.64	8.94	9.48	10.01	10.06
863	10.00	7.90	8.47	8.78	9.41	9.95	10.01
865	11.00	6.98	7.82	8.37	9.07	9.54	9.62
866	10.97	6.93	7.77	8.31	8.94	9.37	9.44
867	10.00	7.93	8.69	9.12	9.70	10.08	10.20
871	10.00	6.98	8.12	8.81	9.47	9.89	10.01
873	10.20	6.77	7.69	8.13	8.57	9.02	9.27

Table C-1. Existing Conditions Peak Water Surface Elevations (Scenario 1)

Vertical Datum: NAVD 1988

This modeling was completed using SWMM Version 5, with Nodal Ponding enabled.

Blue Shaded Numbers indicate locations where the maximum computed water surface meets or exceeds the ground elevation for that node. Blue shaded numbers are 'approximate' (as are other maximum computed elevations nearby).

Junction Number	Ground Elevation (ft)	Maximum Computed Water Surface Elevation					
		2-Yr (ft)	5-Yr (ft)	10-Yr (ft)	25-Yr (ft)	50-Yr (ft)	100-Yr (ft)
875	10.40	6.72	7.65	8.10	8.55	8.99	9.25
877	10.00	6.47	7.40	7.83	8.25	8.67	8.94
879	9.00	6.36	7.26	7.66	8.04	8.35	8.50
881	9.00	6.41	7.39	7.95	8.57	9.02	9.11
883	8.95	6.38	7.33	7.81	8.30	8.66	8.75
884	9.03	6.25	7.17	7.59	8.02	8.36	8.48
885	9.00	6.25	7.14	7.54	7.92	8.21	8.35
891	8.00	5.90	6.74	7.07	7.38	7.62	7.72
893	8.30	5.69	6.45	6.73	6.99	7.19	7.27
897	8.00	2.07	2.57	2.97	3.38	3.71	3.89
903	5.12	3.75	4.19	4.41	4.65	4.90	5.12
905	3.14	3.09	3.14	3.15	3.15	3.16	3.20
907	3.14	1.32	1.59	1.77	1.92	1.99	2.28
911	8.00	5.49	6.14	6.50	6.87	7.27	7.63
913	8.60	6.85	7.79	7.94	8.19	8.38	8.60
915	8.80	6.84	7.68	7.76	7.87	7.93	8.01
917	7.47	6.83	7.47	7.48	7.50	7.57	7.67
919	7.47	5.29	5.73	5.85	6.03	6.30	6.88
921	7.07	4.47	5.20	5.49	5.81	6.18	6.85
923	7.07	3.72	4.27	4.53	4.68	4.79	4.88
941	4.20	1.03	1.26	1.50	1.84	2.44	2.84
943	4.10	0.98	1.11	1.25	1.44	1.64	1.76
949	2.70	1.03	1.23	1.40	1.66	1.99	2.28
951	2.70	1.03	1.22	1.40	1.64	1.96	2.24
955	6.00	0.96	1.03	1.10	1.22	1.41	1.61
961	6.00	0.95	0.98	1.02	1.08	1.20	1.32

Table C-2. Future Conditions Peak Water Surface Elevations (Scenario 3)

Vertical Datum: NAVD 1988

This modeling was completed using SWMM Version 5, with Nodal Ponding enabled.

Blue Shaded Numbers indicate locations where the maximum computed water surface meets or exceeds the ground elevation for that node. Blue shaded numbers are 'approximate' (as are other maximum computed elevations nearby).

Junction Number	Ground Elevation (ft)	Maximum Computed Water Surface Elevation					
		2-Yr (ft)	5-Yr (ft)	10-Yr (ft)	25-Yr (ft)	50-Yr (ft)	100-Yr (ft)
104	18.00	17.05	17.85	18.00	18.01	18.02	18.03
105	18.00	17.02	17.84	18.00	18.00	18.01	18.01
106	18.00	16.75	17.33	17.61	17.73	17.90	18.00
107	18.00	16.89	17.44	17.71	18.00	18.01	18.02
111	18.00	16.00	17.25	17.43	17.44	17.44	17.46
113	17.00	14.46	14.41	15.10	15.80	16.05	16.13
115	14.50	12.80	13.28	14.24	14.53	14.59	14.67
117	14.50	12.63	13.12	13.88	14.26	14.42	14.51
119	11.50	9.96	10.81	11.17	11.23	11.36	11.44
120	11.00	9.88	10.78	11.00	11.01	11.03	11.08
123	14.60	12.34	12.96	13.71	14.13	14.38	14.60
125	15.30	12.19	12.69	13.20	13.48	13.63	13.74
127	14.00	11.99	12.48	12.97	13.24	13.41	13.52
131	11.00	9.43	9.76	9.91	10.02	10.13	10.22
133	12.00	6.93	7.48	7.84	8.47	9.24	9.74
137	11.00	4.57	5.90	6.78	7.83	8.65	9.09
139	10.90	4.52	5.84	6.67	7.61	8.35	8.67
141	10.50	4.15	5.68	6.53	7.48	8.22	8.52
143	11.00	7.47	7.85	8.06	8.26	8.48	8.68
145	9.50	4.04	5.61	6.47	7.42	8.17	8.45
149	8.30	3.92	5.50	6.36	7.30	8.04	8.27
151	8.30	3.92	5.48	6.32	7.22	7.92	8.09
155	12.00	9.87	10.66	11.12	11.65	12.01	12.04
157	12.00	9.59	10.34	10.79	11.32	11.75	11.79
159	11.80	9.54	10.31	10.73	11.22	11.61	11.64
161	11.50	9.45	10.22	10.63	11.13	11.52	11.55
162	10.50	7.61	8.12	8.37	8.60	8.82	8.98
163	8.30	3.92	5.50	6.36	7.30	8.05	8.30
167	12.30	8.00	8.35	8.54	8.78	9.59	9.97
169	12.00	7.90	8.26	8.45	8.76	9.59	9.96
170	11.50	7.75	8.06	8.24	8.73	9.57	9.95
171	10.50	7.89	8.65	9.08	9.67	10.36	10.54
172	10.50	6.87	7.56	8.04	8.66	9.52	9.82
173	12.00	6.72	7.47	7.97	8.62	9.48	9.77
175	12.10	6.59	7.29	7.72	8.30	8.98	9.17
181	7.95	3.89	5.46	6.32	7.25	7.97	8.16
183	7.95	3.88	5.44	6.28	7.17	7.86	8.04
185	7.95	3.87	5.42	6.26	7.15	7.84	8.02
187	7.96	3.87	5.41	6.25	7.13	7.81	7.99

Table C-2. Future Conditions Peak Water Surface Elevations (Scenario 3)

Vertical Datum: NAVD 1988

This modeling was completed using SWMM Version 5, with Nodal Ponding enabled.

Blue Shaded Numbers indicate locations where the maximum computed water surface meets or exceeds the ground elevation for that node. Blue shaded numbers are 'approximate' (as are other maximum computed elevations nearby).

Junction Number	Ground Elevation (ft)	Maximum Computed Water Surface Elevation					
		2-Yr (ft)	5-Yr (ft)	10-Yr (ft)	25-Yr (ft)	50-Yr (ft)	100-Yr (ft)
195	10.50	9.54	10.03	10.29	10.50	10.52	10.56
203	10.50	5.72	6.29	6.57	7.34	8.08	8.32
209	10.00	3.78	5.30	6.14	7.03	7.75	7.94
211	9.00	3.75	5.28	6.11	6.98	7.65	7.84
213	10.50	8.96	9.44	9.72	10.37	10.55	10.64
215	9.00	3.40	4.88	5.66	6.49	7.13	7.37
217	8.50	3.25	4.71	5.48	6.29	6.93	7.19
227	17.00	16.91	17.00	17.01	17.02	17.03	17.05
228	17.00	15.79	15.97	15.97	15.99	16.01	16.03
229	16.50	15.19	15.75	15.76	15.78	15.81	15.84
232	15.00	14.59	15.01	15.04	15.08	15.14	15.20
235	15.90	10.97	11.55	11.85	12.18	12.52	12.84
237	15.80	10.96	11.55	11.85	12.16	12.49	12.81
240	15.00	10.91	11.50	11.79	12.12	12.48	12.80
241	14.00	10.89	11.47	11.77	12.10	12.46	12.78
242	13.50	10.88	11.45	11.77	12.10	12.46	12.78
243	13.50	10.87	11.45	11.76	12.09	12.45	12.76
245	13.00	10.88	11.45	11.75	12.09	12.44	12.76
249	12.70	9.35	9.63	9.79	9.97	10.17	10.37
251	13.50	9.12	9.29	9.40	9.53	9.68	9.84
261	15.00	14.23	14.70	14.87	15.00	15.00	15.01
265	14.50	11.48	11.91	12.04	12.20	12.44	12.84
267	12.30	10.99	12.07	12.14	12.30	12.31	12.37
268	12.00	10.87	12.01	12.05	12.12	12.23	12.32
269	12.30	10.33	10.91	11.13	11.41	11.81	12.23
271	12.30	9.60	9.99	10.14	10.30	10.43	10.48
275	12.00	7.79	8.30	8.47	8.67	8.90	9.04
277	11.00	6.29	6.99	7.31	7.65	8.05	8.34
279	9.70	5.65	6.30	6.65	7.06	7.59	7.98
281	9.78	5.60	6.22	6.56	6.95	7.46	7.81
285	10.50	4.56	5.46	5.98	6.58	7.20	7.59
286	10.80	9.73	10.31	10.46	10.59	10.80	10.82
287	11.50	9.17	9.79	9.99	10.24	10.59	10.72
288	10.00	8.82	9.50	9.51	9.76	10.00	10.02
290	10.00	6.73	7.31	7.70	7.85	7.86	7.85
291	10.00	3.11	4.53	5.27	6.05	6.68	6.97
295	11.00	8.56	9.57	10.07	10.29	10.55	10.78
297	10.50	7.54	8.50	9.03	9.31	9.60	9.92
299	10.00	4.65	5.82	6.45	7.07	7.57	7.91

Table C-2. Future Conditions Peak Water Surface Elevations (Scenario 3)

Vertical Datum: NAVD 1988

This modeling was completed using SWMM Version 5, with Nodal Ponding enabled.

Blue Shaded Numbers indicate locations where the maximum computed water surface meets or exceeds the ground elevation for that node. Blue shaded numbers are 'approximate' (as are other maximum computed elevations nearby).

Junction Number	Ground Elevation (ft)	Maximum Computed Water Surface Elevation					
		2-Yr (ft)	5-Yr (ft)	10-Yr (ft)	25-Yr (ft)	50-Yr (ft)	100-Yr (ft)
303	9.50	3.10	4.49	5.22	6.02	6.60	6.92
304	9.50	2.98	4.34	5.05	5.81	6.40	6.72
305	9.50	2.96	4.31	5.01	5.77	6.36	6.68
311	17.73	15.13	15.76	16.06	16.38	16.71	17.00
313	17.70	15.06	15.67	15.97	16.27	16.58	16.84
314	14.35	12.70	13.62	14.08	14.21	14.34	14.35
315	14.80	12.69	13.62	14.09	14.23	14.32	14.38
316	14.70	12.69	13.62	14.07	14.19	14.29	14.33
317	14.00	12.65	13.59	14.00	14.03	14.06	14.12
319	14.00	12.58	13.36	13.73	13.83	13.89	13.92
321	13.50	11.83	12.63	13.00	13.35	13.51	13.53
322	12.50	10.64	11.09	11.33	11.58	11.90	12.22
323	11.50	9.41	10.04	10.34	10.80	11.20	11.50
325	11.50	8.39	9.36	10.01	10.53	10.84	11.03
327	12.00	10.04	11.14	11.78	12.03	12.14	12.26
329	10.50	8.29	9.24	9.87	10.33	10.53	10.64
330	11.00	6.82	7.15	7.32	7.50	7.68	7.84
331	10.30	8.18	8.93	9.39	9.71	9.87	9.96
332	11.00	8.61	9.23	9.56	9.90	10.26	10.58
333	12.00	5.91	6.86	7.34	7.85	8.30	8.53
334	11.00	4.11	4.16	4.16	4.48	5.10	5.51
335	7.50	3.05	3.38	3.65	4.27	4.86	5.29
341	10.00	2.67	3.87	4.49	5.15	5.72	6.05
342	8.00	2.35	3.44	4.04	4.69	5.29	5.67
343	6.00	2.25	3.27	3.85	4.48	5.10	5.51
345	6.70	2.18	3.16	3.73	4.36	4.98	5.38
347	6.77	2.16	3.12	3.66	4.27	4.86	5.24
349	10.00	7.26	7.60	7.79	8.00	8.24	8.45
350	9.50	5.84	6.41	6.70	7.34	7.50	7.69
351	7.20	4.21	4.75	6.44	7.20	7.20	7.20
353	7.80	2.12	2.74	3.24	3.79	4.38	4.79
359	11.84	8.74	9.34	9.67	10.05	10.48	10.88
361	11.84	8.72	9.30	9.62	9.96	10.32	10.65
362	11.50	8.50	9.11	9.44	9.79	10.17	10.51
365	11.00	9.10	10.45	11.00	11.02	11.07	11.14
366	10.00	7.89	8.56	8.90	9.27	9.66	10.00
367	11.00	9.05	10.43	11.00	11.00	11.05	11.12
369	10.90	8.90	9.91	10.39	10.52	10.70	10.86
371	11.80	9.28	10.01	10.40	10.83	11.32	11.45

Table C-2. Future Conditions Peak Water Surface Elevations (Scenario 3)

Vertical Datum: NAVD 1988

This modeling was completed using SWMM Version 5, with Nodal Ponding enabled.

Blue Shaded Numbers indicate locations where the maximum computed water surface meets or exceeds the ground elevation for that node. Blue shaded numbers are 'approximate' (as are other maximum computed elevations nearby).

Junction Number	Ground Elevation (ft)	Maximum Computed Water Surface Elevation					
		2-Yr (ft)	5-Yr (ft)	10-Yr (ft)	25-Yr (ft)	50-Yr (ft)	100-Yr (ft)
375	11.00	8.95	9.69	10.11	10.58	11.00	11.01
377	11.00	8.85	9.42	9.71	10.01	10.40	10.56
379	9.90	7.84	8.49	8.88	9.35	9.90	9.91
381	9.90	7.74	8.39	8.74	9.12	9.57	9.59
385	10.00	7.53	8.15	8.46	8.80	9.16	9.48
387	10.00	6.82	7.31	7.56	7.92	8.37	8.74
389	5.83	4.07	5.80	5.81	5.82	5.82	5.84
390	5.83	1.71	2.39	2.83	3.30	3.77	4.12
391	10.50	7.61	8.30	8.66	9.04	9.49	9.52
393	10.60	7.41	8.15	8.53	8.93	9.40	9.43
395	10.60	7.38	8.11	8.47	8.82	9.23	9.26
401	8.10	5.88	6.46	6.87	7.36	7.79	7.89
409	7.60	5.62	6.34	6.76	7.24	7.61	7.68
411	7.30	5.55	6.15	6.46	6.77	6.99	7.01
413	8.00	4.69	5.36	5.64	5.96	6.19	6.21
415	8.00	4.64	5.30	5.55	5.80	5.98	5.99
423	7.40	2.77	3.25	3.62	4.04	4.52	4.96
425	6.60	2.46	3.18	3.56	3.96	4.41	4.80
427	6.70	4.04	4.24	4.35	4.48	4.68	5.21
429	6.80	3.13	3.26	3.51	3.93	4.36	4.75
430	10.00	9.00	9.80	10.04	10.13	10.25	10.38
431	10.00	8.63	9.58	9.97	10.03	10.12	10.22
432	10.00	8.40	9.26	9.67	9.73	9.80	9.89
433	9.00	5.68	6.53	6.59	6.52	6.44	6.38
435	5.90	2.36	3.11	3.50	3.92	4.35	4.73
437	5.70	2.36	3.10	3.49	3.90	4.32	4.69
439	5.40	2.33	3.07	3.46	3.86	4.28	4.65
441	5.40	2.31	3.01	3.37	3.73	4.09	4.37
445	5.60	1.90	2.63	2.98	3.49	3.95	4.29
447	5.10	1.86	2.55	2.94	3.43	3.88	4.22
451	5.00	1.72	2.39	2.82	3.31	3.78	4.12
453	4.00	1.71	2.38	2.80	3.29	3.77	4.11
461	4.23	1.70	2.37	2.78	3.26	3.74	4.08
463	4.25	1.70	2.37	2.78	3.25	3.73	4.08
467	10.00	9.25	9.99	10.00	10.01	10.03	10.07
468	10.00	8.70	9.65	9.71	9.71	9.73	9.76
469	10.00	8.34	8.77	8.81	8.80	8.80	8.81
471	9.00	6.25	7.00	7.49	8.04	8.05	8.06
472	8.00	6.07	6.94	7.45	8.00	8.02	8.03

Table C-2. Future Conditions Peak Water Surface Elevations (Scenario 3)

Vertical Datum: NAVD 1988

This modeling was completed using SWMM Version 5, with Nodal Ponding enabled.

Blue Shaded Numbers indicate locations where the maximum computed water surface meets or exceeds the ground elevation for that node. Blue shaded numbers are 'approximate' (as are other maximum computed elevations nearby).

Junction Number	Ground Elevation (ft)	Maximum Computed Water Surface Elevation					
		2-Yr (ft)	5-Yr (ft)	10-Yr (ft)	25-Yr (ft)	50-Yr (ft)	100-Yr (ft)
473	8.00	6.01	6.79	7.23	7.70	7.71	7.71
474	8.00	5.82	6.30	6.50	6.68	6.68	6.68
475	7.00	5.11	6.10	7.00	7.00	7.00	7.01
476	7.00	4.67	4.96	5.77	5.88	5.99	5.97
478	7.00	5.34	5.61	5.77	5.97	6.23	6.58
479	7.00	4.81	5.07	5.23	5.42	5.62	5.80
480	6.00	2.94	3.31	3.41	3.53	4.00	4.42
483	8.00	1.79	2.08	2.34	2.77	3.22	3.59
485	7.00	1.62	2.03	2.34	2.77	3.22	3.59
503	18.80	15.82	16.46	17.29	18.80	18.81	18.82
504	18.80	13.02	13.65	14.23	14.80	15.19	15.39
505	21.43	15.53	17.60	18.73	19.81	19.92	20.49
506	19.80	15.53	17.60	18.73	19.81	19.91	20.01
507	20.30	12.18	12.68	12.97	13.30	13.67	14.00
509	20.30	12.20	12.74	13.07	13.45	13.89	14.28
511	20.30	12.20	12.74	13.06	13.44	13.87	14.24
513	23.16	13.18	13.97	14.42	14.93	15.42	15.71
515	20.80	13.79	14.35	14.70	15.12	15.60	16.07
517	22.80	13.79	14.35	14.70	15.11	15.59	16.07
518	18.50	15.00	15.51	15.78	16.08	16.44	16.82
519	20.40	13.78	14.33	14.66	15.04	15.48	15.93
520	20.28	13.61	14.07	14.32	14.61	14.94	15.29
521	20.75	13.63	14.10	14.36	14.66	15.01	15.40
522	19.00	17.24	17.63	17.85	18.08	18.35	18.62
524	20.43	13.34	13.81	14.06	14.36	14.71	15.05
525	19.80	14.71	15.17	15.43	15.73	16.08	16.41
526	18.60	14.96	15.46	15.70	16.08	16.45	16.94
527	20.80	15.01	15.55	15.83	16.24	16.67	17.27
528	20.80	14.99	15.51	15.77	16.16	16.55	17.14
529	19.60	13.79	14.37	14.74	15.20	15.75	16.28
531	19.80	13.79	14.36	14.72	15.16	15.67	16.16
532	17.00	15.72	16.82	17.01	17.02	17.04	17.06
533	16.00	14.18	14.32	14.35	14.35	14.35	14.35
535	18.27	13.19	13.99	14.47	14.99	15.51	15.74
535.1	19.21	13.18	13.98	14.45	14.98	15.49	15.75
535.2	19.00	13.17	13.96	14.43	14.96	15.47	15.65
535.3	18.73	13.17	13.96	14.43	14.95	15.47	15.65
535.4	17.90	13.15	13.94	14.40	14.92	15.45	15.70
537	13.80	13.53	13.55	13.72	13.80	13.81	13.81

Table C-2. Future Conditions Peak Water Surface Elevations (Scenario 3)

Vertical Datum: NAVD 1988

This modeling was completed using SWMM Version 5, with Nodal Ponding enabled.

Blue Shaded Numbers indicate locations where the maximum computed water surface meets or exceeds the ground elevation for that node. Blue shaded numbers are 'approximate' (as are other maximum computed elevations nearby).

Junction Number	Ground Elevation (ft)	Maximum Computed Water Surface Elevation					
		2-Yr (ft)	5-Yr (ft)	10-Yr (ft)	25-Yr (ft)	50-Yr (ft)	100-Yr (ft)
538	15.50	12.04	12.52	12.90	13.11	13.28	13.42
541	11.50	9.75	10.53	11.13	11.50	11.51	11.52
542	11.45	9.74	10.49	11.04	11.41	11.45	11.45
543	16.05	13.12	13.91	14.37	14.89	15.42	15.65
544	15.54	13.12	13.91	14.37	14.90	15.42	15.55
545	17.73	13.11	13.90	14.37	14.90	15.43	15.75
546	13.75	11.16	11.64	11.94	12.38	12.81	13.02
547	13.16	10.30	10.88	11.58	12.24	12.71	12.92
548	12.00	8.90	9.70	10.05	10.20	10.27	10.30
549	12.00	8.80	9.58	9.93	10.09	10.16	10.21
551	14.99	10.95	11.76	12.07	12.19	12.32	12.42
552	14.99	10.88	11.65	11.91	12.01	12.11	12.18
553	12.30	10.75	11.30	11.62	12.07	12.31	12.32
554	11.00	9.30	9.74	9.96	10.19	10.45	10.71
555	12.26	9.06	9.40	9.55	9.81	10.21	10.46
556	11.00	7.10	7.70	8.26	8.98	9.65	10.00
557	8.50	6.58	7.23	7.84	8.39	8.52	8.62
558	8.50	6.53	7.17	7.78	8.28	8.43	8.54
559	10.00	5.42	5.94	6.54	7.19	7.74	8.04
561	10.30	4.67	5.51	6.08	6.74	7.46	8.10
562	10.00	4.64	5.49	6.20	6.90	7.47	7.82
563	10.00	8.68	9.08	9.29	9.51	9.74	9.95
565	9.50	8.11	8.53	8.75	8.99	9.26	9.50
566	10.00	7.77	8.15	8.37	8.65	8.99	9.31
567	9.70	7.55	7.92	8.17	8.50	8.90	9.26
568	8.32	6.59	6.90	7.10	7.30	7.85	8.32
569	8.45	6.56	6.87	7.05	7.22	7.73	8.12
570	10.00	6.20	6.44	6.57	7.11	7.65	7.99
571	9.50	4.53	5.73	6.40	7.09	7.63	7.96
572	10.40	4.53	5.72	6.40	7.09	7.63	7.96
573	8.00	4.51	5.57	6.25	6.92	7.48	7.82
575	8.00	4.35	5.58	6.26	6.94	7.49	7.83
576	9.30	4.53	5.72	6.39	7.08	7.63	7.96
577	9.90	5.42	6.12	6.51	7.18	7.74	8.07
579	10.00	4.77	5.79	6.45	7.13	7.69	8.01
581	10.00	4.52	5.72	6.39	7.08	7.63	7.96
582	9.00	8.70	9.00	9.01	9.01	9.01	9.03
583	11.00	7.45	7.52	7.52	7.52	7.80	8.09
584	8.10	8.10	8.10	8.11	8.11	8.12	8.14

Table C-2. Future Conditions Peak Water Surface Elevations (Scenario 3)

Vertical Datum: NAVD 1988

This modeling was completed using SWMM Version 5, with Nodal Ponding enabled.

Blue Shaded Numbers indicate locations where the maximum computed water surface meets or exceeds the ground elevation for that node. Blue shaded numbers are 'approximate' (as are other maximum computed elevations nearby).

Junction Number	Ground Elevation (ft)	Maximum Computed Water Surface Elevation					
		2-Yr (ft)	5-Yr (ft)	10-Yr (ft)	25-Yr (ft)	50-Yr (ft)	100-Yr (ft)
585	8.50	4.34	5.58	6.26	6.94	7.49	7.83
586	9.50	5.95	5.95	6.41	7.10	7.63	7.96
587	8.60	4.33	5.57	6.24	6.91	7.46	7.80
588	16.30	15.21	15.76	16.07	16.30	16.31	16.31
589	8.70	4.32	5.55	6.22	6.88	7.41	7.74
590	15.10	14.97	15.10	15.11	15.11	15.12	15.12
591	15.00	14.92	15.01	15.01	15.01	15.02	15.03
592	14.20	13.59	13.51	13.48	13.48	13.50	13.51
593	12.10	11.10	11.57	11.81	12.07	12.11	12.14
594	8.50	8.50	8.50	8.51	8.51	8.52	8.53
595	9.50	7.93	8.46	8.71	9.24	9.51	9.56
596	9.20	6.60	6.60	6.60	7.10	7.63	7.96
597	7.60	7.60	7.60	7.61	7.61	7.63	7.67
598	9.00	6.65	6.65	6.65	7.11	7.63	7.96
599	8.10	4.20	5.46	6.12	6.76	7.29	7.63
600	9.00	4.54	5.73	6.40	7.09	7.63	7.96
601	8.10	4.19	5.44	6.08	6.69	7.18	7.51
607	14.41	12.76	13.05	13.20	13.37	13.55	13.74
609	9.00	7.72	8.23	8.49	8.72	8.95	9.01
613	8.50	4.17	5.42	6.06	6.66	7.15	7.48
614	8.50	4.17	5.41	6.05	6.65	7.13	7.46
615	8.70	6.01	7.19	8.35	8.70	8.70	8.71
616	8.70	4.39	5.40	6.04	6.63	7.11	7.44
617	13.00	11.79	12.37	12.67	13.00	13.01	13.04
619	12.20	11.05	11.73	12.11	12.24	12.34	12.45
621	11.00	9.66	10.28	10.60	11.00	11.05	11.11
627	12.00	11.01	11.56	11.96	12.00	12.03	12.06
629	11.75	10.72	11.38	11.75	11.77	11.81	11.85
631	11.40	10.57	11.11	11.37	11.41	11.43	11.45
635	11.00	9.85	10.37	10.62	10.86	11.01	11.05
641	10.20	7.51	8.85	9.63	10.10	10.20	10.25
642	11.00	10.11	10.74	11.00	11.00	11.01	11.02
643	10.00	9.70	10.00	10.01	10.02	10.07	10.14
644	10.00	8.26	9.37	9.56	9.75	9.83	9.91
645	10.00	8.02	9.32	9.53	9.74	9.82	9.91
647	9.80	7.66	8.30	8.91	9.34	9.46	9.57
649	9.25	6.77	8.13	8.84	9.27	9.41	9.53
651	10.00	6.68	8.07	8.78	9.23	9.36	9.47
653	9.60	6.33	7.73	8.45	8.95	9.13	9.27

Table C-2. Future Conditions Peak Water Surface Elevations (Scenario 3)

Vertical Datum: NAVD 1988

This modeling was completed using SWMM Version 5, with Nodal Ponding enabled.

Blue Shaded Numbers indicate locations where the maximum computed water surface meets or exceeds the ground elevation for that node. Blue shaded numbers are 'approximate' (as are other maximum computed elevations nearby).

Junction Number	Ground Elevation (ft)	Maximum Computed Water Surface Elevation					
		2-Yr (ft)	5-Yr (ft)	10-Yr (ft)	25-Yr (ft)	50-Yr (ft)	100-Yr (ft)
654	9.00	4.16	5.40	6.04	6.63	7.11	7.44
655	9.50	6.29	7.59	8.23	8.69	8.89	9.04
656	8.00	7.93	8.00	8.01	8.01	8.02	8.03
657	8.50	6.64	7.03	7.20	7.39	7.56	7.69
658	8.20	4.27	5.56	6.22	6.78	7.21	7.52
659	9.50	4.14	5.37	6.00	6.58	7.05	7.39
665	10.00	3.90	4.97	5.50	6.00	6.47	6.84
671	12.10	10.68	11.45	11.54	11.72	11.86	12.06
673	12.10	10.62	11.19	11.19	11.22	11.22	11.76
675	12.00	9.05	9.58	9.89	10.30	10.73	11.53
679	11.60	7.62	8.46	9.01	9.70	10.46	11.30
681	11.40	7.48	8.21	8.61	9.03	9.48	9.89
683	11.00	6.66	7.56	8.02	8.48	8.95	9.37
685	10.90	9.69	10.20	10.46	10.72	10.90	10.90
687	10.00	6.08	6.92	7.39	7.85	8.29	8.69
689	10.00	5.26	6.30	6.81	7.29	7.71	8.09
692	12.10	10.77	11.77	12.10	12.13	12.16	12.21
693	12.20	10.66	11.65	12.03	12.08	12.16	12.19
694	12.20	10.64	11.62	11.99	12.07	12.15	12.19
695	12.00	9.77	10.75	11.18	11.30	11.41	11.50
696	12.00	9.71	10.59	11.00	11.11	11.21	11.30
697	12.00	8.73	9.73	10.26	10.46	10.59	10.72
699	12.00	8.68	9.60	10.06	10.24	10.37	10.49
700	12.00	11.19	11.68	11.94	12.01	12.05	12.11
701	12.00	10.57	11.17	11.50	11.76	11.88	12.00
702	11.00	9.74	10.50	11.00	11.08	11.18	11.30
703	9.90	6.49	7.60	8.17	8.61	8.93	9.21
704	10.50	8.71	9.72	10.28	10.50	10.53	10.58
705	9.60	6.44	7.46	7.96	8.34	8.62	8.87
707	11.00	5.24	6.28	6.79	7.27	7.66	8.00
713	11.60	8.41	9.34	9.82	10.17	10.43	10.68
715	11.30	8.40	9.28	9.72	10.08	10.40	10.67
716	11.00	8.16	8.96	9.36	9.79	10.23	10.55
717	10.55	7.65	8.44	8.86	9.29	9.73	10.05
719	10.50	7.61	8.33	8.68	9.04	9.36	9.59
721	10.50	3.85	4.89	5.39	5.88	6.35	6.72
723	10.00	3.76	4.77	5.26	5.75	6.24	6.63
724	11.59	11.61	11.64	11.66	11.68	11.72	11.75
725	11.19	11.25	11.31	11.34	11.38	11.44	11.48

Table C-2. Future Conditions Peak Water Surface Elevations (Scenario 3)

Vertical Datum: NAVD 1988

This modeling was completed using SWMM Version 5, with Nodal Ponding enabled.

Blue Shaded Numbers indicate locations where the maximum computed water surface meets or exceeds the ground elevation for that node. Blue shaded numbers are 'approximate' (as are other maximum computed elevations nearby).

Junction Number	Ground Elevation (ft)	Maximum Computed Water Surface Elevation					
		2-Yr (ft)	5-Yr (ft)	10-Yr (ft)	25-Yr (ft)	50-Yr (ft)	100-Yr (ft)
726	11.19	11.20	11.21	11.22	11.24	11.25	11.28
727	9.50	2.91	3.84	4.34	4.96	5.56	6.02
729	9.50	2.89	3.80	4.29	4.91	5.51	5.97
730	12.00	11.40	12.00	12.01	12.02	12.03	12.04
731	12.00	10.09	10.29	10.30	10.29	10.28	10.28
733	10.40	7.64	8.16	8.40	8.66	8.92	9.14
735	8.00	5.43	5.98	6.27	6.58	6.96	7.34
737	8.00	5.32	5.80	6.02	6.24	6.45	6.63
739	6.00	3.29	4.31	4.77	5.23	5.74	6.02
741	5.50	2.19	2.82	3.21	3.60	4.02	4.37
743	4.00	2.09	2.80	3.20	3.59	4.02	4.37
747	10.90	5.25	6.68	7.85	8.01	8.09	8.20
749	7.80	4.33	6.61	7.80	7.80	7.80	7.80
751	7.80	2.46	2.64	3.21	4.84	5.23	5.62
752	11.74	10.80	11.31	11.61	11.74	11.75	11.78
753	4.00	1.95	2.63	3.03	3.46	3.92	4.27
754	14.30	13.80	14.20	14.30	14.30	14.31	14.33
755	12.10	10.35	10.84	11.09	11.29	11.49	11.67
756	12.00	9.78	10.37	10.68	10.92	11.09	11.26
757	10.20	10.21	10.22	10.23	10.24	10.27	10.30
759	10.30	9.33	9.34	9.34	9.35	9.36	9.37
761	10.00	1.76	2.43	2.85	3.33	3.82	4.15
762	12.00	9.54	10.15	10.48	10.73	10.91	11.09
763	12.00	9.48	10.08	10.38	10.61	10.77	10.89
765	11.10	6.27	6.81	7.32	7.88	8.31	8.72
766	12.00	5.92	6.73	7.26	7.83	8.27	8.67
767	15.33	12.32	12.98	13.32	13.67	14.05	14.38
769	13.40	10.65	11.49	11.91	12.35	12.82	13.25
771	12.00	8.69	9.46	9.88	10.33	10.99	11.68
773	9.79	5.15	6.31	6.93	7.58	8.17	8.71
775	9.79	5.12	6.26	6.87	7.48	8.00	8.46
777	8.00	4.27	5.32	5.89	6.47	7.00	7.43
779	9.57	3.96	4.94	5.49	6.06	6.58	7.00
781	9.59	3.94	4.90	5.45	6.00	6.51	6.92
785	7.85	6.42	7.55	7.85	7.85	7.86	7.86
787	7.80	5.95	6.26	6.36	6.36	6.36	6.36
789	8.00	3.31	4.23	4.74	5.26	5.75	6.15
791	5.50	2.36	3.10	3.65	4.27	4.85	5.27
793	8.00	2.34	3.10	3.65	4.26	4.85	5.26

Table C-2. Future Conditions Peak Water Surface Elevations (Scenario 3)

Vertical Datum: NAVD 1988

This modeling was completed using SWMM Version 5, with Nodal Ponding enabled.

Blue Shaded Numbers indicate locations where the maximum computed water surface meets or exceeds the ground elevation for that node. Blue shaded numbers are 'approximate' (as are other maximum computed elevations nearby).

Junction Number	Ground Elevation (ft)	Maximum Computed Water Surface Elevation					
		2-Yr (ft)	5-Yr (ft)	10-Yr (ft)	25-Yr (ft)	50-Yr (ft)	100-Yr (ft)
795	8.00	2.13	3.05	3.60	4.21	4.81	5.20
799	7.00	2.07	3.00	3.55	4.17	4.77	5.16
801	6.79	1.98	2.87	3.40	4.00	4.60	5.01
803	6.73	1.95	2.80	3.31	3.87	4.46	4.86
805	6.00	1.91	2.74	3.24	3.79	4.38	4.79
807	6.00	1.77	2.51	2.96	3.46	4.00	4.42
809	5.13	1.76	2.49	2.92	3.42	3.96	4.38
811	5.08	1.75	2.47	2.90	3.37	3.86	4.24
815	4.00	1.70	2.37	2.78	3.24	3.72	4.07
817	8.00	1.68	2.34	2.74	3.20	3.68	4.02
818	10.50	9.04	9.54	9.79	10.06	10.38	10.50
820	10.00	7.78	8.50	9.08	9.50	9.51	9.51
821	9.90	7.00	7.34	7.47	7.67	8.31	8.91
822	6.50	3.97	4.20	4.30	4.41	4.53	4.66
825	9.10	4.98	5.77	6.42	6.93	7.50	8.09
827	9.00	4.77	5.50	6.02	6.29	6.42	6.54
828	8.94	8.91	8.95	8.96	9.01	9.09	9.18
829	8.94	7.14	7.47	7.48	7.48	7.50	7.51
831	6.10	4.28	5.22	5.85	6.12	6.22	6.38
833	6.50	2.62	3.32	3.60	3.94	4.19	4.35
837	7.10	2.13	2.72	2.97	3.28	3.66	4.06
839	6.50	1.59	2.14	2.53	2.98	3.47	3.90
841	6.10	1.55	2.14	2.53	2.98	3.45	3.89
843	6.30	1.55	2.14	2.52	2.97	3.44	3.84
845	4.50	2.41	3.24	4.10	4.10	4.11	4.13
846	4.50	1.51	2.07	2.45	2.89	3.36	3.73
847	8.00	1.55	2.14	2.52	2.97	3.43	3.80
848	4.00	1.50	2.07	2.45	2.88	3.35	3.71
849	7.50	1.43	1.97	2.34	2.76	3.21	3.59
851	7.50	1.34	1.81	2.14	2.54	2.95	3.34
853	10.00	8.90	9.47	9.75	10.00	10.01	10.04
855	12.00	11.11	11.65	11.93	12.00	12.01	12.03
859	10.00	8.12	8.64	8.94	9.48	10.00	10.06
863	10.00	7.90	8.47	8.78	9.41	9.95	10.01
865	11.00	6.98	7.82	8.37	9.07	9.54	9.62
866	10.97	6.93	7.77	8.31	8.94	9.37	9.44
867	10.00	7.93	8.69	9.12	9.70	10.08	10.20
871	10.00	6.98	8.12	8.81	9.47	9.89	10.01
873	10.20	6.77	7.69	8.13	8.57	9.02	9.27

Table C-2. Future Conditions Peak Water Surface Elevations (Scenario 3)

Vertical Datum: NAVD 1988

This modeling was completed using SWMM Version 5, with Nodal Ponding enabled.

Blue Shaded Numbers indicate locations where the maximum computed water surface meets or exceeds the ground elevation for that node. Blue shaded numbers are 'approximate' (as are other maximum computed elevations nearby).

Junction Number	Ground Elevation (ft)	Maximum Computed Water Surface Elevation					
		2-Yr (ft)	5-Yr (ft)	10-Yr (ft)	25-Yr (ft)	50-Yr (ft)	100-Yr (ft)
875	10.40	6.72	7.65	8.10	8.55	8.99	9.25
877	10.00	6.47	7.40	7.83	8.25	8.67	8.94
879	9.00	6.36	7.26	7.66	8.04	8.35	8.50
881	9.00	6.41	7.39	7.95	8.57	9.02	9.11
883	8.95	6.38	7.33	7.81	8.30	8.66	8.75
884	9.03	6.25	7.17	7.59	8.02	8.36	8.48
885	9.00	6.25	7.14	7.54	7.92	8.21	8.35
891	8.00	5.90	6.74	7.07	7.38	7.62	7.72
893	8.30	5.69	6.45	6.73	6.99	7.19	7.27
897	8.00	2.07	2.57	2.97	3.38	3.71	3.89
903	5.12	3.75	4.19	4.41	4.65	4.90	5.12
905	3.14	3.09	3.14	3.15	3.15	3.16	3.20
907	3.14	1.32	1.59	1.76	1.92	2.14	2.40
911	8.00	5.49	6.14	6.50	6.87	7.27	7.63
913	8.60	6.85	7.79	7.94	8.19	8.38	8.60
915	8.80	6.85	7.68	7.76	7.87	7.93	8.01
917	7.47	6.84	7.47	7.48	7.50	7.57	7.67
919	7.47	5.29	5.73	5.85	6.03	6.30	6.88
921	7.07	4.47	5.20	5.49	5.81	6.18	6.85
923	7.07	3.72	4.27	4.53	4.68	4.79	4.88
941	4.20	1.03	1.27	1.51	1.84	2.45	2.85
943	4.10	0.99	1.12	1.25	1.44	1.64	1.77
949	2.70	1.07	1.29	1.50	1.78	2.14	2.40
951	2.70	1.07	1.29	1.49	1.76	2.11	2.36
955	6.00	0.97	1.05	1.14	1.29	1.50	1.70
961	6.00	0.95	0.99	1.04	1.12	1.26	1.39