

Appendices

Appendix A

Coastal Model Boundary Conditions Hydrographs

Water Level Obtained from NOAA Gage at Battery during Hurricane Sandy				Scaling factor applied for each time step on Measure-Predicted				Final stillwater elevations scaled for various storm events (feet-NAVD)			
Date Time (LST/LDT)	Water Level (FT NAVD)	Pred Tide, FT NAVD	Meas-Pred	10yr surge	50yr surge	100yr surge	500yr surge	10yr WL	50yr WL	100yr WL	500yr WL
10/23/2012 0:00	-1.01	-0.74	-0.27					-1.01	-1.01	-1.01	-1.01
10/23/2012 0:06	-0.88	-0.64	-0.24					-0.88	-0.88	-0.88	-0.88
10/23/2012 0:12	-0.76	-0.53	-0.23					-0.76	-0.76	-0.76	-0.76
10/23/2012 0:18	-0.64	-0.43	-0.21					-0.64	-0.64	-0.64	-0.64
10/23/2012 0:24	-0.51	-0.32	-0.19					-0.51	-0.51	-0.51	-0.51
10/23/2012 0:30	-0.37	-0.22	-0.15					-0.37	-0.37	-0.37	-0.37
10/23/2012 0:36	-0.23	-0.12	-0.11					-0.23	-0.23	-0.23	-0.23
10/23/2012 0:42	-0.08	-0.02	-0.06					-0.08	-0.08	-0.08	-0.08
10/23/2012 0:48	0.06	0.08	-0.02					0.06	0.06	0.06	0.06
10/23/2012 0:54	0.23	0.18	0.05					0.23	0.23	0.23	0.23
10/23/2012 1:00	0.36	0.28	0.08					0.36	0.36	0.36	0.36
10/23/2012 1:06	0.50	0.37	0.13					0.50	0.50	0.50	0.50
10/23/2012 1:12	0.63	0.47	0.16					0.63	0.63	0.63	0.63
10/23/2012 1:18	0.75	0.56	0.19					0.75	0.75	0.75	0.75
10/23/2012 1:24	0.86	0.65	0.21					0.86	0.86	0.86	0.86
10/23/2012 1:30	0.97	0.74	0.23					0.97	0.97	0.97	0.97
10/23/2012 1:36	1.07	0.82	0.25					1.07	1.07	1.07	1.07
10/23/2012 1:42	1.14	0.91	0.23					1.14	1.14	1.14	1.14
10/23/2012 1:48	1.22	0.99	0.23					1.22	1.22	1.22	1.22
10/23/2012 1:54	1.31	1.06	0.25					1.31	1.31	1.31	1.31
10/23/2012 2:00	1.40	1.14	0.26					1.40	1.40	1.40	1.40
10/23/2012 2:06	1.49	1.21	0.28					1.49	1.49	1.49	1.49
10/23/2012 2:12	1.56	1.28	0.28					1.56	1.56	1.56	1.56
10/23/2012 2:18	1.63	1.35	0.28					1.63	1.63	1.63	1.63
10/23/2012 2:24	1.67	1.41	0.26					1.67	1.67	1.67	1.67
10/23/2012 2:30	1.74	1.47	0.27					1.74	1.74	1.74	1.74
10/23/2012 2:36	1.77	1.52	0.25					1.77	1.77	1.77	1.77
10/23/2012 2:42	1.83	1.57	0.26					1.83	1.83	1.83	1.83
10/23/2012 2:48	1.85	1.62	0.23					1.85	1.85	1.85	1.85
10/23/2012 2:54	1.87	1.66	0.21					1.87	1.87	1.87	1.87
10/23/2012 3:00	1.89	1.69	0.20					1.89	1.89	1.89	1.89
10/23/2012 3:06	1.91	1.73	0.18					1.91	1.91	1.91	1.91
10/23/2012 3:12	1.93	1.75	0.18					1.93	1.93	1.93	1.93
10/23/2012 3:18	1.92	1.77	0.15					1.92	1.92	1.92	1.92
10/23/2012 3:24	1.91	1.79	0.12					1.91	1.91	1.91	1.91
10/23/2012 3:30	1.89	1.8	0.09					1.89	1.89	1.89	1.89
10/23/2012 3:36	1.88	1.81	0.07					1.88	1.88	1.88	1.88
10/23/2012 3:42	1.85	1.81	0.04					1.85	1.85	1.85	1.85
10/23/2012 3:48	1.81	1.8	0.01					1.81	1.81	1.81	1.81
10/23/2012 3:54	1.77	1.79	-0.03					1.77	1.77	1.77	1.77

Water Level Obtained from NOAA Gage at Battery during Hurricane Sandy				Scaling factor applied for each time step on Measure-Predicted				Final stillwater elevations scaled for various storm events (feet-NAVD)			
Date Time (LST/LDT)	Water Level (FT NAVD)	Pred Tide, FT NAVD	Meas-Pred	10yr surge	50yr surge	100yr surge	500yr surge	10yr WL	50yr WL	100yr WL	500yr WL
10/23/2012 4:00	1.74	1.77	-0.03					1.74	1.74	1.74	1.74
10/23/2012 4:06	1.69	1.75	-0.06					1.69	1.69	1.69	1.69
10/23/2012 4:12	1.61	1.72	-0.11					1.61	1.61	1.61	1.61
10/23/2012 4:18	1.55	1.68	-0.13					1.55	1.55	1.55	1.55
10/23/2012 4:24	1.51	1.64	-0.13					1.51	1.51	1.51	1.51
10/23/2012 4:30	1.45	1.59	-0.14					1.45	1.45	1.45	1.45
10/23/2012 4:36	1.39	1.54	-0.15					1.39	1.39	1.39	1.39
10/23/2012 4:42	1.32	1.48	-0.16					1.32	1.32	1.32	1.32
10/23/2012 4:48	1.24	1.42	-0.18					1.24	1.24	1.24	1.24
10/23/2012 4:54	1.19	1.36	-0.17					1.19	1.19	1.19	1.19
10/23/2012 5:00	1.13	1.28	-0.16					1.13	1.13	1.13	1.13
10/23/2012 5:06	1.07	1.21	-0.14					1.07	1.07	1.07	1.07
10/23/2012 5:12	0.99	1.13	-0.14					0.99	0.99	0.99	0.99
10/23/2012 5:18	0.95	1.05	-0.11					0.95	0.95	0.95	0.95
10/23/2012 5:24	0.90	0.97	-0.07					0.90	0.90	0.90	0.90
10/23/2012 5:30	0.83	0.89	-0.06					0.83	0.83	0.83	0.83
10/23/2012 5:36	0.78	0.8	-0.02					0.78	0.78	0.78	0.78
10/23/2012 5:42	0.73	0.72	0.01					0.73	0.73	0.73	0.73
10/23/2012 5:48	0.66	0.63	0.03					0.66	0.66	0.66	0.66
10/23/2012 5:54	0.60	0.54	0.06					0.60	0.60	0.60	0.60
10/23/2012 6:00	0.49	0.46	0.03					0.49	0.49	0.49	0.49
10/23/2012 6:06	0.41	0.37	0.04					0.41	0.41	0.41	0.41
10/23/2012 6:12	0.33	0.29	0.04					0.33	0.33	0.33	0.33
10/23/2012 6:18	0.24	0.2	0.04					0.24	0.24	0.24	0.24
10/23/2012 6:24	0.14	0.12	0.02					0.14	0.14	0.14	0.14
10/23/2012 6:30	0.07	0.04	0.03					0.07	0.07	0.07	0.07
10/23/2012 6:36	-0.01	-0.04	0.03					-0.01	-0.01	-0.01	-0.01
10/23/2012 6:42	-0.08	-0.12	0.05					-0.08	-0.08	-0.08	-0.08
10/23/2012 6:48	-0.15	-0.19	0.04					-0.15	-0.15	-0.15	-0.15
10/23/2012 6:54	-0.23	-0.27	0.04					-0.23	-0.23	-0.23	-0.23
10/23/2012 7:00	-0.29	-0.34	0.06					-0.29	-0.29	-0.29	-0.29
10/23/2012 7:06	-0.37	-0.41	0.04					-0.37	-0.37	-0.37	-0.37
10/23/2012 7:12	-0.44	-0.48	0.04					-0.44	-0.44	-0.44	-0.44
10/23/2012 7:18	-0.52	-0.55	0.03					-0.52	-0.52	-0.52	-0.52
10/23/2012 7:24	-0.59	-0.62	0.03					-0.59	-0.59	-0.59	-0.59
10/23/2012 7:30	-0.66	-0.69	0.03					-0.66	-0.66	-0.66	-0.66
10/23/2012 7:36	-0.75	-0.76	0.02					-0.75	-0.75	-0.75	-0.75
10/23/2012 7:42	-0.83	-0.84	0.01					-0.83	-0.83	-0.83	-0.83
10/23/2012 7:48	-0.87	-0.91	0.04					-0.87	-0.87	-0.87	-0.87
10/23/2012 7:54	-0.94	-0.98	0.04					-0.94	-0.94	-0.94	-0.94

Water Level Obtained from NOAA Gage at Battery during Hurricane Sandy				Scaling factor applied for each time step on Measure-Predicted				Final stillwater elevations scaled for various storm events (feet-NAVD)			
Date Time (LST/LDT)	Water Level (FT NAVD)	Pred Tide, FT NAVD	Meas-Pred	10yr surge	50yr surge	100yr surge	500yr surge	10yr WL	50yr WL	100yr WL	500yr WL
10/23/2012 8:00	-1.00	-1.05	0.05					-1.00	-1.00	-1.00	-1.00
10/23/2012 8:06	-1.06	-1.12	0.06					-1.06	-1.06	-1.06	-1.06
10/23/2012 8:12	-1.12	-1.2	0.09					-1.12	-1.12	-1.12	-1.12
10/23/2012 8:18	-1.18	-1.27	0.09					-1.18	-1.18	-1.18	-1.18
10/23/2012 8:24	-1.26	-1.34	0.08					-1.26	-1.26	-1.26	-1.26
10/23/2012 8:30	-1.33	-1.42	0.10					-1.33	-1.33	-1.33	-1.33
10/23/2012 8:36	-1.41	-1.49	0.08					-1.41	-1.41	-1.41	-1.41
10/23/2012 8:42	-1.45	-1.56	0.11					-1.45	-1.45	-1.45	-1.45
10/23/2012 8:48	-1.49	-1.63	0.14					-1.49	-1.49	-1.49	-1.49
10/23/2012 8:54	-1.55	-1.7	0.16					-1.55	-1.55	-1.55	-1.55
10/23/2012 9:00	-1.59	-1.76	0.17					-1.59	-1.59	-1.59	-1.59
10/23/2012 9:06	-1.65	-1.82	0.17					-1.65	-1.65	-1.65	-1.65
10/23/2012 9:12	-1.71	-1.88	0.17					-1.71	-1.71	-1.71	-1.71
10/23/2012 9:18	-1.77	-1.93	0.17					-1.77	-1.77	-1.77	-1.77
10/23/2012 9:24	-1.80	-1.97	0.17					-1.80	-1.80	-1.80	-1.80
10/23/2012 9:30	-1.82	-2.01	0.19					-1.82	-1.82	-1.82	-1.82
10/23/2012 9:36	-1.85	-2.05	0.20					-1.85	-1.85	-1.85	-1.85
10/23/2012 9:42	-1.86	-2.07	0.21					-1.86	-1.86	-1.86	-1.86
10/23/2012 9:48	-1.86	-2.09	0.23					-1.86	-1.86	-1.86	-1.86
10/23/2012 9:54	-1.83	-2.1	0.27					-1.83	-1.83	-1.83	-1.83
10/23/2012 10:00	-1.86	-2.11	0.25					-1.86	-1.86	-1.86	-1.86
10/23/2012 10:06	-1.85	-2.1	0.25					-1.85	-1.85	-1.85	-1.85
10/23/2012 10:12	-1.86	-2.09	0.23					-1.86	-1.86	-1.86	-1.86
10/23/2012 10:18	-1.86	-2.07	0.21					-1.86	-1.86	-1.86	-1.86
10/23/2012 10:24	-1.87	-2.04	0.17					-1.87	-1.87	-1.87	-1.87
10/23/2012 10:30	-1.84	-2	0.16					-1.84	-1.84	-1.84	-1.84
10/23/2012 10:36	-1.80	-1.95	0.16					-1.80	-1.80	-1.80	-1.80
10/23/2012 10:42	-1.75	-1.9	0.15					-1.75	-1.75	-1.75	-1.75
10/23/2012 10:48	-1.69	-1.84	0.15					-1.69	-1.69	-1.69	-1.69
10/23/2012 10:54	-1.62	-1.78	0.16					-1.62	-1.62	-1.62	-1.62
10/23/2012 11:00	-1.56	-1.71	0.16					-1.56	-1.56	-1.56	-1.56
10/23/2012 11:06	-1.47	-1.63	0.16					-1.47	-1.47	-1.47	-1.47
10/23/2012 11:12	-1.37	-1.54	0.17					-1.37	-1.37	-1.37	-1.37
10/23/2012 11:18	-1.27	-1.46	0.19					-1.27	-1.27	-1.27	-1.27
10/23/2012 11:24	-1.19	-1.37	0.18					-1.19	-1.19	-1.19	-1.19
10/23/2012 11:30	-1.09	-1.27	0.18					-1.09	-1.09	-1.09	-1.09
10/23/2012 11:36	-0.98	-1.17	0.19					-0.98	-0.98	-0.98	-0.98
10/23/2012 11:42	-0.87	-1.07	0.20					-0.87	-0.87	-0.87	-0.87
10/23/2012 11:48	-0.77	-0.97	0.20					-0.77	-0.77	-0.77	-0.77
10/23/2012 11:54	-0.69	-0.86	0.17					-0.69	-0.69	-0.69	-0.69

Water Level Obtained from NOAA Gage at Battery during Hurricane Sandy				Scaling factor applied for each time step on Measure-Predicted				Final stillwater elevations scaled for various storm events (feet-NAVD)			
Date Time (LST/LDT)	Water Level (FT NAVD)	Pred Tide, FT NAVD	Meas-Pred	10yr surge	50yr surge	100yr surge	500yr surge	10yr WL	50yr WL	100yr WL	500yr WL
10/23/2012 12:00	-0.60	-0.76	0.16					-0.60	-0.60	-0.60	-0.60
10/23/2012 12:06	-0.51	-0.65	0.15					-0.51	-0.51	-0.51	-0.51
10/23/2012 12:12	-0.40	-0.55	0.15					-0.40	-0.40	-0.40	-0.40
10/23/2012 12:18	-0.33	-0.44	0.11					-0.33	-0.33	-0.33	-0.33
10/23/2012 12:24	-0.22	-0.33	0.11					-0.22	-0.22	-0.22	-0.22
10/23/2012 12:30	-0.13	-0.23	0.11					-0.13	-0.13	-0.13	-0.13
10/23/2012 12:36	0.00	-0.12	0.12					0.00	0.00	0.00	0.00
10/23/2012 12:42	0.12	-0.01	0.13					0.12	0.12	0.12	0.12
10/23/2012 12:48	0.25	0.09	0.16					0.25	0.25	0.25	0.25
10/23/2012 12:54	0.36	0.19	0.17					0.36	0.36	0.36	0.36
10/23/2012 13:00	0.51	0.3	0.21					0.51	0.51	0.51	0.51
10/23/2012 13:06	0.63	0.4	0.23					0.63	0.63	0.63	0.63
10/23/2012 13:12	0.76	0.5	0.26					0.76	0.76	0.76	0.76
10/23/2012 13:18	0.84	0.6	0.24					0.84	0.84	0.84	0.84
10/23/2012 13:24	0.96	0.69	0.27					0.96	0.96	0.96	0.96
10/23/2012 13:30	1.03	0.79	0.24					1.03	1.03	1.03	1.03
10/23/2012 13:36	1.12	0.88	0.24					1.12	1.12	1.12	1.12
10/23/2012 13:42	1.21	0.97	0.24					1.21	1.21	1.21	1.21
10/23/2012 13:48	1.28	1.06	0.22					1.28	1.28	1.28	1.28
10/23/2012 13:54	1.36	1.14	0.22					1.36	1.36	1.36	1.36
10/23/2012 14:00	1.40	1.23	0.17					1.40	1.40	1.40	1.40
10/23/2012 14:06	1.47	1.31	0.16					1.47	1.47	1.47	1.47
10/23/2012 14:12	1.55	1.39	0.16					1.55	1.55	1.55	1.55
10/23/2012 14:18	1.63	1.46	0.17					1.63	1.63	1.63	1.63
10/23/2012 14:24	1.71	1.54	0.17					1.71	1.71	1.71	1.71
10/23/2012 14:30	1.78	1.61	0.17					1.78	1.78	1.78	1.78
10/23/2012 14:36	1.83	1.67	0.16					1.83	1.83	1.83	1.83
10/23/2012 14:42	1.90	1.73	0.17					1.90	1.90	1.90	1.90
10/23/2012 14:48	1.93	1.79	0.14					1.93	1.93	1.93	1.93
10/23/2012 14:54	1.98	1.85	0.13					1.98	1.98	1.98	1.98
10/23/2012 15:00	2.04	1.9	0.14					2.04	2.04	2.04	2.04
10/23/2012 15:06	2.09	1.95	0.14					2.09	2.09	2.09	2.09
10/23/2012 15:12	2.12	1.99	0.13					2.12	2.12	2.12	2.12
10/23/2012 15:18	2.16	2.03	0.13					2.16	2.16	2.16	2.16
10/23/2012 15:24	2.17	2.06	0.11					2.17	2.17	2.17	2.17
10/23/2012 15:30	2.20	2.09	0.11					2.20	2.20	2.20	2.20
10/23/2012 15:36	2.22	2.11	0.11					2.22	2.22	2.22	2.22
10/23/2012 15:42	2.24	2.13	0.11					2.24	2.24	2.24	2.24
10/23/2012 15:48	2.27	2.14	0.13					2.27	2.27	2.27	2.27
10/23/2012 15:54	2.28	2.15	0.13					2.28	2.28	2.28	2.28

Water Level Obtained from NOAA Gage at Battery during Hurricane Sandy				Scaling factor applied for each time step on Measure-Predicted				Final stillwater elevations scaled for various storm events (feet-NAVD)			
Date Time (LST/LDT)	Water Level (FT NAVD)	Pred Tide, FT NAVD	Meas-Pred	10yr surge	50yr surge	100yr surge	500yr surge	10yr WL	50yr WL	100yr WL	500yr WL
10/23/2012 16:00	2.30	2.15	0.15					2.30	2.30	2.30	2.30
10/23/2012 16:06	2.28	2.15	0.13					2.28	2.28	2.28	2.28
10/23/2012 16:12	2.30	2.14	0.16					2.30	2.30	2.30	2.30
10/23/2012 16:18	2.31	2.12	0.19					2.31	2.31	2.31	2.31
10/23/2012 16:24	2.27	2.1	0.17					2.27	2.27	2.27	2.27
10/23/2012 16:30	2.25	2.08	0.17					2.25	2.25	2.25	2.25
10/23/2012 16:36	2.22	2.04	0.18					2.22	2.22	2.22	2.22
10/23/2012 16:42	2.19	2	0.19					2.19	2.19	2.19	2.19
10/23/2012 16:48	2.15	1.96	0.19					2.15	2.15	2.15	2.15
10/23/2012 16:54	2.10	1.91	0.19					2.10	2.10	2.10	2.10
10/23/2012 17:00	2.06	1.85	0.21					2.06	2.06	2.06	2.06
10/23/2012 17:06	1.98	1.79	0.19					1.98	1.98	1.98	1.98
10/23/2012 17:12	1.92	1.73	0.19					1.92	1.92	1.92	1.92
10/23/2012 17:18	1.85	1.66	0.19					1.85	1.85	1.85	1.85
10/23/2012 17:24	1.77	1.58	0.19					1.77	1.77	1.77	1.77
10/23/2012 17:30	1.69	1.5	0.19					1.69	1.69	1.69	1.69
10/23/2012 17:36	1.60	1.42	0.18					1.60	1.60	1.60	1.60
10/23/2012 17:42	1.50	1.33	0.17					1.50	1.50	1.50	1.50
10/23/2012 17:48	1.41	1.25	0.16					1.41	1.41	1.41	1.41
10/23/2012 17:54	1.32	1.16	0.16					1.32	1.32	1.32	1.32
10/23/2012 18:00	1.23	1.06	0.17					1.23	1.23	1.23	1.23
10/23/2012 18:06	1.17	0.97	0.20					1.17	1.17	1.17	1.17
10/23/2012 18:12	1.11	0.88	0.23					1.11	1.11	1.11	1.11
10/23/2012 18:18	1.00	0.78	0.22					1.00	1.00	1.00	1.00
10/23/2012 18:24	0.92	0.69	0.23					0.92	0.92	0.92	0.92
10/23/2012 18:30	0.82	0.59	0.23					0.82	0.82	0.82	0.82
10/23/2012 18:36	0.69	0.5	0.19					0.69	0.69	0.69	0.69
10/23/2012 18:42	0.61	0.4	0.21					0.61	0.61	0.61	0.61
10/23/2012 18:48	0.45	0.31	0.14					0.45	0.45	0.45	0.45
10/23/2012 18:54	0.33	0.22	0.11					0.33	0.33	0.33	0.33
10/23/2012 19:00	0.21	0.13	0.08					0.21	0.21	0.21	0.21
10/23/2012 19:06	0.08	0.04	0.04					0.08	0.08	0.08	0.08
10/23/2012 19:12	-0.02	-0.05	0.03					-0.02	-0.02	-0.02	-0.02
10/23/2012 19:18	-0.14	-0.14	0.00					-0.14	-0.14	-0.14	-0.14
10/23/2012 19:24	-0.24	-0.23	-0.01					-0.24	-0.24	-0.24	-0.24
10/23/2012 19:30	-0.36	-0.31	-0.05					-0.36	-0.36	-0.36	-0.36
10/23/2012 19:36	-0.47	-0.4	-0.07					-0.47	-0.47	-0.47	-0.47
10/23/2012 19:42	-0.56	-0.49	-0.07					-0.56	-0.56	-0.56	-0.56
10/23/2012 19:48	-0.65	-0.57	-0.08					-0.65	-0.65	-0.65	-0.65
10/23/2012 19:54	-0.74	-0.66	-0.08					-0.74	-0.74	-0.74	-0.74

Water Level Obtained from NOAA Gage at Battery during Hurricane Sandy				Scaling factor applied for each time step on Measure-Predicted				Final stillwater elevations scaled for various storm events (feet-NAVD)			
Date Time (LST/LDT)	Water Level (FT NAVD)	Pred Tide, FT NAVD	Meas-Pred	10yr surge	50yr surge	100yr surge	500yr surge	10yr WL	50yr WL	100yr WL	500yr WL
10/23/2012 20:00	-0.84	-0.75	-0.09					-0.84	-0.84	-0.84	-0.84
10/23/2012 20:06	-0.91	-0.84	-0.07					-0.91	-0.91	-0.91	-0.91
10/23/2012 20:12	-0.97	-0.93	-0.04					-0.97	-0.97	-0.97	-0.97
10/23/2012 20:18	-1.03	-1.02	-0.01					-1.03	-1.03	-1.03	-1.03
10/23/2012 20:24	-1.09	-1.11	0.02					-1.09	-1.09	-1.09	-1.09
10/23/2012 20:30	-1.19	-1.2	0.01					-1.19	-1.19	-1.19	-1.19
10/23/2012 20:36	-1.27	-1.29	0.02					-1.27	-1.27	-1.27	-1.27
10/23/2012 20:42	-1.33	-1.38	0.05					-1.33	-1.33	-1.33	-1.33
10/23/2012 20:48	-1.40	-1.48	0.08					-1.40	-1.40	-1.40	-1.40
10/23/2012 20:54	-1.50	-1.57	0.07					-1.50	-1.50	-1.50	-1.50
10/23/2012 21:00	-1.57	-1.66	0.09					-1.57	-1.57	-1.57	-1.57
10/23/2012 21:06	-1.66	-1.75	0.09					-1.66	-1.66	-1.66	-1.66
10/23/2012 21:12	-1.74	-1.84	0.10					-1.74	-1.74	-1.74	-1.74
10/23/2012 21:18	-1.83	-1.93	0.10					-1.83	-1.83	-1.83	-1.83
10/23/2012 21:24	-1.91	-2.01	0.10					-1.91	-1.91	-1.91	-1.91
10/23/2012 21:30	-1.96	-2.09	0.13					-1.96	-1.96	-1.96	-1.96
10/23/2012 21:36	-2.02	-2.17	0.15					-2.02	-2.02	-2.02	-2.02
10/23/2012 21:42	-2.07	-2.24	0.17					-2.07	-2.07	-2.07	-2.07
10/23/2012 21:48	-2.14	-2.3	0.16					-2.14	-2.14	-2.14	-2.14
10/23/2012 21:54	-2.20	-2.36	0.16					-2.20	-2.20	-2.20	-2.20
10/23/2012 22:00	-2.25	-2.41	0.16					-2.25	-2.25	-2.25	-2.25
10/23/2012 22:06	-2.28	-2.46	0.18					-2.28	-2.28	-2.28	-2.28
10/23/2012 22:12	-2.33	-2.5	0.17					-2.33	-2.33	-2.33	-2.33
10/23/2012 22:18	-2.35	-2.52	0.17					-2.35	-2.35	-2.35	-2.35
10/23/2012 22:24	-2.36	-2.54	0.18					-2.36	-2.36	-2.36	-2.36
10/23/2012 22:30	-2.37	-2.56	0.19					-2.37	-2.37	-2.37	-2.37
10/23/2012 22:36	-2.38	-2.56	0.18					-2.38	-2.38	-2.38	-2.38
10/23/2012 22:42	-2.38	-2.55	0.18					-2.38	-2.38	-2.38	-2.38
10/23/2012 22:48	-2.37	-2.54	0.17					-2.37	-2.37	-2.37	-2.37
10/23/2012 22:54	-2.35	-2.51	0.16					-2.35	-2.35	-2.35	-2.35
10/23/2012 23:00	-2.32	-2.48	0.16					-2.32	-2.32	-2.32	-2.32
10/23/2012 23:06	-2.31	-2.44	0.13					-2.31	-2.31	-2.31	-2.31
10/23/2012 23:12	-2.26	-2.39	0.13					-2.26	-2.26	-2.26	-2.26
10/23/2012 23:18	-2.19	-2.34	0.15					-2.19	-2.19	-2.19	-2.19
10/23/2012 23:24	-2.14	-2.28	0.14					-2.14	-2.14	-2.14	-2.14
10/23/2012 23:30	-2.06	-2.21	0.15					-2.06	-2.06	-2.06	-2.06
10/23/2012 23:36	-1.96	-2.13	0.18					-1.96	-1.96	-1.96	-1.96
10/23/2012 23:42	-1.86	-2.05	0.19					-1.86	-1.86	-1.86	-1.86
10/23/2012 23:48	-1.75	-1.96	0.21					-1.75	-1.75	-1.75	-1.75
10/23/2012 23:54	-1.63	-1.87	0.24					-1.63	-1.63	-1.63	-1.63

Water Level Obtained from NOAA Gage at Battery during Hurricane Sandy				Scaling factor applied for each time step on Measure-Predicted				Final stillwater elevations scaled for various storm events (feet-NAVD)			
Date Time (LST/LDT)	Water Level (FT NAVD)	Pred Tide, FT NAVD	Meas-Pred	10yr surge	50yr surge	100yr surge	500yr surge	10yr WL	50yr WL	100yr WL	500yr WL
10/24/2012 0:00	-1.52	-1.78	0.26					-1.52	-1.52	-1.52	-1.52
10/24/2012 0:06	-1.42	-1.68	0.26					-1.42	-1.42	-1.42	-1.42
10/24/2012 0:12	-1.30	-1.58	0.28					-1.30	-1.30	-1.30	-1.30
10/24/2012 0:18	-1.16	-1.48	0.33					-1.16	-1.16	-1.16	-1.16
10/24/2012 0:24	-1.02	-1.38	0.36					-1.02	-1.02	-1.02	-1.02
10/24/2012 0:30	-0.89	-1.27	0.38					-0.89	-0.89	-0.89	-0.89
10/24/2012 0:36	-0.75	-1.16	0.41					-0.75	-0.75	-0.75	-0.75
10/24/2012 0:42	-0.63	-1.06	0.43					-0.63	-0.63	-0.63	-0.63
10/24/2012 0:48	-0.49	-0.95	0.46					-0.49	-0.49	-0.49	-0.49
10/24/2012 0:54	-0.38	-0.84	0.46					-0.38	-0.38	-0.38	-0.38
10/24/2012 1:00	-0.24	-0.73	0.49					-0.24	-0.24	-0.24	-0.24
10/24/2012 1:06	-0.13	-0.62	0.49					-0.13	-0.13	-0.13	-0.13
10/24/2012 1:12	-0.01	-0.51	0.50					-0.01	-0.01	-0.01	-0.01
10/24/2012 1:18	0.11	-0.4	0.51					0.11	0.11	0.11	0.11
10/24/2012 1:24	0.24	-0.3	0.54					0.24	0.24	0.24	0.24
10/24/2012 1:30	0.34	-0.19	0.53					0.34	0.34	0.34	0.34
10/24/2012 1:36	0.47	-0.08	0.55					0.47	0.47	0.47	0.47
10/24/2012 1:42	0.58	0.02	0.56					0.58	0.58	0.58	0.58
10/24/2012 1:48	0.70	0.12	0.58					0.70	0.70	0.70	0.70
10/24/2012 1:54	0.82	0.22	0.60					0.82	0.82	0.82	0.82
10/24/2012 2:00	0.92	0.33	0.59					0.92	0.92	0.92	0.92
10/24/2012 2:06	1.03	0.42	0.61					1.03	1.03	1.03	1.03
10/24/2012 2:12	1.13	0.52	0.61					1.13	1.13	1.13	1.13
10/24/2012 2:18	1.21	0.62	0.59					1.21	1.21	1.21	1.21
10/24/2012 2:24	1.29	0.71	0.58					1.29	1.29	1.29	1.29
10/24/2012 2:30	1.38	0.8	0.58					1.38	1.38	1.38	1.38
10/24/2012 2:36	1.44	0.89	0.55					1.44	1.44	1.44	1.44
10/24/2012 2:42	1.50	0.97	0.53					1.50	1.50	1.50	1.50
10/24/2012 2:48	1.54	1.06	0.48					1.54	1.54	1.54	1.54
10/24/2012 2:54	1.59	1.14	0.45					1.59	1.59	1.59	1.59
10/24/2012 3:00	1.63	1.22	0.41					1.63	1.63	1.63	1.63
10/24/2012 3:06	1.68	1.29	0.39					1.68	1.68	1.68	1.68
10/24/2012 3:12	1.73	1.36	0.37					1.73	1.73	1.73	1.73
10/24/2012 3:18	1.76	1.43	0.33					1.76	1.76	1.76	1.76
10/24/2012 3:24	1.82	1.49	0.33					1.82	1.82	1.82	1.82
10/24/2012 3:30	1.86	1.55	0.31					1.86	1.86	1.86	1.86
10/24/2012 3:36	1.90	1.61	0.29					1.90	1.90	1.90	1.90
10/24/2012 3:42	1.94	1.66	0.28					1.94	1.94	1.94	1.94
10/24/2012 3:48	1.98	1.71	0.27					1.98	1.98	1.98	1.98
10/24/2012 3:54	2.00	1.75	0.25					2.00	2.00	2.00	2.00

Water Level Obtained from NOAA Gage at Battery during Hurricane Sandy				Scaling factor applied for each time step on Measure-Predicted				Final stillwater elevations scaled for various storm events (feet-NAVD)			
Date Time (LST/LDT)	Water Level (FT NAVD)	Pred Tide, FT NAVD	Meas-Pred	10yr surge	50yr surge	100yr surge	500yr surge	10yr WL	50yr WL	100yr WL	500yr WL
10/24/2012 4:00	2.04	1.79	0.25					2.04	2.04	2.04	2.04
10/24/2012 4:06	2.05	1.82	0.23					2.05	2.05	2.05	2.05
10/24/2012 4:12	2.08	1.85	0.23					2.08	2.08	2.08	2.08
10/24/2012 4:18	2.09	1.87	0.22					2.09	2.09	2.09	2.09
10/24/2012 4:24	2.10	1.89	0.21					2.10	2.10	2.10	2.10
10/24/2012 4:30	2.12	1.9	0.22					2.12	2.12	2.12	2.12
10/24/2012 4:36	2.13	1.91	0.22					2.13	2.13	2.13	2.13
10/24/2012 4:42	2.14	1.91	0.23					2.14	2.14	2.14	2.14
10/24/2012 4:48	2.15	1.91	0.24					2.15	2.15	2.15	2.15
10/24/2012 4:54	2.15	1.9	0.25					2.15	2.15	2.15	2.15
10/24/2012 5:00	2.13	1.88	0.25					2.13	2.13	2.13	2.13
10/24/2012 5:06	2.11	1.86	0.25					2.11	2.11	2.11	2.11
10/24/2012 5:12	2.09	1.83	0.26					2.09	2.09	2.09	2.09
10/24/2012 5:18	2.06	1.8	0.26					2.06	2.06	2.06	2.06
10/24/2012 5:24	2.01	1.76	0.25					2.01	2.01	2.01	2.01
10/24/2012 5:30	1.97	1.72	0.25					1.97	1.97	1.97	1.97
10/24/2012 5:36	1.95	1.67	0.28					1.95	1.95	1.95	1.95
10/24/2012 5:42	1.90	1.62	0.28					1.90	1.90	1.90	1.90
10/24/2012 5:48	1.85	1.56	0.29					1.85	1.85	1.85	1.85
10/24/2012 5:54	1.79	1.5	0.29					1.79	1.79	1.79	1.79
10/24/2012 6:00	1.73	1.43	0.30					1.73	1.73	1.73	1.73
10/24/2012 6:06	1.66	1.36	0.30					1.66	1.66	1.66	1.66
10/24/2012 6:12	1.59	1.29	0.30					1.59	1.59	1.59	1.59
10/24/2012 6:18	1.50	1.21	0.29					1.50	1.50	1.50	1.50
10/24/2012 6:24	1.45	1.14	0.31					1.45	1.45	1.45	1.45
10/24/2012 6:30	1.37	1.06	0.31					1.37	1.37	1.37	1.37
10/24/2012 6:36	1.32	0.98	0.34					1.32	1.32	1.32	1.32
10/24/2012 6:42	1.26	0.9	0.36					1.26	1.26	1.26	1.26
10/24/2012 6:48	1.17	0.82	0.35					1.17	1.17	1.17	1.17
10/24/2012 6:54	1.10	0.73	0.37					1.10	1.10	1.10	1.10
10/24/2012 7:00	1.02	0.65	0.37					1.02	1.02	1.02	1.02
10/24/2012 7:06	0.94	0.57	0.37					0.94	0.94	0.94	0.94
10/24/2012 7:12	0.83	0.49	0.34					0.83	0.83	0.83	0.83
10/24/2012 7:18	0.73	0.41	0.32					0.73	0.73	0.73	0.73
10/24/2012 7:24	0.64	0.33	0.31					0.64	0.64	0.64	0.64
10/24/2012 7:30	0.54	0.25	0.29					0.54	0.54	0.54	0.54
10/24/2012 7:36	0.45	0.17	0.28					0.45	0.45	0.45	0.45
10/24/2012 7:42	0.36	0.09	0.27					0.36	0.36	0.36	0.36
10/24/2012 7:48	0.28	0.01	0.27					0.28	0.28	0.28	0.28
10/24/2012 7:54	0.20	-0.06	0.26					0.20	0.20	0.20	0.20

Water Level Obtained from NOAA Gage at Battery during Hurricane Sandy				Scaling factor applied for each time step on Measure-Predicted				Final stillwater elevations scaled for various storm events (feet-NAVD)			
Date Time (LST/LDT)	Water Level (FT NAVD)	Pred Tide, FT NAVD	Meas-Pred	10yr surge	50yr surge	100yr surge	500yr surge	10yr WL	50yr WL	100yr WL	500yr WL
10/24/2012 8:00	0.10	-0.14	0.24					0.10	0.10	0.10	0.10
10/24/2012 8:06	-0.01	-0.22	0.21					-0.01	-0.01	-0.01	-0.01
10/24/2012 8:12	-0.13	-0.3	0.18					-0.13	-0.13	-0.13	-0.13
10/24/2012 8:18	-0.21	-0.38	0.17					-0.21	-0.21	-0.21	-0.21
10/24/2012 8:24	-0.30	-0.46	0.16					-0.30	-0.30	-0.30	-0.30
10/24/2012 8:30	-0.37	-0.54	0.17					-0.37	-0.37	-0.37	-0.37
10/24/2012 8:36	-0.45	-0.63	0.18					-0.45	-0.45	-0.45	-0.45
10/24/2012 8:42	-0.53	-0.71	0.18					-0.53	-0.53	-0.53	-0.53
10/24/2012 8:48	-0.62	-0.8	0.18					-0.62	-0.62	-0.62	-0.62
10/24/2012 8:54	-0.68	-0.88	0.20					-0.68	-0.68	-0.68	-0.68
10/24/2012 9:00	-0.77	-0.97	0.20					-0.77	-0.77	-0.77	-0.77
10/24/2012 9:06	-0.84	-1.06	0.22					-0.84	-0.84	-0.84	-0.84
10/24/2012 9:12	-0.88	-1.15	0.27					-0.88	-0.88	-0.88	-0.88
10/24/2012 9:18	-0.96	-1.24	0.28					-0.96	-0.96	-0.96	-0.96
10/24/2012 9:24	-1.04	-1.33	0.29					-1.04	-1.04	-1.04	-1.04
10/24/2012 9:30	-1.11	-1.42	0.31					-1.11	-1.11	-1.11	-1.11
10/24/2012 9:36	-1.17	-1.5	0.33					-1.17	-1.17	-1.17	-1.17
10/24/2012 9:42	-1.26	-1.59	0.33					-1.26	-1.26	-1.26	-1.26
10/24/2012 9:48	-1.33	-1.67	0.34					-1.33	-1.33	-1.33	-1.33
10/24/2012 9:54	-1.40	-1.75	0.35					-1.40	-1.40	-1.40	-1.40
10/24/2012 10:00	-1.50	-1.83	0.33					-1.50	-1.50	-1.50	-1.50
10/24/2012 10:06	-1.56	-1.9	0.34					-1.56	-1.56	-1.56	-1.56
10/24/2012 10:12	-1.62	-1.96	0.34					-1.62	-1.62	-1.62	-1.62
10/24/2012 10:18	-1.67	-2.02	0.35					-1.67	-1.67	-1.67	-1.67
10/24/2012 10:24	-1.74	-2.07	0.33					-1.74	-1.74	-1.74	-1.74
10/24/2012 10:30	-1.80	-2.12	0.33					-1.80	-1.80	-1.80	-1.80
10/24/2012 10:36	-1.82	-2.16	0.34					-1.82	-1.82	-1.82	-1.82
10/24/2012 10:42	-1.84	-2.19	0.35					-1.84	-1.84	-1.84	-1.84
10/24/2012 10:48	-1.87	-2.21	0.34					-1.87	-1.87	-1.87	-1.87
10/24/2012 10:54	-1.88	-2.22	0.34					-1.88	-1.88	-1.88	-1.88
10/24/2012 11:00	-1.88	-2.22	0.34					-1.88	-1.88	-1.88	-1.88
10/24/2012 11:06	-1.89	-2.22	0.33					-1.89	-1.89	-1.89	-1.89
10/24/2012 11:12	-1.89	-2.2	0.31					-1.89	-1.89	-1.89	-1.89
10/24/2012 11:18	-1.87	-2.18	0.31					-1.87	-1.87	-1.87	-1.87
10/24/2012 11:24	-1.86	-2.15	0.29					-1.86	-1.86	-1.86	-1.86
10/24/2012 11:30	-1.84	-2.11	0.27					-1.84	-1.84	-1.84	-1.84
10/24/2012 11:36	-1.81	-2.07	0.26					-1.81	-1.81	-1.81	-1.81
10/24/2012 11:42	-1.76	-2.01	0.25					-1.76	-1.76	-1.76	-1.76
10/24/2012 11:48	-1.72	-1.95	0.23					-1.72	-1.72	-1.72	-1.72
10/24/2012 11:54	-1.67	-1.88	0.21					-1.67	-1.67	-1.67	-1.67

Water Level Obtained from NOAA Gage at Battery during Hurricane Sandy				Scaling factor applied for each time step on Measure-Predicted				Final stillwater elevations scaled for various storm events (feet-NAVD)			
Date Time (LST/LDT)	Water Level (FT NAVD)	Pred Tide, FT NAVD	Meas-Pred	10yr surge	50yr surge	100yr surge	500yr surge	10yr WL	50yr WL	100yr WL	500yr WL
10/24/2012 12:00	-1.59	-1.81	0.22					-1.59	-1.59	-1.59	-1.59
10/24/2012 12:06	-1.51	-1.73	0.22					-1.51	-1.51	-1.51	-1.51
10/24/2012 12:12	-1.42	-1.64	0.22					-1.42	-1.42	-1.42	-1.42
10/24/2012 12:18	-1.33	-1.56	0.23					-1.33	-1.33	-1.33	-1.33
10/24/2012 12:24	-1.24	-1.46	0.22					-1.24	-1.24	-1.24	-1.24
10/24/2012 12:30	-1.13	-1.37	0.24					-1.13	-1.13	-1.13	-1.13
10/24/2012 12:36	-1.01	-1.27	0.26					-1.01	-1.01	-1.01	-1.01
10/24/2012 12:42	-0.89	-1.17	0.28					-0.89	-0.89	-0.89	-0.89
10/24/2012 12:48	-0.78	-1.07	0.29					-0.78	-0.78	-0.78	-0.78
10/24/2012 12:54	-0.64	-0.96	0.32					-0.64	-0.64	-0.64	-0.64
10/24/2012 13:00	-0.54	-0.86	0.33					-0.54	-0.54	-0.54	-0.54
10/24/2012 13:06	-0.42	-0.75	0.33					-0.42	-0.42	-0.42	-0.42
10/24/2012 13:12	-0.31	-0.64	0.33					-0.31	-0.31	-0.31	-0.31
10/24/2012 13:18	-0.17	-0.54	0.37					-0.17	-0.17	-0.17	-0.17
10/24/2012 13:24	-0.08	-0.43	0.36					-0.08	-0.08	-0.08	-0.08
10/24/2012 13:30	0.03	-0.32	0.35					0.03	0.03	0.03	0.03
10/24/2012 13:36	0.12	-0.22	0.34					0.12	0.12	0.12	0.12
10/24/2012 13:42	0.23	-0.11	0.34					0.23	0.23	0.23	0.23
10/24/2012 13:48	0.34	-0.01	0.35					0.34	0.34	0.34	0.34
10/24/2012 13:54	0.47	0.1	0.37					0.47	0.47	0.47	0.47
10/24/2012 14:00	0.59	0.2	0.39					0.59	0.59	0.59	0.59
10/24/2012 14:06	0.72	0.3	0.42					0.72	0.72	0.72	0.72
10/24/2012 14:12	0.85	0.4	0.45					0.85	0.85	0.85	0.85
10/24/2012 14:18	0.97	0.5	0.47					0.97	0.97	0.97	0.97
10/24/2012 14:24	1.10	0.59	0.51					1.10	1.10	1.10	1.10
10/24/2012 14:30	1.21	0.69	0.52					1.21	1.21	1.21	1.21
10/24/2012 14:36	1.32	0.78	0.54					1.32	1.32	1.32	1.32
10/24/2012 14:42	1.44	0.87	0.57					1.44	1.44	1.44	1.44
10/24/2012 14:48	1.54	0.96	0.58					1.54	1.54	1.54	1.54
10/24/2012 14:54	1.64	1.05	0.59					1.64	1.64	1.64	1.64
10/24/2012 15:00	1.73	1.13	0.60					1.73	1.73	1.73	1.73
10/24/2012 15:06	1.80	1.22	0.58					1.80	1.80	1.80	1.80
10/24/2012 15:12	1.85	1.29	0.56					1.85	1.85	1.85	1.85
10/24/2012 15:18	1.90	1.37	0.53					1.90	1.90	1.90	1.90
10/24/2012 15:24	1.95	1.44	0.51					1.95	1.95	1.95	1.95
10/24/2012 15:30	1.98	1.51	0.47					1.98	1.98	1.98	1.98
10/24/2012 15:36	2.02	1.58	0.44					2.02	2.02	2.02	2.02
10/24/2012 15:42	2.08	1.64	0.44					2.08	2.08	2.08	2.08
10/24/2012 15:48	2.13	1.7	0.43					2.13	2.13	2.13	2.13
10/24/2012 15:54	2.16	1.76	0.40					2.16	2.16	2.16	2.16

Water Level Obtained from NOAA Gage at Battery during Hurricane Sandy				Scaling factor applied for each time step on Measure-Predicted				Final stillwater elevations scaled for various storm events (feet-NAVD)			
Date Time (LST/LDT)	Water Level (FT NAVD)	Pred Tide, FT NAVD	Meas-Pred	10yr surge	50yr surge	100yr surge	500yr surge	10yr WL	50yr WL	100yr WL	500yr WL
10/24/2012 16:00	2.18	1.81	0.37					2.18	2.18	2.18	2.18
10/24/2012 16:06	2.23	1.86	0.37					2.23	2.23	2.23	2.23
10/24/2012 16:12	2.28	1.9	0.38					2.28	2.28	2.28	2.28
10/24/2012 16:18	2.34	1.94	0.40					2.34	2.34	2.34	2.34
10/24/2012 16:24	2.38	1.98	0.40					2.38	2.38	2.38	2.38
10/24/2012 16:30	2.42	2	0.42					2.42	2.42	2.42	2.42
10/24/2012 16:36	2.44	2.03	0.41					2.44	2.44	2.44	2.44
10/24/2012 16:42	2.47	2.05	0.42					2.47	2.47	2.47	2.47
10/24/2012 16:48	2.46	2.06	0.40					2.46	2.46	2.46	2.46
10/24/2012 16:54	2.48	2.07	0.41					2.48	2.48	2.48	2.48
10/24/2012 17:00	2.46	2.07	0.39					2.46	2.46	2.46	2.46
10/24/2012 17:06	2.46	2.07	0.39					2.46	2.46	2.46	2.46
10/24/2012 17:12	2.44	2.06	0.38					2.44	2.44	2.44	2.44
10/24/2012 17:18	2.43	2.05	0.38					2.43	2.43	2.43	2.43
10/24/2012 17:24	2.39	2.03	0.36					2.39	2.39	2.39	2.39
10/24/2012 17:30	2.35	2	0.35					2.35	2.35	2.35	2.35
10/24/2012 17:36	2.30	1.97	0.33					2.30	2.30	2.30	2.30
10/24/2012 17:42	2.26	1.93	0.33					2.26	2.26	2.26	2.26
10/24/2012 17:48	2.23	1.89	0.34					2.23	2.23	2.23	2.23
10/24/2012 17:54	2.20	1.84	0.36					2.20	2.20	2.20	2.20
10/24/2012 18:00	2.15	1.78	0.37					2.15	2.15	2.15	2.15
10/24/2012 18:06	2.12	1.73	0.39					2.12	2.12	2.12	2.12
10/24/2012 18:12	2.05	1.66	0.39					2.05	2.05	2.05	2.05
10/24/2012 18:18	2.01	1.59	0.42					2.01	2.01	2.01	2.01
10/24/2012 18:24	1.93	1.52	0.41					1.93	1.93	1.93	1.93
10/24/2012 18:30	1.87	1.44	0.43					1.87	1.87	1.87	1.87
10/24/2012 18:36	1.80	1.36	0.44					1.80	1.80	1.80	1.80
10/24/2012 18:42	1.71	1.28	0.43					1.71	1.71	1.71	1.71
10/24/2012 18:48	1.62	1.19	0.43					1.62	1.62	1.62	1.62
10/24/2012 18:54	1.54	1.11	0.43					1.54	1.54	1.54	1.54
10/24/2012 19:00	1.45	1.02	0.43					1.45	1.45	1.45	1.45
10/24/2012 19:06	1.35	0.93	0.42					1.35	1.35	1.35	1.35
10/24/2012 19:12	1.26	0.83	0.43					1.26	1.26	1.26	1.26
10/24/2012 19:18	1.16	0.74	0.42					1.16	1.16	1.16	1.16
10/24/2012 19:24	1.09	0.65	0.44					1.09	1.09	1.09	1.09
10/24/2012 19:30	1.00	0.56	0.44					1.00	1.00	1.00	1.00
10/24/2012 19:36	0.89	0.46	0.43					0.89	0.89	0.89	0.89
10/24/2012 19:42	0.79	0.37	0.42					0.79	0.79	0.79	0.79
10/24/2012 19:48	0.69	0.28	0.41					0.69	0.69	0.69	0.69
10/24/2012 19:54	0.57	0.19	0.38					0.57	0.57	0.57	0.57

Water Level Obtained from NOAA Gage at Battery during Hurricane Sandy				Scaling factor applied for each time step on Measure-Predicted				Final stillwater elevations scaled for various storm events (feet-NAVD)			
Date Time (LST/LDT)	Water Level (FT NAVD)	Pred Tide, FT NAVD	Meas-Pred	10yr surge	50yr surge	100yr surge	500yr surge	10yr WL	50yr WL	100yr WL	500yr WL
10/24/2012 20:00	0.47	0.1	0.37					0.47	0.47	0.47	0.47
10/24/2012 20:06	0.36	0	0.36					0.36	0.36	0.36	0.36
10/24/2012 20:12	0.25	-0.09	0.34					0.25	0.25	0.25	0.25
10/24/2012 20:18	0.14	-0.18	0.32					0.14	0.14	0.14	0.14
10/24/2012 20:24	0.03	-0.27	0.30					0.03	0.03	0.03	0.03
10/24/2012 20:30	-0.07	-0.36	0.29					-0.07	-0.07	-0.07	-0.07
10/24/2012 20:36	-0.18	-0.46	0.28					-0.18	-0.18	-0.18	-0.18
10/24/2012 20:42	-0.28	-0.55	0.27					-0.28	-0.28	-0.28	-0.28
10/24/2012 20:48	-0.38	-0.64	0.26					-0.38	-0.38	-0.38	-0.38
10/24/2012 20:54	-0.49	-0.74	0.25					-0.49	-0.49	-0.49	-0.49
10/24/2012 21:00	-0.60	-0.83	0.23					-0.60	-0.60	-0.60	-0.60
10/24/2012 21:06	-0.68	-0.93	0.25					-0.68	-0.68	-0.68	-0.68
10/24/2012 21:12	-0.78	-1.03	0.25					-0.78	-0.78	-0.78	-0.78
10/24/2012 21:18	-0.84	-1.13	0.29					-0.84	-0.84	-0.84	-0.84
10/24/2012 21:24	-0.93	-1.23	0.30					-0.93	-0.93	-0.93	-0.93
10/24/2012 21:30	-1.02	-1.33	0.31					-1.02	-1.02	-1.02	-1.02
10/24/2012 21:36	-1.14	-1.43	0.30					-1.14	-1.14	-1.14	-1.14
10/24/2012 21:42	-1.20	-1.53	0.33					-1.20	-1.20	-1.20	-1.20
10/24/2012 21:48	-1.25	-1.63	0.38					-1.25	-1.25	-1.25	-1.25
10/24/2012 21:54	-1.33	-1.73	0.40					-1.33	-1.33	-1.33	-1.33
10/24/2012 22:00	-1.40	-1.83	0.43					-1.40	-1.40	-1.40	-1.40
10/24/2012 22:06	-1.46	-1.93	0.47					-1.46	-1.46	-1.46	-1.46
10/24/2012 22:12	-1.55	-2.02	0.47					-1.55	-1.55	-1.55	-1.55
10/24/2012 22:18	-1.61	-2.11	0.50					-1.61	-1.61	-1.61	-1.61
10/24/2012 22:24	-1.67	-2.19	0.52					-1.67	-1.67	-1.67	-1.67
10/24/2012 22:30	-1.74	-2.27	0.53					-1.74	-1.74	-1.74	-1.74
10/24/2012 22:36	-1.79	-2.35	0.56					-1.79	-1.79	-1.79	-1.79
10/24/2012 22:42	-1.85	-2.41	0.56					-1.85	-1.85	-1.85	-1.85
10/24/2012 22:48	-1.92	-2.47	0.55					-1.92	-1.92	-1.92	-1.92
10/24/2012 22:54	-1.98	-2.53	0.56					-1.98	-1.98	-1.98	-1.98
10/24/2012 23:00	-2.03	-2.57	0.54					-2.03	-2.03	-2.03	-2.03
10/24/2012 23:06	-2.09	-2.61	0.52					-2.09	-2.09	-2.09	-2.09
10/24/2012 23:12	-2.15	-2.63	0.48					-2.15	-2.15	-2.15	-2.15
10/24/2012 23:18	-2.18	-2.65	0.47					-2.18	-2.18	-2.18	-2.18
10/24/2012 23:24	-2.21	-2.66	0.45					-2.21	-2.21	-2.21	-2.21
10/24/2012 23:30	-2.24	-2.66	0.42					-2.24	-2.24	-2.24	-2.24
10/24/2012 23:36	-2.24	-2.65	0.41					-2.24	-2.24	-2.24	-2.24
10/24/2012 23:42	-2.24	-2.63	0.39					-2.24	-2.24	-2.24	-2.24
10/24/2012 23:48	-2.23	-2.6	0.37					-2.23	-2.23	-2.23	-2.23
10/24/2012 23:54	-2.22	-2.57	0.35					-2.22	-2.22	-2.22	-2.22

Water Level Obtained from NOAA Gage at Battery during Hurricane Sandy				Scaling factor applied for each time step on Measure-Predicted				Final stillwater elevations scaled for various storm events (feet-NAVD)			
Date Time (LST/LDT)	Water Level (FT NAVD)	Pred Tide, FT NAVD	Meas-Pred	10yr surge	50yr surge	100yr surge	500yr surge	10yr WL	50yr WL	100yr WL	500yr WL
10/25/2012 0:00	-2.17	-2.52	0.36					-2.17	-2.17	-2.17	-2.17
10/25/2012 0:06	-2.13	-2.47	0.34					-2.13	-2.13	-2.13	-2.13
10/25/2012 0:12	-2.07	-2.41	0.34					-2.07	-2.07	-2.07	-2.07
10/25/2012 0:18	-2.00	-2.34	0.34					-2.00	-2.00	-2.00	-2.00
10/25/2012 0:24	-1.91	-2.26	0.35					-1.91	-1.91	-1.91	-1.91
10/25/2012 0:30	-1.82	-2.18	0.36					-1.82	-1.82	-1.82	-1.82
10/25/2012 0:36	-1.71	-2.09	0.38					-1.71	-1.71	-1.71	-1.71
10/25/2012 0:42	-1.61	-2	0.39					-1.61	-1.61	-1.61	-1.61
10/25/2012 0:48	-1.51	-1.91	0.40					-1.51	-1.51	-1.51	-1.51
10/25/2012 0:54	-1.41	-1.81	0.40					-1.41	-1.41	-1.41	-1.41
10/25/2012 1:00	-1.31	-1.71	0.40					-1.31	-1.31	-1.31	-1.31
10/25/2012 1:06	-1.19	-1.6	0.41					-1.19	-1.19	-1.19	-1.19
10/25/2012 1:12	-1.07	-1.49	0.42					-1.07	-1.07	-1.07	-1.07
10/25/2012 1:18	-0.94	-1.38	0.44					-0.94	-0.94	-0.94	-0.94
10/25/2012 1:24	-0.82	-1.27	0.45					-0.82	-0.82	-0.82	-0.82
10/25/2012 1:30	-0.70	-1.16	0.46					-0.70	-0.70	-0.70	-0.70
10/25/2012 1:36	-0.56	-1.05	0.49					-0.56	-0.56	-0.56	-0.56
10/25/2012 1:42	-0.43	-0.93	0.50					-0.43	-0.43	-0.43	-0.43
10/25/2012 1:48	-0.30	-0.82	0.52					-0.30	-0.30	-0.30	-0.30
10/25/2012 1:54	-0.17	-0.71	0.54					-0.17	-0.17	-0.17	-0.17
10/25/2012 2:00	-0.03	-0.59	0.56					-0.03	-0.03	-0.03	-0.03
10/25/2012 2:06	0.11	-0.48	0.59					0.11	0.11	0.11	0.11
10/25/2012 2:12	0.25	-0.37	0.62					0.25	0.25	0.25	0.25
10/25/2012 2:18	0.38	-0.26	0.64					0.38	0.38	0.38	0.38
10/25/2012 2:24	0.49	-0.15	0.64					0.49	0.49	0.49	0.49
10/25/2012 2:30	0.59	-0.04	0.63					0.59	0.59	0.59	0.59
10/25/2012 2:36	0.70	0.07	0.63					0.70	0.70	0.70	0.70
10/25/2012 2:42	0.81	0.18	0.63					0.81	0.81	0.81	0.81
10/25/2012 2:48	0.90	0.28	0.62					0.90	0.90	0.90	0.90
10/25/2012 2:54	1.00	0.39	0.61					1.00	1.00	1.00	1.00
10/25/2012 3:00	1.11	0.49	0.62					1.11	1.11	1.11	1.11
10/25/2012 3:06	1.22	0.59	0.63					1.22	1.22	1.22	1.22
10/25/2012 3:12	1.31	0.69	0.62					1.31	1.31	1.31	1.31
10/25/2012 3:18	1.40	0.79	0.61					1.40	1.40	1.40	1.40
10/25/2012 3:24	1.48	0.88	0.60					1.48	1.48	1.48	1.48
10/25/2012 3:30	1.58	0.97	0.61					1.58	1.58	1.58	1.58
10/25/2012 3:36	1.65	1.06	0.59					1.65	1.65	1.65	1.65
10/25/2012 3:42	1.70	1.15	0.55					1.70	1.70	1.70	1.70
10/25/2012 3:48	1.77	1.23	0.54					1.77	1.77	1.77	1.77
10/25/2012 3:54	1.81	1.32	0.49					1.81	1.81	1.81	1.81

Water Level Obtained from NOAA Gage at Battery during Hurricane Sandy				Scaling factor applied for each time step on Measure-Predicted				Final stillwater elevations scaled for various storm events (feet-NAVD)			
Date Time (LST/LDT)	Water Level (FT NAVD)	Pred Tide, FT NAVD	Meas-Pred	10yr surge	50yr surge	100yr surge	500yr surge	10yr WL	50yr WL	100yr WL	500yr WL
10/25/2012 4:00	1.87	1.4	0.47					1.87	1.87	1.87	1.87
10/25/2012 4:06	1.90	1.47	0.43					1.90	1.90	1.90	1.90
10/25/2012 4:12	1.95	1.54	0.41					1.95	1.95	1.95	1.95
10/25/2012 4:18	1.99	1.61	0.38					1.99	1.99	1.99	1.99
10/25/2012 4:24	2.03	1.68	0.35					2.03	2.03	2.03	2.03
10/25/2012 4:30	2.07	1.74	0.33					2.07	2.07	2.07	2.07
10/25/2012 4:36	2.12	1.79	0.33					2.12	2.12	2.12	2.12
10/25/2012 4:42	2.18	1.85	0.33					2.18	2.18	2.18	2.18
10/25/2012 4:48	2.21	1.89	0.32					2.21	2.21	2.21	2.21
10/25/2012 4:54	2.26	1.94	0.32					2.26	2.26	2.26	2.26
10/25/2012 5:00	2.27	1.97	0.30					2.27	2.27	2.27	2.27
10/25/2012 5:06	2.32	2.01	0.31					2.32	2.32	2.32	2.32
10/25/2012 5:12	2.37	2.04	0.33					2.37	2.37	2.37	2.37
10/25/2012 5:18	2.40	2.06	0.34					2.40	2.40	2.40	2.40
10/25/2012 5:24	2.43	2.08	0.35					2.43	2.43	2.43	2.43
10/25/2012 5:30	2.46	2.09	0.37					2.46	2.46	2.46	2.46
10/25/2012 5:36	2.49	2.09	0.40					2.49	2.49	2.49	2.49
10/25/2012 5:42	2.51	2.09	0.42					2.51	2.51	2.51	2.51
10/25/2012 5:48	2.51	2.09	0.42					2.51	2.51	2.51	2.51
10/25/2012 5:54	2.51	2.07	0.44					2.51	2.51	2.51	2.51
10/25/2012 6:00	2.50	2.06	0.44					2.50	2.50	2.50	2.50
10/25/2012 6:06	2.49	2.03	0.46					2.49	2.49	2.49	2.49
10/25/2012 6:12	2.47	2	0.47					2.47	2.47	2.47	2.47
10/25/2012 6:18	2.43	1.97	0.46					2.43	2.43	2.43	2.43
10/25/2012 6:24	2.39	1.92	0.47					2.39	2.39	2.39	2.39
10/25/2012 6:30	2.35	1.88	0.47					2.35	2.35	2.35	2.35
10/25/2012 6:36	2.28	1.83	0.45					2.28	2.28	2.28	2.28
10/25/2012 6:42	2.21	1.77	0.44					2.21	2.21	2.21	2.21
10/25/2012 6:48	2.13	1.71	0.42					2.13	2.13	2.13	2.13
10/25/2012 6:54	2.05	1.64	0.41					2.05	2.05	2.05	2.05
10/25/2012 7:00	1.98	1.57	0.41					1.98	1.98	1.98	1.98
10/25/2012 7:06	1.88	1.5	0.38					1.88	1.88	1.88	1.88
10/25/2012 7:12	1.80	1.43	0.37					1.80	1.80	1.80	1.80
10/25/2012 7:18	1.71	1.35	0.36					1.71	1.71	1.71	1.71
10/25/2012 7:24	1.61	1.27	0.34					1.61	1.61	1.61	1.61
10/25/2012 7:30	1.51	1.19	0.32					1.51	1.51	1.51	1.51
10/25/2012 7:36	1.44	1.1	0.34					1.44	1.44	1.44	1.44
10/25/2012 7:42	1.35	1.02	0.33					1.35	1.35	1.35	1.35
10/25/2012 7:48	1.26	0.93	0.33					1.26	1.26	1.26	1.26
10/25/2012 7:54	1.17	0.85	0.32					1.17	1.17	1.17	1.17

Water Level Obtained from NOAA Gage at Battery during Hurricane Sandy				Scaling factor applied for each time step on Measure-Predicted				Final stillwater elevations scaled for various storm events (feet-NAVD)			
Date Time (LST/LDT)	Water Level (FT NAVD)	Pred Tide, FT NAVD	Meas-Pred	10yr surge	50yr surge	100yr surge	500yr surge	10yr WL	50yr WL	100yr WL	500yr WL
10/25/2012 8:00	1.07	0.76	0.31					1.07	1.07	1.07	1.07
10/25/2012 8:06	0.95	0.67	0.28					0.95	0.95	0.95	0.95
10/25/2012 8:12	0.84	0.59	0.25					0.84	0.84	0.84	0.84
10/25/2012 8:18	0.72	0.5	0.22					0.72	0.72	0.72	0.72
10/25/2012 8:24	0.61	0.41	0.20					0.61	0.61	0.61	0.61
10/25/2012 8:30	0.48	0.32	0.16					0.48	0.48	0.48	0.48
10/25/2012 8:36	0.37	0.24	0.13					0.37	0.37	0.37	0.37
10/25/2012 8:42	0.28	0.15	0.13					0.28	0.28	0.28	0.28
10/25/2012 8:48	0.14	0.06	0.08					0.14	0.14	0.14	0.14
10/25/2012 8:54	0.03	-0.03	0.06					0.03	0.03	0.03	0.03
10/25/2012 9:00	-0.07	-0.12	0.05					-0.07	-0.07	-0.07	-0.07
10/25/2012 9:06	-0.15	-0.21	0.06					-0.15	-0.15	-0.15	-0.15
10/25/2012 9:12	-0.25	-0.3	0.05					-0.25	-0.25	-0.25	-0.25
10/25/2012 9:18	-0.34	-0.4	0.07					-0.34	-0.34	-0.34	-0.34
10/25/2012 9:24	-0.41	-0.49	0.08					-0.41	-0.41	-0.41	-0.41
10/25/2012 9:30	-0.49	-0.59	0.10					-0.49	-0.49	-0.49	-0.49
10/25/2012 9:36	-0.55	-0.69	0.14					-0.55	-0.55	-0.55	-0.55
10/25/2012 9:42	-0.64	-0.78	0.14					-0.64	-0.64	-0.64	-0.64
10/25/2012 9:48	-0.71	-0.88	0.17					-0.71	-0.71	-0.71	-0.71
10/25/2012 9:54	-0.78	-0.99	0.21					-0.78	-0.78	-0.78	-0.78
10/25/2012 10:00	-0.85	-1.09	0.24					-0.85	-0.85	-0.85	-0.85
10/25/2012 10:06	-0.92	-1.19	0.27					-0.92	-0.92	-0.92	-0.92
10/25/2012 10:12	-0.99	-1.29	0.30					-0.99	-0.99	-0.99	-0.99
10/25/2012 10:18	-1.08	-1.39	0.31					-1.08	-1.08	-1.08	-1.08
10/25/2012 10:24	-1.17	-1.49	0.33					-1.17	-1.17	-1.17	-1.17
10/25/2012 10:30	-1.24	-1.59	0.35					-1.24	-1.24	-1.24	-1.24
10/25/2012 10:36	-1.33	-1.68	0.35					-1.33	-1.33	-1.33	-1.33
10/25/2012 10:42	-1.41	-1.77	0.36					-1.41	-1.41	-1.41	-1.41
10/25/2012 10:48	-1.48	-1.86	0.38					-1.48	-1.48	-1.48	-1.48
10/25/2012 10:54	-1.55	-1.94	0.40					-1.55	-1.55	-1.55	-1.55
10/25/2012 11:00	-1.63	-2.02	0.39					-1.63	-1.63	-1.63	-1.63
10/25/2012 11:06	-1.70	-2.09	0.39					-1.70	-1.70	-1.70	-1.70
10/25/2012 11:12	-1.72	-2.15	0.43					-1.72	-1.72	-1.72	-1.72
10/25/2012 11:18	-1.76	-2.21	0.45					-1.76	-1.76	-1.76	-1.76
10/25/2012 11:24	-1.80	-2.26	0.46					-1.80	-1.80	-1.80	-1.80
10/25/2012 11:30	-1.82	-2.3	0.48					-1.82	-1.82	-1.82	-1.82
10/25/2012 11:36	-1.83	-2.33	0.50					-1.83	-1.83	-1.83	-1.83
10/25/2012 11:42	-1.87	-2.35	0.48					-1.87	-1.87	-1.87	-1.87
10/25/2012 11:48	-1.89	-2.37	0.48					-1.89	-1.89	-1.89	-1.89
10/25/2012 11:54	-1.93	-2.37	0.44					-1.93	-1.93	-1.93	-1.93

Water Level Obtained from NOAA Gage at Battery during Hurricane Sandy				Scaling factor applied for each time step on Measure-Predicted				Final stillwater elevations scaled for various storm events (feet-NAVD)			
Date Time (LST/LDT)	Water Level (FT NAVD)	Pred Tide, FT NAVD	Meas-Pred	10yr surge	50yr surge	100yr surge	500yr surge	10yr WL	50yr WL	100yr WL	500yr WL
10/25/2012 12:00	-1.94	-2.37	0.43					-1.94	-1.94	-1.94	-1.94
10/25/2012 12:06	-1.93	-2.35	0.42					-1.93	-1.93	-1.93	-1.93
10/25/2012 12:12	-1.92	-2.33	0.41					-1.92	-1.92	-1.92	-1.92
10/25/2012 12:18	-1.91	-2.3	0.39					-1.91	-1.91	-1.91	-1.91
10/25/2012 12:24	-1.89	-2.25	0.36					-1.89	-1.89	-1.89	-1.89
10/25/2012 12:30	-1.89	-2.21	0.32					-1.89	-1.89	-1.89	-1.89
10/25/2012 12:36	-1.86	-2.15	0.29					-1.86	-1.86	-1.86	-1.86
10/25/2012 12:42	-1.82	-2.09	0.27					-1.82	-1.82	-1.82	-1.82
10/25/2012 12:48	-1.77	-2.02	0.26					-1.77	-1.77	-1.77	-1.77
10/25/2012 12:54	-1.68	-1.94	0.26					-1.68	-1.68	-1.68	-1.68
10/25/2012 13:00	-1.61	-1.86	0.25					-1.61	-1.61	-1.61	-1.61
10/25/2012 13:06	-1.52	-1.77	0.25					-1.52	-1.52	-1.52	-1.52
10/25/2012 13:12	-1.42	-1.68	0.26					-1.42	-1.42	-1.42	-1.42
10/25/2012 13:18	-1.32	-1.59	0.27					-1.32	-1.32	-1.32	-1.32
10/25/2012 13:24	-1.23	-1.49	0.26					-1.23	-1.23	-1.23	-1.23
10/25/2012 13:30	-1.13	-1.39	0.26					-1.13	-1.13	-1.13	-1.13
10/25/2012 13:36	-1.04	-1.29	0.25					-1.04	-1.04	-1.04	-1.04
10/25/2012 13:42	-0.95	-1.19	0.24					-0.95	-0.95	-0.95	-0.95
10/25/2012 13:48	-0.84	-1.08	0.24					-0.84	-0.84	-0.84	-0.84
10/25/2012 13:54	-0.73	-0.98	0.25					-0.73	-0.73	-0.73	-0.73
10/25/2012 14:00	-0.64	-0.87	0.23					-0.64	-0.64	-0.64	-0.64
10/25/2012 14:06	-0.55	-0.76	0.21					-0.55	-0.55	-0.55	-0.55
10/25/2012 14:12	-0.44	-0.65	0.21					-0.44	-0.44	-0.44	-0.44
10/25/2012 14:18	-0.33	-0.54	0.21					-0.33	-0.33	-0.33	-0.33
10/25/2012 14:24	-0.19	-0.44	0.25					-0.19	-0.19	-0.19	-0.19
10/25/2012 14:30	-0.07	-0.33	0.26					-0.07	-0.07	-0.07	-0.07
10/25/2012 14:36	0.07	-0.22	0.29					0.07	0.07	0.07	0.07
10/25/2012 14:42	0.22	-0.12	0.34					0.22	0.22	0.22	0.22
10/25/2012 14:48	0.36	-0.01	0.37					0.36	0.36	0.36	0.36
10/25/2012 14:54	0.50	0.09	0.41					0.50	0.50	0.50	0.50
10/25/2012 15:00	0.63	0.19	0.44					0.63	0.63	0.63	0.63
10/25/2012 15:06	0.76	0.29	0.47					0.76	0.76	0.76	0.76
10/25/2012 15:12	0.89	0.4	0.49					0.89	0.89	0.89	0.89
10/25/2012 15:18	1.00	0.49	0.51					1.00	1.00	1.00	1.00
10/25/2012 15:24	1.11	0.59	0.52					1.11	1.11	1.11	1.11
10/25/2012 15:30	1.24	0.69	0.55					1.24	1.24	1.24	1.24
10/25/2012 15:36	1.35	0.78	0.57					1.35	1.35	1.35	1.35
10/25/2012 15:42	1.41	0.87	0.54					1.41	1.41	1.41	1.41
10/25/2012 15:48	1.50	0.96	0.54					1.50	1.50	1.50	1.50
10/25/2012 15:54	1.57	1.05	0.52					1.57	1.57	1.57	1.57

Water Level Obtained from NOAA Gage at Battery during Hurricane Sandy				Scaling factor applied for each time step on Measure-Predicted				Final stillwater elevations scaled for various storm events (feet-NAVD)			
Date Time (LST/LDT)	Water Level (FT NAVD)	Pred Tide, FT NAVD	Meas-Pred	10yr surge	50yr surge	100yr surge	500yr surge	10yr WL	50yr WL	100yr WL	500yr WL
10/25/2012 16:00	1.63	1.13	0.50					1.63	1.63	1.63	1.63
10/25/2012 16:06	1.68	1.22	0.46					1.68	1.68	1.68	1.68
10/25/2012 16:12	1.75	1.3	0.45					1.75	1.75	1.75	1.75
10/25/2012 16:18	1.80	1.37	0.43					1.80	1.80	1.80	1.80
10/25/2012 16:24	1.87	1.45	0.42					1.87	1.87	1.87	1.87
10/25/2012 16:30	1.92	1.52	0.40					1.92	1.92	1.92	1.92
10/25/2012 16:36	2.01	1.58	0.43					2.01	2.01	2.01	2.01
10/25/2012 16:42	2.07	1.65	0.42					2.07	2.07	2.07	2.07
10/25/2012 16:48	2.12	1.71	0.41					2.12	2.12	2.12	2.12
10/25/2012 16:54	2.17	1.76	0.41					2.17	2.17	2.17	2.17
10/25/2012 17:00	2.19	1.81	0.38					2.19	2.19	2.19	2.19
10/25/2012 17:06	2.24	1.86	0.38					2.24	2.24	2.24	2.24
10/25/2012 17:12	2.28	1.91	0.37					2.28	2.28	2.28	2.28
10/25/2012 17:18	2.29	1.94	0.35					2.29	2.29	2.29	2.29
10/25/2012 17:24	2.32	1.98	0.34					2.32	2.32	2.32	2.32
10/25/2012 17:30	2.33	2	0.33					2.33	2.33	2.33	2.33
10/25/2012 17:36	2.35	2.03	0.32					2.35	2.35	2.35	2.35
10/25/2012 17:42	2.34	2.04	0.30					2.34	2.34	2.34	2.34
10/25/2012 17:48	2.33	2.06	0.27					2.33	2.33	2.33	2.33
10/25/2012 17:54	2.36	2.06	0.30					2.36	2.36	2.36	2.36
10/25/2012 18:00	2.37	2.06	0.31					2.37	2.37	2.37	2.37
10/25/2012 18:06	2.38	2.06	0.32					2.38	2.38	2.38	2.38
10/25/2012 18:12	2.42	2.04	0.38					2.42	2.42	2.42	2.42
10/25/2012 18:18	2.42	2.02	0.40					2.42	2.42	2.42	2.42
10/25/2012 18:24	2.42	2	0.42					2.42	2.42	2.42	2.42
10/25/2012 18:30	2.40	1.97	0.43					2.40	2.40	2.40	2.40
10/25/2012 18:36	2.37	1.93	0.44					2.37	2.37	2.37	2.37
10/25/2012 18:42	2.35	1.89	0.46					2.35	2.35	2.35	2.35
10/25/2012 18:48	2.31	1.84	0.47					2.31	2.31	2.31	2.31
10/25/2012 18:54	2.27	1.78	0.49					2.27	2.27	2.27	2.27
10/25/2012 19:00	2.23	1.72	0.51					2.23	2.23	2.23	2.23
10/25/2012 19:06	2.17	1.66	0.51					2.17	2.17	2.17	2.17
10/25/2012 19:12	2.10	1.59	0.51					2.10	2.10	2.10	2.10
10/25/2012 19:18	2.01	1.51	0.50					2.01	2.01	2.01	2.01
10/25/2012 19:24	1.94	1.43	0.51					1.94	1.94	1.94	1.94
10/25/2012 19:30	1.85	1.35	0.50					1.85	1.85	1.85	1.85
10/25/2012 19:36	1.76	1.27	0.49					1.76	1.76	1.76	1.76
10/25/2012 19:42	1.69	1.18	0.51					1.69	1.69	1.69	1.69
10/25/2012 19:48	1.61	1.09	0.52					1.61	1.61	1.61	1.61
10/25/2012 19:54	1.55	0.99	0.56					1.55	1.55	1.55	1.55

Water Level Obtained from NOAA Gage at Battery during Hurricane Sandy				Scaling factor applied for each time step on Measure-Predicted				Final stillwater elevations scaled for various storm events (feet-NAVD)			
Date Time (LST/LDT)	Water Level (FT NAVD)	Pred Tide, FT NAVD	Meas-Pred	10yr surge	50yr surge	100yr surge	500yr surge	10yr WL	50yr WL	100yr WL	500yr WL
10/25/2012 20:00	1.46	0.9	0.56					1.46	1.46	1.46	1.46
10/25/2012 20:06	1.38	0.8	0.58					1.38	1.38	1.38	1.38
10/25/2012 20:12	1.28	0.71	0.57					1.28	1.28	1.28	1.28
10/25/2012 20:18	1.21	0.61	0.60					1.21	1.21	1.21	1.21
10/25/2012 20:24	1.12	0.51	0.61					1.12	1.12	1.12	1.12
10/25/2012 20:30	1.01	0.41	0.60					1.01	1.01	1.01	1.01
10/25/2012 20:36	0.91	0.31	0.60					0.91	0.91	0.91	0.91
10/25/2012 20:42	0.80	0.22	0.58					0.80	0.80	0.80	0.80
10/25/2012 20:48	0.68	0.12	0.56					0.68	0.68	0.68	0.68
10/25/2012 20:54	0.54	0.02	0.52					0.54	0.54	0.54	0.54
10/25/2012 21:00	0.40	-0.08	0.48					0.40	0.40	0.40	0.40
10/25/2012 21:06	0.28	-0.18	0.46					0.28	0.28	0.28	0.28
10/25/2012 21:12	0.16	-0.27	0.43					0.16	0.16	0.16	0.16
10/25/2012 21:18	0.05	-0.37	0.42					0.05	0.05	0.05	0.05
10/25/2012 21:24	-0.08	-0.47	0.40					-0.08	-0.08	-0.08	-0.08
10/25/2012 21:30	-0.20	-0.57	0.37					-0.20	-0.20	-0.20	-0.20
10/25/2012 21:36	-0.29	-0.67	0.38					-0.29	-0.29	-0.29	-0.29
10/25/2012 21:42	-0.41	-0.77	0.36					-0.41	-0.41	-0.41	-0.41
10/25/2012 21:48	-0.52	-0.87	0.35					-0.52	-0.52	-0.52	-0.52
10/25/2012 21:54	-0.64	-0.98	0.34					-0.64	-0.64	-0.64	-0.64
10/25/2012 22:00	-0.76	-1.08	0.32					-0.76	-0.76	-0.76	-0.76
10/25/2012 22:06	-0.88	-1.18	0.30					-0.88	-0.88	-0.88	-0.88
10/25/2012 22:12	-0.96	-1.29	0.33					-0.96	-0.96	-0.96	-0.96
10/25/2012 22:18	-1.04	-1.39	0.35					-1.04	-1.04	-1.04	-1.04
10/25/2012 22:24	-1.12	-1.5	0.39					-1.12	-1.12	-1.12	-1.12
10/25/2012 22:30	-1.20	-1.6	0.40					-1.20	-1.20	-1.20	-1.20
10/25/2012 22:36	-1.28	-1.7	0.42					-1.28	-1.28	-1.28	-1.28
10/25/2012 22:42	-1.35	-1.81	0.46					-1.35	-1.35	-1.35	-1.35
10/25/2012 22:48	-1.45	-1.91	0.46					-1.45	-1.45	-1.45	-1.45
10/25/2012 22:54	-1.54	-2	0.46					-1.54	-1.54	-1.54	-1.54
10/25/2012 23:00	-1.63	-2.1	0.47					-1.63	-1.63	-1.63	-1.63
10/25/2012 23:06	-1.74	-2.19	0.45					-1.74	-1.74	-1.74	-1.74
10/25/2012 23:12	-1.81	-2.27	0.46					-1.81	-1.81	-1.81	-1.81
10/25/2012 23:18	-1.88	-2.36	0.48					-1.88	-1.88	-1.88	-1.88
10/25/2012 23:24	-1.95	-2.43	0.48					-1.95	-1.95	-1.95	-1.95
10/25/2012 23:30	-2.01	-2.5	0.49					-2.01	-2.01	-2.01	-2.01
10/25/2012 23:36	-2.06	-2.56	0.50					-2.06	-2.06	-2.06	-2.06
10/25/2012 23:42	-2.14	-2.61	0.47					-2.14	-2.14	-2.14	-2.14
10/25/2012 23:48	-2.20	-2.65	0.45					-2.20	-2.20	-2.20	-2.20
10/25/2012 23:54	-2.25	-2.69	0.44					-2.25	-2.25	-2.25	-2.25

Water Level Obtained from NOAA Gage at Battery during Hurricane Sandy				Scaling factor applied for each time step on Measure-Predicted				Final stillwater elevations scaled for various storm events (feet-NAVD)			
Date Time (LST/LDT)	Water Level (FT NAVD)	Pred Tide, FT NAVD	Meas-Pred	10yr surge	50yr surge	100yr surge	500yr surge	10yr WL	50yr WL	100yr WL	500yr WL
10/26/2012 0:00	-2.30	-2.72	0.42					-2.30	-2.30	-2.30	-2.30
10/26/2012 0:06	-2.33	-2.73	0.40					-2.33	-2.33	-2.33	-2.33
10/26/2012 0:12	-2.35	-2.74	0.39					-2.35	-2.35	-2.35	-2.35
10/26/2012 0:18	-2.35	-2.74	0.39					-2.35	-2.35	-2.35	-2.35
10/26/2012 0:24	-2.35	-2.73	0.38					-2.35	-2.35	-2.35	-2.35
10/26/2012 0:30	-2.35	-2.71	0.36					-2.35	-2.35	-2.35	-2.35
10/26/2012 0:36	-2.35	-2.68	0.33					-2.35	-2.35	-2.35	-2.35
10/26/2012 0:42	-2.34	-2.64	0.30					-2.34	-2.34	-2.34	-2.34
10/26/2012 0:48	-2.33	-2.59	0.26					-2.33	-2.33	-2.33	-2.33
10/26/2012 0:54	-2.29	-2.53	0.24					-2.29	-2.29	-2.29	-2.29
10/26/2012 1:00	-2.25	-2.47	0.22					-2.25	-2.25	-2.25	-2.25
10/26/2012 1:06	-2.19	-2.39	0.21					-2.19	-2.19	-2.19	-2.19
10/26/2012 1:12	-2.11	-2.31	0.20					-2.11	-2.11	-2.11	-2.11
10/26/2012 1:18	-2.04	-2.23	0.19					-2.04	-2.04	-2.04	-2.04
10/26/2012 1:24	-1.94	-2.14	0.20					-1.94	-1.94	-1.94	-1.94
10/26/2012 1:30	-1.84	-2.04	0.20					-1.84	-1.84	-1.84	-1.84
10/26/2012 1:36	-1.73	-1.94	0.21					-1.73	-1.73	-1.73	-1.73
10/26/2012 1:42	-1.61	-1.84	0.23					-1.61	-1.61	-1.61	-1.61
10/26/2012 1:48	-1.47	-1.73	0.26					-1.47	-1.47	-1.47	-1.47
10/26/2012 1:54	-1.33	-1.62	0.29					-1.33	-1.33	-1.33	-1.33
10/26/2012 2:00	-1.17	-1.51	0.34					-1.17	-1.17	-1.17	-1.17
10/26/2012 2:06	-1.02	-1.39	0.37					-1.02	-1.02	-1.02	-1.02
10/26/2012 2:12	-0.87	-1.28	0.41					-0.87	-0.87	-0.87	-0.87
10/26/2012 2:18	-0.73	-1.16	0.43					-0.73	-0.73	-0.73	-0.73
10/26/2012 2:24	-0.58	-1.04	0.46					-0.58	-0.58	-0.58	-0.58
10/26/2012 2:30	-0.43	-0.93	0.50					-0.43	-0.43	-0.43	-0.43
10/26/2012 2:36	-0.29	-0.81	0.52					-0.29	-0.29	-0.29	-0.29
10/26/2012 2:42	-0.15	-0.69	0.54					-0.15	-0.15	-0.15	-0.15
10/26/2012 2:48	-0.02	-0.57	0.55					-0.02	-0.02	-0.02	-0.02
10/26/2012 2:54	0.11	-0.46	0.57					0.11	0.11	0.11	0.11
10/26/2012 3:00	0.24	-0.34	0.58					0.24	0.24	0.24	0.24
10/26/2012 3:06	0.38	-0.22	0.60					0.38	0.38	0.38	0.38
10/26/2012 3:12	0.51	-0.11	0.62					0.51	0.51	0.51	0.51
10/26/2012 3:18	0.65	0.01	0.64					0.65	0.65	0.65	0.65
10/26/2012 3:24	0.79	0.12	0.67					0.79	0.79	0.79	0.79
10/26/2012 3:30	0.90	0.23	0.67					0.90	0.90	0.90	0.90
10/26/2012 3:36	1.03	0.34	0.69					1.03	1.03	1.03	1.03
10/26/2012 3:42	1.15	0.45	0.70					1.15	1.15	1.15	1.15
10/26/2012 3:48	1.28	0.56	0.72					1.28	1.28	1.28	1.28
10/26/2012 3:54	1.41	0.66	0.75					1.41	1.41	1.41	1.41

Water Level Obtained from NOAA Gage at Battery during Hurricane Sandy				Scaling factor applied for each time step on Measure-Predicted				Final stillwater elevations scaled for various storm events (feet-NAVD)			
Date Time (LST/LDT)	Water Level (FT NAVD)	Pred Tide, FT NAVD	Meas-Pred	10yr surge	50yr surge	100yr surge	500yr surge	10yr WL	50yr WL	100yr WL	500yr WL
10/26/2012 4:00	1.52	0.77	0.75					1.52	1.52	1.52	1.52
10/26/2012 4:06	1.60	0.87	0.73					1.60	1.60	1.60	1.60
10/26/2012 4:12	1.70	0.97	0.73					1.70	1.70	1.70	1.70
10/26/2012 4:18	1.77	1.06	0.71					1.77	1.77	1.77	1.77
10/26/2012 4:24	1.85	1.16	0.69					1.85	1.85	1.85	1.85
10/26/2012 4:30	1.90	1.25	0.65					1.90	1.90	1.90	1.90
10/26/2012 4:36	1.98	1.34	0.64					1.98	1.98	1.98	1.98
10/26/2012 4:42	2.04	1.43	0.61					2.04	2.04	2.04	2.04
10/26/2012 4:48	2.09	1.51	0.58					2.09	2.09	2.09	2.09
10/26/2012 4:54	2.15	1.59	0.56					2.15	2.15	2.15	2.15
10/26/2012 5:00	2.19	1.67	0.52					2.19	2.19	2.19	2.19
10/26/2012 5:06	2.24	1.75	0.49					2.24	2.24	2.24	2.24
10/26/2012 5:12	2.29	1.82	0.47					2.29	2.29	2.29	2.29
10/26/2012 5:18	2.35	1.88	0.47					2.35	2.35	2.35	2.35
10/26/2012 5:24	2.40	1.94	0.46					2.40	2.40	2.40	2.40
10/26/2012 5:30	2.44	2	0.44					2.44	2.44	2.44	2.44
10/26/2012 5:36	2.49	2.06	0.43					2.49	2.49	2.49	2.49
10/26/2012 5:42	2.52	2.1	0.42					2.52	2.52	2.52	2.52
10/26/2012 5:48	2.57	2.15	0.42					2.57	2.57	2.57	2.57
10/26/2012 5:54	2.59	2.19	0.40					2.59	2.59	2.59	2.59
10/26/2012 6:00	2.63	2.22	0.41					2.63	2.63	2.63	2.63
10/26/2012 6:06	2.65	2.25	0.40					2.65	2.65	2.65	2.65
10/26/2012 6:12	2.66	2.27	0.39					2.66	2.66	2.66	2.66
10/26/2012 6:18	2.69	2.29	0.40					2.69	2.69	2.69	2.69
10/26/2012 6:24	2.71	2.29	0.42					2.71	2.71	2.71	2.71
10/26/2012 6:30	2.71	2.3	0.41					2.71	2.71	2.71	2.71
10/26/2012 6:36	2.71	2.3	0.41					2.71	2.71	2.71	2.71
10/26/2012 6:42	2.71	2.29	0.42					2.71	2.71	2.71	2.71
10/26/2012 6:48	2.67	2.27	0.40					2.67	2.67	2.67	2.67
10/26/2012 6:54	2.65	2.25	0.40					2.65	2.65	2.65	2.65
10/26/2012 7:00	2.64	2.22	0.42					2.64	2.64	2.64	2.64
10/26/2012 7:06	2.60	2.18	0.42					2.60	2.60	2.60	2.60
10/26/2012 7:12	2.56	2.14	0.42					2.56	2.56	2.56	2.56
10/26/2012 7:18	2.50	2.1	0.40					2.50	2.50	2.50	2.50
10/26/2012 7:24	2.45	2.04	0.41					2.45	2.45	2.45	2.45
10/26/2012 7:30	2.38	1.99	0.39					2.38	2.38	2.38	2.38
10/26/2012 7:36	2.31	1.92	0.39					2.31	2.31	2.31	2.31
10/26/2012 7:42	2.22	1.85	0.37					2.22	2.22	2.22	2.22
10/26/2012 7:48	2.14	1.78	0.36					2.14	2.14	2.14	2.14
10/26/2012 7:54	2.07	1.7	0.37					2.07	2.07	2.07	2.07

Water Level Obtained from NOAA Gage at Battery during Hurricane Sandy				Scaling factor applied for each time step on Measure-Predicted				Final stillwater elevations scaled for various storm events (feet-NAVD)			
Date Time (LST/LDT)	Water Level (FT NAVD)	Pred Tide, FT NAVD	Meas-Pred	10yr surge	50yr surge	100yr surge	500yr surge	10yr WL	50yr WL	100yr WL	500yr WL
10/26/2012 8:00	1.97	1.62	0.35					1.97	1.97	1.97	1.97
10/26/2012 8:06	1.92	1.54	0.38					1.92	1.92	1.92	1.92
10/26/2012 8:12	1.84	1.45	0.39					1.84	1.84	1.84	1.84
10/26/2012 8:18	1.76	1.36	0.40					1.76	1.76	1.76	1.76
10/26/2012 8:24	1.67	1.27	0.40					1.67	1.67	1.67	1.67
10/26/2012 8:30	1.58	1.18	0.40					1.58	1.58	1.58	1.58
10/26/2012 8:36	1.47	1.08	0.39					1.47	1.47	1.47	1.47
10/26/2012 8:42	1.38	0.99	0.39					1.38	1.38	1.38	1.38
10/26/2012 8:48	1.24	0.89	0.35					1.24	1.24	1.24	1.24
10/26/2012 8:54	1.14	0.8	0.34					1.14	1.14	1.14	1.14
10/26/2012 9:00	0.99	0.7	0.29					0.99	0.99	0.99	0.99
10/26/2012 9:06	0.86	0.6	0.26					0.86	0.86	0.86	0.86
10/26/2012 9:12	0.74	0.5	0.24					0.74	0.74	0.74	0.74
10/26/2012 9:18	0.61	0.41	0.20					0.61	0.61	0.61	0.61
10/26/2012 9:24	0.51	0.31	0.20					0.51	0.51	0.51	0.51
10/26/2012 9:30	0.39	0.21	0.18					0.39	0.39	0.39	0.39
10/26/2012 9:36	0.29	0.11	0.18					0.29	0.29	0.29	0.29
10/26/2012 9:42	0.17	0.01	0.16					0.17	0.17	0.17	0.17
10/26/2012 9:48	0.06	-0.09	0.15					0.06	0.06	0.06	0.06
10/26/2012 9:54	-0.04	-0.19	0.15					-0.04	-0.04	-0.04	-0.04
10/26/2012 10:00	-0.13	-0.29	0.16					-0.13	-0.13	-0.13	-0.13
10/26/2012 10:06	-0.23	-0.39	0.16					-0.23	-0.23	-0.23	-0.23
10/26/2012 10:12	-0.32	-0.5	0.19					-0.32	-0.32	-0.32	-0.32
10/26/2012 10:18	-0.40	-0.6	0.20					-0.40	-0.40	-0.40	-0.40
10/26/2012 10:24	-0.47	-0.71	0.24					-0.47	-0.47	-0.47	-0.47
10/26/2012 10:30	-0.57	-0.81	0.24					-0.57	-0.57	-0.57	-0.57
10/26/2012 10:36	-0.65	-0.92	0.27					-0.65	-0.65	-0.65	-0.65
10/26/2012 10:42	-0.74	-1.03	0.30					-0.74	-0.74	-0.74	-0.74
10/26/2012 10:48	-0.81	-1.14	0.33					-0.81	-0.81	-0.81	-0.81
10/26/2012 10:54	-0.89	-1.24	0.35					-0.89	-0.89	-0.89	-0.89
10/26/2012 11:00	-0.96	-1.35	0.39					-0.96	-0.96	-0.96	-0.96
10/26/2012 11:06	-1.04	-1.46	0.42					-1.04	-1.04	-1.04	-1.04
10/26/2012 11:12	-1.09	-1.56	0.47					-1.09	-1.09	-1.09	-1.09
10/26/2012 11:18	-1.16	-1.67	0.52					-1.16	-1.16	-1.16	-1.16
10/26/2012 11:24	-1.22	-1.77	0.55					-1.22	-1.22	-1.22	-1.22
10/26/2012 11:30	-1.29	-1.86	0.57					-1.29	-1.29	-1.29	-1.29
10/26/2012 11:36	-1.34	-1.95	0.61					-1.34	-1.34	-1.34	-1.34
10/26/2012 11:42	-1.41	-2.04	0.63					-1.41	-1.41	-1.41	-1.41
10/26/2012 11:48	-1.45	-2.12	0.67					-1.45	-1.45	-1.45	-1.45
10/26/2012 11:54	-1.49	-2.2	0.71					-1.49	-1.49	-1.49	-1.49

Water Level Obtained from NOAA Gage at Battery during Hurricane Sandy				Scaling factor applied for each time step on Measure-Predicted				Final stillwater elevations scaled for various storm events (feet-NAVD)			
Date Time (LST/LDT)	Water Level (FT NAVD)	Pred Tide, FT NAVD	Meas-Pred	10yr surge	50yr surge	100yr surge	500yr surge	10yr WL	50yr WL	100yr WL	500yr WL
10/26/2012 12:00	-1.56	-2.26	0.70					-1.56	-1.56	-1.56	-1.56
10/26/2012 12:06	-1.62	-2.32	0.70					-1.62	-1.62	-1.62	-1.62
10/26/2012 12:12	-1.66	-2.38	0.72					-1.66	-1.66	-1.66	-1.66
10/26/2012 12:18	-1.72	-2.42	0.70					-1.72	-1.72	-1.72	-1.72
10/26/2012 12:24	-1.76	-2.46	0.71					-1.76	-1.76	-1.76	-1.76
10/26/2012 12:30	-1.81	-2.48	0.67					-1.81	-1.81	-1.81	-1.81
10/26/2012 12:36	-1.84	-2.5	0.66					-1.84	-1.84	-1.84	-1.84
10/26/2012 12:42	-1.86	-2.51	0.65					-1.86	-1.86	-1.86	-1.86
10/26/2012 12:48	-1.87	-2.5	0.63					-1.87	-1.87	-1.87	-1.87
10/26/2012 12:54	-1.88	-2.49	0.61					-1.88	-1.88	-1.88	-1.88
10/26/2012 13:00	-1.90	-2.47	0.57					-1.90	-1.90	-1.90	-1.90
10/26/2012 13:06	-1.91	-2.44	0.53					-1.91	-1.91	-1.91	-1.91
10/26/2012 13:12	-1.91	-2.4	0.49					-1.91	-1.91	-1.91	-1.91
10/26/2012 13:18	-1.87	-2.35	0.48					-1.87	-1.87	-1.87	-1.87
10/26/2012 13:24	-1.87	-2.3	0.43					-1.87	-1.87	-1.87	-1.87
10/26/2012 13:30	-1.85	-2.24	0.39					-1.85	-1.85	-1.85	-1.85
10/26/2012 13:36	-1.81	-2.17	0.36					-1.81	-1.81	-1.81	-1.81
10/26/2012 13:42	-1.76	-2.09	0.33					-1.76	-1.76	-1.76	-1.76
10/26/2012 13:48	-1.68	-2.01	0.33					-1.68	-1.68	-1.68	-1.68
10/26/2012 13:54	-1.63	-1.93	0.30					-1.63	-1.63	-1.63	-1.63
10/26/2012 14:00	-1.56	-1.83	0.27					-1.56	-1.56	-1.56	-1.56
10/26/2012 14:06	-1.49	-1.74	0.25					-1.49	-1.49	-1.49	-1.49
10/26/2012 14:12	-1.40	-1.64	0.24					-1.40	-1.40	-1.40	-1.40
10/26/2012 14:18	-1.31	-1.54	0.23					-1.31	-1.31	-1.31	-1.31
10/26/2012 14:24	-1.20	-1.44	0.24					-1.20	-1.20	-1.20	-1.20
10/26/2012 14:30	-1.11	-1.33	0.22					-1.11	-1.11	-1.11	-1.11
10/26/2012 14:36	-1.00	-1.23	0.23					-1.00	-1.00	-1.00	-1.00
10/26/2012 14:42	-0.90	-1.12	0.22					-0.90	-0.90	-0.90	-0.90
10/26/2012 14:48	-0.78	-1.01	0.23					-0.78	-0.78	-0.78	-0.78
10/26/2012 14:54	-0.67	-0.9	0.23					-0.67	-0.67	-0.67	-0.67
10/26/2012 15:00	-0.56	-0.79	0.23					-0.56	-0.56	-0.56	-0.56
10/26/2012 15:06	-0.48	-0.68	0.20					-0.48	-0.48	-0.48	-0.48
10/26/2012 15:12	-0.36	-0.57	0.21					-0.36	-0.36	-0.36	-0.36
10/26/2012 15:18	-0.25	-0.46	0.21					-0.25	-0.25	-0.25	-0.25
10/26/2012 15:24	-0.14	-0.35	0.21					-0.14	-0.14	-0.14	-0.14
10/26/2012 15:30	-0.03	-0.24	0.21					-0.03	-0.03	-0.03	-0.03
10/26/2012 15:36	0.11	-0.13	0.24					0.11	0.11	0.11	0.11
10/26/2012 15:42	0.23	-0.03	0.26					0.23	0.23	0.23	0.23
10/26/2012 15:48	0.35	0.08	0.27					0.35	0.35	0.35	0.35
10/26/2012 15:54	0.47	0.19	0.28					0.47	0.47	0.47	0.47

Water Level Obtained from NOAA Gage at Battery during Hurricane Sandy				Scaling factor applied for each time step on Measure-Predicted				Final stillwater elevations scaled for various storm events (feet-NAVD)			
Date Time (LST/LDT)	Water Level (FT NAVD)	Pred Tide, FT NAVD	Meas-Pred	10yr surge	50yr surge	100yr surge	500yr surge	10yr WL	50yr WL	100yr WL	500yr WL
10/26/2012 16:00	0.60	0.29	0.31					0.60	0.60	0.60	0.60
10/26/2012 16:06	0.71	0.39	0.32					0.71	0.71	0.71	0.71
10/26/2012 16:12	0.85	0.49	0.36					0.85	0.85	0.85	0.85
10/26/2012 16:18	0.96	0.59	0.37					0.96	0.96	0.96	0.96
10/26/2012 16:24	1.09	0.69	0.40					1.09	1.09	1.09	1.09
10/26/2012 16:30	1.20	0.79	0.41					1.20	1.20	1.20	1.20
10/26/2012 16:36	1.32	0.88	0.44					1.32	1.32	1.32	1.32
10/26/2012 16:42	1.43	0.97	0.46					1.43	1.43	1.43	1.43
10/26/2012 16:48	1.51	1.06	0.45					1.51	1.51	1.51	1.51
10/26/2012 16:54	1.59	1.15	0.44					1.59	1.59	1.59	1.59
10/26/2012 17:00	1.69	1.23	0.46					1.69	1.69	1.69	1.69
10/26/2012 17:06	1.78	1.32	0.46					1.78	1.78	1.78	1.78
10/26/2012 17:12	1.83	1.4	0.43					1.83	1.83	1.83	1.83
10/26/2012 17:18	1.91	1.47	0.44					1.91	1.91	1.91	1.91
10/26/2012 17:24	1.97	1.54	0.43					1.97	1.97	1.97	1.97
10/26/2012 17:30	2.03	1.61	0.42					2.03	2.03	2.03	2.03
10/26/2012 17:36	2.12	1.68	0.44					2.12	2.12	2.12	2.12
10/26/2012 17:42	2.18	1.74	0.44					2.18	2.18	2.18	2.18
10/26/2012 17:48	2.27	1.8	0.47					2.27	2.27	2.27	2.27
10/26/2012 17:54	2.32	1.85	0.47					2.32	2.32	2.32	2.32
10/26/2012 18:00	2.42	1.9	0.52					2.42	2.42	2.42	2.42
10/26/2012 18:06	2.47	1.94	0.53					2.47	2.47	2.47	2.47
10/26/2012 18:12	2.53	1.98	0.55					2.53	2.53	2.53	2.53
10/26/2012 18:18	2.58	2.01	0.57					2.58	2.58	2.58	2.58
10/26/2012 18:24	2.60	2.03	0.57					2.60	2.60	2.60	2.60
10/26/2012 18:30	2.66	2.06	0.60					2.66	2.66	2.66	2.66
10/26/2012 18:36	2.67	2.07	0.60					2.67	2.67	2.67	2.67
10/26/2012 18:42	2.68	2.08	0.60					2.68	2.68	2.68	2.68
10/26/2012 18:48	2.69	2.08	0.61					2.69	2.69	2.69	2.69
10/26/2012 18:54	2.69	2.08	0.61					2.69	2.69	2.69	2.69
10/26/2012 19:00	2.67	2.07	0.60					2.67	2.67	2.67	2.67
10/26/2012 19:06	2.66	2.05	0.61					2.66	2.66	2.66	2.66
10/26/2012 19:12	2.67	2.02	0.65					2.67	2.67	2.67	2.67
10/26/2012 19:18	2.62	1.99	0.63					2.62	2.62	2.62	2.62
10/26/2012 19:24	2.59	1.96	0.63					2.59	2.59	2.59	2.59
10/26/2012 19:30	2.55	1.91	0.64					2.55	2.55	2.55	2.55
10/26/2012 19:36	2.52	1.86	0.66					2.52	2.52	2.52	2.52
10/26/2012 19:42	2.46	1.8	0.66					2.46	2.46	2.46	2.46
10/26/2012 19:48	2.40	1.74	0.66					2.40	2.40	2.40	2.40
10/26/2012 19:54	2.33	1.67	0.66					2.33	2.33	2.33	2.33

Water Level Obtained from NOAA Gage at Battery during Hurricane Sandy				Scaling factor applied for each time step on Measure-Predicted				Final stillwater elevations scaled for various storm events (feet-NAVD)			
Date Time (LST/LDT)	Water Level (FT NAVD)	Pred Tide, FT NAVD	Meas-Pred	10yr surge	50yr surge	100yr surge	500yr surge	10yr WL	50yr WL	100yr WL	500yr WL
10/26/2012 20:00	2.29	1.6	0.69					2.29	2.29	2.29	2.29
10/26/2012 20:06	2.18	1.52	0.66					2.18	2.18	2.18	2.18
10/26/2012 20:12	2.08	1.44	0.64					2.08	2.08	2.08	2.08
10/26/2012 20:18	1.97	1.35	0.62					1.97	1.97	1.97	1.97
10/26/2012 20:24	1.86	1.26	0.60					1.86	1.86	1.86	1.86
10/26/2012 20:30	1.75	1.16	0.59					1.75	1.75	1.75	1.75
10/26/2012 20:36	1.63	1.06	0.57					1.63	1.63	1.63	1.63
10/26/2012 20:42	1.53	0.96	0.57					1.53	1.53	1.53	1.53
10/26/2012 20:48	1.42	0.86	0.56					1.42	1.42	1.42	1.42
10/26/2012 20:54	1.33	0.76	0.57					1.33	1.33	1.33	1.33
10/26/2012 21:00	1.20	0.65	0.55					1.20	1.20	1.20	1.20
10/26/2012 21:06	1.10	0.55	0.55					1.10	1.10	1.10	1.10
10/26/2012 21:12	1.00	0.44	0.56					1.00	1.00	1.00	1.00
10/26/2012 21:18	0.88	0.34	0.54					0.88	0.88	0.88	0.88
10/26/2012 21:24	0.79	0.23	0.56					0.79	0.79	0.79	0.79
10/26/2012 21:30	0.64	0.13	0.51					0.64	0.64	0.64	0.64
10/26/2012 21:36	0.51	0.02	0.49					0.51	0.51	0.51	0.51
10/26/2012 21:42	0.36	-0.08	0.44					0.36	0.36	0.36	0.36
10/26/2012 21:48	0.23	-0.18	0.41					0.23	0.23	0.23	0.23
10/26/2012 21:54	0.10	-0.29	0.39					0.10	0.10	0.10	0.10
10/26/2012 22:00	-0.04	-0.39	0.35					-0.04	-0.04	-0.04	-0.04
10/26/2012 22:06	-0.15	-0.49	0.34					-0.15	-0.15	-0.15	-0.15
10/26/2012 22:12	-0.27	-0.6	0.33					-0.27	-0.27	-0.27	-0.27
10/26/2012 22:18	-0.37	-0.7	0.33					-0.37	-0.37	-0.37	-0.37
10/26/2012 22:24	-0.49	-0.8	0.31					-0.49	-0.49	-0.49	-0.49
10/26/2012 22:30	-0.60	-0.9	0.30					-0.60	-0.60	-0.60	-0.60
10/26/2012 22:36	-0.72	-1.01	0.30					-0.72	-0.72	-0.72	-0.72
10/26/2012 22:42	-0.80	-1.11	0.31					-0.80	-0.80	-0.80	-0.80
10/26/2012 22:48	-0.88	-1.21	0.33					-0.88	-0.88	-0.88	-0.88
10/26/2012 22:54	-0.97	-1.32	0.35					-0.97	-0.97	-0.97	-0.97
10/26/2012 23:00	-1.07	-1.42	0.35					-1.07	-1.07	-1.07	-1.07
10/26/2012 23:06	-1.17	-1.52	0.36					-1.17	-1.17	-1.17	-1.17
10/26/2012 23:12	-1.24	-1.63	0.39					-1.24	-1.24	-1.24	-1.24
10/26/2012 23:18	-1.31	-1.73	0.42					-1.31	-1.31	-1.31	-1.31
10/26/2012 23:24	-1.35	-1.83	0.48					-1.35	-1.35	-1.35	-1.35
10/26/2012 23:30	-1.44	-1.93	0.49					-1.44	-1.44	-1.44	-1.44
10/26/2012 23:36	-1.54	-2.02	0.49					-1.54	-1.54	-1.54	-1.54
10/26/2012 23:42	-1.61	-2.11	0.50					-1.61	-1.61	-1.61	-1.61
10/26/2012 23:48	-1.69	-2.2	0.51					-1.69	-1.69	-1.69	-1.69
10/26/2012 23:54	-1.75	-2.29	0.54					-1.75	-1.75	-1.75	-1.75

Water Level Obtained from NOAA Gage at Battery during Hurricane Sandy				Scaling factor applied for each time step on Measure-Predicted				Final stillwater elevations scaled for various storm events (feet-NAVD)			
Date Time (LST/LDT)	Water Level (FT NAVD)	Pred Tide, FT NAVD	Meas-Pred	10yr surge	50yr surge	100yr surge	500yr surge	10yr WL	50yr WL	100yr WL	500yr WL
10/27/2012 0:00	-1.80	-2.37	0.57	0.35	0.50	0.57	0.75	-2.02	-1.87	-1.80	-1.62
10/27/2012 0:06	-1.84	-2.44	0.60	0.36	0.52	0.60	0.78	-2.08	-1.92	-1.84	-1.66
10/27/2012 0:12	-1.92	-2.51	0.59	0.36	0.52	0.59	0.78	-2.15	-1.99	-1.92	-1.73
10/27/2012 0:18	-1.99	-2.58	0.60	0.36	0.52	0.60	0.78	-2.22	-2.06	-1.98	-1.80
10/27/2012 0:24	-2.05	-2.63	0.58	0.35	0.51	0.58	0.76	-2.28	-2.12	-2.05	-1.87
10/27/2012 0:30	-2.10	-2.68	0.58	0.36	0.51	0.59	0.77	-2.32	-2.17	-2.09	-1.91
10/27/2012 0:36	-2.12	-2.72	0.60	0.37	0.53	0.61	0.79	-2.35	-2.19	-2.11	-1.93
10/27/2012 0:42	-2.13	-2.74	0.61	0.38	0.54	0.62	0.81	-2.36	-2.20	-2.12	-1.93
10/27/2012 0:48	-2.13	-2.77	0.64	0.39	0.56	0.64	0.84	-2.38	-2.21	-2.13	-1.93
10/27/2012 0:54	-2.14	-2.78	0.64	0.39	0.56	0.64	0.84	-2.39	-2.22	-2.14	-1.94
10/27/2012 1:00	-2.15	-2.78	0.63	0.38	0.55	0.63	0.82	-2.40	-2.23	-2.15	-1.96
10/27/2012 1:06	-2.15	-2.77	0.62	0.38	0.55	0.62	0.81	-2.39	-2.22	-2.15	-1.96
10/27/2012 1:12	-2.16	-2.75	0.59	0.36	0.52	0.60	0.78	-2.39	-2.23	-2.15	-1.97
10/27/2012 1:18	-2.13	-2.72	0.59	0.36	0.52	0.59	0.78	-2.36	-2.20	-2.13	-1.94
10/27/2012 1:24	-2.09	-2.69	0.60	0.37	0.52	0.60	0.78	-2.32	-2.17	-2.09	-1.91
10/27/2012 1:30	-2.06	-2.64	0.58	0.35	0.51	0.58	0.76	-2.29	-2.13	-2.06	-1.88
10/27/2012 1:36	-2.02	-2.59	0.57	0.35	0.50	0.57	0.75	-2.24	-2.09	-2.02	-1.84
10/27/2012 1:42	-1.95	-2.52	0.57	0.35	0.50	0.57	0.75	-2.17	-2.02	-1.95	-1.77
10/27/2012 1:48	-1.88	-2.45	0.57	0.35	0.50	0.57	0.74	-2.10	-1.95	-1.88	-1.71
10/27/2012 1:54	-1.80	-2.37	0.57	0.35	0.50	0.57	0.74	-2.02	-1.87	-1.80	-1.63
10/27/2012 2:00	-1.72	-2.29	0.57	0.35	0.50	0.57	0.75	-1.94	-1.79	-1.72	-1.54
10/27/2012 2:06	-1.62	-2.2	0.58	0.35	0.51	0.58	0.76	-1.85	-1.69	-1.62	-1.44
10/27/2012 2:12	-1.52	-2.1	0.58	0.36	0.51	0.59	0.77	-1.74	-1.59	-1.51	-1.33
10/27/2012 2:18	-1.40	-2	0.60	0.37	0.53	0.60	0.79	-1.63	-1.47	-1.40	-1.21
10/27/2012 2:24	-1.28	-1.89	0.61	0.38	0.54	0.62	0.81	-1.51	-1.35	-1.27	-1.08
10/27/2012 2:30	-1.15	-1.78	0.64	0.39	0.56	0.64	0.83	-1.39	-1.22	-1.14	-0.95
10/27/2012 2:36	-1.01	-1.67	0.66	0.41	0.58	0.66	0.87	-1.26	-1.09	-1.01	-0.80
10/27/2012 2:42	-0.86	-1.55	0.69	0.42	0.60	0.69	0.90	-1.13	-0.95	-0.86	-0.65
10/27/2012 2:48	-0.73	-1.43	0.71	0.43	0.62	0.71	0.93	-1.00	-0.81	-0.72	-0.51
10/27/2012 2:54	-0.57	-1.31	0.74	0.45	0.65	0.74	0.97	-0.86	-0.66	-0.57	-0.34
10/27/2012 3:00	-0.43	-1.19	0.76	0.46	0.67	0.76	1.00	-0.73	-0.52	-0.43	-0.19
10/27/2012 3:06	-0.28	-1.07	0.79	0.49	0.70	0.80	1.04	-0.58	-0.37	-0.27	-0.03
10/27/2012 3:12	-0.12	-0.94	0.83	0.50	0.72	0.83	1.08	-0.44	-0.22	-0.11	0.14
10/27/2012 3:18	0.04	-0.82	0.86	0.53	0.75	0.86	1.13	-0.29	-0.07	0.04	0.31
10/27/2012 3:24	0.18	-0.7	0.88	0.54	0.77	0.88	1.15	-0.16	0.07	0.18	0.45
10/27/2012 3:30	0.32	-0.57	0.89	0.54	0.78	0.89	1.17	-0.03	0.21	0.32	0.60
10/27/2012 3:36	0.46	-0.45	0.91	0.56	0.80	0.91	1.20	0.11	0.35	0.46	0.75
10/27/2012 3:42	0.60	-0.33	0.93	0.57	0.81	0.93	1.22	0.24	0.48	0.60	0.89
10/27/2012 3:48	0.74	-0.21	0.95	0.58	0.83	0.95	1.24	0.37	0.62	0.74	1.03
10/27/2012 3:54	0.86	-0.09	0.95	0.58	0.84	0.95	1.25	0.49	0.75	0.86	1.16

Water Level Obtained from NOAA Gage at Battery during Hurricane Sandy				Scaling factor applied for each time step on Measure-Predicted				Final stillwater elevations scaled for various storm events (feet-NAVD)			
Date Time (LST/LDT)	Water Level (FT NAVD)	Pred Tide, FT NAVD	Meas-Pred	10yr surge	50yr surge	100yr surge	500yr surge	10yr WL	50yr WL	100yr WL	500yr WL
10/27/2012 4:00	1.00	0.03	0.97	0.59	0.85	0.97	1.27	0.62	0.88	1.00	1.30
10/27/2012 4:06	1.13	0.15	0.98	0.60	0.86	0.98	1.28	0.75	1.01	1.13	1.43
10/27/2012 4:12	1.25	0.26	0.99	0.61	0.87	0.99	1.30	0.87	1.13	1.25	1.56
10/27/2012 4:18	1.39	0.38	1.01	0.62	0.89	1.01	1.33	1.00	1.27	1.39	1.71
10/27/2012 4:24	1.50	0.49	1.01	0.62	0.89	1.01	1.33	1.11	1.38	1.50	1.82
10/27/2012 4:30	1.60	0.61	0.99	0.61	0.87	1.00	1.30	1.22	1.48	1.61	1.91
10/27/2012 4:36	1.71	0.72	0.99	0.60	0.87	0.99	1.29	1.32	1.59	1.71	2.01
10/27/2012 4:42	1.80	0.83	0.97	0.59	0.85	0.97	1.27	1.42	1.68	1.80	2.10
10/27/2012 4:48	1.90	0.93	0.97	0.59	0.85	0.97	1.27	1.52	1.78	1.90	2.20
10/27/2012 4:54	1.98	1.04	0.94	0.57	0.82	0.94	1.23	1.61	1.86	1.98	2.27
10/27/2012 5:00	2.06	1.14	0.92	0.56	0.80	0.92	1.20	1.70	1.94	2.06	2.34
10/27/2012 5:06	2.14	1.24	0.90	0.55	0.79	0.90	1.18	1.79	2.03	2.14	2.42
10/27/2012 5:12	2.22	1.34	0.88	0.54	0.77	0.88	1.15	1.88	2.11	2.22	2.49
10/27/2012 5:18	2.27	1.43	0.84	0.51	0.74	0.84	1.10	1.94	2.17	2.27	2.53
10/27/2012 5:24	2.34	1.52	0.82	0.50	0.72	0.82	1.07	2.02	2.24	2.34	2.59
10/27/2012 5:30	2.40	1.61	0.79	0.48	0.70	0.79	1.04	2.09	2.31	2.40	2.65
10/27/2012 5:36	2.47	1.7	0.77	0.47	0.68	0.78	1.02	2.17	2.38	2.48	2.72
10/27/2012 5:42	2.52	1.78	0.74	0.45	0.65	0.74	0.97	2.23	2.43	2.52	2.75
10/27/2012 5:48	2.58	1.86	0.72	0.44	0.63	0.72	0.95	2.30	2.49	2.58	2.81
10/27/2012 5:54	2.65	1.94	0.71	0.43	0.62	0.71	0.93	2.37	2.56	2.65	2.87
10/27/2012 6:00	2.70	2.01	0.69	0.42	0.61	0.69	0.91	2.43	2.62	2.70	2.92
10/27/2012 6:06	2.76	2.07	0.69	0.42	0.60	0.69	0.90	2.49	2.67	2.76	2.97
10/27/2012 6:12	2.80	2.14	0.66	0.40	0.58	0.66	0.86	2.54	2.72	2.80	3.00
10/27/2012 6:18	2.87	2.19	0.68	0.42	0.60	0.68	0.89	2.61	2.79	2.87	3.08
10/27/2012 6:24	2.90	2.25	0.65	0.40	0.57	0.66	0.86	2.65	2.82	2.91	3.11
10/27/2012 6:30	2.93	2.3	0.63	0.39	0.56	0.63	0.83	2.69	2.86	2.93	3.13
10/27/2012 6:36	2.94	2.34	0.60	0.37	0.53	0.60	0.79	2.71	2.87	2.94	3.13
10/27/2012 6:42	2.95	2.38	0.57	0.35	0.50	0.57	0.75	2.73	2.88	2.95	3.13
10/27/2012 6:48	2.99	2.41	0.58	0.35	0.51	0.58	0.76	2.76	2.92	2.99	3.17
10/27/2012 6:54	3.03	2.43	0.60	0.37	0.52	0.60	0.78	2.80	2.95	3.03	3.21
10/27/2012 7:00	3.04	2.45	0.59	0.36	0.52	0.59	0.78	2.81	2.97	3.04	3.23
10/27/2012 7:06	3.06	2.47	0.59	0.36	0.52	0.59	0.77	2.83	2.99	3.06	3.24
10/27/2012 7:12	3.07	2.47	0.60	0.37	0.52	0.60	0.78	2.84	2.99	3.07	3.25
10/27/2012 7:18	3.09	2.47	0.62	0.38	0.54	0.62	0.81	2.85	3.01	3.09	3.28
10/27/2012 7:24	3.11	2.47	0.64	0.39	0.56	0.64	0.84	2.86	3.03	3.11	3.31
10/27/2012 7:30	3.09	2.45	0.64	0.39	0.57	0.65	0.84	2.84	3.02	3.10	3.29
10/27/2012 7:36	3.09	2.43	0.66	0.40	0.58	0.66	0.86	2.83	3.01	3.09	3.29
10/27/2012 7:42	3.07	2.41	0.66	0.41	0.58	0.67	0.87	2.82	2.99	3.08	3.28
10/27/2012 7:48	3.04	2.37	0.67	0.41	0.58	0.67	0.87	2.78	2.95	3.04	3.24
10/27/2012 7:54	2.99	2.33	0.66	0.40	0.58	0.66	0.86	2.73	2.91	2.99	3.19

Water Level Obtained from NOAA Gage at Battery during Hurricane Sandy				Scaling factor applied for each time step on Measure-Predicted				Final stillwater elevations scaled for various storm events (feet-NAVD)			
Date Time (LST/LDT)	Water Level (FT NAVD)	Pred Tide, FT NAVD	Meas-Pred	10yr surge	50yr surge	100yr surge	500yr surge	10yr WL	50yr WL	100yr WL	500yr WL
10/27/2012 8:00	2.94	2.28	0.66	0.40	0.58	0.66	0.86	2.68	2.86	2.94	3.14
10/27/2012 8:06	2.89	2.23	0.66	0.41	0.58	0.67	0.87	2.64	2.81	2.90	3.10
10/27/2012 8:12	2.83	2.17	0.66	0.40	0.57	0.66	0.86	2.57	2.74	2.83	3.03
10/27/2012 8:18	2.75	2.1	0.65	0.40	0.57	0.65	0.86	2.50	2.67	2.75	2.96
10/27/2012 8:24	2.70	2.03	0.67	0.41	0.59	0.67	0.88	2.44	2.62	2.70	2.91
10/27/2012 8:30	2.63	1.95	0.68	0.41	0.59	0.68	0.89	2.36	2.54	2.63	2.84
10/27/2012 8:36	2.54	1.87	0.67	0.41	0.59	0.67	0.88	2.28	2.46	2.54	2.75
10/27/2012 8:42	2.45	1.79	0.66	0.40	0.58	0.66	0.87	2.19	2.37	2.45	2.66
10/27/2012 8:48	2.36	1.7	0.66	0.40	0.58	0.66	0.87	2.10	2.28	2.36	2.57
10/27/2012 8:54	2.27	1.6	0.67	0.41	0.59	0.68	0.88	2.01	2.19	2.28	2.48
10/27/2012 9:00	2.18	1.51	0.67	0.41	0.59	0.67	0.88	1.92	2.10	2.18	2.39
10/27/2012 9:06	2.08	1.41	0.67	0.41	0.59	0.67	0.88	1.82	2.00	2.08	2.29
10/27/2012 9:12	2.00	1.3	0.70	0.43	0.61	0.70	0.92	1.73	1.91	2.00	2.22
10/27/2012 9:18	1.91	1.2	0.71	0.44	0.63	0.71	0.94	1.64	1.83	1.91	2.14
10/27/2012 9:24	1.85	1.1	0.75	0.46	0.66	0.75	0.98	1.56	1.76	1.85	2.08
10/27/2012 9:30	1.70	0.99	0.71	0.44	0.63	0.71	0.94	1.43	1.62	1.70	1.93
10/27/2012 9:36	1.61	0.88	0.73	0.45	0.64	0.73	0.96	1.33	1.52	1.61	1.84
10/27/2012 9:42	1.51	0.78	0.73	0.45	0.64	0.73	0.96	1.23	1.42	1.51	1.74
10/27/2012 9:48	1.40	0.67	0.73	0.45	0.64	0.73	0.96	1.12	1.31	1.40	1.63
10/27/2012 9:54	1.29	0.56	0.73	0.44	0.64	0.73	0.95	1.00	1.20	1.29	1.51
10/27/2012 10:00	1.14	0.46	0.68	0.41	0.60	0.68	0.89	0.87	1.06	1.14	1.35
10/27/2012 10:06	1.01	0.35	0.66	0.41	0.58	0.67	0.87	0.76	0.93	1.02	1.22
10/27/2012 10:12	0.88	0.24	0.64	0.39	0.56	0.64	0.83	0.63	0.80	0.88	1.07
10/27/2012 10:18	0.75	0.14	0.61	0.37	0.54	0.61	0.80	0.51	0.68	0.75	0.94
10/27/2012 10:24	0.62	0.03	0.59	0.36	0.52	0.59	0.77	0.39	0.55	0.62	0.80
10/27/2012 10:30	0.49	-0.08	0.57	0.35	0.50	0.57	0.75	0.27	0.42	0.49	0.67
10/27/2012 10:36	0.41	-0.18	0.59	0.36	0.52	0.59	0.77	0.18	0.34	0.41	0.59
10/27/2012 10:42	0.25	-0.29	0.54	0.33	0.48	0.54	0.71	0.04	0.19	0.25	0.42
10/27/2012 10:48	0.17	-0.39	0.56	0.35	0.50	0.57	0.74	-0.04	0.11	0.18	0.35
10/27/2012 10:54	0.09	-0.5	0.59	0.36	0.52	0.59	0.78	-0.14	0.02	0.09	0.28
10/27/2012 11:00	0.03	-0.61	0.64	0.39	0.56	0.64	0.84	-0.22	-0.05	0.03	0.23
10/27/2012 11:06	-0.04	-0.72	0.68	0.42	0.60	0.69	0.90	-0.30	-0.12	-0.03	0.18
10/27/2012 11:12	-0.12	-0.83	0.72	0.44	0.63	0.72	0.94	-0.39	-0.20	-0.11	0.11
10/27/2012 11:18	-0.21	-0.93	0.72	0.44	0.63	0.72	0.95	-0.49	-0.30	-0.21	0.02
10/27/2012 11:24	-0.30	-1.04	0.74	0.45	0.65	0.74	0.97	-0.59	-0.39	-0.30	-0.07
10/27/2012 11:30	-0.38	-1.15	0.77	0.47	0.67	0.77	1.01	-0.68	-0.48	-0.38	-0.14
10/27/2012 11:36	-0.45	-1.26	0.81	0.50	0.71	0.82	1.07	-0.76	-0.55	-0.44	-0.19
10/27/2012 11:42	-0.51	-1.37	0.87	0.53	0.76	0.87	1.13	-0.84	-0.61	-0.50	-0.24
10/27/2012 11:48	-0.58	-1.48	0.90	0.55	0.79	0.90	1.18	-0.93	-0.69	-0.58	-0.30
10/27/2012 11:54	-0.67	-1.58	0.91	0.55	0.80	0.91	1.19	-1.03	-0.78	-0.67	-0.39

Water Level Obtained from NOAA Gage at Battery during Hurricane Sandy				Scaling factor applied for each time step on Measure-Predicted				Final stillwater elevations scaled for various storm events (feet-NAVD)			
Date Time (LST/LDT)	Water Level (FT NAVD)	Pred Tide, FT NAVD	Meas-Pred	10yr surge	50yr surge	100yr surge	500yr surge	10yr WL	50yr WL	100yr WL	500yr WL
10/27/2012 12:00	-0.77	-1.69	0.92	0.56	0.81	0.92	1.21	-1.13	-0.88	-0.77	-0.48
10/27/2012 12:06	-0.85	-1.79	0.94	0.57	0.82	0.94	1.23	-1.22	-0.97	-0.85	-0.56
10/27/2012 12:12	-0.89	-1.89	1.00	0.61	0.88	1.00	1.31	-1.28	-1.01	-0.89	-0.58
10/27/2012 12:18	-0.96	-1.98	1.03	0.63	0.90	1.03	1.34	-1.35	-1.08	-0.95	-0.64
10/27/2012 12:24	-1.04	-2.07	1.03	0.63	0.90	1.03	1.35	-1.44	-1.17	-1.04	-0.72
10/27/2012 12:30	-1.13	-2.16	1.03	0.63	0.90	1.03	1.35	-1.53	-1.26	-1.13	-0.81
10/27/2012 12:36	-1.22	-2.24	1.02	0.62	0.89	1.02	1.33	-1.62	-1.35	-1.22	-0.91
10/27/2012 12:42	-1.29	-2.31	1.02	0.62	0.90	1.02	1.34	-1.69	-1.41	-1.29	-0.97
10/27/2012 12:48	-1.35	-2.38	1.03	0.63	0.90	1.03	1.35	-1.75	-1.48	-1.35	-1.03
10/27/2012 12:54	-1.39	-2.44	1.05	0.64	0.92	1.05	1.38	-1.80	-1.52	-1.39	-1.06
10/27/2012 13:00	-1.47	-2.49	1.02	0.62	0.90	1.02	1.34	-1.87	-1.59	-1.47	-1.15
10/27/2012 13:06	-1.52	-2.53	1.01	0.62	0.89	1.01	1.33	-1.91	-1.64	-1.52	-1.20
10/27/2012 13:12	-1.57	-2.57	1.00	0.61	0.88	1.00	1.31	-1.96	-1.69	-1.57	-1.26
10/27/2012 13:18	-1.62	-2.59	0.97	0.60	0.85	0.97	1.28	-1.99	-1.74	-1.62	-1.31
10/27/2012 13:24	-1.65	-2.61	0.96	0.59	0.84	0.96	1.26	-2.02	-1.77	-1.65	-1.35
10/27/2012 13:30	-1.69	-2.61	0.92	0.56	0.80	0.92	1.20	-2.05	-1.81	-1.69	-1.41
10/27/2012 13:36	-1.70	-2.61	0.91	0.55	0.80	0.91	1.19	-2.06	-1.81	-1.70	-1.42
10/27/2012 13:42	-1.74	-2.6	0.86	0.52	0.75	0.86	1.13	-2.08	-1.85	-1.74	-1.47
10/27/2012 13:48	-1.77	-2.57	0.80	0.49	0.70	0.80	1.05	-2.08	-1.87	-1.77	-1.52
10/27/2012 13:54	-1.78	-2.54	0.76	0.47	0.67	0.76	1.00	-2.07	-1.87	-1.78	-1.54
10/27/2012 14:00	-1.77	-2.5	0.73	0.45	0.64	0.73	0.96	-2.05	-1.86	-1.77	-1.54
10/27/2012 14:06	-1.75	-2.45	0.71	0.43	0.62	0.71	0.93	-2.02	-1.83	-1.74	-1.53
10/27/2012 14:12	-1.71	-2.4	0.69	0.42	0.60	0.69	0.90	-1.98	-1.80	-1.71	-1.50
10/27/2012 14:18	-1.66	-2.33	0.67	0.41	0.59	0.67	0.88	-1.92	-1.74	-1.66	-1.45
10/27/2012 14:24	-1.61	-2.26	0.65	0.40	0.57	0.65	0.86	-1.86	-1.69	-1.61	-1.40
10/27/2012 14:30	-1.55	-2.18	0.63	0.38	0.55	0.63	0.82	-1.80	-1.63	-1.55	-1.36
10/27/2012 14:36	-1.47	-2.1	0.63	0.39	0.55	0.63	0.83	-1.71	-1.55	-1.47	-1.27
10/27/2012 14:42	-1.37	-2.01	0.65	0.39	0.57	0.65	0.85	-1.62	-1.44	-1.36	-1.16
10/27/2012 14:48	-1.25	-1.92	0.67	0.41	0.59	0.67	0.88	-1.51	-1.33	-1.25	-1.04
10/27/2012 14:54	-1.13	-1.82	0.70	0.43	0.61	0.70	0.91	-1.39	-1.21	-1.12	-0.91
10/27/2012 15:00	-1.00	-1.72	0.72	0.44	0.63	0.72	0.95	-1.28	-1.09	-1.00	-0.77
10/27/2012 15:06	-0.87	-1.61	0.74	0.45	0.65	0.74	0.97	-1.16	-0.96	-0.87	-0.64
10/27/2012 15:12	-0.76	-1.51	0.76	0.46	0.66	0.76	0.99	-1.05	-0.85	-0.75	-0.52
10/27/2012 15:18	-0.65	-1.4	0.75	0.46	0.66	0.75	0.98	-0.94	-0.74	-0.65	-0.42
10/27/2012 15:24	-0.54	-1.29	0.76	0.46	0.66	0.76	0.99	-0.83	-0.63	-0.53	-0.30
10/27/2012 15:30	-0.42	-1.18	0.76	0.47	0.67	0.76	1.00	-0.71	-0.51	-0.42	-0.18
10/27/2012 15:36	-0.30	-1.06	0.76	0.46	0.67	0.76	0.99	-0.60	-0.39	-0.30	-0.07
10/27/2012 15:42	-0.19	-0.95	0.76	0.47	0.67	0.76	1.00	-0.48	-0.28	-0.19	0.05
10/27/2012 15:48	-0.06	-0.84	0.78	0.48	0.68	0.78	1.02	-0.36	-0.16	-0.06	0.18
10/27/2012 15:54	0.07	-0.72	0.79	0.48	0.70	0.79	1.04	-0.24	-0.02	0.07	0.32

Water Level Obtained from NOAA Gage at Battery during Hurricane Sandy				Scaling factor applied for each time step on Measure-Predicted				Final stillwater elevations scaled for various storm events (feet-NAVD)			
Date Time (LST/LDT)	Water Level (FT NAVD)	Pred Tide, FT NAVD	Meas-Pred	10yr surge	50yr surge	100yr surge	500yr surge	10yr WL	50yr WL	100yr WL	500yr WL
10/27/2012 16:00	0.22	-0.61	0.83	0.51	0.73	0.83	1.09	-0.10	0.12	0.22	0.48
10/27/2012 16:06	0.34	-0.5	0.84	0.51	0.73	0.84	1.10	0.01	0.23	0.34	0.60
10/27/2012 16:12	0.46	-0.38	0.84	0.51	0.74	0.84	1.10	0.13	0.36	0.46	0.72
10/27/2012 16:18	0.60	-0.27	0.87	0.53	0.77	0.88	1.15	0.26	0.50	0.61	0.88
10/27/2012 16:24	0.74	-0.16	0.90	0.55	0.79	0.90	1.18	0.39	0.63	0.74	1.02
10/27/2012 16:30	0.89	-0.05	0.94	0.57	0.82	0.94	1.23	0.52	0.77	0.89	1.18
10/27/2012 16:36	1.04	0.06	0.98	0.60	0.86	0.98	1.28	0.66	0.92	1.04	1.34
10/27/2012 16:42	1.19	0.17	1.02	0.63	0.90	1.03	1.34	0.80	1.07	1.20	1.51
10/27/2012 16:48	1.33	0.28	1.05	0.64	0.92	1.05	1.38	0.92	1.20	1.33	1.66
10/27/2012 16:54	1.48	0.38	1.10	0.67	0.97	1.10	1.44	1.05	1.35	1.48	1.82
10/27/2012 17:00	1.62	0.49	1.13	0.69	0.99	1.13	1.48	1.18	1.48	1.62	1.97
10/27/2012 17:06	1.74	0.59	1.15	0.70	1.01	1.15	1.50	1.29	1.60	1.74	2.09
10/27/2012 17:12	1.84	0.69	1.15	0.70	1.01	1.15	1.50	1.39	1.70	1.84	2.19
10/27/2012 17:18	1.96	0.79	1.17	0.72	1.03	1.17	1.53	1.51	1.82	1.96	2.32
10/27/2012 17:24	2.04	0.89	1.15	0.70	1.01	1.15	1.50	1.59	1.90	2.04	2.39
10/27/2012 17:30	2.12	0.98	1.14	0.70	1.00	1.15	1.50	1.68	1.98	2.13	2.48
10/27/2012 17:36	2.23	1.07	1.16	0.71	1.02	1.16	1.52	1.78	2.09	2.23	2.59
10/27/2012 17:42	2.25	1.16	1.09	0.67	0.96	1.10	1.44	1.83	2.12	2.26	2.60
10/27/2012 17:48	2.34	1.25	1.09	0.67	0.96	1.09	1.43	1.92	2.21	2.34	2.68
10/27/2012 17:54	2.41	1.33	1.08	0.66	0.95	1.08	1.42	1.99	2.28	2.41	2.75
10/27/2012 18:00	2.48	1.41	1.07	0.65	0.94	1.07	1.40	2.06	2.35	2.48	2.81
10/27/2012 18:06	2.57	1.49	1.08	0.66	0.94	1.08	1.41	2.15	2.43	2.57	2.90
10/27/2012 18:12	2.63	1.57	1.06	0.65	0.93	1.06	1.38	2.22	2.50	2.63	2.95
10/27/2012 18:18	2.70	1.64	1.06	0.65	0.93	1.06	1.39	2.29	2.57	2.70	3.03
10/27/2012 18:24	2.74	1.7	1.04	0.64	0.91	1.04	1.36	2.34	2.61	2.74	3.06
10/27/2012 18:30	2.80	1.76	1.04	0.64	0.91	1.04	1.37	2.40	2.67	2.80	3.13
10/27/2012 18:36	2.84	1.82	1.02	0.62	0.90	1.02	1.34	2.44	2.72	2.84	3.16
10/27/2012 18:42	2.89	1.87	1.02	0.63	0.90	1.03	1.34	2.50	2.77	2.90	3.21
10/27/2012 18:48	2.95	1.92	1.03	0.63	0.90	1.03	1.35	2.55	2.82	2.95	3.27
10/27/2012 18:54	3.01	1.96	1.05	0.64	0.92	1.05	1.38	2.60	2.88	3.01	3.34
10/27/2012 19:00	3.05	2	1.05	0.64	0.92	1.05	1.37	2.64	2.92	3.05	3.37
10/27/2012 19:06	3.07	2.03	1.04	0.63	0.91	1.04	1.36	2.66	2.94	3.07	3.39
10/27/2012 19:12	3.10	2.05	1.05	0.64	0.93	1.06	1.38	2.69	2.98	3.11	3.43
10/27/2012 19:18	3.10	2.07	1.03	0.63	0.90	1.03	1.35	2.70	2.97	3.10	3.42
10/27/2012 19:24	3.11	2.08	1.03	0.63	0.90	1.03	1.35	2.71	2.98	3.11	3.43
10/27/2012 19:30	3.08	2.09	0.99	0.61	0.87	0.99	1.30	2.70	2.96	3.08	3.39
10/27/2012 19:36	3.10	2.09	1.01	0.62	0.88	1.01	1.32	2.71	2.97	3.10	3.41
10/27/2012 19:42	3.09	2.08	1.01	0.62	0.88	1.01	1.32	2.70	2.96	3.09	3.40
10/27/2012 19:48	3.11	2.06	1.05	0.64	0.92	1.05	1.37	2.70	2.98	3.11	3.43
10/27/2012 19:54	3.05	2.04	1.01	0.62	0.89	1.02	1.33	2.66	2.93	3.06	3.37

Water Level Obtained from NOAA Gage at Battery during Hurricane Sandy				Scaling factor applied for each time step on Measure-Predicted				Final stillwater elevations scaled for various storm events (feet-NAVD)			
Date Time (LST/LDT)	Water Level (FT NAVD)	Pred Tide, FT NAVD	Meas-Pred	10yr surge	50yr surge	100yr surge	500yr surge	10yr WL	50yr WL	100yr WL	500yr WL
10/27/2012 20:00	3.03	2.01	1.02	0.62	0.89	1.02	1.33	2.63	2.90	3.03	3.34
10/27/2012 20:06	3.01	1.98	1.03	0.63	0.90	1.03	1.34	2.61	2.88	3.01	3.32
10/27/2012 20:12	2.97	1.93	1.04	0.64	0.91	1.04	1.36	2.57	2.84	2.97	3.29
10/27/2012 20:18	2.95	1.88	1.07	0.66	0.94	1.07	1.41	2.54	2.82	2.95	3.29
10/27/2012 20:24	2.89	1.83	1.06	0.65	0.93	1.06	1.39	2.48	2.76	2.89	3.22
10/27/2012 20:30	2.83	1.76	1.07	0.65	0.94	1.07	1.40	2.41	2.70	2.83	3.16
10/27/2012 20:36	2.76	1.69	1.07	0.65	0.94	1.07	1.40	2.34	2.63	2.76	3.09
10/27/2012 20:42	2.66	1.62	1.04	0.64	0.92	1.05	1.37	2.26	2.54	2.67	2.99
10/27/2012 20:48	2.58	1.53	1.05	0.64	0.92	1.05	1.38	2.17	2.45	2.58	2.91
10/27/2012 20:54	2.50	1.45	1.05	0.64	0.92	1.05	1.38	2.09	2.37	2.50	2.83
10/27/2012 21:00	2.41	1.36	1.05	0.64	0.92	1.05	1.38	2.00	2.28	2.41	2.74
10/27/2012 21:06	2.31	1.26	1.05	0.64	0.92	1.05	1.38	1.90	2.18	2.31	2.64
10/27/2012 21:12	2.21	1.16	1.05	0.64	0.92	1.05	1.38	1.80	2.08	2.21	2.54
10/27/2012 21:18	2.11	1.06	1.05	0.64	0.92	1.05	1.37	1.70	1.98	2.11	2.43
10/27/2012 21:24	2.02	0.95	1.07	0.65	0.94	1.07	1.40	1.60	1.89	2.02	2.35
10/27/2012 21:30	1.94	0.85	1.09	0.67	0.96	1.09	1.43	1.52	1.81	1.94	2.28
10/27/2012 21:36	1.83	0.74	1.09	0.67	0.96	1.10	1.44	1.41	1.70	1.84	2.18
10/27/2012 21:42	1.73	0.63	1.10	0.67	0.96	1.10	1.44	1.30	1.59	1.73	2.07
10/27/2012 21:48	1.63	0.52	1.11	0.68	0.97	1.11	1.45	1.20	1.49	1.63	1.97
10/27/2012 21:54	1.53	0.4	1.13	0.69	0.99	1.13	1.48	1.09	1.39	1.53	1.88
10/27/2012 22:00	1.44	0.29	1.15	0.70	1.01	1.15	1.50	0.99	1.30	1.44	1.79
10/27/2012 22:06	1.34	0.18	1.16	0.71	1.02	1.16	1.52	0.89	1.20	1.34	1.70
10/27/2012 22:12	1.23	0.07	1.16	0.71	1.02	1.16	1.52	0.78	1.09	1.23	1.59
10/27/2012 22:18	1.11	-0.04	1.15	0.70	1.01	1.15	1.51	0.66	0.97	1.11	1.47
10/27/2012 22:24	0.99	-0.15	1.14	0.70	1.00	1.14	1.50	0.55	0.85	0.99	1.35
10/27/2012 22:30	0.87	-0.26	1.13	0.69	0.99	1.13	1.48	0.43	0.73	0.87	1.22
10/27/2012 22:36	0.75	-0.37	1.12	0.69	0.98	1.12	1.47	0.32	0.61	0.75	1.10
10/27/2012 22:42	0.64	-0.47	1.11	0.68	0.97	1.11	1.45	0.21	0.50	0.64	0.98
10/27/2012 22:48	0.52	-0.58	1.10	0.67	0.96	1.10	1.44	0.09	0.38	0.52	0.86
10/27/2012 22:54	0.40	-0.68	1.08	0.66	0.95	1.09	1.42	-0.02	0.27	0.41	0.74
10/27/2012 23:00	0.31	-0.78	1.09	0.67	0.96	1.09	1.43	-0.11	0.18	0.31	0.65
10/27/2012 23:06	0.21	-0.89	1.10	0.67	0.97	1.10	1.44	-0.22	0.08	0.21	0.55
10/27/2012 23:12	0.11	-0.99	1.10	0.67	0.97	1.10	1.45	-0.32	-0.02	0.11	0.46
10/27/2012 23:18	0.03	-1.09	1.12	0.69	0.98	1.12	1.47	-0.40	-0.11	0.03	0.38
10/27/2012 23:24	-0.03	-1.19	1.16	0.71	1.02	1.16	1.52	-0.48	-0.17	-0.03	0.33
10/27/2012 23:30	-0.13	-1.29	1.16	0.71	1.02	1.16	1.52	-0.58	-0.27	-0.13	0.23
10/27/2012 23:36	-0.20	-1.39	1.19	0.73	1.05	1.20	1.57	-0.66	-0.34	-0.19	0.18
10/27/2012 23:42	-0.27	-1.48	1.21	0.74	1.06	1.21	1.59	-0.74	-0.42	-0.27	0.11
10/27/2012 23:48	-0.33	-1.58	1.25	0.76	1.10	1.25	1.64	-0.82	-0.48	-0.33	0.06
10/27/2012 23:54	-0.39	-1.68	1.29	0.79	1.13	1.30	1.70	-0.89	-0.55	-0.38	0.02

Water Level Obtained from NOAA Gage at Battery during Hurricane Sandy				Scaling factor applied for each time step on Measure-Predicted				Final stillwater elevations scaled for various storm events (feet-NAVD)			
Date Time (LST/LDT)	Water Level (FT NAVD)	Pred Tide, FT NAVD	Meas-Pred	10yr surge	50yr surge	100yr surge	500yr surge	10yr WL	50yr WL	100yr WL	500yr WL
10/28/2012 0:00	-0.45	-1.77	1.32	0.81	1.16	1.32	1.73	-0.96	-0.61	-0.45	-0.04
10/28/2012 0:06	-0.51	-1.87	1.36	0.83	1.19	1.36	1.79	-1.04	-0.68	-0.51	-0.08
10/28/2012 0:12	-0.57	-1.96	1.39	0.85	1.22	1.39	1.83	-1.11	-0.74	-0.57	-0.13
10/28/2012 0:18	-0.62	-2.05	1.43	0.88	1.26	1.44	1.88	-1.17	-0.79	-0.61	-0.17
10/28/2012 0:24	-0.66	-2.14	1.48	0.91	1.30	1.49	1.95	-1.23	-0.84	-0.65	-0.19
10/28/2012 0:30	-0.68	-2.22	1.54	0.94	1.35	1.54	2.02	-1.28	-0.87	-0.68	-0.20
10/28/2012 0:36	-0.76	-2.3	1.55	0.95	1.36	1.55	2.03	-1.35	-0.94	-0.75	-0.27
10/28/2012 0:42	-0.80	-2.38	1.58	0.96	1.38	1.58	2.07	-1.42	-1.00	-0.80	-0.31
10/28/2012 0:48	-0.86	-2.45	1.59	0.97	1.40	1.59	2.09	-1.48	-1.05	-0.86	-0.36
10/28/2012 0:54	-0.91	-2.51	1.60	0.98	1.41	1.61	2.10	-1.53	-1.10	-0.90	-0.41
10/28/2012 1:00	-0.97	-2.57	1.61	0.98	1.41	1.61	2.11	-1.59	-1.16	-0.96	-0.46
10/28/2012 1:06	-1.00	-2.62	1.62	0.99	1.42	1.62	2.12	-1.63	-1.20	-1.00	-0.50
10/28/2012 1:12	-1.04	-2.67	1.63	1.00	1.43	1.64	2.14	-1.67	-1.24	-1.03	-0.53
10/28/2012 1:18	-1.04	-2.71	1.67	1.02	1.47	1.68	2.20	-1.69	-1.24	-1.03	-0.51
10/28/2012 1:24	-1.04	-2.74	1.70	1.04	1.49	1.70	2.23	-1.70	-1.25	-1.04	-0.51
10/28/2012 1:30	-1.07	-2.76	1.69	1.04	1.49	1.70	2.22	-1.72	-1.27	-1.06	-0.54
10/28/2012 1:36	-1.07	-2.77	1.70	1.04	1.49	1.70	2.23	-1.73	-1.28	-1.07	-0.54
10/28/2012 1:42	-1.06	-2.77	1.71	1.05	1.50	1.72	2.25	-1.72	-1.27	-1.05	-0.52
10/28/2012 1:48	-1.04	-2.76	1.72	1.05	1.51	1.72	2.25	-1.71	-1.25	-1.04	-0.51
10/28/2012 1:54	-1.05	-2.74	1.69	1.04	1.49	1.70	2.22	-1.70	-1.25	-1.04	-0.52
10/28/2012 2:00	-1.04	-2.72	1.68	1.03	1.47	1.68	2.20	-1.69	-1.25	-1.04	-0.52
10/28/2012 2:06	-1.03	-2.68	1.65	1.01	1.45	1.65	2.16	-1.67	-1.23	-1.03	-0.52
10/28/2012 2:12	-0.97	-2.63	1.66	1.01	1.46	1.66	2.18	-1.62	-1.17	-0.97	-0.45
10/28/2012 2:18	-0.87	-2.58	1.71	1.04	1.50	1.71	2.24	-1.54	-1.08	-0.87	-0.34
10/28/2012 2:24	-0.78	-2.52	1.74	1.06	1.52	1.74	2.28	-1.46	-1.00	-0.78	-0.24
10/28/2012 2:30	-0.72	-2.44	1.72	1.05	1.51	1.72	2.25	-1.39	-0.93	-0.72	-0.19
10/28/2012 2:36	-0.66	-2.36	1.70	1.04	1.49	1.70	2.23	-1.32	-0.87	-0.66	-0.13
10/28/2012 2:42	-0.59	-2.28	1.69	1.03	1.48	1.69	2.21	-1.25	-0.80	-0.59	-0.07
10/28/2012 2:48	-0.51	-2.18	1.67	1.02	1.46	1.67	2.19	-1.16	-0.72	-0.51	0.01
10/28/2012 2:54	-0.40	-2.09	1.69	1.04	1.49	1.70	2.22	-1.05	-0.60	-0.39	0.13
10/28/2012 3:00	-0.29	-1.98	1.69	1.03	1.48	1.69	2.22	-0.95	-0.50	-0.29	0.24
10/28/2012 3:06	-0.17	-1.87	1.70	1.04	1.49	1.71	2.23	-0.83	-0.38	-0.16	0.36
10/28/2012 3:12	-0.03	-1.76	1.73	1.06	1.52	1.73	2.27	-0.70	-0.24	-0.03	0.51
10/28/2012 3:18	0.09	-1.64	1.73	1.06	1.52	1.73	2.27	-0.58	-0.12	0.09	0.63
10/28/2012 3:24	0.23	-1.52	1.75	1.07	1.53	1.75	2.29	-0.45	0.01	0.23	0.77
10/28/2012 3:30	0.35	-1.39	1.74	1.06	1.53	1.74	2.28	-0.33	0.14	0.35	0.89
10/28/2012 3:36	0.51	-1.27	1.78	1.09	1.56	1.79	2.34	-0.18	0.29	0.52	1.07
10/28/2012 3:42	0.65	-1.14	1.79	1.10	1.57	1.80	2.35	-0.04	0.43	0.66	1.21
10/28/2012 3:48	0.81	-1.01	1.82	1.12	1.60	1.83	2.39	0.11	0.59	0.82	1.38
10/28/2012 3:54	0.96	-0.88	1.84	1.13	1.62	1.84	2.42	0.25	0.74	0.96	1.54

Water Level Obtained from NOAA Gage at Battery during Hurricane Sandy				Scaling factor applied for each time step on Measure-Predicted				Final stillwater elevations scaled for various storm events (feet-NAVD)			
Date Time (LST/LDT)	Water Level (FT NAVD)	Pred Tide, FT NAVD	Meas-Pred	10yr surge	50yr surge	100yr surge	500yr surge	10yr WL	50yr WL	100yr WL	500yr WL
10/28/2012 4:00	1.11	-0.75	1.86	1.14	1.63	1.87	2.44	0.39	0.88	1.12	1.69
10/28/2012 4:06	1.24	-0.63	1.87	1.14	1.64	1.87	2.45	0.51	1.01	1.24	1.82
10/28/2012 4:12	1.37	-0.5	1.87	1.14	1.64	1.87	2.45	0.64	1.14	1.37	1.95
10/28/2012 4:18	1.48	-0.37	1.85	1.13	1.63	1.86	2.43	0.76	1.26	1.49	2.06
10/28/2012 4:24	1.61	-0.24	1.85	1.13	1.62	1.85	2.42	0.89	1.38	1.61	2.18
10/28/2012 4:30	1.74	-0.12	1.86	1.14	1.63	1.86	2.44	1.02	1.51	1.74	2.32
10/28/2012 4:36	1.88	0.01	1.87	1.15	1.64	1.88	2.46	1.16	1.65	1.89	2.47
10/28/2012 4:42	2.02	0.13	1.89	1.15	1.66	1.89	2.48	1.28	1.79	2.02	2.61
10/28/2012 4:48	2.14	0.26	1.88	1.15	1.65	1.88	2.47	1.41	1.91	2.14	2.73
10/28/2012 4:54	2.24	0.38	1.86	1.14	1.63	1.86	2.44	1.52	2.01	2.24	2.82
10/28/2012 5:00	2.34	0.5	1.84	1.12	1.61	1.84	2.41	1.62	2.11	2.34	2.91
10/28/2012 5:06	2.47	0.61	1.86	1.14	1.63	1.86	2.44	1.75	2.24	2.47	3.05
10/28/2012 5:12	2.59	0.73	1.86	1.14	1.63	1.86	2.44	1.87	2.36	2.59	3.17
10/28/2012 5:18	2.71	0.84	1.87	1.14	1.64	1.87	2.45	1.98	2.48	2.71	3.29
10/28/2012 5:24	2.81	0.95	1.86	1.14	1.63	1.87	2.44	2.09	2.58	2.82	3.39
10/28/2012 5:30	2.90	1.06	1.84	1.13	1.61	1.84	2.41	2.19	2.67	2.90	3.47
10/28/2012 5:36	2.98	1.17	1.81	1.11	1.59	1.81	2.37	2.28	2.76	2.98	3.54
10/28/2012 5:42	3.05	1.27	1.78	1.09	1.57	1.79	2.34	2.36	2.84	3.06	3.61
10/28/2012 5:48	3.16	1.37	1.79	1.09	1.57	1.79	2.35	2.46	2.94	3.16	3.72
10/28/2012 5:54	3.24	1.47	1.77	1.08	1.55	1.77	2.32	2.55	3.02	3.24	3.79
10/28/2012 6:00	3.30	1.57	1.73	1.06	1.52	1.73	2.27	2.63	3.09	3.30	3.84
10/28/2012 6:06	3.34	1.66	1.68	1.03	1.47	1.68	2.20	2.69	3.13	3.34	3.86
10/28/2012 6:12	3.39	1.75	1.64	1.00	1.44	1.64	2.15	2.75	3.19	3.39	3.90
10/28/2012 6:18	3.48	1.83	1.65	1.01	1.45	1.65	2.16	2.84	3.28	3.48	3.99
10/28/2012 6:24	3.56	1.92	1.64	1.01	1.44	1.65	2.16	2.93	3.36	3.57	4.08
10/28/2012 6:30	3.58	2	1.58	0.96	1.38	1.58	2.07	2.96	3.38	3.58	4.07
10/28/2012 6:36	3.60	2.07	1.53	0.93	1.34	1.53	2.00	3.00	3.41	3.60	4.07
10/28/2012 6:42	3.64	2.14	1.50	0.92	1.32	1.50	1.97	3.06	3.46	3.64	4.11
10/28/2012 6:48	3.64	2.21	1.43	0.87	1.25	1.43	1.87	3.08	3.46	3.64	4.08
10/28/2012 6:54	3.71	2.27	1.44	0.88	1.26	1.44	1.89	3.15	3.53	3.71	4.16
10/28/2012 7:00	3.75	2.32	1.43	0.87	1.26	1.43	1.88	3.19	3.58	3.75	4.20
10/28/2012 7:06	3.78	2.38	1.40	0.86	1.23	1.41	1.84	3.24	3.61	3.79	4.22
10/28/2012 7:12	3.82	2.42	1.40	0.86	1.23	1.40	1.84	3.28	3.65	3.82	4.26
10/28/2012 7:18	3.85	2.46	1.39	0.85	1.22	1.39	1.83	3.31	3.68	3.85	4.29
10/28/2012 7:24	3.89	2.5	1.39	0.85	1.22	1.39	1.82	3.35	3.72	3.89	4.32
10/28/2012 7:30	3.94	2.53	1.41	0.86	1.24	1.42	1.86	3.39	3.77	3.95	4.39
10/28/2012 7:36	3.95	2.55	1.40	0.86	1.23	1.40	1.84	3.41	3.78	3.95	4.39
10/28/2012 7:42	3.98	2.57	1.41	0.86	1.24	1.41	1.85	3.43	3.81	3.98	4.42
10/28/2012 7:48	4.01	2.58	1.43	0.87	1.25	1.43	1.87	3.45	3.83	4.01	4.45
10/28/2012 7:54	4.03	2.59	1.44	0.88	1.26	1.44	1.89	3.47	3.85	4.03	4.48

Water Level Obtained from NOAA Gage at Battery during Hurricane Sandy				Scaling factor applied for each time step on Measure-Predicted				Final stillwater elevations scaled for various storm events (feet-NAVD)			
Date Time (LST/LDT)	Water Level (FT NAVD)	Pred Tide, FT NAVD	Meas-Pred	10yr surge	50yr surge	100yr surge	500yr surge	10yr WL	50yr WL	100yr WL	500yr WL
10/28/2012 8:00	4.04	2.58	1.46	0.89	1.28	1.46	1.91	3.47	3.86	4.04	4.49
10/28/2012 8:06	4.05	2.57	1.48	0.90	1.30	1.48	1.94	3.47	3.87	4.05	4.51
10/28/2012 8:12	4.03	2.56	1.47	0.90	1.29	1.47	1.93	3.46	3.85	4.03	4.49
10/28/2012 8:18	4.03	2.54	1.49	0.91	1.31	1.49	1.95	3.45	3.85	4.03	4.49
10/28/2012 8:24	4.05	2.5	1.55	0.95	1.36	1.55	2.04	3.45	3.86	4.05	4.54
10/28/2012 8:30	4.05	2.47	1.58	0.97	1.39	1.58	2.08	3.44	3.86	4.05	4.55
10/28/2012 8:36	3.97	2.42	1.55	0.95	1.36	1.56	2.04	3.37	3.78	3.98	4.46
10/28/2012 8:42	3.93	2.37	1.56	0.96	1.37	1.57	2.05	3.33	3.74	3.94	4.42
10/28/2012 8:48	3.91	2.31	1.60	0.98	1.41	1.60	2.10	3.29	3.72	3.91	4.41
10/28/2012 8:54	3.87	2.25	1.62	0.99	1.42	1.62	2.13	3.24	3.67	3.87	4.38
10/28/2012 9:00	3.83	2.18	1.65	1.01	1.45	1.65	2.17	3.19	3.63	3.83	4.35
10/28/2012 9:06	3.79	2.1	1.69	1.03	1.48	1.69	2.21	3.13	3.58	3.79	4.31
10/28/2012 9:12	3.73	2.02	1.71	1.05	1.50	1.72	2.25	3.07	3.52	3.74	4.27
10/28/2012 9:18	3.68	1.93	1.75	1.07	1.53	1.75	2.29	3.00	3.46	3.68	4.22
10/28/2012 9:24	3.62	1.84	1.78	1.09	1.56	1.78	2.33	2.93	3.40	3.62	4.17
10/28/2012 9:30	3.50	1.74	1.76	1.08	1.55	1.77	2.31	2.82	3.29	3.51	4.05
10/28/2012 9:36	3.42	1.64	1.78	1.09	1.56	1.78	2.33	2.73	3.20	3.42	3.97
10/28/2012 9:42	3.36	1.54	1.82	1.11	1.60	1.82	2.39	2.65	3.14	3.36	3.93
10/28/2012 9:48	3.26	1.43	1.83	1.12	1.61	1.83	2.40	2.55	3.04	3.26	3.83
10/28/2012 9:54	3.15	1.32	1.83	1.12	1.60	1.83	2.40	2.44	2.92	3.15	3.72
10/28/2012 10:00	3.08	1.21	1.87	1.14	1.64	1.87	2.45	2.35	2.85	3.08	3.66
10/28/2012 10:06	3.00	1.1	1.90	1.16	1.66	1.90	2.49	2.26	2.76	3.00	3.59
10/28/2012 10:12	2.90	0.99	1.91	1.17	1.67	1.91	2.50	2.16	2.66	2.90	3.49
10/28/2012 10:18	2.81	0.87	1.94	1.19	1.70	1.94	2.54	2.06	2.57	2.81	3.41
10/28/2012 10:24	2.72	0.76	1.96	1.20	1.72	1.96	2.57	1.96	2.48	2.72	3.33
10/28/2012 10:30	2.58	0.64	1.94	1.19	1.70	1.94	2.54	1.83	2.34	2.58	3.18
10/28/2012 10:36	2.45	0.53	1.92	1.18	1.69	1.93	2.52	1.71	2.22	2.46	3.05
10/28/2012 10:42	2.32	0.42	1.90	1.16	1.67	1.91	2.50	1.58	2.09	2.33	2.92
10/28/2012 10:48	2.19	0.3	1.89	1.16	1.66	1.90	2.48	1.46	1.96	2.20	2.78
10/28/2012 10:54	2.06	0.19	1.87	1.14	1.64	1.87	2.45	1.33	1.83	2.06	2.64
10/28/2012 11:00	1.92	0.08	1.84	1.12	1.61	1.84	2.41	1.20	1.69	1.92	2.49
10/28/2012 11:06	1.78	-0.03	1.81	1.11	1.59	1.81	2.38	1.08	1.56	1.78	2.35
10/28/2012 11:12	1.68	-0.14	1.82	1.11	1.59	1.82	2.38	0.97	1.45	1.68	2.24
10/28/2012 11:18	1.59	-0.25	1.84	1.12	1.61	1.84	2.41	0.87	1.36	1.59	2.16
10/28/2012 11:24	1.50	-0.36	1.86	1.14	1.64	1.87	2.44	0.78	1.28	1.51	2.08
10/28/2012 11:30	1.40	-0.47	1.87	1.14	1.64	1.87	2.45	0.67	1.17	1.40	1.98
10/28/2012 11:36	1.32	-0.57	1.89	1.16	1.66	1.89	2.48	0.59	1.09	1.32	1.91
10/28/2012 11:42	1.21	-0.68	1.89	1.16	1.66	1.89	2.48	0.48	0.98	1.21	1.80
10/28/2012 11:48	1.13	-0.79	1.92	1.17	1.68	1.92	2.51	0.38	0.89	1.13	1.72
10/28/2012 11:54	1.04	-0.89	1.93	1.18	1.69	1.93	2.53	0.29	0.80	1.04	1.64

Water Level Obtained from NOAA Gage at Battery during Hurricane Sandy				Scaling factor applied for each time step on Measure-Predicted				Final stillwater elevations scaled for various storm events (feet-NAVD)			
Date Time (LST/LDT)	Water Level (FT NAVD)	Pred Tide, FT NAVD	Meas-Pred	10yr surge	50yr surge	100yr surge	500yr surge	10yr WL	50yr WL	100yr WL	500yr WL
10/28/2012 12:00	0.95	-1	1.95	1.19	1.71	1.95	2.55	0.19	0.71	0.95	1.55
10/28/2012 12:06	0.85	-1.11	1.96	1.20	1.72	1.97	2.58	0.09	0.61	0.86	1.47
10/28/2012 12:12	0.76	-1.21	1.97	1.20	1.73	1.97	2.58	-0.01	0.52	0.76	1.37
10/28/2012 12:18	0.65	-1.32	1.97	1.21	1.73	1.98	2.59	-0.11	0.41	0.66	1.27
10/28/2012 12:24	0.58	-1.42	2.00	1.22	1.76	2.00	2.63	-0.20	0.34	0.58	1.21
10/28/2012 12:30	0.50	-1.53	2.03	1.24	1.78	2.04	2.67	-0.29	0.25	0.51	1.14
10/28/2012 12:36	0.43	-1.63	2.06	1.26	1.81	2.06	2.70	-0.37	0.18	0.43	1.07
10/28/2012 12:42	0.34	-1.73	2.07	1.27	1.82	2.07	2.71	-0.47	0.09	0.34	0.98
10/28/2012 12:48	0.25	-1.83	2.08	1.27	1.82	2.08	2.73	-0.56	-0.01	0.25	0.90
10/28/2012 12:54	0.16	-1.93	2.09	1.28	1.84	2.10	2.75	-0.65	-0.09	0.17	0.82
10/28/2012 13:00	0.11	-2.02	2.13	1.30	1.87	2.14	2.80	-0.72	-0.15	0.12	0.78
10/28/2012 13:06	0.05	-2.11	2.16	1.32	1.89	2.16	2.83	-0.79	-0.22	0.05	0.72
10/28/2012 13:12	-0.02	-2.2	2.18	1.33	1.91	2.18	2.86	-0.87	-0.29	-0.02	0.66
10/28/2012 13:18	-0.09	-2.28	2.20	1.34	1.93	2.20	2.88	-0.94	-0.35	-0.08	0.60
10/28/2012 13:24	-0.17	-2.36	2.19	1.34	1.92	2.20	2.88	-1.02	-0.44	-0.16	0.52
10/28/2012 13:30	-0.25	-2.42	2.17	1.33	1.90	2.17	2.84	-1.09	-0.52	-0.25	0.42
10/28/2012 13:36	-0.34	-2.49	2.16	1.32	1.89	2.16	2.83	-1.17	-0.60	-0.33	0.34
10/28/2012 13:42	-0.38	-2.54	2.16	1.32	1.89	2.16	2.83	-1.22	-0.65	-0.38	0.29
10/28/2012 13:48	-0.43	-2.59	2.16	1.32	1.90	2.16	2.83	-1.27	-0.69	-0.43	0.24
10/28/2012 13:54	-0.48	-2.62	2.14	1.31	1.88	2.15	2.81	-1.31	-0.74	-0.47	0.19
10/28/2012 14:00	-0.51	-2.65	2.14	1.31	1.88	2.14	2.81	-1.34	-0.77	-0.51	0.16
10/28/2012 14:06	-0.53	-2.67	2.14	1.31	1.88	2.14	2.81	-1.36	-0.79	-0.53	0.14
10/28/2012 14:12	-0.54	-2.68	2.14	1.31	1.88	2.15	2.81	-1.37	-0.80	-0.53	0.13
10/28/2012 14:18	-0.55	-2.69	2.14	1.31	1.87	2.14	2.80	-1.38	-0.82	-0.55	0.11
10/28/2012 14:24	-0.56	-2.68	2.12	1.29	1.86	2.12	2.78	-1.39	-0.82	-0.56	0.10
10/28/2012 14:30	-0.57	-2.66	2.09	1.28	1.83	2.09	2.74	-1.38	-0.83	-0.57	0.08
10/28/2012 14:36	-0.55	-2.63	2.08	1.27	1.83	2.09	2.73	-1.36	-0.80	-0.54	0.10
10/28/2012 14:42	-0.50	-2.6	2.10	1.29	1.84	2.10	2.76	-1.31	-0.76	-0.50	0.16
10/28/2012 14:48	-0.44	-2.55	2.11	1.29	1.86	2.12	2.77	-1.26	-0.69	-0.43	0.22
10/28/2012 14:54	-0.36	-2.5	2.14	1.31	1.87	2.14	2.80	-1.19	-0.63	-0.36	0.30
10/28/2012 15:00	-0.25	-2.44	2.19	1.34	1.92	2.19	2.87	-1.10	-0.52	-0.25	0.43
10/28/2012 15:06	-0.14	-2.37	2.23	1.36	1.95	2.23	2.92	-1.01	-0.42	-0.14	0.55
10/28/2012 15:12	-0.03	-2.29	2.26	1.38	1.98	2.26	2.97	-0.91	-0.31	-0.03	0.68
10/28/2012 15:18	0.07	-2.21	2.28	1.40	2.00	2.29	2.99	-0.81	-0.21	0.08	0.78
10/28/2012 15:24	0.16	-2.12	2.28	1.40	2.00	2.29	3.00	-0.72	-0.12	0.17	0.88
10/28/2012 15:30	0.27	-2.02	2.29	1.40	2.01	2.30	3.01	-0.62	-0.01	0.28	0.99
10/28/2012 15:36	0.39	-1.93	2.32	1.42	2.04	2.32	3.04	-0.51	0.11	0.39	1.11
10/28/2012 15:42	0.47	-1.82	2.29	1.40	2.01	2.29	3.00	-0.42	0.19	0.47	1.18
10/28/2012 15:48	0.55	-1.72	2.27	1.39	2.00	2.28	2.98	-0.33	0.28	0.56	1.26
10/28/2012 15:54	0.65	-1.61	2.26	1.38	1.98	2.26	2.97	-0.23	0.37	0.65	1.36

Water Level Obtained from NOAA Gage at Battery during Hurricane Sandy				Scaling factor applied for each time step on Measure-Predicted				Final stillwater elevations scaled for various storm events (feet-NAVD)			
Date Time (LST/LDT)	Water Level (FT NAVD)	Pred Tide, FT NAVD	Meas-Pred	10yr surge	50yr surge	100yr surge	500yr surge	10yr WL	50yr WL	100yr WL	500yr WL
10/28/2012 16:00	0.77	-1.5	2.27	1.39	1.99	2.27	2.98	-0.11	0.49	0.77	1.48
10/28/2012 16:06	0.87	-1.38	2.25	1.37	1.97	2.25	2.95	-0.01	0.59	0.87	1.57
10/28/2012 16:12	0.94	-1.27	2.21	1.35	1.94	2.21	2.89	0.08	0.67	0.94	1.62
10/28/2012 16:18	1.07	-1.15	2.22	1.36	1.95	2.22	2.91	0.21	0.80	1.07	1.76
10/28/2012 16:24	1.18	-1.03	2.21	1.35	1.94	2.21	2.89	0.32	0.91	1.18	1.86
10/28/2012 16:30	1.29	-0.92	2.21	1.35	1.94	2.22	2.90	0.43	1.02	1.30	1.98
10/28/2012 16:36	1.40	-0.8	2.20	1.34	1.93	2.20	2.88	0.54	1.13	1.40	2.08
10/28/2012 16:42	1.52	-0.68	2.20	1.35	1.93	2.21	2.89	0.67	1.25	1.53	2.21
10/28/2012 16:48	1.63	-0.56	2.19	1.34	1.93	2.20	2.88	0.78	1.37	1.64	2.32
10/28/2012 16:54	1.77	-0.44	2.21	1.35	1.94	2.22	2.90	0.91	1.50	1.78	2.46
10/28/2012 17:00	1.93	-0.33	2.26	1.38	1.98	2.26	2.96	1.05	1.65	1.93	2.63
10/28/2012 17:06	2.07	-0.21	2.28	1.40	2.00	2.29	3.00	1.19	1.79	2.08	2.79
10/28/2012 17:12	2.22	-0.1	2.32	1.42	2.04	2.33	3.05	1.32	1.94	2.23	2.95
10/28/2012 17:18	2.35	0.01	2.34	1.43	2.05	2.34	3.07	1.44	2.06	2.35	3.08
10/28/2012 17:24	2.48	0.13	2.35	1.44	2.06	2.35	3.08	1.57	2.19	2.48	3.21
10/28/2012 17:30	2.61	0.24	2.37	1.45	2.08	2.38	3.11	1.69	2.32	2.62	3.35
10/28/2012 17:36	2.73	0.34	2.39	1.46	2.10	2.39	3.14	1.80	2.44	2.73	3.48
10/28/2012 17:42	2.84	0.45	2.39	1.46	2.10	2.40	3.14	1.91	2.55	2.85	3.59
10/28/2012 17:48	2.96	0.56	2.40	1.47	2.11	2.41	3.15	2.03	2.67	2.97	3.71
10/28/2012 17:54	3.07	0.66	2.41	1.47	2.12	2.42	3.16	2.13	2.78	3.08	3.82
10/28/2012 18:00	3.15	0.76	2.39	1.46	2.10	2.39	3.14	2.22	2.86	3.15	3.90
10/28/2012 18:06	3.19	0.86	2.33	1.42	2.04	2.33	3.06	2.28	2.90	3.19	3.92
10/28/2012 18:12	3.30	0.95	2.35	1.44	2.06	2.36	3.08	2.39	3.01	3.31	4.03
10/28/2012 18:18	3.44	1.05	2.39	1.46	2.10	2.40	3.14	2.51	3.15	3.45	4.19
10/28/2012 18:24	3.54	1.14	2.40	1.47	2.11	2.40	3.15	2.61	3.25	3.54	4.29
10/28/2012 18:30	3.62	1.23	2.39	1.46	2.10	2.39	3.13	2.69	3.33	3.62	4.36
10/28/2012 18:36	3.67	1.31	2.36	1.44	2.07	2.36	3.09	2.75	3.38	3.67	4.40
10/28/2012 18:42	3.72	1.39	2.33	1.42	2.04	2.33	3.05	2.81	3.43	3.72	4.44
10/28/2012 18:48	3.80	1.47	2.33	1.43	2.05	2.34	3.06	2.90	3.52	3.81	4.53
10/28/2012 18:54	3.87	1.54	2.33	1.43	2.05	2.34	3.06	2.97	3.59	3.88	4.60
10/28/2012 19:00	4.00	1.61	2.39	1.46	2.10	2.40	3.14	3.07	3.71	4.01	4.75
10/28/2012 19:06	4.09	1.68	2.41	1.47	2.11	2.41	3.16	3.15	3.79	4.09	4.84
10/28/2012 19:12	4.15	1.74	2.41	1.47	2.11	2.41	3.16	3.21	3.85	4.15	4.90
10/28/2012 19:18	4.27	1.79	2.48	1.51	2.17	2.48	3.25	3.30	3.96	4.27	5.04
10/28/2012 19:24	4.33	1.85	2.48	1.52	2.18	2.49	3.26	3.37	4.03	4.34	5.11
10/28/2012 19:30	4.44	1.89	2.55	1.56	2.24	2.55	3.34	3.45	4.13	4.44	5.23
10/28/2012 19:36	4.50	1.93	2.57	1.57	2.25	2.57	3.37	3.50	4.18	4.50	5.30
10/28/2012 19:42	4.53	1.97	2.56	1.57	2.25	2.57	3.36	3.54	4.22	4.54	5.33
10/28/2012 19:48	4.56	2	2.56	1.57	2.25	2.57	3.36	3.57	4.25	4.57	5.36
10/28/2012 19:54	4.60	2.02	2.58	1.58	2.26	2.58	3.39	3.60	4.28	4.60	5.41

Water Level Obtained from NOAA Gage at Battery during Hurricane Sandy				Scaling factor applied for each time step on Measure-Predicted				Final stillwater elevations scaled for various storm events (feet-NAVD)			
Date Time (LST/LDT)	Water Level (FT NAVD)	Pred Tide, FT NAVD	Meas-Pred	10yr surge	50yr surge	100yr surge	500yr surge	10yr WL	50yr WL	100yr WL	500yr WL
10/28/2012 20:00	4.62	2.04	2.58	1.58	2.26	2.58	3.38	3.62	4.30	4.62	5.42
10/28/2012 20:06	4.65	2.05	2.60	1.59	2.28	2.60	3.41	3.64	4.33	4.65	5.46
10/28/2012 20:12	4.64	2.06	2.58	1.58	2.26	2.58	3.38	3.64	4.32	4.64	5.44
10/28/2012 20:18	4.68	2.05	2.63	1.61	2.31	2.64	3.45	3.66	4.36	4.69	5.50
10/28/2012 20:24	4.69	2.05	2.64	1.62	2.32	2.65	3.47	3.67	4.37	4.70	5.52
10/28/2012 20:30	4.70	2.03	2.67	1.63	2.34	2.67	3.50	3.66	4.37	4.70	5.53
10/28/2012 20:36	4.70	2.01	2.69	1.64	2.36	2.69	3.53	3.65	4.37	4.70	5.54
10/28/2012 20:42	4.68	1.98	2.70	1.65	2.37	2.70	3.54	3.63	4.35	4.68	5.52
10/28/2012 20:48	4.69	1.94	2.75	1.68	2.41	2.75	3.61	3.62	4.35	4.69	5.55
10/28/2012 20:54	4.65	1.9	2.75	1.68	2.41	2.75	3.60	3.58	4.31	4.65	5.50
10/28/2012 21:00	4.62	1.84	2.78	1.70	2.44	2.79	3.65	3.54	4.28	4.63	5.49
10/28/2012 21:06	4.58	1.79	2.79	1.71	2.45	2.80	3.66	3.50	4.24	4.59	5.45
10/28/2012 21:12	4.53	1.72	2.81	1.72	2.47	2.82	3.69	3.44	4.19	4.54	5.41
10/28/2012 21:18	4.47	1.65	2.82	1.72	2.47	2.82	3.69	3.37	4.12	4.47	5.34
10/28/2012 21:24	4.39	1.57	2.82	1.73	2.48	2.83	3.70	3.30	4.05	4.40	5.27
10/28/2012 21:30	4.31	1.49	2.82	1.73	2.48	2.83	3.70	3.22	3.97	4.32	5.19
10/28/2012 21:36	4.23	1.4	2.83	1.73	2.48	2.83	3.71	3.13	3.88	4.23	5.11
10/28/2012 21:42	4.14	1.31	2.83	1.73	2.48	2.84	3.71	3.04	3.79	4.15	5.02
10/28/2012 21:48	4.06	1.21	2.85	1.74	2.50	2.85	3.73	2.95	3.71	4.06	4.94
10/28/2012 21:54	3.99	1.11	2.88	1.76	2.53	2.89	3.78	2.87	3.64	4.00	4.89
10/28/2012 22:00	3.91	1	2.91	1.78	2.55	2.91	3.81	2.78	3.55	3.91	4.81
10/28/2012 22:06	3.83	0.89	2.94	1.80	2.58	2.95	3.86	2.69	3.47	3.84	4.75
10/28/2012 22:12	3.74	0.78	2.96	1.81	2.60	2.97	3.88	2.59	3.38	3.75	4.66
10/28/2012 22:18	3.64	0.67	2.97	1.81	2.60	2.97	3.89	2.48	3.27	3.64	4.56
10/28/2012 22:24	3.54	0.55	2.99	1.83	2.62	2.99	3.92	2.38	3.17	3.54	4.47
10/28/2012 22:30	3.42	0.44	2.98	1.82	2.61	2.98	3.91	2.26	3.05	3.42	4.35
10/28/2012 22:36	3.29	0.32	2.97	1.82	2.61	2.98	3.90	2.14	2.93	3.30	4.22
10/28/2012 22:42	3.21	0.2	3.01	1.84	2.64	3.02	3.95	2.04	2.84	3.22	4.15
10/28/2012 22:48	3.12	0.09	3.03	1.86	2.66	3.04	3.98	1.95	2.75	3.13	4.07
10/28/2012 22:54	3.03	-0.03	3.06	1.87	2.68	3.06	4.01	1.84	2.65	3.03	3.98
10/28/2012 23:00	2.90	-0.14	3.04	1.86	2.67	3.05	3.99	1.72	2.53	2.91	3.85
10/28/2012 23:06	2.78	-0.25	3.03	1.85	2.66	3.04	3.98	1.60	2.41	2.79	3.73
10/28/2012 23:12	2.68	-0.36	3.04	1.86	2.67	3.04	3.98	1.50	2.31	2.68	3.62
10/28/2012 23:18	2.57	-0.47	3.04	1.86	2.67	3.05	3.99	1.39	2.20	2.58	3.52
10/28/2012 23:24	2.48	-0.58	3.06	1.87	2.68	3.06	4.01	1.29	2.10	2.48	3.43
10/28/2012 23:30	2.38	-0.68	3.06	1.87	2.68	3.06	4.01	1.19	2.00	2.38	3.33
10/28/2012 23:36	2.26	-0.78	3.04	1.86	2.67	3.04	3.98	1.08	1.89	2.26	3.20
10/28/2012 23:42	2.15	-0.89	3.04	1.86	2.67	3.05	3.99	0.97	1.78	2.16	3.10
10/28/2012 23:48	2.05	-0.99	3.04	1.86	2.67	3.05	3.99	0.87	1.68	2.06	3.00
10/28/2012 23:54	1.97	-1.08	3.05	1.86	2.67	3.05	4.00	0.78	1.59	1.97	2.92

Water Level Obtained from NOAA Gage at Battery during Hurricane Sandy				Scaling factor applied for each time step on Measure-Predicted				Final stillwater elevations scaled for various storm events (feet-NAVD)			
Date Time (LST/LDT)	Water Level (FT NAVD)	Pred Tide, FT NAVD	Meas-Pred	10yr surge	50yr surge	100yr surge	500yr surge	10yr WL	50yr WL	100yr WL	500yr WL
10/29/2012 0:00	1.87	-1.18	3.05	1.87	2.68	3.06	4.00	0.69	1.50	1.88	2.82
10/29/2012 0:06	1.76	-1.27	3.03	1.85	2.66	3.04	3.98	0.58	1.39	1.77	2.71
10/29/2012 0:12	1.66	-1.37	3.03	1.85	2.66	3.04	3.98	0.48	1.29	1.67	2.61
10/29/2012 0:18	1.55	-1.46	3.01	1.84	2.64	3.02	3.95	0.38	1.18	1.56	2.49
10/29/2012 0:24	1.48	-1.55	3.03	1.85	2.66	3.04	3.98	0.30	1.11	1.49	2.43
10/29/2012 0:30	1.40	-1.64	3.04	1.86	2.67	3.05	3.99	0.22	1.03	1.41	2.35
10/29/2012 0:36	1.35	-1.73	3.08	1.88	2.70	3.08	4.04	0.15	0.97	1.35	2.31
10/29/2012 0:42	1.28	-1.82	3.10	1.90	2.72	3.11	4.07	0.08	0.90	1.29	2.25
10/29/2012 0:48	1.20	-1.9	3.10	1.90	2.72	3.10	4.06	0.00	0.82	1.20	2.16
10/29/2012 0:54	1.12	-1.99	3.11	1.90	2.73	3.11	4.08	-0.09	0.74	1.12	2.09
10/29/2012 1:00	1.08	-2.07	3.15	1.93	2.76	3.15	4.13	-0.14	0.69	1.08	2.06
10/29/2012 1:06	1.05	-2.15	3.20	1.96	2.81	3.21	4.20	-0.19	0.66	1.06	2.05
10/29/2012 1:12	1.00	-2.22	3.22	1.97	2.83	3.23	4.23	-0.25	0.61	1.01	2.01
10/29/2012 1:18	0.95	-2.29	3.24	1.98	2.84	3.25	4.25	-0.31	0.55	0.96	1.96
10/29/2012 1:24	0.89	-2.36	3.25	1.99	2.85	3.25	4.26	-0.37	0.49	0.89	1.90
10/29/2012 1:30	0.84	-2.43	3.27	2.00	2.87	3.28	4.29	-0.43	0.44	0.85	1.86
10/29/2012 1:36	0.80	-2.49	3.29	2.01	2.89	3.30	4.32	-0.48	0.40	0.81	1.83
10/29/2012 1:42	0.75	-2.54	3.29	2.01	2.89	3.30	4.32	-0.53	0.35	0.76	1.78
10/29/2012 1:48	0.71	-2.59	3.30	2.02	2.89	3.30	4.32	-0.57	0.30	0.71	1.73
10/29/2012 1:54	0.64	-2.63	3.27	2.00	2.87	3.28	4.29	-0.63	0.24	0.65	1.66
10/29/2012 2:00	0.58	-2.66	3.24	1.98	2.84	3.24	4.25	-0.68	0.18	0.58	1.59
10/29/2012 2:06	0.57	-2.69	3.26	1.99	2.86	3.26	4.27	-0.70	0.17	0.57	1.58
10/29/2012 2:12	0.53	-2.71	3.24	1.98	2.84	3.25	4.25	-0.73	0.13	0.54	1.54
10/29/2012 2:18	0.52	-2.72	3.24	1.98	2.85	3.25	4.25	-0.74	0.13	0.53	1.53
10/29/2012 2:24	0.49	-2.72	3.21	1.96	2.81	3.21	4.21	-0.76	0.09	0.49	1.49
10/29/2012 2:30	0.44	-2.71	3.15	1.93	2.76	3.16	4.13	-0.78	0.05	0.45	1.42
10/29/2012 2:36	0.41	-2.69	3.10	1.90	2.72	3.11	4.07	-0.79	0.03	0.42	1.38
10/29/2012 2:42	0.39	-2.66	3.05	1.87	2.68	3.06	4.00	-0.79	0.02	0.40	1.34
10/29/2012 2:48	0.40	-2.62	3.02	1.85	2.65	3.02	3.96	-0.77	0.03	0.40	1.34
10/29/2012 2:54	0.41	-2.58	2.99	1.83	2.62	2.99	3.92	-0.75	0.04	0.41	1.34
10/29/2012 3:00	0.45	-2.52	2.97	1.82	2.61	2.97	3.90	-0.70	0.09	0.45	1.38
10/29/2012 3:06	0.49	-2.46	2.95	1.80	2.59	2.95	3.87	-0.66	0.13	0.49	1.41
10/29/2012 3:12	0.52	-2.38	2.90	1.77	2.54	2.90	3.80	-0.61	0.16	0.52	1.42
10/29/2012 3:18	0.55	-2.3	2.85	1.74	2.50	2.85	3.74	-0.56	0.20	0.55	1.44
10/29/2012 3:24	0.59	-2.21	2.80	1.71	2.46	2.81	3.68	-0.50	0.25	0.60	1.47
10/29/2012 3:30	0.64	-2.11	2.75	1.68	2.41	2.75	3.60	-0.43	0.30	0.64	1.49
10/29/2012 3:36	0.69	-2.01	2.70	1.65	2.37	2.70	3.54	-0.36	0.36	0.69	1.53
10/29/2012 3:42	0.77	-1.9	2.67	1.63	2.34	2.67	3.50	-0.27	0.44	0.77	1.60
10/29/2012 3:48	0.87	-1.79	2.66	1.63	2.33	2.66	3.49	-0.16	0.54	0.87	1.70
10/29/2012 3:54	0.99	-1.67	2.66	1.63	2.33	2.66	3.49	-0.04	0.66	0.99	1.82

Water Level Obtained from NOAA Gage at Battery during Hurricane Sandy				Scaling factor applied for each time step on Measure-Predicted				Final stillwater elevations scaled for various storm events (feet-NAVD)			
Date Time (LST/LDT)	Water Level (FT NAVD)	Pred Tide, FT NAVD	Meas-Pred	10yr surge	50yr surge	100yr surge	500yr surge	10yr WL	50yr WL	100yr WL	500yr WL
10/29/2012 4:00	1.08	-1.55	2.63	1.61	2.31	2.63	3.45	0.06	0.76	1.08	1.90
10/29/2012 4:06	1.18	-1.42	2.60	1.59	2.28	2.60	3.40	0.17	0.86	1.18	1.98
10/29/2012 4:12	1.29	-1.29	2.58	1.58	2.26	2.58	3.38	0.29	0.97	1.29	2.09
10/29/2012 4:18	1.40	-1.16	2.56	1.57	2.25	2.57	3.36	0.41	1.09	1.41	2.20
10/29/2012 4:24	1.55	-1.03	2.58	1.58	2.27	2.59	3.39	0.55	1.24	1.56	2.36
10/29/2012 4:30	1.69	-0.89	2.58	1.58	2.26	2.58	3.38	0.69	1.37	1.69	2.49
10/29/2012 4:36	1.79	-0.76	2.55	1.56	2.24	2.56	3.35	0.80	1.48	1.80	2.59
10/29/2012 4:42	1.88	-0.62	2.50	1.53	2.20	2.51	3.28	0.91	1.58	1.89	2.66
10/29/2012 4:48	2.00	-0.49	2.49	1.52	2.18	2.49	3.26	1.03	1.69	2.00	2.77
10/29/2012 4:54	2.10	-0.35	2.45	1.50	2.15	2.46	3.22	1.15	1.80	2.11	2.87
10/29/2012 5:00	2.21	-0.22	2.43	1.49	2.13	2.43	3.19	1.27	1.91	2.21	2.97
10/29/2012 5:06	2.33	-0.09	2.42	1.48	2.13	2.43	3.18	1.39	2.04	2.34	3.09
10/29/2012 5:12	2.46	0.04	2.42	1.48	2.13	2.43	3.18	1.52	2.17	2.47	3.22
10/29/2012 5:18	2.58	0.17	2.41	1.47	2.11	2.41	3.16	1.64	2.28	2.58	3.33
10/29/2012 5:24	2.72	0.29	2.43	1.49	2.13	2.43	3.19	1.78	2.42	2.72	3.48
10/29/2012 5:30	2.89	0.42	2.47	1.51	2.17	2.47	3.24	1.93	2.59	2.89	3.66
10/29/2012 5:36	3.05	0.54	2.51	1.54	2.21	2.52	3.30	2.08	2.75	3.06	3.84
10/29/2012 5:42	3.19	0.66	2.53	1.55	2.22	2.53	3.32	2.21	2.88	3.19	3.98
10/29/2012 5:48	3.34	0.78	2.56	1.56	2.24	2.56	3.35	2.34	3.02	3.34	4.13
10/29/2012 5:54	3.47	0.9	2.57	1.57	2.25	2.57	3.37	2.47	3.15	3.47	4.27
10/29/2012 6:00	3.60	1.01	2.59	1.59	2.27	2.60	3.40	2.60	3.28	3.61	4.41
10/29/2012 6:06	3.74	1.12	2.62	1.60	2.30	2.62	3.43	2.72	3.42	3.74	4.55
10/29/2012 6:12	3.88	1.22	2.66	1.63	2.34	2.67	3.49	2.85	3.56	3.89	4.71
10/29/2012 6:18	4.04	1.33	2.71	1.66	2.38	2.72	3.56	2.99	3.71	4.05	4.89
10/29/2012 6:24	4.20	1.43	2.77	1.69	2.43	2.77	3.63	3.12	3.86	4.20	5.06
10/29/2012 6:30	4.42	1.53	2.89	1.77	2.54	2.90	3.80	3.30	4.07	4.43	5.33
10/29/2012 6:36	4.55	1.62	2.93	1.79	2.57	2.94	3.85	3.41	4.19	4.56	5.47
10/29/2012 6:42	4.66	1.71	2.95	1.80	2.59	2.95	3.87	3.51	4.30	4.66	5.58
10/29/2012 6:48	4.76	1.8	2.96	1.81	2.60	2.97	3.89	3.61	4.40	4.77	5.69
10/29/2012 6:54	4.86	1.89	2.97	1.82	2.61	2.98	3.90	3.71	4.50	4.87	5.79
10/29/2012 7:00	4.95	1.97	2.98	1.82	2.62	2.99	3.91	3.79	4.59	4.96	5.88
10/29/2012 7:06	5.02	2.04	2.98	1.82	2.62	2.99	3.91	3.86	4.66	5.03	5.95
10/29/2012 7:12	5.11	2.11	3.00	1.84	2.63	3.01	3.94	3.95	4.74	5.12	6.05
10/29/2012 7:18	5.21	2.18	3.03	1.85	2.66	3.03	3.97	4.03	4.84	5.21	6.15
10/29/2012 7:24	5.33	2.25	3.08	1.88	2.70	3.08	4.03	4.13	4.95	5.33	6.28
10/29/2012 7:30	5.38	2.31	3.07	1.88	2.70	3.08	4.03	4.19	5.01	5.39	6.34
10/29/2012 7:36	5.44	2.36	3.08	1.88	2.70	3.08	4.04	4.24	5.06	5.44	6.40
10/29/2012 7:42	5.57	2.41	3.16	1.93	2.77	3.17	4.15	4.34	5.18	5.58	6.56
10/29/2012 7:48	5.68	2.46	3.22	1.97	2.82	3.22	4.22	4.43	5.28	5.68	6.68
10/29/2012 7:54	5.79	2.5	3.29	2.01	2.88	3.29	4.31	4.51	5.38	5.79	6.81

Water Level Obtained from NOAA Gage at Battery during Hurricane Sandy				Scaling factor applied for each time step on Measure-Predicted				Final stillwater elevations scaled for various storm events (feet-NAVD)			
Date Time (LST/LDT)	Water Level (FT NAVD)	Pred Tide, FT NAVD	Meas-Pred	10yr surge	50yr surge	100yr surge	500yr surge	10yr WL	50yr WL	100yr WL	500yr WL
10/29/2012 8:00	5.84	2.53	3.31	2.03	2.91	3.32	4.35	4.56	5.44	5.85	6.88
10/29/2012 8:06	5.89	2.56	3.33	2.04	2.92	3.34	4.37	4.60	5.48	5.90	6.93
10/29/2012 8:12	5.90	2.58	3.32	2.03	2.92	3.33	4.36	4.61	5.50	5.91	6.94
10/29/2012 8:18	5.92	2.6	3.32	2.03	2.91	3.32	4.35	4.63	5.51	5.92	6.95
10/29/2012 8:24	5.98	2.61	3.37	2.06	2.96	3.38	4.43	4.67	5.57	5.99	7.04
10/29/2012 8:30	6.01	2.61	3.40	2.08	2.98	3.41	4.46	4.69	5.59	6.02	7.07
10/29/2012 8:36	5.98	2.61	3.37	2.06	2.96	3.38	4.43	4.67	5.57	5.99	7.04
10/29/2012 8:42	6.03	2.61	3.42	2.09	3.00	3.43	4.49	4.70	5.61	6.04	7.10
10/29/2012 8:48	6.08	2.59	3.49	2.13	3.06	3.49	4.57	4.72	5.65	6.08	7.16
10/29/2012 8:54	6.11	2.57	3.54	2.16	3.11	3.55	4.64	4.73	5.68	6.12	7.21
10/29/2012 9:00	6.13	2.54	3.59	2.19	3.15	3.59	4.70	4.73	5.69	6.13	7.24
10/29/2012 9:06	6.17	2.51	3.66	2.24	3.21	3.67	4.80	4.75	5.72	6.18	7.31
10/29/2012 9:12	6.17	2.47	3.70	2.26	3.25	3.71	4.86	4.73	5.72	6.18	7.33
10/29/2012 9:18	6.17	2.42	3.75	2.29	3.29	3.75	4.92	4.71	5.71	6.17	7.34
10/29/2012 9:24	6.17	2.36	3.81	2.33	3.34	3.81	5.00	4.69	5.70	6.17	7.36
10/29/2012 9:30	6.14	2.3	3.84	2.35	3.37	3.84	5.03	4.65	5.67	6.14	7.33
10/29/2012 9:36	6.10	2.23	3.87	2.37	3.40	3.88	5.08	4.60	5.63	6.11	7.31
10/29/2012 9:42	6.01	2.16	3.85	2.35	3.38	3.85	5.05	4.51	5.54	6.01	7.21
10/29/2012 9:48	5.92	2.08	3.84	2.35	3.37	3.84	5.03	4.43	5.45	5.92	7.11
10/29/2012 9:54	5.89	1.99	3.90	2.39	3.42	3.91	5.12	4.38	5.41	5.90	7.11
10/29/2012 10:00	5.85	1.9	3.95	2.42	3.47	3.96	5.18	4.32	5.37	5.86	7.08
10/29/2012 10:06	5.81	1.8	4.01	2.46	3.52	4.02	5.27	4.26	5.32	5.82	7.07
10/29/2012 10:12	5.74	1.7	4.04	2.47	3.55	4.05	5.30	4.17	5.25	5.75	7.00
10/29/2012 10:18	5.69	1.6	4.09	2.50	3.59	4.10	5.37	4.10	5.19	5.70	6.97
10/29/2012 10:24	5.63	1.49	4.14	2.53	3.64	4.15	5.44	4.02	5.13	5.64	6.93
10/29/2012 10:30	5.57	1.38	4.19	2.56	3.68	4.20	5.50	3.94	5.06	5.58	6.88
10/29/2012 10:36	5.50	1.26	4.24	2.59	3.72	4.25	5.57	3.85	4.98	5.51	6.83
10/29/2012 10:42	5.41	1.15	4.26	2.61	3.74	4.27	5.59	3.76	4.89	5.42	6.74
10/29/2012 10:48	5.36	1.03	4.33	2.65	3.80	4.34	5.68	3.68	4.83	5.37	6.71
10/29/2012 10:54	5.25	0.91	4.34	2.66	3.81	4.35	5.70	3.57	4.72	5.26	6.61
10/29/2012 11:00	5.14	0.79	4.35	2.66	3.82	4.36	5.70	3.45	4.61	5.15	6.49
10/29/2012 11:06	5.08	0.67	4.41	2.70	3.87	4.42	5.78	3.37	4.54	5.09	6.45
10/29/2012 11:12	4.98	0.56	4.42	2.70	3.88	4.43	5.80	3.26	4.44	4.99	6.36
10/29/2012 11:18	4.86	0.44	4.42	2.70	3.88	4.43	5.80	3.14	4.32	4.87	6.24
10/29/2012 11:24	4.75	0.32	4.43	2.71	3.89	4.44	5.82	3.03	4.21	4.76	6.14
10/29/2012 11:30	4.63	0.2	4.43	2.71	3.88	4.43	5.81	2.91	4.08	4.63	6.01
10/29/2012 11:36	4.51	0.09	4.42	2.71	3.88	4.43	5.80	2.80	3.97	4.52	5.89
10/29/2012 11:42	4.39	-0.03	4.42	2.70	3.88	4.42	5.79	2.67	3.85	4.39	5.76
10/29/2012 11:48	4.25	-0.14	4.39	2.68	3.85	4.40	5.76	2.54	3.71	4.26	5.62
10/29/2012 11:54	4.13	-0.25	4.38	2.68	3.85	4.39	5.75	2.43	3.60	4.14	5.50

Water Level Obtained from NOAA Gage at Battery during Hurricane Sandy				Scaling factor applied for each time step on Measure-Predicted				Final stillwater elevations scaled for various storm events (feet-NAVD)			
Date Time (LST/LDT)	Water Level (FT NAVD)	Pred Tide, FT NAVD	Meas-Pred	10yr surge	50yr surge	100yr surge	500yr surge	10yr WL	50yr WL	100yr WL	500yr WL
10/29/2012 12:00	4.06	-0.36	4.42	2.70	3.88	4.43	5.80	2.34	3.52	4.07	5.44
10/29/2012 12:06	3.94	-0.47	4.41	2.70	3.87	4.42	5.79	2.23	3.40	3.95	5.32
10/29/2012 12:12	3.87	-0.57	4.44	2.71	3.89	4.44	5.82	2.14	3.32	3.87	5.25
10/29/2012 12:18	3.79	-0.68	4.47	2.73	3.92	4.47	5.86	2.05	3.24	3.79	5.18
10/29/2012 12:24	3.72	-0.78	4.50	2.76	3.95	4.51	5.91	1.98	3.17	3.73	5.13
10/29/2012 12:30	3.61	-0.89	4.50	2.75	3.95	4.51	5.91	1.86	3.06	3.62	5.02
10/29/2012 12:36	3.52	-0.99	4.51	2.76	3.96	4.52	5.92	1.77	2.97	3.53	4.93
10/29/2012 12:42	3.45	-1.09	4.54	2.77	3.98	4.54	5.95	1.68	2.89	3.45	4.86
10/29/2012 12:48	3.39	-1.19	4.58	2.80	4.02	4.58	6.00	1.61	2.83	3.39	4.81
10/29/2012 12:54	3.30	-1.29	4.59	2.81	4.03	4.60	6.03	1.52	2.74	3.31	4.74
10/29/2012 13:00	3.19	-1.4	4.59	2.81	4.03	4.60	6.02	1.41	2.63	3.20	4.62
10/29/2012 13:06	3.14	-1.49	4.63	2.83	4.07	4.64	6.08	1.34	2.58	3.15	4.59
10/29/2012 13:12	3.07	-1.59	4.66	2.85	4.09	4.67	6.11	1.26	2.50	3.08	4.52
10/29/2012 13:18	2.97	-1.69	4.66	2.85	4.09	4.67	6.11	1.16	2.40	2.98	4.42
10/29/2012 13:24	2.89	-1.79	4.68	2.86	4.10	4.69	6.14	1.07	2.31	2.90	4.35
10/29/2012 13:30	2.82	-1.88	4.70	2.88	4.13	4.71	6.17	1.00	2.25	2.83	4.29
10/29/2012 13:36	2.74	-1.97	4.71	2.88	4.13	4.71	6.17	0.91	2.16	2.74	4.20
10/29/2012 13:42	2.69	-2.06	4.75	2.91	4.17	4.76	6.23	0.85	2.11	2.70	4.17
10/29/2012 13:48	2.64	-2.15	4.79	2.93	4.21	4.80	6.29	0.78	2.06	2.65	4.14
10/29/2012 13:54	2.60	-2.23	4.83	2.95	4.24	4.84	6.33	0.72	2.01	2.61	4.10
10/29/2012 14:00	2.57	-2.31	4.88	2.98	4.28	4.88	6.40	0.67	1.97	2.57	4.09
10/29/2012 14:06	2.53	-2.38	4.91	3.01	4.31	4.92	6.45	0.63	1.93	2.54	4.07
10/29/2012 14:12	2.52	-2.45	4.97	3.04	4.36	4.98	6.52	0.59	1.91	2.53	4.07
10/29/2012 14:18	2.53	-2.51	5.04	3.08	4.42	5.04	6.61	0.57	1.91	2.53	4.10
10/29/2012 14:24	2.53	-2.56	5.09	3.12	4.47	5.10	6.68	0.56	1.91	2.54	4.12
10/29/2012 14:30	2.54	-2.61	5.15	3.15	4.52	5.16	6.76	0.54	1.91	2.55	4.15
10/29/2012 14:36	2.56	-2.65	5.21	3.18	4.57	5.22	6.83	0.53	1.92	2.57	4.18
10/29/2012 14:42	2.65	-2.68	5.33	3.26	4.68	5.34	6.99	0.58	2.00	2.66	4.31
10/29/2012 14:48	2.70	-2.7	5.40	3.30	4.74	5.41	7.08	0.60	2.04	2.71	4.38
10/29/2012 14:54	2.80	-2.71	5.51	3.37	4.83	5.51	7.22	0.66	2.12	2.80	4.51
10/29/2012 15:00	2.87	-2.72	5.59	3.42	4.90	5.60	7.33	0.70	2.18	2.88	4.61
10/29/2012 15:06	2.97	-2.71	5.68	3.47	4.98	5.69	7.45	0.76	2.27	2.98	4.74
10/29/2012 15:12	3.06	-2.69	5.75	3.52	5.05	5.76	7.55	0.83	2.36	3.07	4.86
10/29/2012 15:18	3.24	-2.67	5.91	3.62	5.19	5.92	7.76	0.95	2.52	3.25	5.09
10/29/2012 15:24	3.39	-2.63	6.02	3.68	5.29	6.03	7.90	1.05	2.66	3.40	5.27
10/29/2012 15:30	3.53	-2.59	6.12	3.74	5.37	6.13	8.03	1.15	2.78	3.54	5.44
10/29/2012 15:36	3.68	-2.54	6.22	3.81	5.46	6.23	8.16	1.27	2.92	3.69	5.62
10/29/2012 15:42	3.78	-2.48	6.26	3.83	5.50	6.27	8.22	1.35	3.02	3.79	5.74
10/29/2012 15:48	3.89	-2.41	6.30	3.86	5.53	6.32	8.27	1.45	3.12	3.91	5.86
10/29/2012 15:54	3.98	-2.33	6.31	3.86	5.54	6.32	8.28	1.53	3.21	3.99	5.95

Water Level Obtained from NOAA Gage at Battery during Hurricane Sandy				Scaling factor applied for each time step on Measure-Predicted				Final stillwater elevations scaled for various storm events (feet-NAVD)			
Date Time (LST/LDT)	Water Level (FT NAVD)	Pred Tide, FT NAVD	Meas-Pred	10yr surge	50yr surge	100yr surge	500yr surge	10yr WL	50yr WL	100yr WL	500yr WL
10/29/2012 16:00	4.14	-2.25	6.39	3.91	5.61	6.40	8.38	1.66	3.36	4.15	6.13
10/29/2012 16:06	4.31	-2.16	6.47	3.96	5.68	6.48	8.49	1.80	3.52	4.32	6.33
10/29/2012 16:12	4.44	-2.06	6.50	3.98	5.71	6.51	8.53	1.92	3.65	4.45	6.47
10/29/2012 16:18	4.57	-1.96	6.53	4.00	5.73	6.54	8.57	2.04	3.77	4.58	6.61
10/29/2012 16:24	4.75	-1.86	6.61	4.05	5.80	6.63	8.68	2.19	3.94	4.77	6.82
10/29/2012 16:30	4.87	-1.75	6.62	4.05	5.81	6.63	8.68	2.30	4.06	4.88	6.93
10/29/2012 16:36	5.05	-1.64	6.69	4.09	5.87	6.70	8.78	2.45	4.23	5.06	7.14
10/29/2012 16:42	5.22	-1.52	6.74	4.12	5.91	6.75	8.84	2.60	4.39	5.23	7.32
10/29/2012 16:48	5.34	-1.4	6.74	4.13	5.92	6.76	8.85	2.73	4.52	5.36	7.45
10/29/2012 16:54	5.50	-1.28	6.78	4.14	5.95	6.79	8.89	2.86	4.67	5.51	7.61
10/29/2012 17:00	5.58	-1.16	6.74	4.12	5.92	6.75	8.84	2.96	4.76	5.59	7.68
10/29/2012 17:06	5.70	-1.04	6.74	4.12	5.91	6.75	8.84	3.08	4.87	5.71	7.80
10/29/2012 17:12	5.80	-0.92	6.72	4.11	5.90	6.73	8.82	3.19	4.98	5.81	7.90
10/29/2012 17:18	5.95	-0.8	6.75	4.13	5.93	6.76	8.86	3.33	5.13	5.96	8.06
10/29/2012 17:24	6.09	-0.68	6.77	4.14	5.94	6.78	8.88	3.46	5.26	6.10	8.20
10/29/2012 17:30	6.22	-0.56	6.78	4.15	5.95	6.79	8.89	3.59	5.39	6.23	8.33
10/29/2012 17:36	6.36	-0.44	6.80	4.16	5.96	6.81	8.92	3.72	5.52	6.37	8.48
10/29/2012 17:42	6.52	-0.32	6.84	4.18	6.00	6.85	8.97	3.86	5.68	6.53	8.65
10/29/2012 17:48	6.66	-0.2	6.86	4.19	6.02	6.87	9.00	3.99	5.82	6.67	8.80
10/29/2012 17:54	6.81	-0.09	6.90	4.22	6.06	6.91	9.05	4.13	5.97	6.82	8.96
10/29/2012 18:00	6.96	0.03	6.93	4.24	6.08	6.94	9.09	4.27	6.11	6.97	9.12
10/29/2012 18:06	7.07	0.14	6.93	4.24	6.08	6.95	9.10	4.38	6.22	7.09	9.24
10/29/2012 18:12	7.28	0.25	7.03	4.30	6.17	7.05	9.23	4.55	6.42	7.30	9.48
10/29/2012 18:18	7.44	0.36	7.08	4.33	6.22	7.10	9.29	4.69	6.58	7.46	9.65
10/29/2012 18:24	7.57	0.46	7.11	4.35	6.24	7.12	9.32	4.81	6.70	7.58	9.78
10/29/2012 18:30	7.73	0.57	7.16	4.38	6.29	7.18	9.40	4.95	6.86	7.75	9.97
10/29/2012 18:36	7.90	0.67	7.23	4.42	6.35	7.24	9.49	5.09	7.02	7.91	10.16
10/29/2012 18:42	8.04	0.76	7.28	4.45	6.39	7.29	9.55	5.21	7.15	8.05	10.31
10/29/2012 18:48	8.24	0.86	7.38	4.51	6.47	7.39	9.68	5.37	7.33	8.25	10.54
10/29/2012 18:54	8.42	0.95	7.47	4.57	6.56	7.49	9.80	5.52	7.51	8.44	10.75
10/29/2012 19:00	8.61	1.04	7.57	4.63	6.64	7.58	9.93	5.67	7.68	8.62	10.97
10/29/2012 19:06	8.77	1.13	7.64	4.67	6.70	7.65	10.02	5.80	7.83	8.78	11.15
10/29/2012 19:12	8.98	1.21	7.77	4.75	6.82	7.78	10.19	5.96	8.03	8.99	11.40
10/29/2012 19:18	9.24	1.29	7.95	4.86	6.98	7.97	10.43	6.15	8.27	9.26	11.72
10/29/2012 19:24	9.46	1.37	8.09	4.95	7.10	8.11	10.62	6.32	8.47	9.48	11.99
10/29/2012 19:30	9.71	1.44	8.27	5.06	7.26	8.28	10.85	6.50	8.70	9.72	12.29
10/29/2012 19:36	9.92	1.51	8.41	5.14	7.38	8.42	11.03	6.65	8.89	9.93	12.54
10/29/2012 19:42	10.14	1.58	8.56	5.23	7.51	8.57	11.22	6.81	9.09	10.15	12.80
10/29/2012 19:48	10.32	1.64	8.68	5.31	7.62	8.69	11.39	6.95	9.26	10.33	13.03
10/29/2012 19:54	10.43	1.69	8.74	5.34	7.67	8.75	11.46	7.03	9.36	10.44	13.15

Water Level Obtained from NOAA Gage at Battery during Hurricane Sandy				Scaling factor applied for each time step on Measure-Predicted				Final stillwater elevations scaled for various storm events (feet-NAVD)			
Date Time (LST/LDT)	Water Level (FT NAVD)	Pred Tide, FT NAVD	Meas-Pred	10yr surge	50yr surge	100yr surge	500yr surge	10yr WL	50yr WL	100yr WL	500yr WL
10/29/2012 20:00	10.53	1.74	8.79	5.38	7.72	8.81	11.53	7.12	9.46	10.55	13.27
10/29/2012 20:06	10.58	1.79	8.79	5.38	7.72	8.81	11.54	7.17	9.51	10.60	13.33
10/29/2012 20:12	10.65	1.83	8.82	5.40	7.74	8.84	11.58	7.23	9.57	10.67	13.41
10/29/2012 20:18	10.74	1.87	8.87	5.42	7.78	8.88	11.63	7.29	9.65	10.75	13.50
10/29/2012 20:24	10.79	1.9	8.89	5.44	7.81	8.91	11.67	7.34	9.71	10.81	13.57
10/29/2012 20:30	10.85	1.93	8.92	5.46	7.83	8.94	11.70	7.39	9.76	10.87	13.63
10/29/2012 20:36	10.93	1.95	8.98	5.49	7.88	9.00	11.78	7.44	9.83	10.95	13.73
10/29/2012 20:42	11.04	1.96	9.08	5.55	7.97	9.10	11.91	7.51	9.93	11.06	13.87
10/29/2012 20:48	11.11	1.97	9.14	5.59	8.02	9.16	11.99	7.56	9.99	11.13	13.96
10/29/2012 20:54	11.18	1.97	9.21	5.63	8.08	9.22	12.08	7.60	10.05	11.19	14.05
10/29/2012 21:00	11.21	1.97	9.24	5.65	8.11	9.26	12.12	7.62	10.08	11.23	14.09
10/29/2012 21:06	11.25	1.96	9.29	5.68	8.15	9.31	12.19	7.64	10.11	11.27	14.15
10/29/2012 21:12	11.26	1.94	9.32	5.70	8.18	9.34	12.23	7.64	10.12	11.28	14.17
10/29/2012 21:18	11.27	1.91	9.36	5.73	8.21	9.38	12.28	7.64	10.12	11.29	14.19
10/29/2012 21:24	11.28	1.88	9.40	5.75	8.25	9.42	12.33	7.63	10.13	11.30	14.21
10/29/2012 21:30	11.18	1.85	9.33	5.71	8.19	9.35	12.24	7.56	10.04	11.20	14.09
10/29/2012 21:36	11.11	1.8	9.31	5.70	8.17	9.33	12.22	7.50	9.97	11.13	14.02
10/29/2012 21:42	11.02	1.75	9.27	5.67	8.14	9.29	12.17	7.42	9.89	11.04	13.92
10/29/2012 21:48	10.94	1.69	9.25	5.66	8.11	9.26	12.13	7.35	9.80	10.95	13.82
10/29/2012 21:54	10.80	1.63	9.17	5.61	8.05	9.18	12.03	7.24	9.68	10.81	13.66
10/29/2012 22:00	10.69	1.56	9.13	5.59	8.01	9.15	11.98	7.15	9.57	10.71	13.54
10/29/2012 22:06	10.53	1.48	9.05	5.54	7.94	9.07	11.88	7.02	9.42	10.55	13.36
10/29/2012 22:12	10.38	1.4	8.98	5.49	7.88	8.99	11.78	6.89	9.28	10.39	13.18
10/29/2012 22:18	10.24	1.31	8.93	5.46	7.84	8.95	11.72	6.77	9.15	10.26	13.03
10/29/2012 22:24	10.07	1.22	8.85	5.41	7.76	8.86	11.61	6.63	8.98	10.08	12.83
10/29/2012 22:30	9.87	1.12	8.75	5.35	7.68	8.77	11.48	6.47	8.80	9.89	12.60
10/29/2012 22:36	9.64	1.02	8.62	5.27	7.56	8.63	11.31	6.29	8.58	9.65	12.33
10/29/2012 22:42	9.44	0.91	8.53	5.22	7.49	8.55	11.19	6.13	8.40	9.46	12.10
10/29/2012 22:48	9.23	0.8	8.43	5.16	7.40	8.45	11.06	5.96	8.20	9.25	11.86
10/29/2012 22:54	8.97	0.69	8.28	5.07	7.27	8.30	10.87	5.76	7.96	8.99	11.56
10/29/2012 23:00	8.68	0.58	8.10	4.95	7.11	8.11	10.63	5.53	7.69	8.69	11.21
10/29/2012 23:06	8.39	0.46	7.93	4.85	6.96	7.95	10.41	5.31	7.42	8.41	10.87
10/29/2012 23:12	8.13	0.34	7.79	4.77	6.84	7.80	10.22	5.11	7.18	8.14	10.56
10/29/2012 23:18	7.82	0.23	7.59	4.64	6.66	7.60	9.96	4.87	6.89	7.83	10.19
10/29/2012 23:24	7.49	0.11	7.38	4.52	6.48	7.40	9.69	4.63	6.59	7.51	9.80
10/29/2012 23:30	7.15	-0.01	7.16	4.38	6.29	7.17	9.40	4.37	6.28	7.16	9.39
10/29/2012 23:36	6.87	-0.12	6.99	4.28	6.13	7.00	9.17	4.16	6.01	6.88	9.05
10/29/2012 23:42	6.55	-0.24	6.79	4.15	5.96	6.80	8.91	3.91	5.72	6.56	8.67
10/29/2012 23:48	6.24	-0.35	6.59	4.03	5.78	6.60	8.65	3.68	5.43	6.25	8.30
10/29/2012 23:54	5.94	-0.46	6.40	3.91	5.61	6.41	8.39	3.45	5.15	5.95	7.93

Water Level Obtained from NOAA Gage at Battery during Hurricane Sandy				Scaling factor applied for each time step on Measure-Predicted				Final stillwater elevations scaled for various storm events (feet-NAVD)			
Date Time (LST/LDT)	Water Level (FT NAVD)	Pred Tide, FT NAVD	Meas-Pred	10yr surge	50yr surge	100yr surge	500yr surge	10yr WL	50yr WL	100yr WL	500yr WL
10/30/2012 0:00	5.66	-0.57	6.23	3.81	5.47	6.24	8.17	3.24	4.90	5.67	7.60
10/30/2012 0:06	5.34	-0.67	6.01	3.68	5.28	6.02	7.89	3.01	4.61	5.35	7.22
10/30/2012 0:12	5.08	-0.78	5.86	3.58	5.14	5.87	7.69	2.80	4.36	5.09	6.91
10/30/2012 0:18	4.89	-0.88	5.77	3.53	5.06	5.78	7.56	2.65	4.18	4.90	6.68
10/30/2012 0:24	4.72	-0.98	5.70	3.49	5.00	5.71	7.48	2.51	4.02	4.73	6.50
10/30/2012 0:30	4.49	-1.07	5.56	3.40	4.88	5.57	7.30	2.33	3.81	4.50	6.23
10/30/2012 0:36	4.35	-1.17	5.52	3.38	4.85	5.53	7.25	2.21	3.68	4.36	6.08
10/30/2012 0:42	4.16	-1.26	5.42	3.32	4.76	5.43	7.12	2.06	3.50	4.17	5.86
10/30/2012 0:48	4.00	-1.35	5.35	3.27	4.69	5.36	7.02	1.92	3.34	4.01	5.67
10/30/2012 0:54	3.83	-1.44	5.27	3.22	4.62	5.28	6.91	1.78	3.18	3.84	5.47
10/30/2012 1:00	3.69	-1.52	5.21	3.19	4.57	5.22	6.83	1.67	3.05	3.70	5.31
10/30/2012 1:06	3.54	-1.61	5.15	3.15	4.52	5.16	6.76	1.54	2.91	3.55	5.15
10/30/2012 1:12	3.41	-1.69	5.10	3.12	4.48	5.11	6.69	1.43	2.79	3.42	5.00
10/30/2012 1:18	3.26	-1.77	5.03	3.08	4.42	5.04	6.60	1.31	2.65	3.27	4.83
10/30/2012 1:24	3.13	-1.85	4.98	3.05	4.37	4.99	6.53	1.20	2.52	3.14	4.68
10/30/2012 1:30	3.05	-1.92	4.97	3.04	4.36	4.97	6.51	1.12	2.44	3.05	4.59
10/30/2012 1:36	2.92	-2	4.92	3.01	4.32	4.93	6.45	1.01	2.32	2.93	4.45
10/30/2012 1:42	2.80	-2.07	4.87	2.98	4.27	4.87	6.38	0.91	2.20	2.80	4.31
10/30/2012 1:48	2.58	-2.14	4.72	2.89	4.14	4.73	6.19	0.75	2.00	2.59	4.05
10/30/2012 1:54	2.43	-2.21	4.64	2.84	4.07	4.65	6.09	0.63	1.86	2.44	3.88
10/30/2012 2:00	2.30	-2.27	4.57	2.80	4.01	4.58	6.00	0.53	1.74	2.31	3.73
10/30/2012 2:06	2.17	-2.33	4.50	2.75	3.95	4.51	5.90	0.42	1.62	2.18	3.57
10/30/2012 2:12	2.02	-2.39	4.41	2.70	3.87	4.42	5.79	0.31	1.48	2.03	3.40
10/30/2012 2:18	1.90	-2.44	4.34	2.65	3.81	4.34	5.69	0.21	1.37	1.90	3.25
10/30/2012 2:24	1.76	-2.48	4.24	2.59	3.72	4.25	5.56	0.11	1.24	1.77	3.08
10/30/2012 2:30	1.64	-2.53	4.17	2.55	3.66	4.17	5.47	0.02	1.13	1.64	2.94
10/30/2012 2:36	1.53	-2.56	4.09	2.50	3.59	4.10	5.37	-0.06	1.03	1.54	2.81
10/30/2012 2:42	1.43	-2.59	4.02	2.46	3.53	4.02	5.27	-0.13	0.94	1.43	2.68
10/30/2012 2:48	1.30	-2.61	3.91	2.39	3.43	3.92	5.13	-0.22	0.82	1.31	2.52
10/30/2012 2:54	1.18	-2.62	3.80	2.33	3.34	3.81	4.99	-0.29	0.72	1.19	2.37
10/30/2012 3:00	1.10	-2.63	3.73	2.28	3.27	3.73	4.89	-0.35	0.64	1.10	2.26
10/30/2012 3:06	1.02	-2.62	3.64	2.22	3.19	3.64	4.77	-0.40	0.57	1.02	2.15
10/30/2012 3:12	0.98	-2.61	3.59	2.19	3.15	3.59	4.71	-0.42	0.54	0.98	2.10
10/30/2012 3:18	0.91	-2.59	3.50	2.14	3.07	3.51	4.59	-0.45	0.48	0.92	2.00
10/30/2012 3:24	0.86	-2.56	3.42	2.09	3.00	3.42	4.48	-0.47	0.44	0.86	1.92
10/30/2012 3:30	0.83	-2.52	3.35	2.05	2.94	3.36	4.40	-0.47	0.42	0.84	1.88
10/30/2012 3:36	0.83	-2.47	3.30	2.02	2.90	3.31	4.33	-0.45	0.43	0.84	1.86
10/30/2012 3:42	0.86	-2.41	3.27	2.00	2.87	3.28	4.29	-0.41	0.46	0.87	1.88
10/30/2012 3:48	0.89	-2.34	3.23	1.98	2.84	3.24	4.24	-0.36	0.50	0.90	1.90
10/30/2012 3:54	0.94	-2.27	3.21	1.96	2.81	3.21	4.21	-0.31	0.54	0.94	1.94

Water Level Obtained from NOAA Gage at Battery during Hurricane Sandy				Scaling factor applied for each time step on Measure-Predicted				Final stillwater elevations scaled for various storm events (feet-NAVD)			
Date Time (LST/LDT)	Water Level (FT NAVD)	Pred Tide, FT NAVD	Meas-Pred	10yr surge	50yr surge	100yr surge	500yr surge	10yr WL	50yr WL	100yr WL	500yr WL
10/30/2012 4:00	1.02	-2.18	3.20	1.96	2.81	3.20	4.19	-0.22	0.63	1.02	2.01
10/30/2012 4:06	1.09	-2.09	3.18	1.95	2.79	3.19	4.18	-0.14	0.70	1.10	2.09
10/30/2012 4:12	1.22	-1.99	3.21	1.96	2.81	3.21	4.21	-0.03	0.82	1.22	2.22
10/30/2012 4:18	1.27	-1.88	3.15	1.93	2.77	3.16	4.14	0.05	0.89	1.28	2.26
10/30/2012 4:24	1.36	-1.77	3.13	1.92	2.75	3.14	4.11	0.15	0.98	1.37	2.34
10/30/2012 4:30	1.43	-1.65	3.08	1.88	2.70	3.08	4.04	0.23	1.05	1.43	2.39
10/30/2012 4:36	1.53	-1.53	3.06	1.87	2.68	3.06	4.01	0.34	1.15	1.53	2.48
10/30/2012 4:42	1.63	-1.4	3.03	1.85	2.66	3.04	3.98	0.45	1.26	1.64	2.58
10/30/2012 4:48	1.75	-1.27	3.02	1.85	2.65	3.03	3.97	0.58	1.38	1.76	2.70
10/30/2012 4:54	1.89	-1.14	3.03	1.85	2.66	3.03	3.97	0.71	1.52	1.89	2.83
10/30/2012 5:00	2.03	-1	3.03	1.85	2.66	3.04	3.98	0.85	1.66	2.04	2.98
10/30/2012 5:06	2.19	-0.86	3.05	1.87	2.68	3.06	4.00	1.01	1.82	2.20	3.14
10/30/2012 5:12	2.35	-0.72	3.07	1.88	2.70	3.08	4.03	1.16	1.98	2.36	3.31
10/30/2012 5:18	2.51	-0.58	3.09	1.89	2.71	3.09	4.05	1.31	2.13	2.51	3.47
10/30/2012 5:24	2.67	-0.45	3.12	1.91	2.74	3.12	4.09	1.46	2.29	2.67	3.64
10/30/2012 5:30	2.80	-0.31	3.11	1.90	2.73	3.11	4.07	1.59	2.42	2.80	3.76
10/30/2012 5:36	2.93	-0.17	3.10	1.90	2.72	3.11	4.07	1.73	2.55	2.94	3.90
10/30/2012 5:42	3.10	-0.03	3.13	1.91	2.74	3.13	4.10	1.88	2.71	3.10	4.07
10/30/2012 5:48	3.22	0.1	3.12	1.91	2.74	3.13	4.10	2.01	2.84	3.23	4.20
10/30/2012 5:54	3.34	0.23	3.11	1.90	2.73	3.11	4.08	2.13	2.96	3.34	4.31
10/30/2012 6:00	3.44	0.36	3.08	1.88	2.70	3.08	4.03	2.24	3.06	3.44	4.39
10/30/2012 6:06	3.50	0.49	3.01	1.84	2.64	3.01	3.95	2.33	3.13	3.50	4.44
10/30/2012 6:12	3.62	0.61	3.01	1.84	2.64	3.02	3.95	2.45	3.25	3.63	4.56
10/30/2012 6:18	3.72	0.73	2.99	1.83	2.63	3.00	3.93	2.56	3.36	3.73	4.66
10/30/2012 6:24	3.76	0.85	2.91	1.78	2.56	2.92	3.82	2.63	3.41	3.77	4.67
10/30/2012 6:30	3.84	0.96	2.88	1.76	2.53	2.89	3.78	2.72	3.49	3.85	4.74
10/30/2012 6:36	3.92	1.07	2.85	1.74	2.50	2.86	3.74	2.81	3.57	3.93	4.81
10/30/2012 6:42	3.97	1.18	2.79	1.71	2.45	2.80	3.66	2.89	3.63	3.98	4.84
10/30/2012 6:48	4.03	1.29	2.74	1.67	2.40	2.74	3.59	2.96	3.69	4.03	4.88
10/30/2012 6:54	4.09	1.39	2.70	1.65	2.37	2.70	3.54	3.04	3.76	4.09	4.93
10/30/2012 7:00	4.15	1.48	2.67	1.63	2.34	2.67	3.50	3.11	3.82	4.15	4.98
10/30/2012 7:06	4.20	1.58	2.62	1.60	2.30	2.62	3.44	3.18	3.88	4.20	5.02
10/30/2012 7:12	4.27	1.67	2.60	1.59	2.28	2.60	3.40	3.26	3.95	4.27	5.07
10/30/2012 7:18	4.30	1.75	2.55	1.56	2.24	2.55	3.34	3.31	3.99	4.30	5.09
10/30/2012 7:24	4.31	1.83	2.48	1.52	2.18	2.49	3.26	3.35	4.01	4.32	5.09
10/30/2012 7:30	4.31	1.91	2.40	1.47	2.11	2.41	3.15	3.38	4.02	4.32	5.06
10/30/2012 7:36	4.32	1.99	2.33	1.43	2.05	2.34	3.06	3.42	4.04	4.33	5.05
10/30/2012 7:42	4.34	2.06	2.28	1.40	2.00	2.29	2.99	3.46	4.06	4.35	5.05
10/30/2012 7:48	4.34	2.12	2.22	1.36	1.95	2.22	2.91	3.48	4.07	4.34	5.03
10/30/2012 7:54	4.37	2.18	2.19	1.34	1.92	2.19	2.87	3.52	4.10	4.37	5.05

Water Level Obtained from NOAA Gage at Battery during Hurricane Sandy				Scaling factor applied for each time step on Measure-Predicted				Final stillwater elevations scaled for various storm events (feet-NAVD)			
Date Time (LST/LDT)	Water Level (FT NAVD)	Pred Tide, FT NAVD	Meas-Pred	10yr surge	50yr surge	100yr surge	500yr surge	10yr WL	50yr WL	100yr WL	500yr WL
10/30/2012 8:00	4.38	2.24	2.14	1.31	1.88	2.14	2.80	3.55	4.12	4.38	5.04
10/30/2012 8:06	4.38	2.3	2.08	1.27	1.82	2.08	2.73	3.57	4.12	4.38	5.03
10/30/2012 8:12	4.39	2.34	2.05	1.25	1.80	2.05	2.68	3.59	4.14	4.39	5.02
10/30/2012 8:18	4.38	2.39	1.99	1.22	1.75	1.99	2.61	3.61	4.14	4.38	5.00
10/30/2012 8:24	4.37	2.43	1.94	1.19	1.71	1.95	2.55	3.62	4.14	4.38	4.98
10/30/2012 8:30	4.40	2.46	1.94	1.18	1.70	1.94	2.54	3.64	4.16	4.40	5.00
10/30/2012 8:36	4.43	2.49	1.94	1.19	1.70	1.95	2.55	3.68	4.19	4.44	5.04
10/30/2012 8:42	4.51	2.52	1.99	1.22	1.74	1.99	2.61	3.74	4.26	4.51	5.13
10/30/2012 8:48	4.55	2.54	2.01	1.23	1.76	2.01	2.63	3.77	4.30	4.55	5.17
10/30/2012 8:54	4.56	2.55	2.01	1.23	1.76	2.01	2.64	3.78	4.31	4.56	5.19
10/30/2012 9:00	4.53	2.56	1.97	1.21	1.73	1.97	2.59	3.77	4.29	4.53	5.15
10/30/2012 9:06	4.49	2.56	1.93	1.18	1.69	1.93	2.53	3.74	4.25	4.49	5.09
10/30/2012 9:12	4.46	2.56	1.90	1.16	1.67	1.91	2.50	3.72	4.23	4.47	5.06
10/30/2012 9:18	4.48	2.55	1.93	1.18	1.70	1.94	2.53	3.73	4.25	4.49	5.08
10/30/2012 9:24	4.48	2.54	1.94	1.19	1.70	1.95	2.55	3.73	4.24	4.49	5.09
10/30/2012 9:30	4.48	2.52	1.96	1.20	1.72	1.96	2.57	3.72	4.24	4.48	5.09
10/30/2012 9:36	4.48	2.49	1.99	1.22	1.74	1.99	2.61	3.71	4.23	4.48	5.10
10/30/2012 9:42	4.52	2.46	2.06	1.26	1.81	2.07	2.71	3.72	4.27	4.53	5.17
10/30/2012 9:48	4.58	2.42	2.16	1.32	1.90	2.16	2.83	3.74	4.32	4.58	5.25
10/30/2012 9:54	4.61	2.38	2.23	1.36	1.95	2.23	2.92	3.74	4.33	4.61	5.30
10/30/2012 10:00	4.63	2.33	2.30	1.41	2.02	2.31	3.02	3.74	4.35	4.64	5.35
10/30/2012 10:06	4.67	2.27	2.40	1.47	2.11	2.40	3.15	3.74	4.38	4.67	5.42
10/30/2012 10:12	4.71	2.2	2.51	1.53	2.20	2.51	3.29	3.73	4.40	4.71	5.49
10/30/2012 10:18	4.70	2.13	2.57	1.57	2.25	2.57	3.37	3.70	4.38	4.70	5.50
10/30/2012 10:24	4.65	2.06	2.59	1.58	2.27	2.59	3.40	3.64	4.33	4.65	5.46
10/30/2012 10:30	4.62	1.98	2.64	1.62	2.32	2.65	3.47	3.60	4.30	4.63	5.45
10/30/2012 10:36	4.57	1.89	2.68	1.64	2.35	2.68	3.51	3.53	4.24	4.57	5.40
10/30/2012 10:42	4.48	1.8	2.68	1.64	2.35	2.68	3.51	3.44	4.15	4.48	5.31
10/30/2012 10:48	4.36	1.7	2.66	1.63	2.33	2.66	3.49	3.33	4.03	4.36	5.19
10/30/2012 10:54	4.24	1.6	2.64	1.61	2.32	2.64	3.46	3.21	3.92	4.24	5.06
10/30/2012 11:00	4.10	1.5	2.60	1.59	2.29	2.61	3.42	3.09	3.79	4.11	4.92
10/30/2012 11:06	4.02	1.39	2.63	1.61	2.31	2.63	3.45	3.00	3.70	4.02	4.84
10/30/2012 11:12	3.92	1.27	2.65	1.62	2.32	2.65	3.47	2.89	3.59	3.92	4.74
10/30/2012 11:18	3.84	1.16	2.68	1.64	2.35	2.68	3.52	2.80	3.51	3.84	4.68
10/30/2012 11:24	3.75	1.04	2.71	1.66	2.38	2.71	3.56	2.70	3.42	3.75	4.60
10/30/2012 11:30	3.63	0.92	2.71	1.66	2.38	2.72	3.56	2.58	3.30	3.64	4.48
10/30/2012 11:36	3.50	0.8	2.70	1.65	2.37	2.71	3.54	2.45	3.17	3.51	4.34
10/30/2012 11:42	3.40	0.68	2.72	1.67	2.39	2.73	3.57	2.35	3.07	3.41	4.25
10/30/2012 11:48	3.29	0.56	2.73	1.67	2.40	2.74	3.59	2.23	2.96	3.30	4.15
10/30/2012 11:54	3.21	0.44	2.77	1.69	2.43	2.77	3.63	2.13	2.87	3.21	4.07

Water Level Obtained from NOAA Gage at Battery during Hurricane Sandy				Scaling factor applied for each time step on Measure-Predicted				Final stillwater elevations scaled for various storm events (feet-NAVD)			
Date Time (LST/LDT)	Water Level (FT NAVD)	Pred Tide, FT NAVD	Meas-Pred	10yr surge	50yr surge	100yr surge	500yr surge	10yr WL	50yr WL	100yr WL	500yr WL
10/30/2012 12:00	3.06	0.32	2.74	1.67	2.40	2.74	3.59	1.99	2.72	3.06	3.91
10/30/2012 12:06	2.87	0.2	2.67	1.63	2.34	2.67	3.50	1.83	2.54	2.87	3.70
10/30/2012 12:12	2.71	0.09	2.62	1.60	2.30	2.62	3.44	1.69	2.39	2.71	3.53
10/30/2012 12:18	2.51	-0.03	2.54	1.56	2.23	2.55	3.34	1.53	2.20	2.52	3.31
10/30/2012 12:24	2.39	-0.14	2.53	1.54	2.22	2.53	3.31	1.40	2.08	2.39	3.17
10/30/2012 12:30	2.25	-0.26	2.51	1.53	2.20	2.51	3.29	1.27	1.94	2.25	3.03
10/30/2012 12:36	2.12	-0.37	2.49	1.52	2.18	2.49	3.27	1.15	1.81	2.12	2.90
10/30/2012 12:42	1.96	-0.47	2.43	1.49	2.13	2.44	3.19	1.02	1.66	1.97	2.72
10/30/2012 12:48	1.82	-0.58	2.40	1.47	2.10	2.40	3.15	0.89	1.52	1.82	2.57
10/30/2012 12:54	1.66	-0.69	2.35	1.44	2.07	2.36	3.09	0.75	1.38	1.67	2.40
10/30/2012 13:00	1.51	-0.79	2.30	1.41	2.02	2.31	3.02	0.62	1.23	1.52	2.23
10/30/2012 13:06	1.33	-0.89	2.22	1.36	1.95	2.23	2.92	0.47	1.06	1.34	2.03
10/30/2012 13:12	1.18	-0.99	2.17	1.33	1.91	2.18	2.85	0.34	0.92	1.19	1.86
10/30/2012 13:18	1.04	-1.09	2.13	1.30	1.87	2.13	2.79	0.21	0.78	1.04	1.70
10/30/2012 13:24	0.91	-1.19	2.10	1.28	1.84	2.10	2.75	0.09	0.65	0.91	1.56
10/30/2012 13:30	0.79	-1.28	2.07	1.26	1.81	2.07	2.71	-0.02	0.53	0.79	1.43
10/30/2012 13:36	0.65	-1.38	2.03	1.24	1.78	2.03	2.66	-0.14	0.40	0.65	1.28
10/30/2012 13:42	0.56	-1.47	2.03	1.24	1.78	2.03	2.66	-0.23	0.31	0.56	1.19
10/30/2012 13:48	0.45	-1.56	2.01	1.23	1.77	2.02	2.64	-0.33	0.21	0.46	1.08
10/30/2012 13:54	0.32	-1.65	1.97	1.20	1.72	1.97	2.58	-0.45	0.07	0.32	0.93
10/30/2012 14:00	0.18	-1.74	1.92	1.18	1.69	1.93	2.52	-0.56	-0.05	0.19	0.78
10/30/2012 14:06	0.06	-1.83	1.89	1.15	1.66	1.89	2.47	-0.68	-0.17	0.06	0.64
10/30/2012 14:12	-0.05	-1.92	1.87	1.14	1.64	1.87	2.45	-0.78	-0.28	-0.05	0.53
10/30/2012 14:18	-0.16	-2	1.84	1.12	1.61	1.84	2.41	-0.88	-0.39	-0.16	0.41
10/30/2012 14:24	-0.28	-2.08	1.80	1.10	1.58	1.80	2.36	-0.98	-0.50	-0.28	0.28
10/30/2012 14:30	-0.39	-2.16	1.77	1.08	1.55	1.77	2.32	-1.08	-0.61	-0.39	0.16
10/30/2012 14:36	-0.47	-2.24	1.77	1.08	1.55	1.77	2.32	-1.16	-0.69	-0.47	0.08
10/30/2012 14:42	-0.57	-2.31	1.74	1.07	1.53	1.75	2.29	-1.24	-0.78	-0.56	-0.02
10/30/2012 14:48	-0.67	-2.38	1.71	1.05	1.50	1.72	2.25	-1.33	-0.88	-0.66	-0.13
10/30/2012 14:54	-0.78	-2.44	1.66	1.02	1.46	1.66	2.18	-1.42	-0.98	-0.78	-0.26
10/30/2012 15:00	-0.89	-2.5	1.61	0.99	1.42	1.62	2.12	-1.51	-1.08	-0.88	-0.38
10/30/2012 15:06	-0.95	-2.55	1.60	0.98	1.41	1.60	2.10	-1.57	-1.14	-0.95	-0.45
10/30/2012 15:12	-1.01	-2.59	1.58	0.97	1.39	1.58	2.07	-1.62	-1.20	-1.01	-0.52
10/30/2012 15:18	-1.08	-2.63	1.55	0.95	1.36	1.55	2.03	-1.68	-1.27	-1.08	-0.60
10/30/2012 15:24	-1.13	-2.66	1.54	0.94	1.35	1.54	2.01	-1.72	-1.31	-1.12	-0.65
10/30/2012 15:30	-1.17	-2.68	1.51	0.92	1.33	1.51	1.98	-1.76	-1.35	-1.17	-0.70
10/30/2012 15:36	-1.20	-2.69	1.49	0.91	1.31	1.49	1.96	-1.78	-1.38	-1.20	-0.73
10/30/2012 15:42	-1.21	-2.69	1.48	0.90	1.30	1.48	1.94	-1.79	-1.39	-1.21	-0.75
10/30/2012 15:48	-1.24	-2.68	1.44	0.88	1.27	1.45	1.89	-1.80	-1.41	-1.23	-0.79
10/30/2012 15:54	-1.25	-2.67	1.42	0.87	1.24	1.42	1.86	-1.80	-1.43	-1.25	-0.81

Water Level Obtained from NOAA Gage at Battery during Hurricane Sandy				Scaling factor applied for each time step on Measure-Predicted				Final stillwater elevations scaled for various storm events (feet-NAVD)			
Date Time (LST/LDT)	Water Level (FT NAVD)	Pred Tide, FT NAVD	Meas-Pred	10yr surge	50yr surge	100yr surge	500yr surge	10yr WL	50yr WL	100yr WL	500yr WL
10/30/2012 16:00	-1.27	-2.64	1.37	0.84	1.21	1.38	1.80	-1.80	-1.43	-1.26	-0.84
10/30/2012 16:06	-1.27	-2.61	1.34	0.82	1.18	1.34	1.76	-1.79	-1.43	-1.27	-0.85
10/30/2012 16:12	-1.26	-2.56	1.30	0.80	1.14	1.31	1.71	-1.76	-1.42	-1.25	-0.85
10/30/2012 16:18	-1.25	-2.51	1.26	0.77	1.11	1.27	1.66	-1.74	-1.40	-1.24	-0.85
10/30/2012 16:24	-1.25	-2.45	1.20	0.73	1.05	1.20	1.57	-1.72	-1.40	-1.25	-0.88
10/30/2012 16:30	-1.20	-2.38	1.18	0.72	1.03	1.18	1.54	-1.66	-1.35	-1.20	-0.84
10/30/2012 16:36	-1.14	-2.3	1.16	0.71	1.02	1.16	1.52	-1.59	-1.28	-1.14	-0.78
10/30/2012 16:42	-1.08	-2.22	1.14	0.70	1.00	1.15	1.50	-1.52	-1.22	-1.07	-0.72
10/30/2012 16:48	-0.97	-2.13	1.16	0.71	1.01	1.16	1.52	-1.42	-1.12	-0.97	-0.61
10/30/2012 16:54	-0.85	-2.03	1.18	0.72	1.04	1.18	1.55	-1.31	-0.99	-0.85	-0.48
10/30/2012 17:00	-0.76	-1.93	1.18	0.72	1.03	1.18	1.54	-1.21	-0.90	-0.75	-0.39
10/30/2012 17:06	-0.65	-1.82	1.17	0.72	1.03	1.18	1.54	-1.10	-0.79	-0.64	-0.28
10/30/2012 17:12	-0.52	-1.71	1.20	0.73	1.05	1.20	1.57	-0.98	-0.66	-0.51	-0.14
10/30/2012 17:18	-0.37	-1.59	1.22	0.75	1.07	1.23	1.60	-0.84	-0.52	-0.36	0.01
10/30/2012 17:24	-0.20	-1.48	1.28	0.78	1.12	1.28	1.68	-0.70	-0.36	-0.20	0.20
10/30/2012 17:30	-0.04	-1.36	1.32	0.81	1.16	1.32	1.73	-0.55	-0.20	-0.04	0.37
10/30/2012 17:36	0.11	-1.24	1.35	0.83	1.19	1.35	1.77	-0.41	-0.05	0.11	0.53
10/30/2012 17:42	0.27	-1.11	1.38	0.84	1.21	1.38	1.81	-0.27	0.10	0.27	0.70
10/30/2012 17:48	0.43	-0.99	1.42	0.87	1.24	1.42	1.86	-0.12	0.25	0.43	0.87
10/30/2012 17:54	0.59	-0.87	1.46	0.89	1.28	1.46	1.92	0.02	0.41	0.59	1.05
10/30/2012 18:00	0.77	-0.75	1.52	0.93	1.33	1.52	1.99	0.18	0.58	0.77	1.24
10/30/2012 18:06	0.94	-0.62	1.56	0.95	1.36	1.56	2.04	0.33	0.74	0.94	1.42
10/30/2012 18:12	1.13	-0.5	1.63	0.99	1.43	1.63	2.13	0.49	0.93	1.13	1.63
10/30/2012 18:18	1.31	-0.38	1.69	1.03	1.48	1.69	2.21	0.65	1.10	1.31	1.83
10/30/2012 18:24	1.47	-0.27	1.74	1.07	1.53	1.75	2.29	0.80	1.26	1.48	2.02
10/30/2012 18:30	1.63	-0.15	1.78	1.09	1.56	1.78	2.33	0.94	1.41	1.63	2.18
10/30/2012 18:36	1.78	-0.04	1.82	1.11	1.59	1.82	2.38	1.07	1.55	1.78	2.34
10/30/2012 18:42	1.94	0.07	1.87	1.14	1.64	1.87	2.45	1.21	1.71	1.94	2.52
10/30/2012 18:48	2.11	0.18	1.93	1.18	1.69	1.93	2.53	1.36	1.87	2.11	2.71
10/30/2012 18:54	2.25	0.29	1.96	1.20	1.72	1.96	2.57	1.49	2.01	2.25	2.86
10/30/2012 19:00	2.36	0.39	1.97	1.20	1.73	1.97	2.58	1.59	2.12	2.36	2.97
10/30/2012 19:06	2.48	0.49	1.99	1.22	1.75	2.00	2.62	1.71	2.24	2.49	3.11
10/30/2012 19:12	2.61	0.59	2.02	1.23	1.77	2.02	2.64	1.82	2.36	2.61	3.23
10/30/2012 19:18	2.72	0.68	2.04	1.25	1.79	2.05	2.68	1.93	2.47	2.73	3.36
10/30/2012 19:24	2.80	0.77	2.03	1.24	1.78	2.04	2.67	2.01	2.55	2.81	3.44
10/30/2012 19:30	2.91	0.86	2.05	1.25	1.80	2.05	2.69	2.11	2.66	2.91	3.55
10/30/2012 19:36	2.99	0.95	2.04	1.25	1.79	2.04	2.67	2.20	2.74	2.99	3.62
10/30/2012 19:42	3.05	1.03	2.02	1.24	1.77	2.02	2.65	2.27	2.80	3.05	3.68
10/30/2012 19:48	3.10	1.11	1.99	1.22	1.74	1.99	2.61	2.33	2.85	3.10	3.72
10/30/2012 19:54	3.15	1.18	1.97	1.21	1.73	1.98	2.59	2.39	2.91	3.16	3.77

Water Level Obtained from NOAA Gage at Battery during Hurricane Sandy				Scaling factor applied for each time step on Measure-Predicted				Final stillwater elevations scaled for various storm events (feet-NAVD)			
Date Time (LST/LDT)	Water Level (FT NAVD)	Pred Tide, FT NAVD	Meas-Pred	10yr surge	50yr surge	100yr surge	500yr surge	10yr WL	50yr WL	100yr WL	500yr WL
10/30/2012 20:00	3.21	1.25	1.96	1.20	1.72	1.96	2.57	2.45	2.97	3.21	3.82
10/30/2012 20:06	3.22	1.32	1.90	1.16	1.67	1.91	2.50	2.48	2.99	3.23	3.82
10/30/2012 20:12	3.25	1.39	1.86	1.14	1.63	1.86	2.44	2.53	3.02	3.25	3.83
10/30/2012 20:18	3.25	1.45	1.80	1.10	1.58	1.80	2.36	2.55	3.03	3.25	3.81
10/30/2012 20:24	3.28	1.5	1.78	1.09	1.56	1.78	2.34	2.59	3.06	3.28	3.84
10/30/2012 20:30	3.30	1.56	1.74	1.07	1.53	1.75	2.29	2.63	3.09	3.31	3.85
10/30/2012 20:36	3.31	1.6	1.71	1.05	1.50	1.71	2.24	2.65	3.10	3.31	3.84
10/30/2012 20:42	3.31	1.65	1.66	1.01	1.45	1.66	2.17	2.66	3.10	3.31	3.82
10/30/2012 20:48	3.30	1.69	1.61	0.98	1.41	1.61	2.11	2.67	3.10	3.30	3.80
10/30/2012 20:54	3.30	1.72	1.58	0.96	1.38	1.58	2.07	2.68	3.10	3.30	3.79
10/30/2012 21:00	3.30	1.75	1.55	0.95	1.36	1.55	2.04	2.70	3.11	3.30	3.79
10/30/2012 21:06	3.32	1.78	1.54	0.94	1.35	1.55	2.02	2.72	3.13	3.33	3.80
10/30/2012 21:12	3.32	1.8	1.52	0.93	1.34	1.53	2.00	2.73	3.14	3.33	3.80
10/30/2012 21:18	3.32	1.82	1.50	0.92	1.32	1.50	1.97	2.74	3.14	3.32	3.79
10/30/2012 21:24	3.32	1.83	1.49	0.91	1.31	1.49	1.95	2.74	3.14	3.32	3.78
10/30/2012 21:30	3.29	1.83	1.46	0.90	1.28	1.47	1.92	2.73	3.11	3.30	3.75
10/30/2012 21:36	3.27	1.83	1.44	0.88	1.27	1.45	1.89	2.71	3.10	3.28	3.72
10/30/2012 21:42	3.24	1.82	1.42	0.87	1.24	1.42	1.86	2.69	3.06	3.24	3.68
10/30/2012 21:48	3.22	1.81	1.41	0.86	1.24	1.41	1.85	2.67	3.05	3.22	3.66
10/30/2012 21:54	3.20	1.79	1.41	0.86	1.24	1.41	1.85	2.65	3.03	3.20	3.64
10/30/2012 22:00	3.16	1.77	1.39	0.85	1.22	1.39	1.82	2.62	2.99	3.16	3.59
10/30/2012 22:06	3.11	1.74	1.37	0.84	1.20	1.37	1.80	2.58	2.94	3.11	3.54
10/30/2012 22:12	3.06	1.7	1.36	0.83	1.19	1.36	1.79	2.53	2.89	3.06	3.49
10/30/2012 22:18	3.00	1.66	1.34	0.82	1.18	1.34	1.76	2.48	2.84	3.00	3.42
10/30/2012 22:24	2.93	1.61	1.32	0.81	1.16	1.32	1.73	2.42	2.77	2.93	3.34
10/30/2012 22:30	2.86	1.56	1.30	0.79	1.14	1.30	1.70	2.35	2.70	2.86	3.26
10/30/2012 22:36	2.79	1.5	1.29	0.79	1.13	1.29	1.70	2.29	2.63	2.79	3.20
10/30/2012 22:42	2.73	1.43	1.30	0.79	1.14	1.30	1.70	2.22	2.57	2.73	3.13
10/30/2012 22:48	2.64	1.36	1.28	0.78	1.12	1.28	1.68	2.14	2.48	2.64	3.04
10/30/2012 22:54	2.55	1.28	1.27	0.78	1.11	1.27	1.67	2.06	2.39	2.55	2.95
10/30/2012 23:00	2.46	1.19	1.27	0.78	1.12	1.27	1.67	1.97	2.31	2.46	2.86
10/30/2012 23:06	2.36	1.11	1.25	0.76	1.09	1.25	1.63	1.87	2.20	2.36	2.74
10/30/2012 23:12	2.25	1.01	1.24	0.76	1.09	1.25	1.63	1.77	2.10	2.26	2.64
10/30/2012 23:18	2.14	0.91	1.23	0.75	1.08	1.23	1.62	1.66	1.99	2.14	2.53
10/30/2012 23:24	2.02	0.81	1.21	0.74	1.07	1.22	1.59	1.55	1.88	2.03	2.40
10/30/2012 23:30	1.91	0.71	1.20	0.74	1.06	1.21	1.58	1.45	1.77	1.92	2.29
10/30/2012 23:36	1.82	0.6	1.22	0.75	1.07	1.22	1.60	1.35	1.67	1.82	2.20
10/30/2012 23:42	1.73	0.49	1.24	0.76	1.08	1.24	1.62	1.25	1.57	1.73	2.11
10/30/2012 23:48	1.62	0.37	1.25	0.76	1.09	1.25	1.64	1.13	1.46	1.62	2.01
10/30/2012 23:54	1.50	0.26	1.24	0.76	1.09	1.25	1.63	1.02	1.35	1.51	1.89

Water Level Obtained from NOAA Gage at Battery during Hurricane Sandy				Scaling factor applied for each time step on Measure-Predicted				Final stillwater elevations scaled for various storm events (feet-NAVD)			
Date Time (LST/LDT)	Water Level (FT NAVD)	Pred Tide, FT NAVD	Meas-Pred	10yr surge	50yr surge	100yr surge	500yr surge	10yr WL	50yr WL	100yr WL	500yr WL
10/31/2012 0:00	1.42	0.14	1.28	0.78	1.12	1.28	1.68	0.92	1.26	1.42	1.82
10/31/2012 0:06	1.33	0.03	1.30	0.80	1.14	1.30	1.71	0.83	1.17	1.33	1.74
10/31/2012 0:12	1.24	-0.09	1.33	0.82	1.17	1.34	1.75	0.73	1.08	1.25	1.66
10/31/2012 0:18	1.15	-0.2	1.35	0.82	1.18	1.35	1.76	0.62	0.98	1.15	1.56
10/31/2012 0:24	1.05	-0.31	1.36	0.83	1.20	1.37	1.79	0.52	0.89	1.06	1.48
10/31/2012 0:30	0.95	-0.43	1.38	0.84	1.21	1.38	1.81	0.41	0.78	0.95	1.38
10/31/2012 0:36	0.86	-0.54	1.40	0.86	1.23	1.40	1.84	0.32	0.69	0.86	1.30
10/31/2012 0:42	0.76	-0.64	1.40	0.86	1.23	1.40	1.84	0.22	0.59	0.76	1.20
10/31/2012 0:48	0.68	-0.75	1.43	0.87	1.25	1.43	1.87	0.12	0.50	0.68	1.12
10/31/2012 0:54	0.62	-0.85	1.47	0.90	1.29	1.48	1.93	0.05	0.44	0.63	1.08
10/31/2012 1:00	0.58	-0.95	1.53	0.94	1.35	1.54	2.01	-0.01	0.40	0.59	1.06
10/31/2012 1:06	0.54	-1.05	1.59	0.97	1.40	1.59	2.09	-0.08	0.35	0.54	1.04
10/31/2012 1:12	0.49	-1.14	1.63	1.00	1.43	1.63	2.14	-0.14	0.29	0.49	1.00
10/31/2012 1:18	0.45	-1.23	1.68	1.03	1.47	1.68	2.20	-0.20	0.24	0.45	0.97
10/31/2012 1:24	0.39	-1.32	1.71	1.05	1.50	1.72	2.25	-0.27	0.18	0.40	0.93
10/31/2012 1:30	0.32	-1.4	1.72	1.05	1.51	1.73	2.26	-0.35	0.11	0.33	0.86
10/31/2012 1:36	0.25	-1.48	1.73	1.06	1.52	1.73	2.27	-0.42	0.04	0.25	0.79
10/31/2012 1:42	0.17	-1.56	1.73	1.06	1.52	1.73	2.27	-0.50	-0.04	0.17	0.71
10/31/2012 1:48	0.10	-1.64	1.74	1.06	1.53	1.74	2.28	-0.58	-0.11	0.10	0.64
10/31/2012 1:54	0.02	-1.71	1.73	1.06	1.52	1.74	2.27	-0.65	-0.19	0.03	0.56
10/31/2012 2:00	-0.05	-1.79	1.74	1.06	1.53	1.74	2.28	-0.73	-0.26	-0.05	0.49
10/31/2012 2:06	-0.13	-1.85	1.72	1.05	1.51	1.72	2.26	-0.80	-0.34	-0.13	0.41
10/31/2012 2:12	-0.20	-1.92	1.72	1.05	1.51	1.72	2.26	-0.87	-0.41	-0.20	0.34
10/31/2012 2:18	-0.27	-1.99	1.72	1.05	1.51	1.73	2.26	-0.94	-0.48	-0.26	0.27
10/31/2012 2:24	-0.34	-2.05	1.72	1.05	1.51	1.72	2.25	-1.00	-0.54	-0.33	0.20
10/31/2012 2:30	-0.42	-2.11	1.69	1.03	1.48	1.69	2.21	-1.08	-0.63	-0.42	0.10
10/31/2012 2:36	-0.50	-2.17	1.67	1.02	1.46	1.67	2.19	-1.15	-0.71	-0.50	0.02
10/31/2012 2:42	-0.56	-2.22	1.66	1.02	1.46	1.66	2.18	-1.20	-0.76	-0.56	-0.04
10/31/2012 2:48	-0.62	-2.27	1.65	1.01	1.45	1.66	2.17	-1.26	-0.82	-0.61	-0.10
10/31/2012 2:54	-0.69	-2.32	1.63	1.00	1.43	1.63	2.14	-1.32	-0.89	-0.69	-0.18
10/31/2012 3:00	-0.74	-2.36	1.62	0.99	1.42	1.62	2.13	-1.37	-0.94	-0.74	-0.23
10/31/2012 3:06	-0.80	-2.4	1.60	0.98	1.41	1.61	2.10	-1.42	-0.99	-0.79	-0.30
10/31/2012 3:12	-0.85	-2.43	1.58	0.97	1.39	1.59	2.08	-1.46	-1.04	-0.84	-0.35
10/31/2012 3:18	-0.90	-2.46	1.56	0.95	1.37	1.56	2.05	-1.51	-1.09	-0.90	-0.41
10/31/2012 3:24	-0.95	-2.48	1.53	0.94	1.34	1.53	2.01	-1.54	-1.14	-0.95	-0.47
10/31/2012 3:30	-1.00	-2.49	1.49	0.91	1.30	1.49	1.95	-1.58	-1.19	-1.00	-0.54
10/31/2012 3:36	-1.05	-2.5	1.45	0.89	1.28	1.46	1.91	-1.61	-1.22	-1.04	-0.59
10/31/2012 3:42	-1.09	-2.5	1.41	0.86	1.24	1.42	1.86	-1.64	-1.26	-1.08	-0.64
10/31/2012 3:48	-1.12	-2.49	1.37	0.84	1.20	1.37	1.80	-1.65	-1.29	-1.12	-0.69
10/31/2012 3:54	-1.13	-2.47	1.34	0.82	1.18	1.34	1.76	-1.65	-1.29	-1.13	-0.71

Water Level Obtained from NOAA Gage at Battery during Hurricane Sandy				Scaling factor applied for each time step on Measure-Predicted				Final stillwater elevations scaled for various storm events (feet-NAVD)			
Date Time (LST/LDT)	Water Level (FT NAVD)	Pred Tide, FT NAVD	Meas-Pred	10yr surge	50yr surge	100yr surge	500yr surge	10yr WL	50yr WL	100yr WL	500yr WL
10/31/2012 4:00	-1.13	-2.45	1.32	0.81	1.16	1.32	1.73	-1.64	-1.29	-1.13	-0.72
10/31/2012 4:06	-1.12	-2.41	1.29	0.79	1.13	1.29	1.69	-1.62	-1.28	-1.12	-0.72
10/31/2012 4:12	-1.09	-2.37	1.28	0.78	1.12	1.28	1.68	-1.59	-1.25	-1.09	-0.69
10/31/2012 4:18	-1.05	-2.32	1.27	0.78	1.12	1.28	1.67	-1.54	-1.20	-1.04	-0.65
10/31/2012 4:24	-0.98	-2.26	1.28	0.78	1.12	1.28	1.67	-1.48	-1.14	-0.98	-0.59
10/31/2012 4:30	-0.91	-2.19	1.28	0.78	1.12	1.28	1.68	-1.41	-1.07	-0.91	-0.51
10/31/2012 4:36	-0.85	-2.11	1.26	0.77	1.10	1.26	1.65	-1.34	-1.01	-0.85	-0.46
10/31/2012 4:42	-0.79	-2.02	1.23	0.75	1.08	1.23	1.61	-1.27	-0.94	-0.79	-0.41
10/31/2012 4:48	-0.71	-1.92	1.22	0.74	1.07	1.22	1.59	-1.18	-0.85	-0.70	-0.33
10/31/2012 4:54	-0.63	-1.82	1.19	0.73	1.05	1.20	1.57	-1.09	-0.77	-0.62	-0.25
10/31/2012 5:00	-0.55	-1.71	1.17	0.71	1.02	1.17	1.53	-1.00	-0.69	-0.54	-0.18
10/31/2012 5:06	-0.45	-1.6	1.15	0.71	1.01	1.16	1.51	-0.89	-0.59	-0.44	-0.09
10/31/2012 5:12	-0.34	-1.47	1.14	0.69	1.00	1.14	1.49	-0.78	-0.47	-0.33	0.02
10/31/2012 5:18	-0.21	-1.35	1.14	0.70	1.00	1.15	1.50	-0.65	-0.35	-0.20	0.15
10/31/2012 5:24	-0.06	-1.22	1.16	0.71	1.02	1.16	1.52	-0.51	-0.20	-0.06	0.30
10/31/2012 5:30	0.08	-1.08	1.16	0.71	1.02	1.16	1.52	-0.37	-0.06	0.08	0.44
10/31/2012 5:36	0.23	-0.95	1.18	0.72	1.04	1.18	1.55	-0.23	0.09	0.23	0.60
10/31/2012 5:42	0.39	-0.81	1.20	0.73	1.05	1.20	1.57	-0.08	0.24	0.39	0.76
10/31/2012 5:48	0.55	-0.67	1.22	0.75	1.07	1.22	1.60	0.08	0.40	0.55	0.93
10/31/2012 5:54	0.69	-0.53	1.22	0.75	1.07	1.22	1.60	0.22	0.54	0.69	1.07
10/31/2012 6:00	0.83	-0.39	1.22	0.75	1.07	1.22	1.60	0.36	0.68	0.83	1.21
10/31/2012 6:06	0.98	-0.25	1.23	0.75	1.08	1.24	1.62	0.50	0.83	0.99	1.37
10/31/2012 6:12	1.14	-0.11	1.25	0.76	1.09	1.25	1.63	0.65	0.98	1.14	1.52
10/31/2012 6:18	1.31	0.03	1.28	0.78	1.12	1.28	1.67	0.81	1.15	1.31	1.70
10/31/2012 6:24	1.48	0.16	1.32	0.81	1.16	1.32	1.73	0.97	1.32	1.48	1.89
10/31/2012 6:30	1.64	0.29	1.35	0.82	1.18	1.35	1.77	1.11	1.47	1.64	2.06
10/31/2012 6:36	1.78	0.42	1.36	0.83	1.19	1.36	1.78	1.25	1.61	1.78	2.20
10/31/2012 6:42	1.91	0.55	1.36	0.83	1.20	1.37	1.79	1.38	1.75	1.92	2.34
10/31/2012 6:48	2.02	0.67	1.35	0.83	1.19	1.36	1.78	1.50	1.86	2.03	2.45
10/31/2012 6:54	2.14	0.79	1.35	0.83	1.18	1.35	1.77	1.62	1.97	2.14	2.56
10/31/2012 7:00	2.26	0.91	1.35	0.83	1.19	1.36	1.78	1.74	2.10	2.27	2.69
10/31/2012 7:06	2.37	1.02	1.35	0.82	1.18	1.35	1.76	1.84	2.20	2.37	2.78
10/31/2012 7:12	2.47	1.12	1.35	0.83	1.18	1.35	1.77	1.95	2.30	2.47	2.89
10/31/2012 7:18	2.56	1.23	1.33	0.81	1.17	1.33	1.74	2.04	2.40	2.56	2.97
10/31/2012 7:24	2.66	1.33	1.33	0.81	1.16	1.33	1.74	2.14	2.49	2.66	3.07
10/31/2012 7:30	2.77	1.42	1.35	0.83	1.18	1.35	1.77	2.25	2.60	2.77	3.19
10/31/2012 7:36	2.86	1.51	1.35	0.83	1.19	1.36	1.78	2.34	2.70	2.87	3.29
10/31/2012 7:42	2.94	1.6	1.34	0.82	1.18	1.35	1.76	2.42	2.78	2.95	3.36
10/31/2012 7:48	2.99	1.68	1.31	0.80	1.15	1.31	1.72	2.48	2.83	2.99	3.40
10/31/2012 7:54	3.05	1.76	1.29	0.79	1.13	1.29	1.69	2.55	2.89	3.05	3.45

Water Level Obtained from NOAA Gage at Battery during Hurricane Sandy				Scaling factor applied for each time step on Measure-Predicted				Final stillwater elevations scaled for various storm events (feet-NAVD)			
Date Time (LST/LDT)	Water Level (FT NAVD)	Pred Tide, FT NAVD	Meas-Pred	10yr surge	50yr surge	100yr surge	500yr surge	10yr WL	50yr WL	100yr WL	500yr WL
10/31/2012 8:00	3.07	1.83	1.24	0.76	1.09	1.25	1.63	2.59	2.92	3.08	3.46
10/31/2012 8:06	3.11	1.9	1.21	0.74	1.06	1.21	1.59	2.64	2.96	3.11	3.49
10/31/2012 8:12	3.14	1.96	1.18	0.72	1.03	1.18	1.54	2.68	2.99	3.14	3.50
10/31/2012 8:18	3.17	2.03	1.14	0.69	1.00	1.14	1.49	2.72	3.03	3.17	3.52
10/31/2012 8:24	3.22	2.08	1.14	0.69	1.00	1.14	1.49	2.77	3.08	3.22	3.57
10/31/2012 8:30	3.26	2.14	1.12	0.68	0.98	1.12	1.46	2.82	3.12	3.26	3.60
10/31/2012 8:36	3.29	2.18	1.11	0.68	0.97	1.11	1.45	2.86	3.15	3.29	3.63
10/31/2012 8:42	3.30	2.23	1.07	0.66	0.94	1.07	1.41	2.89	3.17	3.30	3.64
10/31/2012 8:48	3.32	2.27	1.05	0.64	0.92	1.05	1.38	2.91	3.19	3.32	3.65
10/31/2012 8:54	3.37	2.31	1.06	0.65	0.93	1.06	1.39	2.96	3.24	3.37	3.70
10/31/2012 9:00	3.39	2.34	1.05	0.64	0.92	1.05	1.37	2.98	3.26	3.39	3.71
10/31/2012 9:06	3.40	2.37	1.03	0.63	0.91	1.03	1.35	3.00	3.28	3.40	3.72
10/31/2012 9:12	3.41	2.39	1.02	0.62	0.89	1.02	1.34	3.01	3.28	3.41	3.73
10/31/2012 9:18	3.44	2.41	1.03	0.63	0.90	1.03	1.34	3.04	3.31	3.44	3.75
10/31/2012 9:24	3.44	2.42	1.02	0.63	0.90	1.02	1.34	3.05	3.32	3.44	3.76
10/31/2012 9:30	3.45	2.43	1.02	0.62	0.89	1.02	1.34	3.05	3.32	3.45	3.77
10/31/2012 9:36	3.47	2.44	1.03	0.63	0.90	1.03	1.34	3.07	3.34	3.47	3.78
10/31/2012 9:42	3.47	2.44	1.03	0.63	0.90	1.03	1.35	3.07	3.34	3.47	3.79
10/31/2012 9:48	3.47	2.44	1.03	0.63	0.90	1.03	1.35	3.07	3.34	3.47	3.79
10/31/2012 9:54	3.48	2.43	1.05	0.64	0.92	1.05	1.38	3.07	3.35	3.48	3.81
10/31/2012 10:00	3.47	2.41	1.06	0.65	0.93	1.06	1.39	3.06	3.34	3.47	3.80
10/31/2012 10:06	3.45	2.4	1.05	0.64	0.92	1.05	1.38	3.04	3.32	3.45	3.78
10/31/2012 10:12	3.42	2.37	1.05	0.64	0.92	1.05	1.38	3.01	3.29	3.42	3.75
10/31/2012 10:18	3.38	2.34	1.04	0.64	0.92	1.04	1.37	2.98	3.26	3.38	3.71
10/31/2012 10:24	3.35	2.31	1.04	0.63	0.91	1.04	1.36	2.94	3.22	3.35	3.67
10/31/2012 10:30	3.29	2.27	1.02	0.62	0.89	1.02	1.33	2.89	3.16	3.29	3.60
10/31/2012 10:36	3.24	2.22	1.02	0.62	0.89	1.02	1.34	2.84	3.11	3.24	3.56
10/31/2012 10:42	3.18	2.17	1.01	0.62	0.88	1.01	1.32	2.79	3.05	3.18	3.49
10/31/2012 10:48	3.14	2.11	1.03	0.63	0.91	1.03	1.36	2.74	3.02	3.14	3.47
10/31/2012 10:54	3.09	2.05	1.04	0.64	0.92	1.05	1.37	2.69	2.97	3.10	3.42
10/31/2012 11:00	3.04	1.98	1.06	0.65	0.93	1.06	1.39	2.63	2.91	3.04	3.37
10/31/2012 11:06	2.98	1.91	1.07	0.66	0.94	1.07	1.41	2.57	2.85	2.98	3.32
10/31/2012 11:12	2.90	1.83	1.07	0.66	0.94	1.08	1.41	2.49	2.77	2.91	3.24
10/31/2012 11:18	2.80	1.75	1.05	0.64	0.92	1.05	1.38	2.39	2.67	2.80	3.13
10/31/2012 11:24	2.69	1.66	1.03	0.63	0.91	1.04	1.36	2.29	2.57	2.70	3.02
10/31/2012 11:30	2.59	1.57	1.02	0.62	0.89	1.02	1.34	2.19	2.46	2.59	2.91
10/31/2012 11:36	2.50	1.47	1.03	0.63	0.90	1.03	1.35	2.10	2.37	2.50	2.82
10/31/2012 11:42	2.39	1.37	1.02	0.63	0.90	1.02	1.34	2.00	2.27	2.39	2.71
10/31/2012 11:48	2.29	1.26	1.03	0.63	0.91	1.03	1.36	1.89	2.17	2.29	2.62
10/31/2012 11:54	2.21	1.15	1.06	0.65	0.93	1.06	1.39	1.80	2.08	2.21	2.54

Water Level Obtained from NOAA Gage at Battery during Hurricane Sandy				Scaling factor applied for each time step on Measure-Predicted				Final stillwater elevations scaled for various storm events (feet-NAVD)			
Date Time (LST/LDT)	Water Level (FT NAVD)	Pred Tide, FT NAVD	Meas-Pred	10yr surge	50yr surge	100yr surge	500yr surge	10yr WL	50yr WL	100yr WL	500yr WL
10/31/2012 12:00	2.12	1.04	1.08	0.66	0.95	1.08	1.42	1.70	1.99	2.12	2.46
10/31/2012 12:06	2.01	0.92	1.09	0.67	0.96	1.09	1.43	1.59	1.88	2.01	2.35
10/31/2012 12:12	1.90	0.81	1.09	0.66	0.95	1.09	1.42	1.47	1.76	1.90	2.23
10/31/2012 12:18	1.78	0.69	1.09	0.67	0.95	1.09	1.43	1.36	1.64	1.78	2.12
10/31/2012 12:24	1.65	0.57	1.08	0.66	0.95	1.08	1.41	1.23	1.52	1.65	1.98
10/31/2012 12:30	1.51	0.45	1.06	0.65	0.93	1.06	1.39	1.10	1.38	1.51	1.84
10/31/2012 12:36	1.37	0.33	1.04	0.63	0.91	1.04	1.36	0.96	1.24	1.37	1.69
10/31/2012 12:42	1.22	0.21	1.01	0.62	0.88	1.01	1.32	0.83	1.09	1.22	1.53
10/31/2012 12:48	1.07	0.09	0.98	0.60	0.86	0.98	1.29	0.69	0.95	1.07	1.38
10/31/2012 12:54	0.92	-0.02	0.94	0.58	0.83	0.94	1.24	0.56	0.81	0.92	1.22
10/31/2012 13:00	0.77	-0.14	0.91	0.56	0.80	0.92	1.20	0.42	0.66	0.78	1.06
10/31/2012 13:06	0.63	-0.25	0.88	0.54	0.77	0.88	1.16	0.29	0.52	0.63	0.91
10/31/2012 13:12	0.50	-0.36	0.86	0.53	0.76	0.86	1.13	0.17	0.40	0.50	0.77
10/31/2012 13:18	0.38	-0.47	0.85	0.52	0.75	0.85	1.12	0.05	0.28	0.38	0.65
10/31/2012 13:24	0.25	-0.58	0.83	0.51	0.72	0.83	1.08	-0.07	0.14	0.25	0.50
10/31/2012 13:30	0.14	-0.68	0.82	0.50	0.72	0.82	1.08	-0.18	0.04	0.14	0.40
10/31/2012 13:36	0.03	-0.79	0.82	0.50	0.72	0.82	1.08	-0.29	-0.07	0.03	0.29
10/31/2012 13:42	-0.09	-0.89	0.80	0.49	0.70	0.80	1.05	-0.40	-0.19	-0.09	0.16
10/31/2012 13:48	-0.22	-0.98	0.76	0.46	0.67	0.76	1.00	-0.52	-0.31	-0.22	0.02
10/31/2012 13:54	-0.36	-1.08	0.72	0.44	0.63	0.72	0.94	-0.64	-0.45	-0.36	-0.14
10/31/2012 14:00	-0.49	-1.17	0.68	0.42	0.60	0.68	0.89	-0.75	-0.57	-0.49	-0.28
10/31/2012 14:06	-0.60	-1.26	0.66	0.41	0.58	0.66	0.87	-0.85	-0.68	-0.60	-0.39
10/31/2012 14:12	-0.70	-1.35	0.65	0.40	0.57	0.65	0.85	-0.95	-0.78	-0.70	-0.50
10/31/2012 14:18	-0.78	-1.44	0.66	0.40	0.58	0.66	0.86	-1.04	-0.86	-0.78	-0.58
10/31/2012 14:24	-0.85	-1.53	0.68	0.42	0.60	0.68	0.89	-1.11	-0.93	-0.85	-0.64
10/31/2012 14:30	-0.92	-1.61	0.69	0.42	0.60	0.69	0.90	-1.19	-1.01	-0.92	-0.71
10/31/2012 14:36	-0.96	-1.69	0.73	0.45	0.64	0.73	0.96	-1.24	-1.05	-0.96	-0.73
10/31/2012 14:42	-1.03	-1.77	0.74	0.45	0.65	0.74	0.97	-1.32	-1.12	-1.03	-0.80
10/31/2012 14:48	-1.10	-1.85	0.75	0.46	0.66	0.76	0.99	-1.39	-1.19	-1.09	-0.86
10/31/2012 14:54	-1.15	-1.93	0.79	0.48	0.69	0.79	1.03	-1.45	-1.24	-1.14	-0.90
10/31/2012 15:00	-1.21	-2.01	0.80	0.49	0.70	0.80	1.05	-1.52	-1.31	-1.21	-0.96
10/31/2012 15:06	-1.26	-2.08	0.82	0.50	0.72	0.82	1.07	-1.58	-1.36	-1.26	-1.01
10/31/2012 15:12	-1.31	-2.15	0.84	0.52	0.74	0.85	1.11	-1.63	-1.41	-1.30	-1.04
10/31/2012 15:18	-1.35	-2.21	0.87	0.53	0.76	0.87	1.13	-1.68	-1.45	-1.34	-1.08
10/31/2012 15:24	-1.38	-2.28	0.90	0.55	0.79	0.90	1.18	-1.73	-1.49	-1.38	-1.10
10/31/2012 15:30	-1.42	-2.34	0.92	0.56	0.81	0.92	1.21	-1.78	-1.53	-1.42	-1.13
10/31/2012 15:36	-1.46	-2.39	0.93	0.57	0.82	0.93	1.22	-1.82	-1.57	-1.46	-1.17
10/31/2012 15:42	-1.50	-2.44	0.94	0.58	0.83	0.94	1.23	-1.86	-1.61	-1.50	-1.21
10/31/2012 15:48	-1.54	-2.49	0.95	0.58	0.83	0.95	1.24	-1.91	-1.66	-1.54	-1.25
10/31/2012 15:54	-1.59	-2.52	0.93	0.57	0.82	0.93	1.22	-1.95	-1.70	-1.59	-1.30

Water Level Obtained from NOAA Gage at Battery during Hurricane Sandy				Scaling factor applied for each time step on Measure-Predicted				Final stillwater elevations scaled for various storm events (feet-NAVD)			
Date Time (LST/LDT)	Water Level (FT NAVD)	Pred Tide, FT NAVD	Meas-Pred	10yr surge	50yr surge	100yr surge	500yr surge	10yr WL	50yr WL	100yr WL	500yr WL
10/31/2012 16:00	-1.63	-2.55	0.92	0.56	0.80	0.92	1.20	-1.99	-1.75	-1.63	-1.35
10/31/2012 16:06	-1.68	-2.58	0.90	0.55	0.79	0.90	1.18	-2.03	-1.79	-1.68	-1.40
10/31/2012 16:12	-1.70	-2.59	0.89	0.55	0.78	0.90	1.17	-2.04	-1.81	-1.69	-1.42
10/31/2012 16:18	-1.70	-2.6	0.90	0.55	0.79	0.90	1.18	-2.05	-1.81	-1.70	-1.42
10/31/2012 16:24	-1.68	-2.6	0.92	0.56	0.81	0.92	1.21	-2.04	-1.79	-1.68	-1.39
10/31/2012 16:30	-1.66	-2.59	0.93	0.57	0.82	0.93	1.22	-2.02	-1.77	-1.66	-1.37
10/31/2012 16:36	-1.62	-2.57	0.95	0.58	0.83	0.95	1.25	-1.99	-1.74	-1.62	-1.32
10/31/2012 16:42	-1.58	-2.55	0.98	0.60	0.86	0.98	1.28	-1.95	-1.69	-1.57	-1.27
10/31/2012 16:48	-1.52	-2.51	0.99	0.60	0.87	0.99	1.30	-1.91	-1.64	-1.52	-1.21
10/31/2012 16:54	-1.44	-2.47	1.03	0.63	0.90	1.03	1.35	-1.84	-1.57	-1.44	-1.12
10/31/2012 17:00	-1.35	-2.41	1.06	0.65	0.93	1.06	1.39	-1.76	-1.48	-1.35	-1.02
10/31/2012 17:06	-1.27	-2.35	1.08	0.66	0.95	1.08	1.42	-1.69	-1.40	-1.27	-0.93
10/31/2012 17:12	-1.18	-2.28	1.11	0.68	0.97	1.11	1.45	-1.60	-1.31	-1.17	-0.83
10/31/2012 17:18	-1.08	-2.21	1.13	0.69	1.00	1.14	1.49	-1.52	-1.21	-1.07	-0.72
10/31/2012 17:24	-0.97	-2.12	1.16	0.71	1.01	1.16	1.52	-1.41	-1.11	-0.96	-0.60
10/31/2012 17:30	-0.86	-2.03	1.17	0.72	1.03	1.17	1.54	-1.31	-1.00	-0.86	-0.49
10/31/2012 17:36	-0.75	-1.93	1.19	0.72	1.04	1.19	1.55	-1.21	-0.89	-0.74	-0.38
10/31/2012 17:42	-0.64	-1.83	1.19	0.73	1.04	1.19	1.56	-1.10	-0.79	-0.64	-0.27
10/31/2012 17:48	-0.52	-1.72	1.20	0.73	1.05	1.20	1.57	-0.99	-0.67	-0.52	-0.15
10/31/2012 17:54	-0.41	-1.61	1.20	0.74	1.06	1.21	1.58	-0.87	-0.55	-0.40	-0.03
10/31/2012 18:00	-0.29	-1.5	1.22	0.74	1.07	1.22	1.59	-0.76	-0.43	-0.28	0.09
10/31/2012 18:06	-0.16	-1.38	1.22	0.75	1.07	1.22	1.60	-0.63	-0.31	-0.16	0.22
10/31/2012 18:12	-0.04	-1.26	1.22	0.75	1.07	1.23	1.61	-0.51	-0.19	-0.03	0.35
10/31/2012 18:18	0.11	-1.14	1.25	0.76	1.09	1.25	1.63	-0.38	-0.05	0.11	0.49
10/31/2012 18:24	0.23	-1.02	1.25	0.77	1.10	1.26	1.64	-0.25	0.08	0.24	0.62
10/31/2012 18:30	0.35	-0.9	1.25	0.76	1.10	1.25	1.64	-0.14	0.20	0.35	0.74
10/31/2012 18:36	0.45	-0.78	1.23	0.75	1.08	1.24	1.62	-0.03	0.30	0.46	0.84
10/31/2012 18:42	0.56	-0.66	1.22	0.75	1.07	1.23	1.61	0.09	0.41	0.57	0.95
10/31/2012 18:48	0.68	-0.54	1.22	0.75	1.07	1.22	1.60	0.21	0.53	0.68	1.06
10/31/2012 18:54	0.81	-0.42	1.23	0.75	1.08	1.24	1.62	0.33	0.66	0.82	1.20
10/31/2012 19:00	0.93	-0.31	1.24	0.76	1.09	1.24	1.63	0.45	0.78	0.93	1.32
10/31/2012 19:06	1.06	-0.2	1.26	0.77	1.11	1.27	1.66	0.57	0.91	1.07	1.46
10/31/2012 19:12	1.19	-0.09	1.28	0.79	1.13	1.29	1.68	0.70	1.04	1.20	1.59
10/31/2012 19:18	1.31	0.02	1.29	0.79	1.13	1.29	1.69	0.81	1.15	1.31	1.71
10/31/2012 19:24	1.40	0.12	1.28	0.78	1.12	1.28	1.68	0.90	1.24	1.40	1.80
10/31/2012 19:30	1.49	0.22	1.27	0.77	1.11	1.27	1.66	0.99	1.33	1.49	1.88
10/31/2012 19:36	1.56	0.32	1.24	0.76	1.09	1.24	1.63	1.08	1.41	1.56	1.95
10/31/2012 19:42	1.65	0.41	1.24	0.76	1.09	1.25	1.63	1.17	1.50	1.66	2.04
10/31/2012 19:48	1.73	0.51	1.22	0.75	1.07	1.22	1.60	1.26	1.58	1.73	2.11
10/31/2012 19:54	1.81	0.59	1.22	0.75	1.07	1.22	1.60	1.34	1.66	1.81	2.19

Water Level Obtained from NOAA Gage at Battery during Hurricane Sandy				Scaling factor applied for each time step on Measure-Predicted				Final stillwater elevations scaled for various storm events (feet-NAVD)			
Date Time (LST/LDT)	Water Level (FT NAVD)	Pred Tide, FT NAVD	Meas-Pred	10yr surge	50yr surge	100yr surge	500yr surge	10yr WL	50yr WL	100yr WL	500yr WL
10/31/2012 20:00	1.85	0.68	1.17	0.71	1.02	1.17	1.53	1.39	1.70	1.85	2.21
10/31/2012 20:06	1.89	0.76	1.13	0.69	0.99	1.14	1.49	1.45	1.75	1.90	2.25
10/31/2012 20:12	1.93	0.84	1.09	0.67	0.96	1.09	1.43	1.51	1.80	1.93	2.27
10/31/2012 20:18	1.98	0.91	1.07	0.65	0.94	1.07	1.40	1.56	1.85	1.98	2.31
10/31/2012 20:24	2.02	0.98	1.04	0.64	0.91	1.04	1.37	1.62	1.89	2.02	2.35
10/31/2012 20:30	2.07	1.05	1.02	0.62	0.89	1.02	1.33	1.67	1.94	2.07	2.38
10/31/2012 20:36	2.10	1.11	0.99	0.60	0.87	0.99	1.29	1.71	1.98	2.10	2.40
10/31/2012 20:42	2.12	1.17	0.95	0.58	0.84	0.95	1.25	1.75	2.01	2.12	2.42
10/31/2012 20:48	2.15	1.23	0.92	0.56	0.81	0.92	1.21	1.79	2.04	2.15	2.44
10/31/2012 20:54	2.19	1.28	0.91	0.55	0.79	0.91	1.19	1.83	2.07	2.19	2.47
10/31/2012 21:00	2.23	1.33	0.90	0.55	0.79	0.90	1.18	1.88	2.12	2.23	2.51
10/31/2012 21:06	2.26	1.38	0.88	0.54	0.77	0.88	1.15	1.92	2.15	2.26	2.53
10/31/2012 21:12	2.28	1.43	0.85	0.52	0.75	0.85	1.12	1.95	2.18	2.28	2.55
10/31/2012 21:18	2.30	1.47	0.83	0.51	0.73	0.83	1.09	1.98	2.20	2.30	2.56
10/31/2012 21:24	2.33	1.5	0.83	0.51	0.73	0.83	1.09	2.01	2.23	2.33	2.59
10/31/2012 21:30	2.37	1.53	0.84	0.52	0.74	0.84	1.10	2.05	2.27	2.37	2.63
10/31/2012 21:36	2.40	1.56	0.84	0.51	0.73	0.84	1.10	2.07	2.29	2.40	2.66
10/31/2012 21:42	2.41	1.59	0.82	0.50	0.72	0.82	1.07	2.09	2.31	2.41	2.66
10/31/2012 21:48	2.43	1.61	0.82	0.50	0.72	0.83	1.08	2.11	2.33	2.44	2.69
10/31/2012 21:54	2.46	1.62	0.84	0.52	0.74	0.85	1.11	2.14	2.36	2.47	2.73
10/31/2012 22:00	2.48	1.64	0.84	0.52	0.74	0.85	1.11	2.16	2.38	2.49	2.75
10/31/2012 22:06	2.48	1.64	0.84	0.51	0.73	0.84	1.10	2.15	2.37	2.48	2.74
10/31/2012 22:12	2.47	1.65	0.82	0.50	0.72	0.83	1.08	2.15	2.37	2.48	2.73
10/31/2012 22:18	2.47	1.65	0.82	0.50	0.72	0.83	1.08	2.15	2.37	2.48	2.73
10/31/2012 22:24	2.46	1.64	0.82	0.50	0.72	0.83	1.08	2.14	2.36	2.47	2.72
10/31/2012 22:30	2.46	1.63	0.83	0.51	0.73	0.83	1.09	2.14	2.36	2.46	2.72
10/31/2012 22:36	2.44	1.61	0.83	0.51	0.73	0.83	1.09	2.12	2.34	2.44	2.70
10/31/2012 22:42	2.41	1.59	0.82	0.50	0.72	0.82	1.08	2.09	2.31	2.41	2.67
10/31/2012 22:48	2.36	1.57	0.79	0.48	0.70	0.79	1.04	2.05	2.27	2.36	2.61
10/31/2012 22:54	2.32	1.53	0.79	0.48	0.69	0.79	1.04	2.01	2.22	2.32	2.57
10/31/2012 23:00	2.26	1.5	0.76	0.46	0.67	0.76	1.00	1.96	2.17	2.26	2.50
10/31/2012 23:06	2.21	1.45	0.76	0.46	0.66	0.76	0.99	1.91	2.11	2.21	2.44
10/31/2012 23:12	2.14	1.4	0.74	0.45	0.65	0.74	0.97	1.85	2.05	2.14	2.37
10/31/2012 23:18	2.09	1.35	0.74	0.45	0.65	0.74	0.97	1.80	2.00	2.09	2.32
10/31/2012 23:24	2.05	1.29	0.76	0.46	0.66	0.76	0.99	1.75	1.95	2.05	2.28
10/31/2012 23:30	2.00	1.22	0.78	0.48	0.68	0.78	1.02	1.70	1.90	2.00	2.24
10/31/2012 23:36	1.94	1.15	0.79	0.48	0.70	0.79	1.04	1.63	1.85	1.94	2.19
10/31/2012 23:42	1.88	1.07	0.81	0.50	0.71	0.81	1.06	1.57	1.78	1.88	2.13
10/31/2012 23:48	1.81	0.99	0.82	0.50	0.72	0.82	1.08	1.49	1.71	1.81	2.07

Water Level Obtained from NOAA Gage at Battery during Hurricane Sandy				Scaling factor applied for each time step on Measure-Predicted				Final stillwater elevations scaled for various storm events (feet-NAVD)			
Date Time (LST/LDT)	Water Level (FT NAVD)	Pred Tide, FT NAVD	Meas-Pred	10yr surge	50yr surge	100yr surge	500yr surge	10yr WL	50yr WL	100yr WL	500yr WL
10/31/2012 23:54	1.74	0.9	0.84	0.52	0.74	0.84	1.10	1.42	1.64	1.74	2.00