

**Table D-1. Back-to-Back Storms Analysis**

Back-to-Back 10-Year Storm Analysis													
SWMM Storage Node	Ground Elevation (ft)	Maximum Storage Capacity (ft3)	Initial Water Surface Elevation (ft)	Dead Storage Vol., Before Storm (ft3)	Available Net Storage Capacity, Before Storm (ft3)	Peak Water Surface Elevation (ft)	Peak Storage Vol., During Storm (ft3)	Peak Storage Vol. Minus Dead Storage, During Storm (ft3)	Final Water Surface Elevation (ft)	Vol. In Storage, After 48-hrs (ft3)	Vol. In Storage Minus Dead Storage, After 48-hrs (ft3)	Available Net Storage Recovered in 48 Hours (%)	Available Net Storage Used (%)
186	15.80	48,212,621	10.50	41,565,500	6,647,121	11.42	42,631,582	1,066,082	11.42	42,509,683	944,183	11%	16%
194	11.50	55,489,606	10.10	52,120,338	3,369,268	10.72	53,627,377	1,507,039	10.72	53,459,190	1,338,852	11%	45%
216	13.20	15,490,334	11.30	14,021,837	1,468,496	12.00	14,566,559	544,722	11.51	14,182,451	160,614	71%	37%
290	10.00	92,425,600	4.00	72,388,096	20,037,504	5.84	77,855,315	5,467,219	5.45	73,669,596	1,281,500	77%	27%
386	12.80	1,310,467	7.80	616,793	693,674	9.98	890,088	273,295	8.00	639,988	23,195	92%	39%
390	12.80	492,410	7.80	222,750	269,660	9.57	306,736	83,987	7.95	229,379	6,630	92%	31%
396	9.80	638,529	4.80	419,854	218,675	7.09	520,007	100,153	4.82	420,729	875	99%	46%
402	11.30	1,366,830	5.30	571,617	795,213	6.98	762,611	190,994	5.53	596,310	24,693	87%	24%
462	10.00	1,273,208	4.80	540,184	733,024	7.62	907,580	367,396	4.93	555,551	15,367	96%	50%
490	11.80	2,335,157	2.90	584,807	1,750,350	6.29	1,125,993	541,186	3.71	700,073	115,267	79%	31%
494	11.30	2,028,194	2.90	521,513	1,506,681	5.94	961,298	439,785	3.71	626,998	105,486	76%	29%
538	12.00	416,478	8.50	263,635	152,843	12.00	416,478	152,843	8.66	269,896	6,261	96%	100%
594	11.80	2,688,532	6.80	1,709,762	978,771	10.75	2,466,033	756,272	7.07	1,757,394	47,632	94%	77%
610	8.00	508,855	5.00	301,703	207,152	8.00	508,855	207,152	5.07	306,109	4,406	98%	100%
618	11.40	778,268	6.40	390,143	388,126	10.67	714,637	324,494	7.07	435,669	45,526	86%	84%
690	10.10	299,195	5.80	148,968	150,227	7.01	186,123	37,155	5.88	151,300	2,333	94%	25%
696	9.80	958,544	6.20	614,482	344,061	8.25	802,272	187,789	6.22	616,211	1,728	99%	55%
698	10.00	374,612	8.20	270,626	103,986	9.43	339,858	69,232	8.25	273,286	2,661	96%	67%
772	12.00	1,060,276	7.00	569,768	490,509	8.92	745,655	175,888	7.01	570,644	876	100%	36%
828	11.30	1,262,070	4.60	573,391	688,679	7.36	834,069	260,678	4.82	592,987	19,596	92%	38%
848	8.10	59,641	5.10	27,597	32,044	8.13	60,021	32,424	5.16	28,121	525	98%	101%
882	8.10	358,767	3.90	196,241	162,527	6.26	281,855	85,615	4.04	200,911	4,670	95%	53%
906	5.30	777,405	1.80	495,240	282,165	4.64	719,504	224,264	3.55	628,655	133,415	41%	79%