

APPENDIX 3

HYDRAULIC ANALYSIS

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Table 3.1.1 Ponded Area Calculations South Broadway Drainage Master Plan					
Length of Road From GIS (ft)	Width of Road - Average (ft)	Surface Area of Road From GIS (ft ²)	Total # of Manholes in Street Analyzed	Ponded Area/Manhole in PCSWMM (ft ²)	Comment
1619	30	48581	1	48581	On Williams street from Woodward to Bethel dr
1070	30	32098	9	3566	Descanso Rd between Topeka st and San Jose Drain
1097	30	32900	4	8225	Abajo Rd between Topeka st and San Jose Drain
1254	30	37609	5	7522	Bethel Dr between Topeka st and San Jose Drain
404	30	12125	1	12125	Anderson between Hinkle st SE to William st SE
3975	48	190801	11	17346	William st from Trumbull ave to Gerald Ave SE (12th & 13th manhole is used in proposed - Barel as Ditch outfall & Kathryn Pond)
561	25	14032	1	14032	Kathryn Ave from John st to Williams st
2171	30	65131	4	16283	William st from Trumbull Ave to Pacific Ave
332	30	9969	1	9969	Thaxton Ave between Hinkle and William st
434	20	8681	1	8681	Romana Ave to Williams st (MH-M1433B)
282	24	6778	1	6778	Smith Ave Between Williams and Rail Road (MH L14532)
282	32	9016	1	9016	Abeline Ave between William st and rail road (MH-L14631)
213	18	3839	1	3839	Ogle Ave between William st and Rail road (MH- L14533)
770	30	23104	2	11552	Areas including on Anderson st-Commercial st,Thaxton Ave
264	32	8441	1	8441	Horshor Ave Between William st and Rail road (MH-L14834)
303	30	9100	1	9100	Franklin Ave Between William st and Rail road (MH-L14831)
269	24	6457	1	6457	Clifton Ave Between William st and Rail road (MH-L14931)
372	30	11164	1	11164	Wheeler Ave Between Hinkle st and Williams st (MH-M14131)
517	30	15505	1	15505	Alamo Ave between Hinkle st and Williams st (MH-M14132)
718	30	21550	1	21550	Commercial Ave from Pacific Ave to Cromwell Ave MH-K14944
600	30	18000	1	18000	Commercial Ave from Cromwell Ave to Garfield MH-K14942
652	30	19569	1	19569	Commercial Ave from Garfield Ave to Lewis Ave MH-L14141
1539	30	46171	4	11543	Commercial Ave from Lewis Ave to Trumbull Ave
324	30	9706	1	9706	Avenida Cesar Chavez between Commercial St. and Williams St.added to MH-L14241
303	30	9098	1	9098	Bell Ave between Commercial St. and Williams St. MH-L14JB1
Topeka street added areas for MH-M14003 (Use total Ponded area below)					
89	30	2662	1	2662	Added 1 (Topeka st Wheeler Ave) to MH-M14131
277	30	8311	1	8311	Added 1 (Topeka st between Wheeler and Alamo Ave) to MH-M14132
297	30	8924	1	8924	Added 1 (Topeka st between Alamo Ave and San Jose) to MH-M14003
721	30	21618	1	21618	Added 1 (Topeka st and San Jose Ave) to MH-M14003
Total				41516	

Table 3.1.2
Surcharge Junction Locations
South Broadway Drainage Master Plan

Junction Name	Surcharge Depth in Model (ft)	Max Reported Depth (ft)	Comment
J14993	200	3.54	Inflow Hydrograph
K14081	200	79.30	Inflow Hydrograph
K14091	200	16.19	Inflow Hydrograph
K14172	200	31.61	Inflow Hydrograph
K14191	200	25.54	Inflow Hydrograph
K14461	200	36.97	Inflow Hydrograph
K14471	200	20.75	Inflow Hydrograph
K14563	200	22.11	Inflow Hydrograph
K14681	200	0.00	Inflow Hydrograph
K14772	200	9.73	Inflow Hydrograph
K14791	200	2.86	Inflow Hydrograph
K14871	200	31.40	Inflow Hydrograph
K14874	200	105.94	Inflow Hydrograph
K14882	200	130.65	Inflow Hydrograph
K14CR1	200	9.09	Inflow Hydrograph
K15001	200	97.69	Inflow Hydrograph
K15111	200	163.62	Inflow Hydrograph
K15121	200	214.17	Inflow Hydrograph
K15212	200	78.74	Inflow Hydrograph
K15311	200	116.54	Inflow Hydrograph
L14171	200	22.24	Inflow Hydrograph
L14191	200	28.80	Inflow Hydrograph
L14261	200	4.88	Inflow Hydrograph
L14275	200	194.03	Inflow Hydrograph
L14291	200	206.49	Inflow Hydrograph
L14363	200	7.08	Inflow Hydrograph
L14393	200	1.36	Inflow Hydrograph
L14461	200	11.12	Inflow Hydrograph
L14471	200	137.93	Inflow Hydrograph
L14531	200	31.42	Inflow Hydrograph
L14571	200	16.50	Inflow Hydrograph
L14572	200	13.49	Inflow Hydrograph
L14592	200	0.00	Inflow Hydrograph
L14646	200	31.56	Inflow Hydrograph
L14691	200	48.96	Inflow Hydrograph
L14751	200	27.07	Inflow Hydrograph
L14781	200	25.48	Inflow Hydrograph
L14783	200	19.26	Inflow Hydrograph
L14784	200	20.86	Inflow Hydrograph
L14792	200	25.21	Inflow Hydrograph
L14882	200	11.87	Inflow Hydrograph
L14K03	200	10.91	Inflow Hydrograph

Table 3.1.3
Flooded Manhole Locations
South Broadway Drainage Master Plan

Junction Name	Hours Flooded (h)	Total Flood Volume (MG)*	Total Flood Volume (ac-ft)**
M14343	0.09	0.001	0.003
M14031	0.01	0.001	0.003
L14885	0.01	0.001	0.003
K14281	0.01	0.001	0.003
L14864	0.01	0.001	0.003
M14M04	0.01	0.001	0.003
K14271	0.01	0.001	0.003
K14482	0.04	0.002	0.006
M14321	0.01	0.002	0.006
L14766_OrificeNode	0.01	0.002	0.006
K15201	0.02	0.003	0.009
M14003	0.05	0.003	0.009
M14435	0.45	0.004	0.012
L14533	0.23	0.004	0.012
M14334	0.13	0.004	0.012
L14532	0.15	0.005	0.015
M14601	0.14	0.006	0.018
M14333	0.21	0.008	0.025
L14931	0.78	0.008	0.025
L14IN1_OrificeNode	0.29	0.009	0.028
L14JB3	0.47	0.010	0.031
K14945	0.26	0.010	0.031
L14262	0.49	0.014	0.043
L14631	0.6	0.015	0.046
K14077	0.4	0.015	0.046
L14834	0.88	0.016	0.049
K14CRO	0.14	0.018	0.055
K14873	0.16	0.022	0.068
L14071	0.14	0.022	0.068
L14542	1.33	0.023	0.071
M1433B	1.32	0.035	0.107
L14883	0.09	0.037	0.114
L14766	0.13	0.044	0.135
L14544	1.58	0.049	0.150
L14734	1.01	0.051	0.157
J14994	0.22	0.061	0.187
L14346	0.37	0.063	0.193
L14541	1.13	0.069	0.212
M14M11	0.16	0.076	0.233
M14433	1.06	0.077	0.236
L14738	1.07	0.077	0.236
K14872	0.21	0.077	0.236
L14343	1.29	0.078	0.239
L14192	0.67	0.089	0.273
K14671	0.44	0.091	0.279
L14771	0.66	0.096	0.295
L14345	1.01	0.102	0.313
L14933	0.59	0.111	0.341
K14862	0.35	0.113	0.347
L14575	0.37	0.119	0.365

Table 3.1.3
Flooded Manhole Locations
South Broadway Drainage Master Plan

Junction Name	Hours Flooded (h)	Total Flood Volume (MG)*	Total Flood Volume (ac-ft)**
L14348	1.04	0.119	0.365
L14742	2.52	0.120	0.368
L14745	1.53	0.126	0.387
K14291	0.23	0.141	0.433
K14182	0.38	0.149	0.457
M14M10	0.19	0.157	0.482
L14472	0.75	0.161	0.494
K14075	0.7	0.166	0.510
L14743	2.55	0.190	0.583
L14741	2.48	0.199	0.611
L1474C	2.6	0.209	0.642
M14132	2.45	0.213	0.654
J15903	0.64	0.232	0.712
K14372	0.39	0.234	0.718
L14782	0.66	0.237	0.728
M14131	2.69	0.240	0.737
K15501	0.61	0.240	0.737
M14015	0.67	0.243	0.746
L14837	2.42	0.243	0.746
L14181	0.71	0.246	0.755
K14462	0.43	0.269	0.826
L14573	0.41	0.297	0.912
L14752	0.79	0.305	0.936
K15121	0.24	0.413	1.268
K14183	0.32	0.452	1.388
L14274	0.52	0.471	1.446
K14953	1.87	0.509	1.563
M14016	0.93	0.721	2.213
L14661	0.72	0.732	2.247
K14171	0.69	0.798	2.450
K14864Updated	0.57	0.836	2.567
L14263	0.85	1.032	3.168
L14IN1	6.03	1.138	3.494
L14K02	1.09	1.150	3.531
L14749	2.38	1.271	3.902
L14562	0.88	1.721	5.283
K14071	1.01	2.400	7.368
K14361	0.77	2.664	8.178
K14954	6.97	8.441	25.914
			0.000

* Nodes will be considered 0 if it's less than or equal to 0.001 MG", per PCSWMM manual.

** Total flooding volume is greater than flooding volume in the model report because SWMM will take the total flooding volume and subtract out an nodes (junctions or storages) that have a ponded area/surcharge depth greater than 0 and give a final flooding volume in the status report.

Table 3.2.1
Existing Pond Routing Summary
South Broadway Drainage Master Plan

Name	Invert Elev. (ft)	Rim Elev. (ft)	Max. Depth (ft)	Max. HGL (ft)	Max. Total Inflow (cfs)	Max. Outflow (cfs)	Total inflow (MG)	Total Inflow Volume (AF)	Pond Design Volume (AF)	Pond Design Depth (ft)	Freeboard to Top of Pond	Total Flood Volume (MG)	Total Flood Volume (AF)	Comments
BellCommercialWetwell	4924.67	4949.67	3.51	4928.18	93.3	91.8	16.70	51.27	-	25.00	21.49	0.00	0.00	
BusinessIndstRetPondSouth	4973.00	4985.00	9.03	4982.03	65.1	0.0	1.04	3.19	4.90	12.00	2.97	0.00	0.00	
BusinessIndstUnit3Pond	4998.00	5007.00	1.37	4999.37	21.5	20.5	0.32	0.99	0.70	9.00	7.63	0.00	0.00	
KarstenPond	4985.00	4996.00	5.3	4990.30	73.2	13.6	1.16	3.56	7.00	11.00	5.70	0.00	0.00	
KathrynPond	4940.79	4946.00	5.21	4946.00	189.7	17.9	7.97	24.47	4.90	5.21	0.00	4.61	14.15	
MechemPond	4937.17	4946.37	9.2	4946.37	328.9	45.1	10.10	31.01	6.50	9.20	0.00	1.94	5.96	
S.BroadwayPond	4938.35	4952.00	13.08	4951.43	434.7	84.1	17.10	52.50	25.20	13.65	0.57	0.00	0.00	
SunportPond	4934.28	4941.50	6.17	4940.45	183.3	20.8	3.35	10.28	7.30	7.22	1.05	0.00	0.00	

Table 3.2.2
Option 1-Alternative 1 - Pond Routing Summary
South Broadway Drainage Master Plan

Name	Invert Elev. (ft)	Rim Elev. (ft)	Max. Depth (ft)	Max. HGL (ft)	Max. Total Inflow (cfs)	Max. Outflow (cfs)	Total inflow (MG)	Total Inflow Volume (AF)	Pond Design Volume (AF)	Pond Design Depth (ft)	Freeboard to Top of Pond	Total Flood Volume (MG)	Total Flood Volume (AF)	Comments
BellCommercialWetwell	4924.67	4949.67	18.15	4942.82	135.5	91.8	22.60	69.38	-	25.00	6.85	0.00	0.00	
BusinessIndstRetPondSouth	4973.00	4985.00	9.03	4982.03	65.1	0.0	1.04	3.19	4.9	12.00	2.97	0.00	0.00	
BusinessIndstUnit3Pond	4998.00	5007.00	1.37	4999.37	21.5	20.5	0.32	0.99	0.7	9.00	7.63	0.00	0.00	
John Street Pond	4941.00	4951	7.3	4948.30	204.0	19.02	6.58	20.20	18.7	10.00	2.70	0.00	0.00	Proposed Pond @ top of pond = 4951
KarstenPond	4985.00	4996.00	5.3	4990.30	73.2	13.6	1.16	3.56	7.0	11.00	5.70	0.00	0.00	
KathrynPond*	4940.79	4946.00	5.21	4946.00	125.5	31.9	2.41	7.40	7.5	5.21	0.00	0.03	0.10	
MechemPond	4937.17	4946.37	8.16	4945.33	209.7	42.5	4.30	13.20	6.5	9.20	1.04	0.00	0.00	
S.BroadwayPond*	4938.35	4952.00	12.28	4950.63	539.5	81.5	18.70	57.41	31.8	13.65	1.37	0.00	0.00	
SunportPond	4934.28	4941.50	6.25	4940.53	183.3	20.9	3.35	10.28	7.3	7.22	0.97	0.00	0.00	
*Pond volume has been modified in proposed option. South Broadway will be without a pump station in this option.														

Table 3.2.3
Option 1-Alternative 2 - Pond Routing Summary
South Broadway Drainage Master Plan

Name	Invert Elev. (ft)	Rim Elev. (ft)	Max. Depth (ft)	Max. HGL (ft)	Max. Total Inflow (cfs)	Max. Outflow (cfs)	Total Inflow (MG)	Total Inflow Volume (AF)	Pond Design Volume (AF)	Pond Design Depth (ft)	Freeboard to Top of Pond	Total Flood Volume (MG)	Total Flood Volume (AF)	Comments
BellCommercialWetwell	4924.67	4949.67	18.13	4942.80	135.28	91.8	22.60	69.38	-	25.00	6.87	0.00	0.00	
BusinessIndstRetPondSouth	4973.00	4985.00	9.03	4982.03	65.11	0.0	1.04	3.19	4.9	12.00	2.97	0.00	0.00	
BusinessIndstUnit3Pond	4998.00	5007.00	1.37	4999.37	21.45	20.5	0.32	0.99	0.7	9.00	7.63	0.00	0.00	
John Street Pond	4941.00	4955	7.37	4948.4	208.48	19.11	6.63	20.35	27.6	14.00	6.63	0.00	0.00	Proposed Pond @ top of pond = 4955
KarstenPond	4985.00	4996.00	5.3	4990.30	73.20	13.6	1.16	3.56	7.0	11.00	5.70	0.00	0.00	
KathrynPond*	4940.79	4946.00	5.21	4946.00	125.64	31.9	2.41	7.40	7.5	5.21	0.00	0.03	0.10	
MechemPond	4937.17	4946.37	8.17	4945.34	209.85	42.5	4.30	13.20	6.5	9.20	1.03	0.00	0.00	
S.BroadwayPond*	4938.35	4952.00	12.28	4950.63	539.35	81.4	18.70	57.41	31.8	13.65	1.37	0.00	0.00	
SunportPond	4934.28	4941.50	6.25	4940.53	183.30	20.9	3.35	10.28	7.3	7.22	0.97	0.00	0.00	
*Pond volume has been modified in proposed option. South Broadway will be without a pump station in this option.														

Table 3.2.4
Option 2-Alternative 1 - Pond Routing Summary
South Broadway Drainage Master Plan

Name	Invert Elev. (ft)	Rim Elev. (ft)	Max. Depth (ft)	Max. HGL (ft)	Max. Total Inflow (cfs)	Max. Outflow (cfs)	Total inflow (MG)	Total Inflow Volume (AF)	Pond Design Volume (AF)	Pond Design Depth (ft)	Freeboard to Top of Pond	Total Flood Volume (MG)	Total Flood Volume (AF)	Comments
BellCommercialWetwell	4924.67	4949.67	14.78	4939.45	122.4	91.8	11.40	91.80	-	25.00	10.22	0.00	0.00	
BusinessIndstRetPondSouth	4973.00	4985.00	9.03	4982.03	65.1	0.0	1.04	0.00	4.9	12.00	2.97	0.00	0.00	
BusinessIndstUnit3Pond	4998.00	5007.00	1.37	4999.37	21.5	20.5	0.32	20.50	0.7	9.00	7.63	0.00	0.00	
John Street Pond	4931.00	4951	14.44	4945.4	340.2	62.00	44.80	58.87	26.5	20.00	5.56	0.00	0.00	Proposed Pond @ top of pond = 4951
KarstenPond	4985.00	4996.00	5.3	4990.30	73.2	13.6	1.16	13.59	7.0	11.00	5.70	0.00	0.00	
KathrynPond*	4940.79	4946.00	4.58	4945.37	61.9	27.7	2.06	26.95	7.5	5.21	0.63	0.00	0.00	
MechemPond	4937.17	4946.37	8.26	4945.43	215.1	42.7	4.31	42.51	6.5	9.20	0.94	0.00	0.00	
S.BroadwayPond*	4932.00	4952.00	17.39	4949.39	598.5	64.6	19.90	64.25	41.1	20.00	2.61	0.00	0.00	
SunportPond	4934.28	4941.50	6.24	4940.52	183.3	20.9	3.35	20.90	7.3	7.22	0.98	0.00	0.00	
*Pond volume has been modified in proposed option. South Broadway will be with a pump station in this option.														

Table 3.2.5
Option 2-Alternative 2 - Pond Routing Summary
South Broadway Drainage Master Plan

Name	Invert Elev. (ft)	Rim Elev. (ft)	Max. Depth (ft)	Max. HGL (ft)	Max. Total Inflow (cfs)	Max. Outflow (cfs)	Total Inflow (MG)	Total Inflow Volume (AF)	Pond Design Volume (AF)	Pond Design Depth (ft)	Freeboard to Top of Pond	Total Flood Volume (MG)	Total Flood Volume (AF)	Comments
BellCommercialWetwell	4924.67	4949.67	14.78	4939.45	122.4	91.8	11.50	35.31	-	25.00	10.22	0.00	0.00	
BusinessIndstRetPondSouth	4973.00	4985.00	9.03	4982.03	65.1	0.0	1.04	3.19	4.9	12.00	2.97	0.00	0.00	
BusinessIndstUnit3Pond	4998.00	5007.00	1.37	4999.37	21.5	20.5	0.32	0.99	0.7	9.00	7.63	0.00	0.00	
John Street Pond	4931.00	4956	15.15	4946.2	333.5	67.00	44.70	137.23	32.0	25.00	9.85	0.00	0.00	Proposed Pond @ top of pond = 4956
KarstenPond	4985.00	4996.00	5.3	4990.30	73.2	13.6	1.16	3.56	7.0	11.00	5.70	0.00	0.00	
KathrynPond*	4940.79	4946.00	4.82	4945.61	62.9	30.1	2.18	6.69	7.5	5.21	0.39	0.00	0.00	
MechemPond	4937.17	4946.37	8.3	4945.47	214.0	42.8	4.31	13.23	6.5	9.20	0.90	0.00	0.00	
S.BroadwayPond*	4932.00	4952.00	17.39	4949.39	598.5	64.6	19.90	61.09	41.1	20.00	2.61	0.00	0.00	
SunportPond	4934.28	4941.50	6.23	4940.51	183.3	20.9	3.35	10.28	7.3	7.22	0.99	0.00	0.00	
*Pond volume has been modified in proposed option. South Broadway will be with a pump station in this option.														

Table 3.2.6
Option 3-Alternative 1 - Pond Routing Summary
South Broadway Drainage Master Plan

Name	Invert Elev. (ft)	Rim Elev. (ft)	Max. Depth (ft)	Max. HGL (ft)	Max. Total Inflow (cfs)	Max. Outflow (cfs)	Total Inflow (MG)	Total Inflow Volume (AF)	Pond Design Volume (AF)	Pond Design Depth (ft)	Freeboard to Top of Pond	Total Flood Volume (MG)	Total Flood Volume (AF)	Comments
BellCommercialWetwell	4924.67	4949.67	14.78	4939.45	122.5	91.8	11.50	35.31	-	25.00	10.22	0.00	0.00	
BusinessIndstRetPondSouth	4973.00	4985.00	9.03	4982.03	65.1	0.0	1.04	3.19	4.9	12.00	2.97	0.00	0.00	
BusinessIndstUnit3Pond	4998.00	5007.00	1.37	4999.37	21.5	20.5	0.32	0.99	0.7	9.00	7.63	0.00	0.00	
John Street Pond	4932.25	4951	14.18	4946.4	330.6	84.1	40.20	123.41	21.9	18.75	4.57	0.00	0.00	Proposed Pond @ top of pond = 4951
KarstenPond	4985.00	4996.00	5.3	4990.30	73.2	13.6	1.16	3.56	7.0	11.00	5.70	0.00	0.00	
KathrynPond*	4940.79	4946.00	4.86	4945.65	65.2	30.6	2.21	6.78	7.5	5.21	0.35	0.00	0.00	
MechemPond	4937.17	4946.37	8.31	4945.48	214.4	42.9	4.31	13.23	6.5	9.20	0.89	0.00	0.00	
S.BroadwayPond*	4932.00	4952.00	17.39	4949.39	598.5	64.6	19.90	61.09	41.1	20.00	2.61	0.00	0.00	
SunportPond	4934.28	4941.50	6.23	4940.51	183.3	20.9	3.35	10.28	7.3	7.22	0.99	0.00	0.00	
*Pond volume has been modified in proposed option. South Broadway will be with a pump station in this option.														

Table 3.2.7
Option 3-Alternative 2 - Pond Routing Summary
South Broadway Drainage Master Plan

Name	Invert Elev. (ft)	Rim Elev. (ft)	Max. Depth (ft)	Max. HGL (ft)	Max. Total Inflow (cfs)	Max. Outflow (cfs)	Total Inflow (MG)	Total Inflow Volume (AF)	Pond Design Volume (AF)	Pond Design Depth (ft)	Freeboard to Top of Pond	Total Flood Volume (MG)	Total Flood Volume (AF)	Comments
BellCommercialWetwell	4924.67	4949.67	14.78	4939.45	122.5	91.8	11.50	35.31	-	25.00	10.22	0.00	0.00	
BusinessIndstRetPondSouth	4973.00	4985.00	9.04	4982.04	65.1	0.0	1.04	3.19	4.9	12.00	2.96	0.00	0.00	
BusinessIndstUnit3Pond	4998.00	5007.00	1.37	4999.37	21.5	20.5	0.32	0.99	0.7	9.00	7.63	0.00	0.00	
John Street Pond	4931.00	4956	16.71	4947.7	272.1	103.08	14.90	45.74	23.9	25.00	8.29	0.00	0.00	Proposed Pond @ top of pond = 4956
KarstenPond	4985.00	4996.00	5.3	4990.30	73.2	13.6	1.16	3.56	7.0	11.00	5.70	0.00	0.00	
KathrynPond*	4940.79	4946.00	4.91	4945.70	66.1	31.6	2.23	6.85	7.5	5.21	0.30	0.00	0.00	
MechemPond	4937.17	4946.37	8.29	4945.46	215.7	42.8	4.30	13.20	6.5	9.20	0.91	0.00	0.00	
S.BroadwayPond*	4932.00	4952.00	17.39	4949.39	598.4	64.5	19.90	61.09	41.1	20.00	2.61	0.00	0.00	
SunportPond	4934.28	4941.50	6.25	4940.53	183.3	20.9	3.35	10.28	7.3	7.22	0.97	0.00	0.00	
*Pond volume has been modified in proposed option. South Broadway will be with a pump station in this option.														

Table 3.2.8
Option 4-Alternative 1 - Pond Routing Summary
South Broadway Drainage Master Plan

Name	Invert Elev. (ft)	Rim Elev. (ft)	Max. Depth (ft)	Max. HGL (ft)	Max. Total Inflow (cfs)	Max. Outflow (cfs)	Total inflow (MG)	Total Inflow Volume (AF)	Pond Design Volume (AF)	Pond Design Depth (ft)	Freeboard to Top of Pond	Total Flood Volume (MG)	Total Flood Volume (AF)	Comments
BellCommercialWetwell	4924.67	4949.67	17.66	4942.33	122.5	91.8	17.10	52.50	-	25.00	7.34	0.00	0.00	
BusinessIndstRetPondSouth	4973.00	4985.00	9.03	4982.03	65.1	0.0	1.04	3.19	4.9	12.00	2.97	0.00	0.00	
BusinessIndstUnit3Pond	4998.00	5007.00	1.37	4999.37	21.5	20.5	0.32	0.99	0.7	9.00	7.63	0.00	0.00	
John Street Main Pond	4941.00	4955	13.09	4954.09	214.2	21.22	6.41	19.68	12.5	14.00	0.91	0.00	0.00	Proposed Pond @ top of pond = 4955
John Street Wet Well Pond	4931.00	4946	14.86	4945.86	126.0	18.00	14.60	44.82	3.5	15.00	0.14	0.00	0.00	Proposed Wet Well @ top of pond = 4946
KarstenPond	4985.00	4996.00	5.3	4990.30	73.2	13.6	1.16	3.56	7.0	11.00	5.70	0.00	0.00	
KathrynPond*	4940.79	4946.00	4.93	4945.72	81.7	36.1	2.22	6.82	7.5	5.21	0.28	0.00	0.00	
MechemPond	4937.17	4946.37	8.56	4945.73	211.5	43.5	4.31	13.23	6.5	9.20	0.64	0.00	0.00	
S.BroadwayPond*	4938.35	4952.00	12.36	4950.71	460.1	56.9	17.70	54.34	31.8	13.65	1.29	0.00	0.00	
SunportPond	4934.28	4941.50	6.24	4940.52	183.3	20.9	3.35	10.28	7.3	7.22	0.98	0.00	0.00	
*Pond volume has been modified in proposed option. South Broadway will be without a pump station in this option.														