

DRAINAGE MASTER PLAN FOR ALLEN BASIN STUDY AREA

VOLUME II of II



Prepared for:
CITY OF MEMPHIS
Division of Public Works / Engineering



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Table 10.1.....InfoSWMM Drainage Improvement Scenarios

SECTION 1 - PUBLIC OUTREACH MEETING

Stormwater Master Plan for the Allen Basin

The purpose of the Master Plan is to identify potential solutions for flooding and drainage issues

Neighborhood Meeting

Meeting Goals

- ❖ Provide information about the project
- ❖ Gather input about drainage and flooding problems you experience

See Map on back for Study Area.

Meeting Date & Time

Thursday, March 1, 2018
6:00 - 8:00 pm

Meeting Location

Breath of Life Christian Center
3795 Frayser-Raleigh Road
Memphis, TN 38128

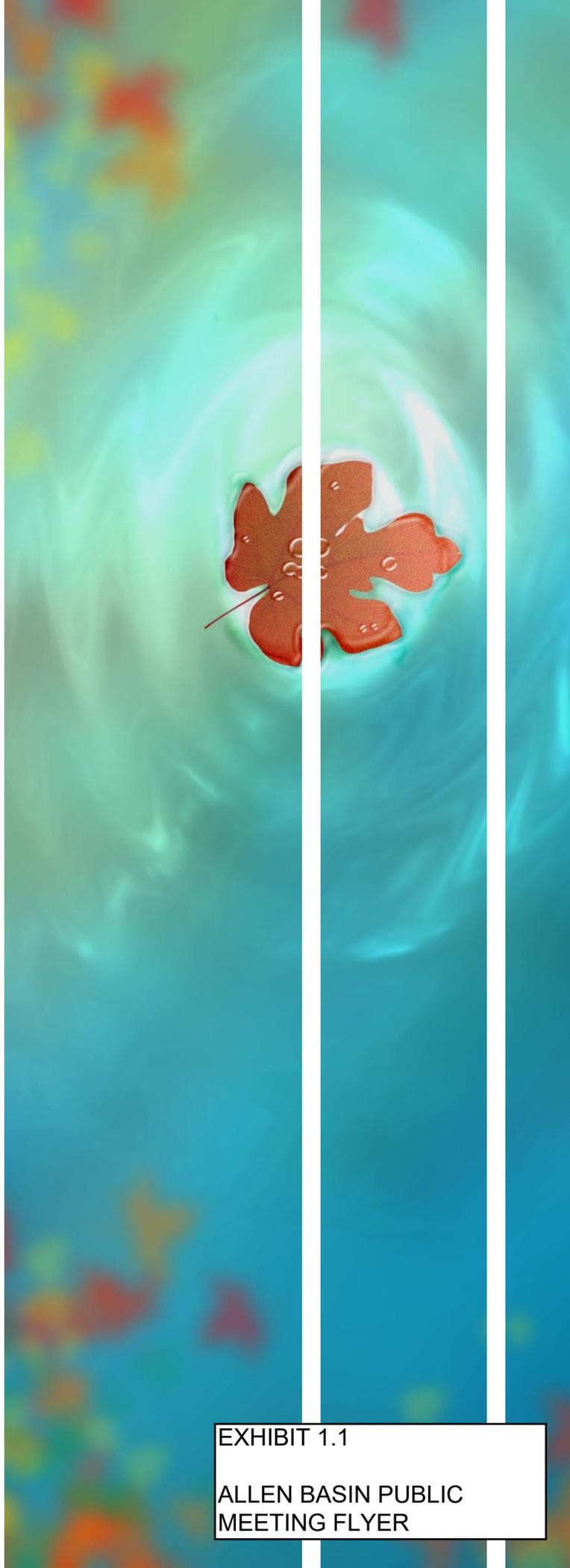


EXHIBIT 1.1

ALLEN BASIN PUBLIC
MEETING FLYER

Map of Study Area & Meeting Location

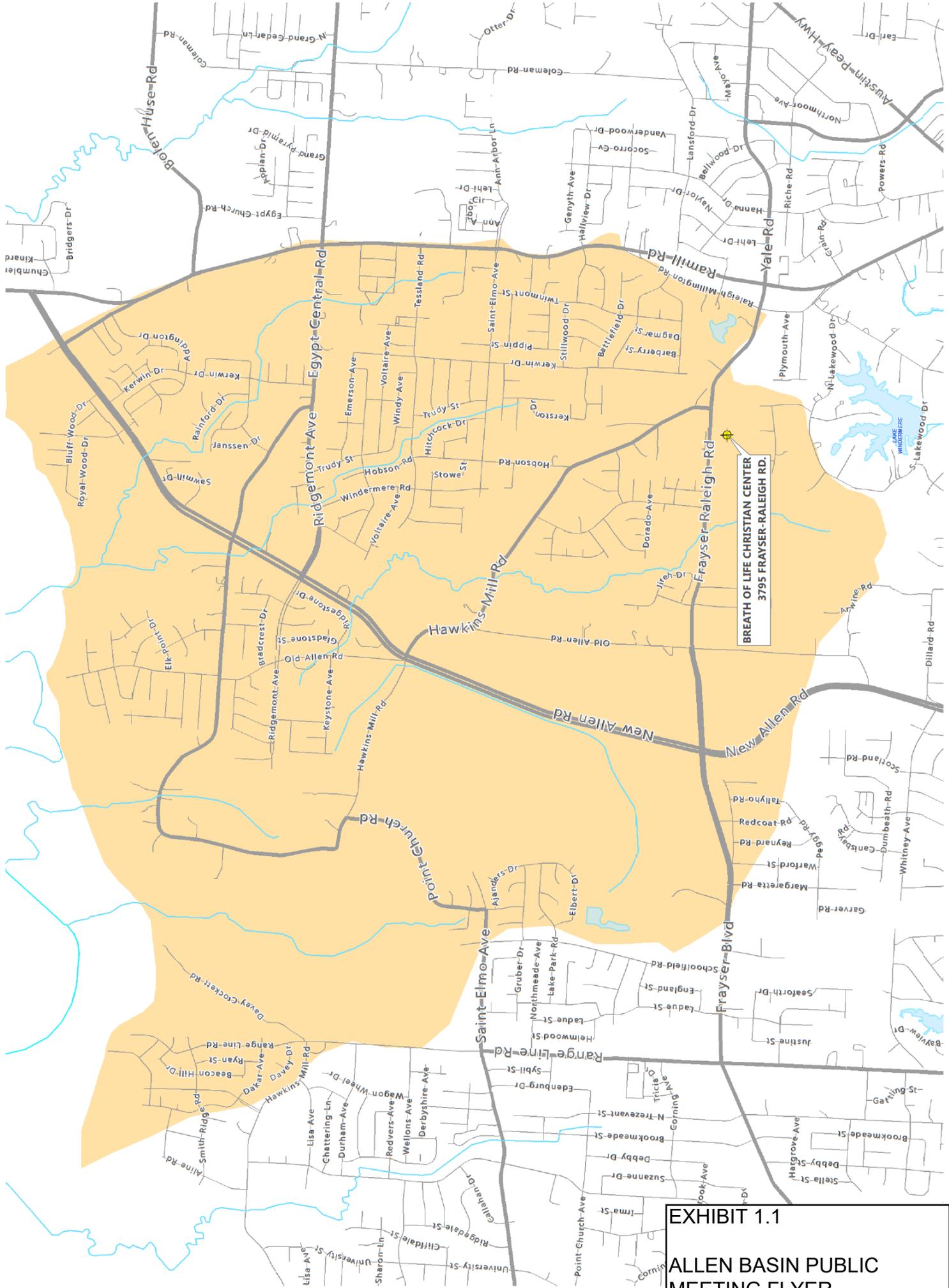


EXHIBIT 1.1
ALLEN BASIN PUBLIC MEETING FLYER

Flyer Distribution for Stormwater master Plan for Allen Basin

Location	Flyers	
Pep Boys	2	Window
Advance Auto Parts	5	Counter
Walgreens	2	Window
First Gethsemane MB Church	10	Left with Pastor
Kresh Express	2	Window
City of Memphis, Senior Citizens Center	15	Left with Secretary
La Petite Academy	15	Left with Secretary
Allen Police Station and Neighborhood watch	25	Left with Police Department reception
Cunningham Community Center	25	Left with Secretary
Breathe of Life Christian Church c/o Ms. Rhonda Logan-CDC	25	Left with Receptionist

EXHIBIT 1.2
PUBLIC MEETING FLYER
DISTRIBUTION LIST

Allen Basin Public Meeting 10.18.16 Sign-in Sheet

NO.	Name	Email Address	Home Address	Phone Number	Submitted Feedback
1	Claudio Meier	cimeier@memphis.edu		901-297-8855	YES
2	Hazel Webster	webster1234@att.net			
3	Willola Marshall	lola.marshall1010@gmail.com		901-488-8919	
4	Sheila Myles		3660 Brookmeade St.	901-358-7773	
5	Rhonda Logan	rlogan@raleighcdc.org		901-258-3273	
6	Linda K. Phillips	lkphillips22@yahoo.com	3179 Ridge Creek, Memphis, TN 38128	901-359-8186	YES

EXHIBIT 1.3

**ALLEN BASIN PUBLIC MEETING
SIGN-IN SHEET**

SECTION 2 - HYDROLOGIC PARAMETERS

Allen Basin Study Area
Table 2.1
Sub-Catchment Hydrologic Parameter Table

Subcatchment ID	Subcatchment Area (ac)	Subcatch. Imperviousness (%)	Subcatchment Width (ft)	Subcatchment Length (ft)	Subcatchment Slope (%)	Manning's N for Imperv. Portion	Manning's N for Pervious Portion	Depression Stor. for Imp. Portion (in)	Depression Stor. for Perv. Portion (in)	% of Imperv. Part w/o Dep. Stor.	Capillary Suction (in)	Sat. Hydraulic Conductivity (in/hr)	Initial Soil Moisture Deficit
A_001	1.759	11.43	536.214	100	3.67	0.012	0.52	0.07	0.39	100	5.352	0.208	0.174
A_002	117.271	7.47	35,758.18	100	3.654	0.012	0.445	0.07	0.36	76.4	6.244	0.243	0.203
A_003	21.237	12.51	6,475.60	100	3.6	0.012	0.469	0.07	0.369	2.7	5.018	0.195	0.163
A_004	1.168	37.53	508.777	70	2.903	0.012	0.234	0.07	0.276	0	6.69	0.26	0.217
A_005	12.73	34.83	3,881.65	100	3.595	0.012	0.342	0.07	0.319	0	6.69	0.26	0.217
A_006	3.326	39.69	2,028.15	50	3.705	0.012	0.333	0.07	0.316	0	6.69	0.26	0.217
A_007	5.179	36.72	1,579.15	100	3.587	0.012	0.307	0.07	0.304	0	6.69	0.26	0.217
A_008	1.224	25.74	373.286	100	3.433	0.012	0.33	0.07	0.315	0	6.69	0.26	0.217
A_009	0.984	41.31	749.778	40	4.054	0.012	0.255	0.07	0.283	0	6.69	0.26	0.217
A_010	6.284	35.37	1,916.16	100	3.882	0.012	0.319	0.07	0.309	0	6.69	0.26	0.217
A_011	0.368	27.36	172.854	65	3.565	0.012	0.378	0.07	0.334	0	6.69	0.26	0.217
A_012	5.928	37.08	1,807.53	100	3.725	0.012	0.337	0.07	0.317	0	6.69	0.26	0.217
A_013	11.154	16.56	3,401.02	100	4.242	0.012	0.434	0.07	0.355	0	6.69	0.26	0.217
A_014	2.245	30.69	684.405	100	3.4	0.012	0.341	0.07	0.319	0	6.69	0.26	0.217
A_015	0.247	52.56	375.821	20	4.092	0.012	0.29	0.07	0.298	0	6.69	0.26	0.217
A_016	7.852	35.82	2,394.20	100	3.499	0.012	0.322	0.07	0.311	0	6.69	0.26	0.217
A_017	1.834	27.54	559.224	100	3.627	0.012	0.311	0.07	0.307	0	6.69	0.26	0.217
A_018	1.448	42.66	735.676	60	4.375	0.012	0.322	0.07	0.311	0	6.69	0.26	0.217
A_019	2.623	37.44	799.772	100	3.833	0.012	0.361	0.07	0.326	0	6.69	0.26	0.217
A_020	1.287	34.2	392.362	100	3.89	0.012	0.333	0.07	0.315	0	6.69	0.26	0.217
A_021	3.448	35.28	1,051.42	100	3.966	0.012	0.289	0.07	0.298	0	6.69	0.26	0.217
A_022	4.571	28.53	1,393.81	100	4.091	0.012	0.343	0.07	0.32	0	6.69	0.26	0.217
A_023	1.671	20.52	509.455	100	3.746	0.012	0.321	0.07	0.311	0	6.69	0.26	0.217
A_024	2.139	31.68	652.326	100	3.321	0.012	0.309	0.07	0.306	0	6.69	0.26	0.217
A_025	0.554	68.85	241.207	70	3.366	0.012	0.268	0.07	0.29	0	6.69	0.26	0.217
A_026	8.458	47.52	2,578.93	100	3.334	0.012	0.248	0.07	0.281	0	6.69	0.26	0.217
B_001	19.517	10.62	5,951.07	100	3.208	0.012	0.438	0.07	0.358	73.8	4.46	0.173	0.145
B_002	52.258	5.76	15,934.29	100	3.79	0.012	0.468	0.07	0.369	58.5	6.69	0.26	0.217
B_003	56.676	15.66	17,281.70	100	3.74	0.012	0.515	0.07	0.387	91.9	4.779	0.186	0.155
B_004	38.66	4.95	11,788.11	100	4.542	0.012	0.365	0.07	0.328	17.4	6.69	0.26	0.217
B_006	5.436	3.78	1,657.60	100	3.954	0.012	0.478	0.07	0.373	61.9	6.69	0.26	0.217
B_007	7.171	1.8	2,186.55	100	4.763	0.012	0.512	0.07	0.386	84.1	6.69	0.26	0.217
B_008	34.711	6.66	10,584.09	100	4.573	0.012	0.384	0.07	0.335	25.1	6.69	0.26	0.217
B_009	15.417	0.9	4,700.89	100	4.578	0.012	0.489	0.07	0.378	15.9	6.69	0.26	0.217
B_012	19.902	1.35	6,068.52	100	4.512	0.012	0.443	0.07	0.36	0	6.69	0.26	0.217
B_013	8.003	3.51	2,440.27	100	4.49	0.012	0.371	0.07	0.33	0	6.69	0.26	0.217
B_014	74.061	1.26	22,582.60	100	4.636	0.012	0.446	0.07	0.36	18.1	6.69	0.26	0.217
B_016	24.172	4.32	7,370.54	100	4.288	0.012	0.436	0.07	0.356	5.3	6.69	0.26	0.217
B_017	76.833	6.3	23,427.89	100	4.37	0.012	0.454	0.07	0.364	12.3	6.69	0.26	0.217
B_020	7.172	10.35	2,186.74	100	4.06	0.012	0.463	0.07	0.368	0	6.69	0.26	0.217
B_021	2.821	38.97	1,720.63	50	3.412	0.012	0.29	0.07	0.298	0	6.69	0.26	0.217
B_022	4.946	21.51	1,508.12	100	4.354	0.012	0.449	0.07	0.361	0	6.69	0.26	0.217
B_023	2.621	45.18	799.063	100	3.123	0.012	0.246	0.07	0.28	0	6.69	0.26	0.217
C_001	249.517	4.23	76,082.37	100	3.406	0.012	0.481	0.07	0.374	59	5.352	0.208	0.174
C_002	9.835	12.33	2,998.98	100	3.198	0.012	0.363	0.07	0.328	43.6	6.69	0.26	0.217
C_003	15.282	5.49	4,659.87	100	4.119	0.012	0.485	0.07	0.376	65.8	6.69	0.26	0.217
C_004	10.639	8.19	3,243.98	100	4.498	0.012	0.416	0.07	0.348	15	6.69	0.26	0.217
C_005	21.403	13.77	6,526.20	100	4.2	0.012	0.426	0.07	0.352	11.9	6.69	0.26	0.217
C_006	1.033	31.68	314.987	100	3.594	0.012	0.25	0.07	0.282	0	6.69	0.26	0.217

Allen Basin Study Area
Table 2.1
Sub-Catchment Hydrologic Parameter Table

Subcatchment ID	Subcatchment Area (ac)	Subcatch. Imperviousness (%)	Subcatchment Width (ft)	Subcatchment Length (ft)	Subcatchment Slope (%)	Manning's N for Imperv. Portion	Manning's N for Pervious Portion	Depression Stor. for Imp. Portion (in)	Depression Stor. for Perv. Portion (in)	% of Imperv. Part w/o Dep. Stor.	Capillary Suction (in)	Sat. Hydraulic Conductivity (in/hr)	Initial Soil Moisture Deficit
C_007	2.495	42.57	760.923	100	3.672	0.012	0.333	0.07	0.315	0	6.69	0.26	0.217
C_008	3.143	36.63	958.5	100	3.608	0.012	0.382	0.07	0.335	0	6.69	0.26	0.217
C_009	2.38	37.26	725.811	100	3.846	0.012	0.342	0.07	0.319	0	6.69	0.26	0.217
C_010	0.994	48.78	757.875	40	3.926	0.012	0.274	0.07	0.291	0	6.69	0.26	0.217
C_011	3.174	41.31	967.934	100	3.384	0.012	0.355	0.07	0.324	0	6.69	0.26	0.217
C_012	5.77	43.47	1,759.30	100	3.141	0.012	0.356	0.07	0.325	0	6.69	0.26	0.217
C_013	5.169	27.81	1,576.05	100	3.642	0.012	0.3	0.07	0.303	0	6.69	0.26	0.217
C_014	12.207	12.42	3,722.14	100	4.121	0.012	0.335	0.07	0.316	0	6.69	0.26	0.217
C_015	14.082	38.61	4,293.77	100	3.44	0.012	0.291	0.07	0.298	0	6.69	0.26	0.217
C_016	1.161	61.65	590.108	60	2.79	0.012	0.211	0.07	0.267	0	6.69	0.26	0.217
C_017	5.686	32.94	1,733.76	100	3.918	0.012	0.294	0.07	0.299	0	6.69	0.26	0.217
C_018	50.823	9.54	15,497.03	100	4.314	0.012	0.369	0.07	0.33	20.8	6.69	0.26	0.217
C_019	31.668	3.15	9,656.16	100	4.555	0.012	0.485	0.07	0.376	26.9	6.69	0.26	0.217
C_020	21.747	7.47	6,631.21	100	3.958	0.012	0.41	0.07	0.346	0	6.69	0.26	0.217
D00_001	347.449	9.18	105,943.84	100	3.29	0.012	0.499	0.07	0.382	24.3	5.62	0.218	0.182
D00_002	75.241	4.86	22,942.25	100	3.678	0.012	0.484	0.07	0.376	27.1	6.133	0.238	0.199
D00_003	4.38	31.32	1,335.63	100	3.777	0.012	0.413	0.07	0.347	7.8	6.69	0.26	0.217
D00_004	0.34	14.13	103.559	100	3.52	0.012	0.306	0.07	0.304	0	6.69	0.26	0.217
D00_005	0.019	52.2	39.498	15	2.734	0.012	0.264	0.07	0.287	0	6.69	0.26	0.217
D00_006	5.578	51.84	1,700.95	100	2.577	0.012	0.246	0.07	0.28	0	6.69	0.26	0.217
D00_007	0.513	29.7	156.416	100	3.166	0.012	0.205	0.07	0.264	0	6.69	0.26	0.217
D00_008	0.694	21.96	211.509	100	2.573	0.012	0.204	0.07	0.264	0	6.69	0.26	0.217
D00_009	3.059	40.5	932.707	100	2.837	0.012	0.273	0.07	0.291	0	6.69	0.26	0.217
D00_010	0.104	21.69	159.004	20	4.172	0.012	0.216	0.07	0.268	0	6.69	0.26	0.217
D00_011	0.737	28.89	224.587	100	3.077	0.012	0.237	0.07	0.277	0	6.69	0.26	0.217
D00_012	9.903	39.06	3,019.70	100	3.362	0.012	0.324	0.07	0.312	0	5.575	0.217	0.181
D00_013	3.257	55.98	1,986.49	50	2.554	0.012	0.356	0.07	0.325	0	6.69	0.26	0.217
D00_014	3.623	42.93	2,209.68	50	3.19	0.012	0.345	0.07	0.32	0	6.69	0.26	0.217
D00_015	6.792	24.57	2,070.91	100	4.203	0.012	0.515	0.07	0.387	77.6	6.69	0.26	0.217
D00_016	8.254	9.81	2,516.92	100	4.239	0.012	0.506	0.07	0.385	29.9	6.69	0.26	0.217
D00_017	12.897	52.02	3,932.55	100	3.306	0.012	0.42	0.07	0.35	0	6.69	0.26	0.217
D00_018	5.256	54.27	1,602.77	100	2.509	0.012	0.229	0.07	0.273	0	6.69	0.26	0.217
D00_019	5.263	46.44	1,604.90	100	2.542	0.012	0.276	0.07	0.293	0	6.69	0.26	0.217
D00_020	2.881	48.15	878.476	100	2.931	0.012	0.319	0.07	0.309	0	5.018	0.195	0.163
D00_021	5.561	44.19	1,695.71	100	3.378	0.012	0.356	0.07	0.324	0	6.69	0.26	0.217
D00_022	4.923	35.1	1,501.10	100	3.569	0.012	0.463	0.07	0.367	0	6.69	0.26	0.217
D00_023	11.44	11.16	3,488.24	100	3.698	0.012	0.476	0.07	0.372	0	5.734	0.223	0.186
D00_024	3.012	55.44	918.4	100	2.457	0.012	0.325	0.07	0.312	30.8	6.69	0.26	0.217
D00_025	3.007	61.74	2,292.09	40	3.141	0.012	0.359	0.07	0.326	0	6.69	0.26	0.217
D00_026	16.868	8.91	5,143.30	100	4.265	0.012	0.495	0.07	0.38	31.5	6.69	0.26	0.217
D00_027	2.757	65.97	1,867.89	45	2.402	0.012	0.408	0.07	0.346	0	6.69	0.26	0.217
D00_028	2.701	9	823.677	100	4.383	0.012	0.507	0.07	0.385	0	6.69	0.26	0.217
D00_029	49.08	2.88	14,965.46	100	4.923	0.012	0.489	0.07	0.377	0	6.69	0.26	0.217
D00_030	3.764	0.99	1,147.79	100	4.09	0.012	0.52	0.07	0.39	0	6.69	0.26	0.217
D00_031	5.869	3.96	1,789.42	100	3.529	0.012	0.338	0.07	0.317	0	6.69	0.26	0.217
D00_032	0.183	14.31	223.138	25	3.839	0.012	0.52	0.07	0.39	0	6.69	0.26	0.217
D00_033	6.797	1.44	2,072.57	100	4.522	0.012	0.52	0.07	0.39	0	6.69	0.26	0.217
D00_034	6.146	5.31	1,874.04	100	4.178	0.012	0.519	0.07	0.389	0	6.69	0.26	0.217
D00_035	2.236	5.49	681.833	100	3.797	0.012	0.429	0.07	0.354	0	6.69	0.26	0.217

Allen Basin Study Area
Table 2.1
Sub-Catchment Hydrologic Parameter Table

Subcatchment ID	Subcatchment Area (ac)	Subcatch. Imperviousness (%)	Subcatchment Width (ft)	Subcatchment Length (ft)	Subcatchment Slope (%)	Manning's N for Imperv. Portion	Manning's N for Pervious Portion	Depression Stor. for Imp. Portion (in)	Depression Stor. for Perv. Portion (in)	% of Imperv. Part w/o Dep. Stor.	Capillary Suction (in)	Sat. Hydraulic Conductivity (in/hr)	Initial Soil Moisture Deficit
D00_036	56.71	0.99	17,292.00	100	3.094	0.012	0.42	0.07	0.35	0	6.69	0.26	0.217
D00_037_01	13.789	9.9	4,204.51	100	4.046	0.012	0.49	0.07	0.378	0	6.69	0.26	0.217
D00_037_02	12.149	12.96	3,704.59	100	3.968	0.012	0.495	0.07	0.381	0	6.69	0.26	0.217
D00_038	5.359	28.53	2,723.53	60	2.975	0.012	0.256	0.07	0.285	0	6.69	0.26	0.217
D00_039	0.841	8.01	513.153	50	3.782	0.012	0.298	0.07	0.302	0	6.69	0.26	0.217
D00_040	39.846	5.49	12,149.69	100	3.728	0.012	0.434	0.07	0.356	0	6.69	0.26	0.217
D00_041	11.751	8.28	3,583.08	100	2.39	0.012	0.203	0.07	0.263	4.3	6.69	0.26	0.217
D00_042	0.874	53.46	592.192	45	2.621	0.012	0.247	0.07	0.281	0	6.69	0.26	0.217
D00_043	0.278	54.45	169.396	50	3.34	0.012	0.265	0.07	0.289	0	6.69	0.26	0.217
D00_044	1.581	60.12	964.228	50	2.461	0.012	0.215	0.07	0.268	0	6.69	0.26	0.217
D00_045	7.553	2.43	2,302.91	100	3.546	0.012	0.415	0.07	0.348	0	6.69	0.26	0.217
D00_046	0.776	64.17	473.008	50	2.466	0.012	0.203	0.07	0.263	0	6.69	0.26	0.217
D00_047	25.705	2.43	7,837.83	100	4.226	0.012	0.46	0.07	0.365	0	6.69	0.26	0.217
D00_048	1.949	60.12	1,320.65	45	2.366	0.012	0.248	0.07	0.281	0	6.69	0.26	0.217
D00_049	0.833	12.24	254.133	100	4.111	0.012	0.199	0.07	0.261	0	6.69	0.26	0.217
D00_050	1.437	7.74	438.071	100	4.855	0.012	0.508	0.07	0.385	0	6.69	0.26	0.217
D00_051	4.377	40.5	2,669.35	50	3.319	0.012	0.203	0.07	0.263	0	6.69	0.26	0.217
D00_052	1.391	4.14	423.998	100	4.545	0.012	0.42	0.07	0.35	0	6.69	0.26	0.217
D00_053	1.173	48.51	893.816	40	2.59	0.012	0.298	0.07	0.302	0	6.69	0.26	0.217
D00_054	6.418	2.07	1,956.93	100	4.784	0.012	0.465	0.07	0.368	0	6.69	0.26	0.217
D00_055	43.546	4.14	11,338.15	100	4.407	0.012	0.486	0.07	0.377	0	6.69	0.26	0.217
D00_055.1	6.361	19.17	1,939.72	100	3.661	0.012	0.486	0.07	0	0	6.69	0.26	0.217
D00_056	4.196	37.26	1,279.41	100	3.494	0.012	0.334	0.07	0.316	0	6.69	0.26	0.217
D00_057	0.415	46.35	316.349	40	4.108	0.012	0.261	0.07	0.287	0	6.69	0.26	0.217
D00_058	32.743	15.84	9,984.03	100	3.974	0.012	0.361	0.07	0.326	0	6.69	0.26	0.217
D00_059	6.374	6.84	1,943.70	100	4.271	0.012	0.51	0.07	0.386	0	6.69	0.26	0.217
D00_060	1.055	57.69	804.524	40	4.104	0.012	0.394	0.07	0.339	0	6.69	0.26	0.217
D00_061	1.029	8.73	313.788	100	4.474	0.012	0.389	0.07	0.338	0	6.69	0.26	0.217
D00_062	4.433	6.48	1,351.71	100	5.008	0.012	0.454	0.07	0.364	0	6.69	0.26	0.217
D00_063	2.144	57.33	1,867.43	35	3.74	0.012	0.354	0.07	0.324	0	6.69	0.26	0.217
D00_064	6.496	4.32	1,980.76	100	4.48	0.012	0.519	0.07	0.39	0	6.69	0.26	0.217
D00_065	14.271	0.72	4,351.43	100	4.318	0.012	0.52	0.07	0.39	0	6.69	0.26	0.217
D00_066	5.669	9.63	1,728.46	100	4.704	0.012	0.501	0.07	0.382	0	6.69	0.26	0.217
D01_001	2.859	42.03	871.703	100	3.696	0.012	0.335	0.07	0.316	0	6.69	0.26	0.217
D01_002	0.976	54.27	595.176	50	2.925	0.012	0.251	0.07	0.282	0	6.69	0.26	0.217
D01_003	8.652	46.35	2,638.02	100	3.424	0.012	0.338	0.07	0.317	0	6.69	0.26	0.217
D01_004	2.998	46.35	914.149	100	3.564	0.012	0.345	0.07	0.32	0	6.69	0.26	0.217
D01_005	1.926	42.12	587.373	100	3.298	0.012	0.259	0.07	0.286	0	6.69	0.26	0.217
D01_006	0.906	53.1	394.446	70	3.888	0.012	0.265	0.07	0.287	0	6.69	0.26	0.217
D01_007	9.246	43.74	2,819.37	100	3.706	0.012	0.347	0.07	0.321	0	6.69	0.26	0.217
D02_001	40.958	44.1	12,488.88	100	3.259	0.012	0.359	0.07	0.326	0	6.69	0.26	0.217
D02_002	1.212	67.86	527.864	70	3.442	0.012	0.372	0.07	0.33	0	6.69	0.26	0.217
D02_003	1.236	60.03	470.917	80	3.238	0.012	0.411	0.07	0.346	0	6.69	0.26	0.217
D02_004	25.264	19.53	7,703.39	100	3.434	0.012	0.42	0.07	0.35	0	6.69	0.26	0.217
D02_005	2.724	4.05	830.479	100	3.813	0.012	0.43	0.07	0.354	0	6.69	0.26	0.217
D02_006	22.88	9.99	6,976.66	100	4.252	0.012	0.445	0.07	0.36	0	6.69	0.26	0.217
D02_007	7.4	15.93	2,256.55	100	3.818	0.012	0.432	0.07	0.355	0	6.69	0.26	0.217
D03_001	51.926	16.2	15,833.33	100	3.565	0.012	0.482	0.07	0.374	11.6	6.69	0.26	0.217
D03_002	75.867	39.33	23,133.43	100	3.302	0.012	0.394	0.07	0.339	1.2	6.69	0.26	0.217

Allen Basin Study Area
Table 2.1
Sub-Catchment Hydrologic Parameter Table

Subcatchment ID	Subcatchment Area (ac)	Subcatch. Imperviousness (%)	Subcatchment Width (ft)	Subcatchment Length (ft)	Subcatchment Slope (%)	Manning's N for Imperv. Portion	Manning's N for Pervious Portion	Depression Stor. for Imp. Portion (in)	Depression Stor. for Perv. Portion (in)	% of Imperv. Part w/o Dep. Stor.	Capillary Suction (in)	Sat. Hydraulic Conductivity (in/hr)	Initial Soil Moisture Deficit
D03_003	9.848	27.72	3,002.73	100	4.066	0.012	0.335	0.07	0.316	0	6.69	0.26	0.217
D03_004	15.909	36	4,850.81	100	3.842	0.012	0.438	0.07	0.358	0	6.69	0.26	0.217
D03_005	7.177	10.98	2,188.52	100	4.317	0.012	0.463	0.07	0.367	0	6.69	0.26	0.217
D03_006	7.82	48.15	2,384.48	100	3.752	0.012	0.408	0.07	0.345	0	6.69	0.26	0.217
D03_007	2.414	47.7	735.948	100	3.645	0.012	0.372	0.07	0.33	0	6.69	0.26	0.217
D03_008	5.733	40.68	1,748.16	100	3.797	0.012	0.385	0.07	0.335	0	6.69	0.26	0.217
D03_009	0.378	73.62	383.906	30	3.038	0.012	0.458	0.07	0.365	0	6.69	0.26	0.217
D03_010	16.604	14.04	5,062.77	100	4.453	0.012	0.465	0.07	0.368	0	6.69	0.26	0.217
D03_011	84.313	13.5	25,708.64	100	4.17	0.012	0.493	0.07	0.38	21.6	5.203	0.202	0.169
D03_012	20.798	40.14	6,341.74	100	2.74	0.012	0.251	0.07	0.282	2.4	6.69	0.26	0.217
D03_013	12.075	22.95	3,681.89	100	2.861	0.012	0.382	0.07	0.335	0	6.69	0.26	0.217
D03_014	8.417	72.81	2,566.65	100	2.82	0.012	0.274	0.07	0.291	0	6.69	0.26	0.217
D03_015	0.559	60.03	170.349	100	4.038	0.012	0.196	0.07	0.26	0	6.69	0.26	0.217
D03_016	4.887	53.82	1,490.23	100	3.182	0.012	0.345	0.07	0.32	0	6.69	0.26	0.217
D03_017	5.536	30.87	1,687.99	100	3.666	0.012	0.358	0.07	0.325	0	6.69	0.26	0.217
D03_018	0.024	80.73	37.172	20	3.506	0.012	0.478	0.07	0.373	0	6.69	0.26	0.217
D03_019	5.145	56.88	1,568.90	100	3.306	0.012	0.335	0.07	0.316	0	6.69	0.26	0.217
D03_020	5.136	34.74	1,566.03	100	3.794	0.012	0.399	0.07	0.342	0	6.69	0.26	0.217
D03_021	27.875	26.82	8,499.72	100	3.666	0.012	0.371	0.07	0.33	0	6.69	0.26	0.217
D04_001	1.933	39.33	842.12	70	3.71	0.012	0.244	0.07	0.28	0	6.69	0.26	0.217
D04_002	4.636	36.63	1,413.54	100	3.662	0.012	0.308	0.07	0.306	0	6.69	0.26	0.217
D04_003	8.888	28.08	2,710.19	100	3.914	0.012	0.432	0.07	0.355	0	6.69	0.26	0.217
D04_004	0.825	55.89	628.551	40	3.72	0.012	0.334	0.07	0.316	0	6.69	0.26	0.217
D04_005	1.092	37.26	332.889	100	3.782	0.012	0.287	0.07	0.296	0	6.69	0.26	0.217
D04_006	0.554	44.28	168.876	100	3.832	0.012	0.29	0.07	0.298	0	6.69	0.26	0.217
D04_007	2.309	36.81	703.975	100	3.993	0.012	0.403	0.07	0.343	0	4.46	0.173	0.145
D04_008	8.991	35.28	2,741.59	100	3.728	0.012	0.342	0.07	0.319	0	5.352	0.208	0.174
D04_009	0.23	56.43	350.651	20	3.326	0.012	0.27	0.07	0.29	0	6.69	0.26	0.217
D04_010	3.583	40.59	1,092.62	100	3.654	0.012	0.326	0.07	0.312	0	5.018	0.195	0.163
D04_011	4.375	27.63	1,333.92	100	4.231	0.012	0.36	0.07	0.326	0	5.018	0.195	0.163
D04_012	0.639	30.6	194.935	100	3.966	0.012	0.402	0.07	0.343	0	6.69	0.26	0.217
D04_013	1.044	49.41	374.679	85	3.823	0.012	0.364	0.07	0.328	0	6.69	0.26	0.217
D04_014	9.745	36.54	2,971.47	100	3.484	0.012	0.309	0.07	0.306	0	6.69	0.26	0.217
D05_001	6.264	36.9	1,910.12	100	3.42	0.012	0.364	0.07	0.328	0	6.69	0.26	0.217
D05_002	11.902	18	3,629.12	100	4.642	0.012	0.339	0.07	0.317	0	6.69	0.26	0.217
D05_003	4.999	35.73	1,524.32	100	3.29	0.012	0.348	0.07	0.321	0	6.69	0.26	0.217
D05_004	0.734	40.32	497.183	45	3.371	0.012	0.257	0.07	0.285	0	6.69	0.26	0.217
D05_005	5.386	27.99	1,642.21	100	3.937	0.012	0.391	0.07	0.338	0	6.69	0.26	0.217
D05_006	3.391	43.92	1,034.09	100	3.285	0.012	0.36	0.07	0.326	0	6.69	0.26	0.217
D05_007	2.939	26.01	896.244	100	4.06	0.012	0.407	0.07	0.345	0	6.69	0.26	0.217
D05_008	1.793	36.09	546.705	100	4.119	0.012	0.361	0.07	0.326	0	6.69	0.26	0.217
D05_009	1.987	52.38	932.307	65	3.762	0.012	0.3	0.07	0.303	0	6.69	0.26	0.217
D05_010	2.821	44.19	860.193	100	3.483	0.012	0.329	0.07	0.313	0	6.69	0.26	0.217
D05_011	15.994	34.83	4,876.92	100	3.744	0.012	0.328	0.07	0.313	0	6.69	0.26	0.217
D06_001	42.939	7.38	13,092.77	100	3.612	0.012	0.456	0.07	0.364	13.5	6.69	0.26	0.217
D06_002	0.912	60.39	556.45	50	3.323	0.012	0.25	0.07	0.282	0	6.69	0.26	0.217
D06_003	2.241	41.04	1,366.50	50	3.67	0.012	0.355	0.07	0.324	0	6.69	0.26	0.217
D06_004	1.902	38.88	580.039	100	3.443	0.012	0.384	0.07	0.335	0	6.69	0.26	0.217
D06_005	4.71	49.68	1,436.09	100	3.95	0.012	0.38	0.07	0.334	0	6.69	0.26	0.217

Allen Basin Study Area
Table 2.1
Sub-Catchment Hydrologic Parameter Table

Subcatchment ID	Subcatchment Area (ac)	Subcatch. Imperviousness (%)	Subcatchment Width (ft)	Subcatchment Length (ft)	Subcatchment Slope (%)	Manning's N for Imperv. Portion	Manning's N for Pervious Portion	Depression Stor. for Imp. Portion (in)	Depression Stor. for Perv. Portion (in)	% of Imperv. Part w/o Dep. Stor.	Capillary Suction (in)	Sat. Hydraulic Conductivity (in/hr)	Initial Soil Moisture Deficit
D06_006	5.46	52.56	1,664.74	100	3.992	0.012	0.426	0.07	0.352	0	6.69	0.26	0.217
D06_007	1.391	53.64	424.066	100	3.539	0.012	0.354	0.07	0.324	0	6.69	0.26	0.217
D06_008	4.92	45.81	1,500.30	100	4.179	0.012	0.429	0.07	0.354	0	6.69	0.26	0.217
D06_009	9.878	38.34	3,011.98	100	3.699	0.012	0.385	0.07	0.335	0	6.69	0.26	0.217
D06_010	17.852	47.07	5,443.48	100	3.882	0.012	0.394	0.07	0.339	0	6.69	0.26	0.217
D06_011	21.464	33.12	6,544.84	100	4.247	0.012	0.451	0.07	0.363	0	6.69	0.26	0.217
D06_012	0.637	60.48	777.345	25	3.425	0.012	0.361	0.07	0.326	0	6.69	0.26	0.217
D06_013	14.894	52.2	4,541.35	100	3.993	0.012	0.348	0.07	0.321	0	6.69	0.26	0.217
D06_014	1.898	56.61	826.918	70	2.837	0.012	0.363	0.07	0.326	0	6.69	0.26	0.217
D06_015	14.538	46.98	4,432.76	100	3.993	0.012	0.4	0.07	0.342	0	6.69	0.26	0.217
D06_016	26.951	53.46	8,217.93	100	3.725	0.012	0.365	0.07	0.328	0	6.69	0.26	0.217
D06_017	1.565	49.05	1,363.29	35	4.065	0.012	0.361	0.07	0.326	0	6.69	0.26	0.217
D06_018	5.093	52.38	1,553.00	100	4.066	0.012	0.368	0.07	0.329	0	6.69	0.26	0.217
D06_019	2.987	58.68	1,071.36	85	4.126	0.012	0.345	0.07	0.32	0	6.69	0.26	0.217
D06_021	4.714	55.26	1,437.48	100	3.57	0.012	0.373	0.07	0.332	0	6.69	0.26	0.217
D06_022	7.644	48.33	2,330.70	100	3.802	0.012	0.402	0.07	0.343	0	6.69	0.26	0.217
D06_023	0.507	35.73	154.616	100	4.529	0.012	0.39	0.07	0.338	0	6.69	0.26	0.217
D06_024	10.855	49.5	3,309.83	100	3.793	0.012	0.397	0.07	0.341	0	6.69	0.26	0.217
D06_025	21.14	7.92	6,446.09	100	4.713	0.012	0.508	0.07	0.385	0	6.69	0.26	0.217
D06_026	4.411	58.23	1,344.87	100	3.794	0.012	0.378	0.07	0.334	0	6.69	0.26	0.217
D06_027	1.803	54.18	549.751	100	3.207	0.012	0.393	0.07	0.339	0	6.69	0.26	0.217
D06_028	17.01	57.06	5,186.66	100	3.602	0.012	0.371	0.07	0.33	0	5.575	0.217	0.181
D06_029	6.581	56.43	2,006.75	100	3.835	0.012	0.372	0.07	0.332	0	6.69	0.26	0.217
D06_030	1.992	54.99	607.324	100	3.93	0.012	0.36	0.07	0.326	0	6.69	0.26	0.217
D06_031	3.173	48.6	967.482	100	3.973	0.012	0.352	0.07	0.322	0	6.69	0.26	0.217
D06_032	15.953	27.18	4,864.25	100	4.322	0.012	0.407	0.07	0.345	0	6.69	0.26	0.217
D06_033	1.791	66.42	545.969	100	3.74	0.012	0.277	0.07	0.293	0	6.69	0.26	0.217
D06_034	4.681	66.6	2,039.17	70	4.124	0.012	0.346	0.07	0.32	0	6.69	0.26	0.217
D06_035	6.256	45.45	2,543.36	75	3.665	0.012	0.386	0.07	0.337	0	6.69	0.26	0.217
D06_036	1.494	65.7	759.037	60	3.605	0.012	0.238	0.07	0.277	0	6.69	0.26	0.217
D06_037	2.425	44.01	1,137.46	65	3.338	0.012	0.315	0.07	0.308	0	6.69	0.26	0.217
D06_038	2.326	51.93	1,013.41	70	3.578	0.012	0.394	0.07	0.339	0	6.69	0.26	0.217
D06_039	2.575	29.07	1,570.18	50	4.086	0.012	0.369	0.07	0.33	0	6.69	0.26	0.217
D06_040	8.543	40.68	2,604.98	100	3.458	0.012	0.354	0.07	0.324	4.8	6.69	0.26	0.217
D06_041	38.501	23.94	11,739.74	100	4.285	0.012	0.376	0.07	0.332	3.7	6.69	0.26	0.217
D06_042	0.188	63.45	287.217	20	2.743	0.012	0.261	0.07	0.286	0	6.69	0.26	0.217
D06_043	11.129	29.97	3,393.36	100	3.794	0.012	0.41	0.07	0.346	0	6.69	0.26	0.217
D06_044	0.989	68.76	1,005.64	30	3.797	0.012	0.23	0.07	0.274	0	6.69	0.26	0.217
D06_045_01	7.738	46.08	2,359.36	100	4.122	0.012	0.412	0.07	0.347	0	6.69	0.26	0.217
D06_045_02	3.549	48.15	1,082.29	100	3.754	0.012	0.304	0.07	0.303	0	6.69	0.26	0.217
D06_045_03	5.327	50.58	1,624.22	100	3.618	0.012	0.334	0.07	0.316	0	6.69	0.26	0.217
D06_046	1.132	53.55	575.047	60	3.674	0.012	0.295	0.07	0.3	0	6.69	0.26	0.217
D06_047	2.771	47.43	844.887	100	3.79	0.012	0.348	0.07	0.321	0	6.69	0.26	0.217
D06_048	1.218	55.17	618.816	60	3.508	0.012	0.374	0.07	0.332	0	6.69	0.26	0.217
D06_049	3.554	41.67	1,083.82	100	4.602	0.012	0.382	0.07	0.335	0	6.69	0.26	0.217
D06_050	14.64	46.35	4,463.99	100	4.233	0.012	0.365	0.07	0.328	0	6.69	0.26	0.217
D06_051	25.27	41.22	7,705.22	100	3.658	0.012	0.415	0.07	0.348	0	6.69	0.26	0.217
D06_052	1.834	56.52	559.075	100	3.914	0.012	0.378	0.07	0.333	0	6.69	0.26	0.217
D06_053	11.536	45.27	3,517.41	100	3.926	0.012	0.371	0.07	0.33	0	6.69	0.26	0.217

Allen Basin Study Area
Table 2.1
Sub-Catchment Hydrologic Parameter Table

Subcatchment ID	Subcatchment Area (ac)	Subcatch. Imperviousness (%)	Subcatchment Width (ft)	Subcatchment Length (ft)	Subcatchment Slope (%)	Manning's N for Imperv. Portion	Manning's N for Pervious Portion	Depression Stor. for Imp. Portion (in)	Depression Stor. for Perv. Portion (in)	% of Imperv. Part w/o Dep. Stor.	Capillary Suction (in)	Sat. Hydraulic Conductivity (in/hr)	Initial Soil Moisture Deficit
D06_054	43.483	21.15	13,258.76	100	3.984	0.012	0.445	0.07	0.36	0	5.734	0.223	0.186
D06_055	6.953	47.79	2,120.07	100	3.163	0.012	0.335	0.07	0.316	0	6.69	0.26	0.217
D06_056	9.012	49.41	2,747.97	100	3.655	0.012	0.38	0.07	0.334	0	6.69	0.26	0.217
D06_057	4.595	43.47	1,401.16	100	3.842	0.012	0.403	0.07	0.343	0	6.69	0.26	0.217
D06_058	17.69	40.41	5,393.94	100	3.984	0.012	0.391	0.07	0.338	0	6.69	0.26	0.217
D06_059	5.212	40.5	2,648.51	60	3.709	0.012	0.393	0.07	0.339	0	6.69	0.26	0.217
D06_060	4.217	56.34	1,285.72	100	3.742	0.012	0.354	0.07	0.324	0	6.69	0.26	0.217
D06_061	3.132	47.88	954.894	100	4.033	0.012	0.355	0.07	0.324	0	6.69	0.26	0.217
D06_062	8.59	47.43	2,619.19	100	3.705	0.012	0.382	0.07	0.335	0	6.69	0.26	0.217
D06_063	8.859	41.94	2,701.25	100	3.251	0.012	0.345	0.07	0.32	0	5.352	0.208	0.174
D06_064	0.421	71.82	256.715	50	2.742	0.012	0.228	0.07	0.273	0	3.345	0.13	0.109
D06_065	7.334	49.23	2,236.29	100	3.46	0.012	0.358	0.07	0.325	0	5.018	0.195	0.163
D06_066	13.573	36.18	4,138.63	100	4.194	0.012	0.391	0.07	0.338	0	6.69	0.26	0.217
D06_067	7.679	23.94	2,341.45	100	4.186	0.012	0.416	0.07	0.348	0	5.018	0.195	0.163
D06_068	28.455	24.12	8,676.55	100	3.556	0.012	0.49	0.07	0.378	36.3	5.352	0.208	0.174
D06_101	9.454	53.37	2,882.85	100	3.244	0.012	0.365	0.07	0.328	0	6.69	0.26	0.217
D06_114_1	1.666	63.54	508.053	100	3.193	0.012	0.341	0.07	0.319	0	6.69	0.26	0.217
D06_115_1	1.828	53.28	619.234	90	3.208	0.012	0.459	0.07	0.365	0	6.69	0.26	0.217
D06_139	5.821	54.81	1,775.05	100	3.79	0.012	0.391	0.07	0.338	0	6.69	0.26	0.217
D07_001	11.973	3.33	3,650.75	100	4.141	0.012	0.511	0.07	0.386	81.3	6.69	0.26	0.217
D07_002	25.19	17.28	7,680.94	100	4.216	0.012	0.494	0.07	0.38	11.5	6.69	0.26	0.217
D07_003	21.23	50.4	6,473.36	100	3.848	0.012	0.389	0.07	0.338	0	6.69	0.26	0.217
D07_004	80.306	31.41	24,486.86	100	3.855	0.012	0.442	0.07	0.359	23.9	6.082	0.236	0.197
D07_005	40.423	9.45	12,325.75	100	4.272	0.012	0.472	0.07	0.371	28.7	6.69	0.26	0.217
D07_006	19.318	6.03	5,890.55	100	4.187	0.012	0.499	0.07	0.381	16	6.69	0.26	0.217
D07_007	11.89	45.9	3,625.59	100	3.552	0.012	0.386	0.07	0.337	0	6.69	0.26	0.217
D07_008	3.723	41.22	1,135.23	100	3.822	0.012	0.309	0.07	0.306	0	6.69	0.26	0.217
D07_009	3.051	63.36	1,329.05	70	3.512	0.012	0.304	0.07	0.304	0	6.69	0.26	0.217
D07_010	21.623	33.39	6,593.20	100	3.469	0.012	0.436	0.07	0.356	36.9	5.854	0.228	0.19
D07_011	40.759	8.01	12,428.04	100	3.91	0.012	0.489	0.07	0.378	16.8	6.69	0.26	0.217
D07_012	50.036	10.98	15,256.79	100	4.203	0.012	0.477	0.07	0.373	2.4	6.69	0.26	0.217
D07_013	4.808	15.3	1,465.93	100	3.854	0.012	0.465	0.07	0.368	36.9	5.018	0.195	0.163
D07_014	26.002	18.9	7,928.47	100	3.765	0.012	0.424	0.07	0.351	4.4	6.69	0.26	0.217
D07_015	3.658	68.67	2,788.83	40	3.588	0.012	0.377	0.07	0.333	0	6.69	0.26	0.217
D07_016	53.18	3.69	16,215.60	100	4.483	0.012	0.488	0.07	0.377	0	6.69	0.26	0.217
D07_017	2.071	30.33	631.426	100	3.218	0.012	0.251	0.07	0.282	0	6.69	0.26	0.217
D07_018	0.704	69.57	715.905	30	3.406	0.012	0.238	0.07	0.277	0	6.69	0.26	0.217
D07_019	6.009	17.1	1,832.36	100	4.153	0.012	0.499	0.07	0.381	0	6.69	0.26	0.217
D07_020	4.059	10.35	1,237.74	100	4.322	0.012	0.502	0.07	0.382	0	6.69	0.26	0.217
D07_021	0.58	49.95	442.363	40	3.423	0.012	0.32	0.07	0.309	0	6.69	0.26	0.217
D07_022	5.817	32.04	1,773.60	100	3.91	0.012	0.445	0.07	0.36	0	6.69	0.26	0.217
D07_023	12.685	8.37	3,867.82	100	4.466	0.012	0.507	0.07	0.385	0	6.69	0.26	0.217
D07_024	32.295	10.62	9,847.31	100	3.972	0.012	0.489	0.07	0.377	1.4	6.082	0.236	0.197
D07_025	0.195	87.66	340.256	17.5	2.094	0.012	0.316	0.07	0.308	0	6.69	0.26	0.217
D07_026	0.252	84.78	256.209	30	2.25	0.012	0.438	0.07	0.358	0	6.69	0.26	0.217
D07_027	9.468	20.52	2,887.09	100	3.87	0.012	0.512	0.07	0.387	0	6.69	0.26	0.217
D07_028	0.447	82.89	454.178	30	2.146	0.012	0.326	0.07	0.312	0	6.69	0.26	0.217
D07_029	0.201	85.5	305.794	20	2.762	0.012	0.463	0.07	0.367	0	6.69	0.26	0.217
D07_030	2.791	70.47	2,836.42	30	3.758	0.012	0.355	0.07	0.324	0	6.69	0.26	0.217

Allen Basin Study Area
Table 2.1
Sub-Catchment Hydrologic Parameter Table

Subcatchment ID	Subcatchment Area (ac)	Subcatch. Imperviousness (%)	Subcatchment Width (ft)	Subcatchment Length (ft)	Subcatchment Slope (%)	Manning's N for Imperv. Portion	Manning's N for Pervious Portion	Depression Stor. for Imp. Portion (in)	Depression Stor. for Perv. Portion (in)	% of Imperv. Part w/o Dep. Stor.	Capillary Suction (in)	Sat. Hydraulic Conductivity (in/hr)	Initial Soil Moisture Deficit
D07_031	3.722	54.9	1,135.05	100	3.353	0.012	0.376	0.07	0.332	0	6.69	0.26	0.217
D07_032	8.647	51.03	2,636.74	100	3.796	0.012	0.382	0.07	0.334	0	6.69	0.26	0.217
D07_033	0.969	44.01	492.68	60	3.022	0.012	0.404	0.07	0.343	0	6.69	0.26	0.217
D07_034	2.439	49.68	743.617	100	3.352	0.012	0.389	0.07	0.338	0	6.69	0.26	0.217
D07_035	0.978	35.1	596.523	50	3.619	0.012	0.376	0.07	0.332	0	6.69	0.26	0.217
D07_036	14.934	34.92	4,553.58	100	3.724	0.012	0.348	0.07	0.321	0	6.69	0.26	0.217
D07_037	17.544	4.14	5,349.59	100	4.09	0.012	0.52	0.07	0.39	0	6.69	0.26	0.217
D07_038	96.997	2.43	29,576.20	100	4.513	0.012	0.508	0.07	0.385	0	6.69	0.26	0.217
D07_039	25.263	9.72	7,703.24	100	4.355	0.012	0.486	0.07	0.377	0	6.69	0.26	0.217
D07_040	23.953	30.51	7,303.81	100	4.159	0.012	0.419	0.07	0.35	0.3	6.69	0.26	0.217
D07_041	8.91	1.53	2,716.96	100	4.227	0.012	0.516	0.07	0.389	0	6.69	0.26	0.217
D07_042	13.368	12.87	4,076.04	100	4.19	0.012	0.465	0.07	0.368	0.2	6.69	0.26	0.217
D07_043	13.682	60.48	4,171.98	100	2.836	0.012	0.234	0.07	0.276	0	6.69	0.26	0.217
D07_044	3.522	36.54	1,073.91	100	3.099	0.012	0.278	0.07	0.293	0	6.69	0.26	0.217
D07_045	0.219	88.92	222.571	30	3.117	0.012	0.356	0.07	0.325	0	6.69	0.26	0.217
D07_046	1.361	58.32	414.893	100	3.269	0.012	0.419	0.07	0.35	0	6.69	0.26	0.217
D07_047	5.206	50.76	1,587.52	100	2.938	0.012	0.347	0.07	0.321	34.1	6.69	0.26	0.217
D07_048	2.602	12.6	793.456	100	4.122	0.012	0.423	0.07	0.351	0	6.69	0.26	0.217
D07_049	2.806	67.41	1,426.10	60	3.748	0.012	0.319	0.07	0.309	0	6.69	0.26	0.217
D07_050	2.088	27.18	636.727	100	2.867	0.012	0.338	0.07	0.317	0	6.69	0.26	0.217
D07_051	11.283	34.65	3,440.47	100	3.877	0.012	0.338	0.07	0.317	0	6.69	0.26	0.217
D07_052	9.637	51.12	2,938.62	100	3.465	0.012	0.381	0.07	0.334	0	6.69	0.26	0.217
D07_053	2.535	34.2	772.99	100	3.787	0.012	0.494	0.07	0.38	0	6.69	0.26	0.217
D07_054	8.482	34.92	2,586.34	100	3.539	0.012	0.449	0.07	0.361	0	6.69	0.26	0.217
D07_055	3.37	46.26	1,027.54	100	3.618	0.012	0.421	0.07	0.35	0	6.69	0.26	0.217
D07_056	5.595	51.12	1,705.96	100	3.554	0.012	0.408	0.07	0.346	0	6.69	0.26	0.217
D07_057	10.611	40.86	3,235.47	100	3.714	0.012	0.341	0.07	0.319	0	6.69	0.26	0.217
D07_058	2.686	47.52	819.055	100	3.474	0.012	0.338	0.07	0.317	0	6.69	0.26	0.217
D07_059	6.475	46.26	1,974.43	100	3.707	0.012	0.335	0.07	0.316	0	6.69	0.26	0.217
D07_060	4.012	48.87	1,223.37	100	4.138	0.012	0.358	0.07	0.325	0	6.69	0.26	0.217
D08_001	14.969	41.49	4,564.22	100	3.304	0.012	0.3	0.07	0.302	0	6.69	0.26	0.217
D08_002	5.538	38.52	1,688.69	100	3.493	0.012	0.334	0.07	0.316	0	6.69	0.26	0.217
D08_003	2.117	42.48	645.639	100	3.249	0.012	0.368	0.07	0.329	0	6.69	0.26	0.217
D08_004	1.496	52.65	608.047	75	3.858	0.012	0.319	0.07	0.309	0	6.69	0.26	0.217
D08_005	2.865	53.28	1,164.70	75	3.777	0.012	0.268	0.07	0.29	0	6.69	0.26	0.217
D08_006	2.705	30.06	1,178.15	70	3.658	0.012	0.43	0.07	0.354	0	6.69	0.26	0.217
D08_007	2.654	45.72	1,244.91	65	3.648	0.012	0.339	0.07	0.317	0	6.69	0.26	0.217
D08_008	5.67	36.9	1,728.74	100	3.838	0.012	0.316	0.07	0.308	0	6.69	0.26	0.217
D08_009	2.421	21.06	868.426	85	4.094	0.012	0.35	0.07	0.322	0	6.69	0.26	0.217
D08_010	0.173	74.43	264.008	20	3.819	0.012	0.287	0.07	0.296	0	6.69	0.26	0.217
D08_011	1.564	19.17	476.861	100	4	0.012	0.395	0.07	0.339	0	6.69	0.26	0.217
D08_012	1.771	70.74	540.109	100	2.601	0.012	0.26	0.07	0.286	0	6.69	0.26	0.217
D08_013	3.169	48.24	966.391	100	2.692	0.012	0.333	0.07	0.316	0	6.69	0.26	0.217
D08_014	0.198	48.51	120.643	50	2.599	0.012	0.3	0.07	0.302	0	6.69	0.26	0.217
D08_015	1.274	42.39	388.334	100	2.586	0.012	0.306	0.07	0.304	0	6.69	0.26	0.217
D08_016	5.963	17.28	1,818.09	100	3.622	0.012	0.358	0.07	0.325	0	6.69	0.26	0.217
D09_001	0.989	50.31	1,005.01	30	3.625	0.012	0.25	0.07	0.282	0	6.69	0.26	0.217
D09_002	56.944	9.36	17,363.36	100	4.263	0.012	0.456	0.07	0.364	0	6.133	0.238	0.199
D09_003	2.124	24.57	647.642	100	4.373	0.012	0.26	0.07	0.286	0	6.69	0.26	0.217

Allen Basin Study Area
Table 2.1
Sub-Catchment Hydrologic Parameter Table

Subcatchment ID	Subcatchment Area (ac)	Subcatch. Imperviousness (%)	Subcatchment Width (ft)	Subcatchment Length (ft)	Subcatchment Slope (%)	Manning's N for Imperv. Portion	Manning's N for Pervious Portion	Depression Stor. for Imp. Portion (in)	Depression Stor. for Perv. Portion (in)	% of Imperv. Part w/o Dep. Stor.	Capillary Suction (in)	Sat. Hydraulic Conductivity (in/hr)	Initial Soil Moisture Deficit
D09_004	1.315	39.33	401.014	100	3.928	0.012	0.257	0.07	0.285	0	6.69	0.26	0.217
D09_005	2.883	38.7	878.952	100	4.066	0.012	0.298	0.07	0.302	0	6.69	0.26	0.217
D09_006	6.279	19.8	1,914.48	100	4.365	0.012	0.239	0.07	0.278	0	6.69	0.26	0.217
D09_007	0.561	52.02	284.875	60	3.441	0.012	0.257	0.07	0.285	0	6.69	0.26	0.217
D10_001	3.531	18.63	1,076.78	100	3.008	0.012	0.199	0.07	0.261	34.5	6.69	0.26	0.217
D10_002	4.816	23.76	1,468.50	100	3.024	0.012	0.196	0.07	0.26	21.2	6.69	0.26	0.217
D10_003	22.74	30.87	6,933.71	100	3.025	0.012	0.233	0.07	0.276	4.8	6.69	0.26	0.217
D10_004	3.333	13.41	1,129.28	90	3.93	0.012	0.415	0.07	0.348	0	6.69	0.26	0.217
D10_005	4.773	32.76	1,455.33	100	3.255	0.012	0.27	0.07	0.29	0	6.69	0.26	0.217
D10_006	6.697	35.64	2,041.93	100	3.85	0.012	0.441	0.07	0.359	0	6.69	0.26	0.217
D10_007	9.19	34.02	2,802.31	100	3.462	0.012	0.291	0.07	0.298	0	6.69	0.26	0.217
D10_008	1.877	27.36	572.477	100	3.523	0.012	0.263	0.07	0.287	0	6.69	0.26	0.217
D10_009	3.556	34.38	1,084.22	100	3.718	0.012	0.304	0.07	0.304	0	6.69	0.26	0.217
D10_010	6.551	12.6	1,997.55	100	3.706	0.012	0.424	0.07	0.351	0	6.69	0.26	0.217
D10_011	6.974	35.37	2,126.46	100	3.539	0.012	0.343	0.07	0.319	0	6.69	0.26	0.217
D10_012	3.054	41.31	1,095.73	85	3.661	0.012	0.277	0.07	0.293	0	6.69	0.26	0.217
D10_013	4.714	35.73	1,437.40	100	3.07	0.012	0.345	0.07	0.32	0	6.69	0.26	0.217
D10_014	1.351	42.12	515.103	80	3.592	0.012	0.281	0.07	0.295	0	6.69	0.26	0.217
D10_015	2.517	39.78	767.531	100	3.437	0.012	0.299	0.07	0.302	0	6.69	0.26	0.217
D10_016	2.137	47.34	1,448.03	45	3.647	0.012	0.248	0.07	0.281	0	6.69	0.26	0.217
D10_017	3.213	34.56	979.616	100	3.766	0.012	0.328	0.07	0.313	0	6.69	0.26	0.217
D10_018	7.136	32.58	2,175.94	100	3.949	0.012	0.311	0.07	0.307	0	6.69	0.26	0.217
D10_019	3.821	33.93	1,165.08	100	3.511	0.012	0.3	0.07	0.302	0	6.69	0.26	0.217
D10_020	4.712	44.01	1,436.72	100	2.97	0.012	0.293	0.07	0.299	0	6.69	0.26	0.217
D10_021	66.146	1.62	20,169.28	100	4.144	0.012	0.442	0.07	0.359	45.1	6.69	0.26	0.217
D11_001	3.482	26.19	1,633.37	65	3.833	0.012	0.256	0.07	0.285	36.1	6.69	0.26	0.217
D11_002	4.577	21.69	1,395.75	100	3.17	0.012	0.248	0.07	0.281	32.1	6.69	0.26	0.217
D11_003	4.965	26.82	1,513.95	100	3.125	0.012	0.338	0.07	0.317	29.8	6.69	0.26	0.217
D11_004	1.11	17.01	676.976	50	3.91	0.012	0.391	0.07	0.338	0	6.69	0.26	0.217
D11_005	99.996	14.04	30,490.53	100	3.67	0.012	0.342	0.07	0.319	25.4	6.69	0.26	0.217
D11_006	0.485	48.96	211.098	70	2.828	0.012	0.195	0.07	0.26	0	6.69	0.26	0.217
D11_007	0.896	25.11	273.063	100	2.766	0.012	0.195	0.07	0.26	0	6.69	0.26	0.217
D11_008	11.252	89.55	3,430.83	100	0.722	0.012	0.202	0.07	0.263	0	6.69	0.26	0.217
D11_009	0.83	85.59	253.045	100	2.33	0.012	0.195	0.07	0.26	0	6.69	0.26	0.217
D11_010	1.194	85.14	363.969	100	2.522	0.012	0.195	0.07	0.26	0	6.69	0.26	0.217
D11_011	0.599	85.05	215.05	85	2.482	0.012	0.195	0.07	0.26	0	6.69	0.26	0.217
D11_012	1.345	80.1	410.113	100	2.564	0.012	0.296	0.07	0.3	0	6.69	0.26	0.217
D11_013	2.786	78.3	849.608	100	2.701	0.012	0.384	0.07	0.335	0	6.69	0.26	0.217
D11_014	2.706	76.68	825.142	100	2.449	0.012	0.413	0.07	0.347	0	6.69	0.26	0.217
D11_015	6.176	53.64	3,766.59	50	2.49	0.012	0.43	0.07	0.354	0	6.69	0.26	0.217
D11_016	6	74.34	1,829.57	100	2.529	0.012	0.345	0.07	0.32	0	6.69	0.26	0.217
D11_017	1.608	17.91	490.203	100	3.626	0.012	0.196	0.07	0.261	0	6.69	0.26	0.217
D11_018	4.206	4.23	1,282.55	100	4.153	0.012	0.257	0.07	0.285	0	6.69	0.26	0.217
D11_019	4.152	17.46	1,266.06	100	3.13	0.012	0.198	0.07	0.261	0	6.69	0.26	0.217
D11_020	0.32	80.46	325.13	30	3.902	0.012	0.195	0.07	0.26	0	6.69	0.26	0.217
D11_021	2.567	34.74	782.604	100	3.042	0.012	0.202	0.07	0.263	0	6.69	0.26	0.217
D11_022	0.405	69.39	352.829	35	3.121	0.012	0.239	0.07	0.278	0	6.69	0.26	0.217
D11_023	11.563	30.69	3,525.72	100	3.624	0.012	0.306	0.07	0.304	0	6.69	0.26	0.217
D11_024	0.805	24.66	350.61	70	3.363	0.012	0.438	0.07	0.358	0	6.69	0.26	0.217

Allen Basin Study Area
Table 2.1
Sub-Catchment Hydrologic Parameter Table

Subcatchment ID	Subcatchment Area (ac)	Subcatch. Imperviousness (%)	Subcatchment Width (ft)	Subcatchment Length (ft)	Subcatchment Slope (%)	Manning's N for Imperv. Portion	Manning's N for Pervious Portion	Depression Stor. for Imp. Portion (in)	Depression Stor. for Perv. Portion (in)	% of Imperv. Part w/o Dep. Stor.	Capillary Suction (in)	Sat. Hydraulic Conductivity (in/hr)	Initial Soil Moisture Deficit
D11_025	6.525	18.63	1,989.58	100	3.016	0.012	0.204	0.07	0.264	0	6.69	0.26	0.22
D11_025_1	3.88	8.01	1,182.45	100	3.616	0.012	0.2	0.07	0.263	0	6.69	0.26	0.22
D11_025_2	0.245	9.72	93.254	80	3.96	0.012	0.328	0.07	0.313	0	6.69	0.26	0.22
D11_026	8.343	21.78	2,544.05	100	2.85	0.012	0.196	0.07	0.26	0	6.69	0.26	0.217
D11_027	2.83	56.97	862.782	100	2.357	0.012	0.198	0.07	0.261	74.8	6.69	0.26	0.217
D11_028	0.978	60.03	298.278	100	2.591	0.012	0.204	0.07	0.264	0	6.69	0.26	0.217
D11_029	1.252	29.16	763.799	50	2.971	0.012	0.196	0.07	0.26	0	6.69	0.26	0.217
D11_030	2.197	64.62	669.859	100	3.454	0.012	0.209	0.07	0.267	5.5	6.69	0.26	0.217
D11_031	27.091	88.29	8,260.61	100	0.409	0.012	0.209	0.07	0.265	0	6.69	0.26	0.217
D11_032	0.173	72.54	351.917	15	3.894	0.012	0.195	0.07	0.26	0	6.69	0.26	0.217
D11_033	0.96	65.25	292.732	100	3.034	0.012	0.195	0.07	0.26	0	6.69	0.26	0.217
D11_034	0.081	78.12	245.886	10	3.04	0.012	0.195	0.07	0.26	0	6.69	0.26	0.217
D11_035	0.412	61.47	358.693	35	3.112	0.012	0.196	0.07	0.26	0	6.69	0.26	0.217
D11_036	0.505	63.18	342.371	45	3.248	0.012	0.195	0.07	0.26	0	6.69	0.26	0.217
D11_037	0.883	60.48	336.718	80	2.382	0.012	0.195	0.07	0.26	0	6.69	0.26	0.217
D11_038	0.316	59.85	160.61	60	2.76	0.012	0.202	0.07	0.263	0	6.69	0.26	0.217
D11_039	1.331	76.68	405.996	100	1.496	0.012	0.195	0.07	0.26	0	6.69	0.26	0.217
D11_040	3.159	60.75	963.239	100	2.54	0.012	0.195	0.07	0.26	0	6.69	0.26	0.217
D11_041	0.444	87.93	135.523	100	2.145	0.012	0.195	0.07	0.26	0	6.69	0.26	0.217
D12_001	2.234	8.46	681.257	100	1.589	0.012	0.195	0.07	0.26	0	6.69	0.26	0.217
D12_002	0.689	79.65	233.59	90	2.169	0.012	0.195	0.07	0.26	0	6.69	0.26	0.217
D12_003	1.29	81.36	393.408	100	2.099	0.012	0.195	0.07	0.26	0	6.69	0.26	0.217
D12_004	1.445	83.88	440.637	100	2.05	0.012	0.196	0.07	0.26	0	6.69	0.26	0.217
D12_005	0.747	84.78	227.804	100	1.923	0.012	0.195	0.07	0.26	0	6.69	0.26	0.217
D12_006	0.534	46.8	162.7	100	3.198	0.012	0.198	0.07	0.261	0	6.69	0.26	0.217
D12_007	1.854	51.57	565.214	100	2.186	0.012	0.195	0.07	0.26	0	6.69	0.26	0.217
D12_008	0.346	55.62	351.211	30	3.153	0.012	0.202	0.07	0.263	0	6.69	0.26	0.217
D12_009	8.46	83.07	2,579.48	100	0.441	0.012	0.199	0.07	0.261	0	6.69	0.26	0.217
D12_010	0.115	79.56	194.232	18	2.653	0.012	0.195	0.07	0.26	0	6.69	0.26	0.217
D12_011	6.513	67.5	1,985.82	100	2.418	0.012	0.259	0.07	0.286	0	6.69	0.26	0.217
D12_012	17.91	86.4	5,461.14	100	0.458	0.012	0.281	0.07	0.295	0	6.69	0.26	0.217
D12_013	1.79	86.58	545.777	100	1.81	0.012	0.306	0.07	0.304	0	6.69	0.26	0.217
D12_014	0.382	70.65	583.01	20	3.269	0.012	0.306	0.07	0.304	0	6.69	0.26	0.217
D12_015	1.135	35.46	494.279	70	3.714	0.012	0.215	0.07	0.268	0	6.69	0.26	0.217
D12_016	1.485	19.98	452.738	100	2.158	0.012	0.204	0.07	0.264	0	6.69	0.26	0.217
D12_017	0.742	0	226.172	100	2.913	0.012	0.196	0.07	0.26	0	6.69	0.26	0.217
D12_018	0.364	52.65	370.01	30	3.249	0.012	0.195	0.07	0.26	0	6.69	0.26	0.217
D12_019	3.256	25.47	992.717	100	3.878	0.012	0.231	0.07	0.274	0	6.69	0.26	0.217

New Allen Basin Study
Table 2.2.1
Comparison of Final Calibrated Hydrologic Parameters with Initial Calculated Values

Original Greem & Ampt Parameters Calculated from GIS Intersection				
Subcatchment ID	Subcatchment Area (ac)	Weighted Capillary Suction (in)	Weighted Sat. Hydraulic Conductivity (in/hr)	Weighted Initial Soil Moisture Deficit (fraction)
A_001	1.759	5.352	0.208	0.174
A_002	117.271	6.244	0.243	0.203
A_003	21.237	5.018	0.195	0.163
A_004	1.168	6.69	0.26	0.217
A_005	12.73	6.69	0.26	0.217
A_006	3.326	6.69	0.26	0.217
A_007	5.179	6.69	0.26	0.217
A_008	1.224	6.69	0.26	0.217
A_009	0.984	6.69	0.26	0.217
A_010	6.284	6.69	0.26	0.217
A_011	0.368	6.69	0.26	0.217
A_012	5.928	6.69	0.26	0.217
A_013	11.154	6.69	0.26	0.217
A_014	2.245	6.69	0.26	0.217
A_015	0.247	6.69	0.26	0.217
A_016	7.852	6.69	0.26	0.217
A_017	1.834	6.69	0.26	0.217
A_018	1.448	6.69	0.26	0.217
A_019	2.623	6.69	0.26	0.217
A_020	1.287	6.69	0.26	0.217
A_021	3.448	6.69	0.26	0.217
A_022	4.571	6.69	0.26	0.217
A_023	1.671	6.69	0.26	0.217
A_024	2.139	6.69	0.26	0.217
A_025	0.554	6.69	0.26	0.217
A_026	8.458	6.69	0.26	0.217
B_001	19.517	4.46	0.173	0.145
B_002	52.258	6.69	0.26	0.217
B_003	56.676	4.779	0.186	0.155
B_004	38.66	6.69	0.26	0.217
B_006	5.436	6.69	0.26	0.217
B_007	7.171	6.69	0.26	0.217
B_008	34.711	6.69	0.26	0.217
B_009	15.417	6.69	0.26	0.217
B_012	19.902	6.69	0.26	0.217
B_013	8.003	6.69	0.26	0.217
B_014	74.061	6.69	0.26	0.217
B_016	24.172	6.69	0.26	0.217
B_017	76.833	6.69	0.26	0.217
B_020	7.172	6.69	0.26	0.217
B_021	2.821	6.69	0.26	0.217
B_022	4.946	6.69	0.26	0.217
B_023	2.621	6.69	0.26	0.217
C_001	249.517	5.352	0.208	0.174
C_002	9.835	6.69	0.26	0.217
C_003	15.282	6.69	0.26	0.217
C_004	10.639	6.69	0.26	0.217
C_005	21.403	6.69	0.26	0.217
C_006	1.033	6.69	0.26	0.217
C_007	2.495	6.69	0.26	0.217
C_008	3.143	6.69	0.26	0.217
C_009	2.38	6.69	0.26	0.217
C_010	0.994	6.69	0.26	0.217
C_011	3.174	6.69	0.26	0.217
C_012	5.77	6.69	0.26	0.217
C_013	5.169	6.69	0.26	0.217
C_014	12.207	6.69	0.26	0.217
C_015	14.082	6.69	0.26	0.217
C_016	1.161	6.69	0.26	0.217
C_017	5.686	6.69	0.26	0.217
C_018	50.823	6.69	0.26	0.217
C_019	31.668	6.69	0.26	0.217
C_020	21.747	6.69	0.26	0.217
D00_001	347.449	5.62	0.218	0.182
D00_002	75.241	6.133	0.238	0.199

Final Calibrated Green & Ampt Parameters used in InfoSWMM Model						
Subcatchment ID	Calibrated Capillary Suction (in)	Comparison with Original Weighted Capillary Suction (%)	Calibrated Sat. Hydraulic Conductivity (in/hr)	Comparison with Original Weighted Sat. Hydraulic Conductivity (%)	Calibrated Initial Soil Moisture Deficit (fraction)	Comparison with Original Weighted Initial Soil Moisture Deficit (%)
A_001	5.352	0%	0.208	0%	0.174	0%
A_002	6.244	0%	0.243	0%	0.203	0%
A_003	5.018	0%	0.195	0%	0.163	0%
A_004	6.69	0%	0.26	0%	0.217	0%
A_005	6.69	0%	0.26	0%	0.217	0%
A_006	6.69	0%	0.26	0%	0.217	0%
A_007	6.69	0%	0.26	0%	0.217	0%
A_008	6.69	0%	0.26	0%	0.217	0%
A_009	6.69	0%	0.26	0%	0.217	0%
A_010	6.69	0%	0.26	0%	0.217	0%
A_011	6.69	0%	0.26	0%	0.217	0%
A_012	6.69	0%	0.26	0%	0.217	0%
A_013	6.69	0%	0.26	0%	0.217	0%
A_014	6.69	0%	0.26	0%	0.217	0%
A_015	6.69	0%	0.26	0%	0.217	0%
A_016	6.69	0%	0.26	0%	0.217	0%
A_017	6.69	0%	0.26	0%	0.217	0%
A_018	6.69	0%	0.26	0%	0.217	0%
A_019	6.69	0%	0.26	0%	0.217	0%
A_020	6.69	0%	0.26	0%	0.217	0%
A_021	6.69	0%	0.26	0%	0.217	0%
A_022	6.69	0%	0.26	0%	0.217	0%
A_023	6.69	0%	0.26	0%	0.217	0%
A_024	6.69	0%	0.26	0%	0.217	0%
A_025	6.69	0%	0.26	0%	0.217	0%
A_026	6.69	0%	0.26	0%	0.217	0%
B_001	4.46	0%	0.173	0%	0.145	0%
B_002	6.69	0%	0.26	0%	0.217	0%
B_003	4.779	0%	0.186	0%	0.155	0%
B_004	6.69	0%	0.26	0%	0.217	0%
B_006	6.69	0%	0.26	0%	0.217	0%
B_007	6.69	0%	0.26	0%	0.217	0%
B_008	6.69	0%	0.26	0%	0.217	0%
B_009	6.69	0%	0.26	0%	0.217	0%
B_012	6.69	0%	0.26	0%	0.217	0%
B_013	6.69	0%	0.26	0%	0.217	0%
B_014	6.69	0%	0.26	0%	0.217	0%
B_016	6.69	0%	0.26	0%	0.217	0%
B_017	6.69	0%	0.26	0%	0.217	0%
B_020	6.69	0%	0.26	0%	0.217	0%
B_021	6.69	0%	0.26	0%	0.217	0%
B_022	6.69	0%	0.26	0%	0.217	0%
B_023	6.69	0%	0.26	0%	0.217	0%
C_001	5.352	0%	0.208	0%	0.174	0%
C_002	6.69	0%	0.26	0%	0.217	0%
C_003	6.69	0%	0.26	0%	0.217	0%
C_004	6.69	0%	0.26	0%	0.217	0%
C_005	6.69	0%	0.26	0%	0.217	0%
C_006	6.69	0%	0.26	0%	0.217	0%
C_007	6.69	0%	0.26	0%	0.217	0%
C_008	6.69	0%	0.26	0%	0.217	0%
C_009	6.69	0%	0.26	0%	0.217	0%
C_010	6.69	0%	0.26	0%	0.217	0%
C_011	6.69	0%	0.26	0%	0.217	0%
C_012	6.69	0%	0.26	0%	0.217	0%
C_013	6.69	0%	0.26	0%	0.217	0%
C_014	6.69	0%	0.26	0%	0.217	0%
C_015	6.69	0%	0.26	0%	0.217	0%
C_016	6.69	0%	0.26	0%	0.217	0%
C_017	6.69	0%	0.26	0%	0.217	0%
C_018	6.69	0%	0.26	0%	0.217	0%
C_019	6.69	0%	0.26	0%	0.217	0%
C_020	6.69	0%	0.26	0%	0.217	0%
D00_001	5.62	0%	0.218	0%	0.182	0%
D00_002	6.133	0%	0.238	0%	0.199	0%

Original Depression Storage Values Calculated from GIS Intersection		
Subcatchment ID	Weighted Depression Stor. for Imp. Portion (in)	Weighted Depression Stor. for Perv. Portion (in)
A_001	0.07	0.3
A_002	0.07	0.277
A_003	0.07	0.284
A_004	0.07	0.212
A_005	0.07	0.245
A_006	0.07	0.243
A_007	0.07	0.234
A_008	0.07	0.242
A_009	0.07	0.218
A_010	0.07	0.238
A_011	0.07	0.257
A_012	0.07	0.244
A_013	0.07	0.273
A_014	0.07	0.245
A_015	0.07	0.229
A_016	0.07	0.239
A_017	0.07	0.236
A_018	0.07	0.239
A_019	0.07	0.251
A_020	0.07	0.242
A_021	0.07	0.229
A_022	0.07	0.246
A_023	0.07	0.239
A_024	0.07	0.235
A_025	0.07	0.223
A_026	0.07	0.216
B_001	0.07	0.275
B_002	0.07	0.284
B_003	0.07	0.298
B_004	0.07	0.252
B_006	0.07	0.287
B_007	0.07	0.297
B_008	0.07	0.258
B_009	0.07	0.291
B_012	0.07	0.277
B_013	0.07	0.254
B_014	0.07	0.277
B_016	0.07	0.274
B_017	0.07	0.28
B_020	0.07	0.283
B_021	0.07	0.229
B_022	0.07	0.278
B_023	0.07	0.215
C_001	0.07	0.288
C_002	0.07	0.252
C_003	0.07	0.289
C_004	0.07	0.268
C_005	0.07	0.271
C_006	0.07	0.217
C_007	0.07	0.242
C_008	0.07	0.258
C_009	0.07	0.245
C_010	0.07	0.224
C_011	0.07	0.249
C_012	0.07	0.25
C_013	0.07	0.233
C_014	0.07	0.243
C_015	0.07	0.229
C_016	0.07	0.205
C_017	0.07	0.23
C_018	0.07	0.254
C_019	0.07	0.289
C_020	0.07	0.266
D00_001	0.07	0.294
D00_002	0.07	0.289

Final Calibrated Depression Storage Parameters used in InfoSWMM Model				
Subcatchment ID	Calibrated Depression Stor. for Imp. Portion (in)	Comparison with Original Weighted Depression Stor. for Imp. Portion (%)	Calibrated Depression Stor. for Perv. Portion (in)	Comparison with Original Weighted Depression Stor. for Perv. Portion (%)
A_001	0.07	0%	0.39	30%
A_002	0.07	0%	0.36	30%
A_003	0.07	0%	0.369	30%
A_004	0.07	0%	0.276	30%
A_005	0.07	0%	0.319	30%
A_006	0.07	0%	0.316	30%
A_007	0.07	0%	0.304	30%
A_008	0.07	0%	0.315	30%
A_009	0.07	0%	0.283	30%
A_010	0.07	0%	0.309	30%
A_011	0.07	0%	0.334	30%
A_012	0.07	0%	0.317	30%
A_013	0.07	0%	0.355	30%
A_014	0.07	0%	0.319	30%
A_015	0.07	0%	0.298	30%
A_016	0.07	0%	0.311	30%
A_017	0.07	0%	0.307	30%
A_018	0.07	0%	0.311	30%
A_019	0.07	0%	0.326	30%
A_020	0.07	0%	0.315	30%
A_021	0.07	0%	0.298	30%
A_022	0.07	0%	0.32	30%
A_023	0.07	0%	0.311	30%
A_024	0.07	0%	0.306	30%
A_025	0.07	0%	0.29	30%
A_026	0.07	0%	0.281	30%
B_001	0.07	0%	0.358	30%
B_002	0.07	0%	0.369	30%
B_003	0.07	0%	0.387	30%
B_004	0.07	0%	0.328	30%
B_006	0.07	0%	0.373	30%
B_007	0.07	0%	0.386	30%
B_008	0.07	0%	0.335	30%
B_009	0.07	0%	0.378	30%
B_012	0.07	0%	0.36	30%
B_013	0.07	0%	0.33	30%
B_014	0.07	0%	0.36	30%
B_016	0.07	0%	0.356	30%
B_017	0.07	0%	0.364	30%
B_020	0.07	0%	0.368	30%
B_021	0.07	0%	0.298	30%
B_022	0.07	0%	0.361	30%
B_023	0.07	0%	0.28	30%
C_001	0.07	0%	0.374	30%
C_002	0.07	0%	0.328	30%
C_003	0.07	0%	0.376	30%
C_004	0.07	0%	0.348	30%
C_				

New Allen Basin Study
Table 2.2.1
Comparison of Final Calibrated Hydrologic Parameters with Initial Calculated Values

Original Green & Ampt Parameters Calculated from GIS Intersection				
Subcatchment ID	Subcatchment Area (ac)	Weighted Capillary Suction (in)	Weighted Sat. Hydraulic Conductivity (in/hr)	Weighted Initial Soil Moisture Deficit (fraction)
D00_003	4.38	6.69	0.26	0.217
D00_004	0.34	6.69	0.26	0.217
D00_005	0.019	6.69	0.26	0.217
D00_006	5.578	6.69	0.26	0.217
D00_007	0.513	6.69	0.26	0.217
D00_008	0.694	6.69	0.26	0.217
D00_009	3.059	6.69	0.26	0.217
D00_010	0.104	6.69	0.26	0.217
D00_011	0.737	6.69	0.26	0.217
D00_012	9.903	5.575	0.217	0.181
D00_013	3.257	6.69	0.26	0.217
D00_014	3.623	6.69	0.26	0.217
D00_015	6.792	6.69	0.26	0.217
D00_016	8.254	6.69	0.26	0.217
D00_017	12.897	6.69	0.26	0.217
D00_018	5.256	6.69	0.26	0.217
D00_019	5.263	6.69	0.26	0.217
D00_020	2.881	5.018	0.195	0.163
D00_021	5.561	6.69	0.26	0.217
D00_022	4.923	6.69	0.26	0.217
D00_023	11.44	5.734	0.223	0.186
D00_024	3.012	6.69	0.26	0.217
D00_025	3.007	6.69	0.26	0.217
D00_026	16.868	6.69	0.26	0.217
D00_027	2.757	6.69	0.26	0.217
D00_028	2.701	6.69	0.26	0.217
D00_029	49.08	6.69	0.26	0.217
D00_030	3.764	6.69	0.26	0.217
D00_031	5.869	6.69	0.26	0.217
D00_032	0.183	6.69	0.26	0.217
D00_033	6.797	6.69	0.26	0.217
D00_034	6.146	6.69	0.26	0.217
D00_035	2.236	6.69	0.26	0.217
D00_036	56.71	6.69	0.26	0.217
D00_037_01	13.789	6.69	0.26	0.217
D00_037_02	12.149	6.69	0.26	0.217
D00_038	5.359	6.69	0.26	0.217
D00_039	0.841	6.69	0.26	0.217
D00_040	39.846	6.69	0.26	0.217
D00_041	11.751	6.69	0.26	0.217
D00_042	0.874	6.69	0.26	0.217
D00_043	0.278	6.69	0.26	0.217
D00_044	1.581	6.69	0.26	0.217
D00_045	7.553	6.69	0.26	0.217
D00_046	0.776	6.69	0.26	0.217
D00_047	25.705	6.69	0.26	0.217
D00_048	1.949	6.69	0.26	0.217
D00_049	0.833	6.69	0.26	0.217
D00_050	1.437	6.69	0.26	0.217
D00_051	4.377	6.69	0.26	0.217
D00_052	1.391	6.69	0.26	0.217
D00_053	1.173	6.69	0.26	0.217
D00_054	6.418	6.69	0.26	0.217
D00_055	37.184	6.69	0.26	0.217
D00_055.1	6.361	6.69	0.26	0.217
D00_056	4.196	6.69	0.26	0.217
D00_057	0.415	6.69	0.26	0.217
D00_058	32.743	6.69	0.26	0.217
D00_059	6.374	6.69	0.26	0.217
D00_060	1.055	6.69	0.26	0.217
D00_061	1.029	6.69	0.26	0.217
D00_062	4.433	6.69	0.26	0.217
D00_063	2.144	6.69	0.26	0.217
D00_064	6.496	6.69	0.26	0.217
D00_065	14.271	6.69	0.26	0.217

Final Calibrated Green & Ampt Parameters used in InfoSWMM Model						
Subcatchment ID	Calibrated Capillary Suction (in)	Comparison with Original Weighted Capillary Suction (%)	Calibrated Sat. Hydraulic Conductivity (in/hr)	Comparison with Original Weighted Sat. Hydraulic Conductivity (%)	Calibrated Initial Soil Moisture Deficit (fraction)	Comparison with Original Weighted Initial Soil Moisture Deficit (%)
D00_003	6.69	0%	0.26	0%	0.217	0%
D00_004	6.69	0%	0.26	0%	0.217	0%
D00_005	6.69	0%	0.26	0%	0.217	0%
D00_006	6.69	0%	0.26	0%	0.217	0%
D00_007	6.69	0%	0.26	0%	0.217	0%
D00_008	6.69	0%	0.26	0%	0.217	0%
D00_009	6.69	0%	0.26	0%	0.217	0%
D00_010	6.69	0%	0.26	0%	0.217	0%
D00_011	6.69	0%	0.26	0%	0.217	0%
D00_012	5.575	0%	0.217	0%	0.181	0%
D00_013	6.69	0%	0.26	0%	0.217	0%
D00_014	6.69	0%	0.26	0%	0.217	0%
D00_015	6.69	0%	0.26	0%	0.217	0%
D00_016	6.69	0%	0.26	0%	0.217	0%
D00_017	6.69	0%	0.26	0%	0.217	0%
D00_018	6.69	0%	0.26	0%	0.217	0%
D00_019	6.69	0%	0.26	0%	0.217	0%
D00_020	5.018	0%	0.195	0%	0.163	0%
D00_021	6.69	0%	0.26	0%	0.217	0%
D00_022	6.69	0%	0.26	0%	0.217	0%
D00_023	5.734	0%	0.223	0%	0.186	0%
D00_024	6.69	0%	0.26	0%	0.217	0%
D00_025	6.69	0%	0.26	0%	0.217	0%
D00_026	6.69	0%	0.26	0%	0.217	0%
D00_027	6.69	0%	0.26	0%	0.217	0%
D00_028	6.69	0%	0.26	0%	0.217	0%
D00_029	6.69	0%	0.26	0%	0.217	0%
D00_030	6.69	0%	0.26	0%	0.217	0%
D00_031	6.69	0%	0.26	0%	0.217	0%
D00_032	6.69	0%	0.26	0%	0.217	0%
D00_033	6.69	0%	0.26	0%	0.217	0%
D00_034	6.69	0%	0.26	0%	0.217	0%
D00_035	6.69	0%	0.26	0%	0.217	0%
D00_036	6.69	0%	0.26	0%	0.217	0%
D00_037_01	6.69	0%	0.26	0%	0.217	0%
D00_037_02	6.69	0%	0.26	0%	0.217	0%
D00_038	6.69	0%	0.26	0%	0.217	0%
D00_039	6.69	0%	0.26	0%	0.217	0%
D00_040	6.69	0%	0.26	0%	0.217	0%
D00_041	6.69	0%	0.26	0%	0.217	0%
D00_042	6.69	0%	0.26	0%	0.217	0%
D00_043	6.69	0%	0.26	0%	0.217	0%
D00_044	6.69	0%	0.26	0%	0.217	0%
D00_045	6.69	0%	0.26	0%	0.217	0%
D00_046	6.69	0%	0.26	0%	0.217	0%
D00_047	6.69	0%	0.26	0%	0.217	0%
D00_048	6.69	0%	0.26	0%	0.217	0%
D00_049	6.69	0%	0.26	0%	0.217	0%
D00_050	6.69	0%	0.26	0%	0.217	0%
D00_051	6.69	0%	0.26	0%	0.217	0%
D00_052	6.69	0%	0.26	0%	0.217	0%
D00_053	6.69	0%	0.26	0%	0.217	0%
D00_054	6.69	0%	0.26	0%	0.217	0%
D00_055	6.69	0%	0.26	0%	0.217	0%
D00_055.1	6.69	0%	0.26	0%	0.217	0%
D00_056	6.69	0%	0.26	0%	0.217	0%
D00_057	6.69	0%	0.26	0%	0.217	0%
D00_058	6.69	0%	0.26	0%	0.217	0%
D00_059	6.69	0%	0.26	0%	0.217	0%
D00_060	6.69	0%	0.26	0%	0.217	0%
D00_061	6.69	0%	0.26	0%	0.217	0%
D00_062	6.69	0%	0.26	0%	0.217	0%
D00_063	6.69	0%	0.26	0%	0.217	0%
D00_064	6.69	0%	0.26	0%	0.217	0%
D00_065	6.69	0%	0.26	0%	0.217	0%

Original Depression Storage Values Calculated from GIS Intersection		
Subcatchment ID	Weighted Depression Stor. for Imp. Portion (in)	Weighted Depression Stor. for Perv. Portion (in)
D00_003	0.07	0.267
D00_004	0.07	0.234
D00_005	0.07	0.221
D00_006	0.07	0.215
D00_007	0.07	0.203
D00_008	0.07	0.203
D00_009	0.07	0.224
D00_010	0.07	0.206
D00_011	0.07	0.213
D00_012	0.07	0.24
D00_013	0.07	0.25
D00_014	0.07	0.246
D00_015	0.07	0.298
D00_016	0.07	0.296
D00_017	0.07	0.269
D00_018	0.07	0.21
D00_019	0.07	0.225
D00_020	0.07	0.238
D00_021	0.07	0.249
D00_022	0.07	0.282
D00_023	0.07	0.286
D00_024	0.07	0.24
D00_025	0.07	0.251
D00_026	0.07	0.292
D00_027	0.07	0.266
D00_028	0.07	0.296
D00_029	0.07	0.29
D00_030	0.07	0.3
D00_031	0.07	0.244
D00_032	0.07	0.3
D00_033	0.07	0.3
D00_034	0.07	0.299
D00_035	0.07	0.272
D00_036	0.07	0.269
D00_037_01	0.07	0.291
D00_037_02	0.07	0.293
D00_038	0.07	0.219
D00_039	0.07	0.232
D00_040	0.07	0.274
D00_041	0.07	0.202
D00_042	0.07	0.216
D00_043	0.07	0.222
D00_044	0.07	0.206
D00_045	0.07	0.268
D00_046	0.07	0.202
D00_047	0.07	0.281
D00_048	0.07	0.216
D00_049	0.07	0.201
D00_050	0.07	0.296
D00_051	0.07	0.202
D00_052	0.07	0.269
D00_053	0.07	0.232
D00_054	0.07	0.283
D00_055	0.07	0.29
D00_055.1	0.07	0.29
D00_056	0.07	0.243
D00_057	0.07	0.221
D00_058	0.07	0.251
D00_059	0.07	0.297
D00_060	0.07	0.261
D00_061	0.07	0.26
D00_062	0.07	0.28
D00_063	0.07	0.249
D00_064	0.07	0.3
D00_065	0.07	0.3

Final Calibrated Depression Storage Parameters used in InfoSWMM Model				
Subcatchment ID	Calibrated Depression Stor. for Imp. Portion (in)	Comparison with Original Weighted Depression Stor. for Imp. Portion (%)	Calibrated Depression Stor. for Perv. Portion (in)	Comparison with Original Weighted Depression Stor. for Perv. Portion (%)
D00_003	0.07	0%	0.347	30%
D00_004	0.07	0%	0.304	30%
D00_005	0.07	0%	0.287	30%
D00_006	0.07	0%	0.28	30%
D00_007	0.07	0%	0.264	30%
D00_008	0.07	0%	0.264	30%
D00_009	0.07	0%	0.291	30%
D00_010	0.07	0%	0.268	30%
D00_011	0.07	0%	0.277	30%
D00_012	0.07	0%	0.312	30%
D00_013	0.07	0%	0.325	30%
D00_014	0.07	0%	0.32	30%
D00_015	0.07	0%	0.387	30%
D00_016	0.07	0%	0.385	30%
D00_017	0.07	0%	0.35	30%
D00_018	0.07	0%	0.273	30%
D00_019	0.07	0%	0.293	30%
D00_020	0.07	0%	0.309	30%
D00_021	0.07	0%	0.324	30%
D00_022	0.07	0%	0.367	30%
D00_023	0.07	0%	0.372	30%
D00_024	0.07	0%	0.312	30%
D00_025	0.07	0%	0.326	30%
D00_026	0.07	0%	0.38	30%
D00_027	0.07	0%	0.346	30%
D00_028	0.07	0%	0.385	30%
D00_029	0.07	0%	0.377	30%
D00_030	0.07	0%	0.39	30%
D00_031	0.07	0%	0.317	30%
D00_032	0.07	0%	0.39	30%
D00_033	0.07	0%	0.39	30%
D00_034	0.07	0%	0.389	30%
D00_035	0.07	0%	0.354	30%
D00_036	0.07	0%	0.35	30%
D00_037_01	0.07	0%	0.378	30%
D00_037_02	0.07	0%	0.381	30%
D00_038	0.07	0%	0.285	30%
D00_039	0.07	0%		

New Allen Basin Study
Table 2.2.1
Comparison of Final Calibrated Hydrologic Parameters with Initial Calculated Values

Original Green & Ampt Parameters Calculated from GIS Intersection				
Subcatchment ID	Subcatchment Area (ac)	Weighted Capillary Suction (in)	Weighted Sat. Hydraulic Conductivity (in/hr)	Weighted Initial Soil Moisture Deficit (fraction)
D00_066	5.669	6.69	0.26	0.217
D01_001	2.859	6.69	0.26	0.217
D01_002	0.976	6.69	0.26	0.217
D01_003	8.652	6.69	0.26	0.217
D01_004	2.998	6.69	0.26	0.217
D01_005	1.926	6.69	0.26	0.217
D01_006	0.906	6.69	0.26	0.217
D01_007	9.246	6.69	0.26	0.217
D02_001	40.958	6.69	0.26	0.217
D02_002	1.212	6.69	0.26	0.217
D02_003	1.236	6.69	0.26	0.217
D02_004	25.264	6.69	0.26	0.217
D02_005	2.724	6.69	0.26	0.217
D02_006	22.88	6.69	0.26	0.217
D02_007	7.4	6.69	0.26	0.217
D03_001	51.926	6.69	0.26	0.217
D03_002	75.867	6.69	0.26	0.217
D03_003	9.848	6.69	0.26	0.217
D03_004	15.909	6.69	0.26	0.217
D03_005	7.177	6.69	0.26	0.217
D03_006	7.82	6.69	0.26	0.217
D03_007	2.414	6.69	0.26	0.217
D03_008	5.733	6.69	0.26	0.217
D03_009	0.378	6.69	0.26	0.217
D03_010	16.604	6.69	0.26	0.217
D03_011	84.313	5.203	0.202	0.169
D03_012	20.798	6.69	0.26	0.217
D03_013	12.075	6.69	0.26	0.217
D03_014	8.417	6.69	0.26	0.217
D03_015	0.559	6.69	0.26	0.217
D03_016	4.887	6.69	0.26	0.217
D03_017	5.536	6.69	0.26	0.217
D03_018	0.024	6.69	0.26	0.217
D03_019	5.145	6.69	0.26	0.217
D03_020	5.136	6.69	0.26	0.217
D03_021	27.875	6.69	0.26	0.217
D04_001	1.933	6.69	0.26	0.217
D04_002	4.636	6.69	0.26	0.217
D04_003	8.888	6.69	0.26	0.217
D04_004	0.825	6.69	0.26	0.217
D04_005	1.092	6.69	0.26	0.217
D04_006	0.554	6.69	0.26	0.217
D04_007	2.309	4.46	0.173	0.145
D04_008	8.991	5.352	0.208	0.174
D04_009	0.23	6.69	0.26	0.217
D04_010	3.583	5.018	0.195	0.163
D04_011	4.375	5.018	0.195	0.163
D04_012	0.639	6.69	0.26	0.217
D04_013	1.044	6.69	0.26	0.217
D04_014	9.745	6.69	0.26	0.217
D05_001	6.264	6.69	0.26	0.217
D05_002	11.902	6.69	0.26	0.217
D05_003	4.999	6.69	0.26	0.217
D05_004	0.734	6.69	0.26	0.217
D05_005	5.386	6.69	0.26	0.217
D05_006	3.391	6.69	0.26	0.217
D05_007	2.939	6.69	0.26	0.217
D05_008	1.793	6.69	0.26	0.217
D05_009	1.987	6.69	0.26	0.217
D05_010	2.821	6.69	0.26	0.217
D05_011	15.994	6.69	0.26	0.217
D06_001	42.939	6.69	0.26	0.217
D06_002	0.912	6.69	0.26	0.217
D06_003	2.241	6.69	0.26	0.217
D06_004	1.902	6.69	0.26	0.217

Final Calibrated Green & Ampt Parameters used in InfoSWMM Model						
Subcatchment ID	Calibrated Capillary Suction (in)	Comparison with Original Weighted Capillary Suction (%)	Calibrated Sat. Hydraulic Conductivity (in/hr)	Comparison with Original Weighted Sat. Hydraulic Conductivity (%)	Calibrated Initial Soil Moisture Deficit (fraction)	Comparison with Original Weighted Initial Soil Moisture Deficit (%)
D00_066	6.69	0%	0.26	0%	0.217	0%
D01_001	6.69	0%	0.26	0%	0.217	0%
D01_002	6.69	0%	0.26	0%	0.217	0%
D01_003	6.69	0%	0.26	0%	0.217	0%
D01_004	6.69	0%	0.26	0%	0.217	0%
D01_005	6.69	0%	0.26	0%	0.217	0%
D01_006	6.69	0%	0.26	0%	0.217	0%
D01_007	6.69	0%	0.26	0%	0.217	0%
D02_001	6.69	0%	0.26	0%	0.217	0%
D02_002	6.69	0%	0.26	0%	0.217	0%
D02_003	6.69	0%	0.26	0%	0.217	0%
D02_004	6.69	0%	0.26	0%	0.217	0%
D02_005	6.69	0%	0.26	0%	0.217	0%
D02_006	6.69	0%	0.26	0%	0.217	0%
D02_007	6.69	0%	0.26	0%	0.217	0%
D03_001	6.69	0%	0.26	0%	0.217	0%
D03_002	6.69	0%	0.26	0%	0.217	0%
D03_003	6.69	0%	0.26	0%	0.217	0%
D03_004	6.69	0%	0.26	0%	0.217	0%
D03_005	6.69	0%	0.26	0%	0.217	0%
D03_006	6.69	0%	0.26	0%	0.217	0%
D03_007	6.69	0%	0.26	0%	0.217	0%
D03_008	6.69	0%	0.26	0%	0.217	0%
D03_009	6.69	0%	0.26	0%	0.217	0%
D03_010	6.69	0%	0.26	0%	0.217	0%
D03_011	5.203	0%	0.202	0%	0.169	0%
D03_012	6.69	0%	0.26	0%	0.217	0%
D03_013	6.69	0%	0.26	0%	0.217	0%
D03_014	6.69	0%	0.26	0%	0.217	0%
D03_015	6.69	0%	0.26	0%	0.217	0%
D03_016	6.69	0%	0.26	0%	0.217	0%
D03_017	6.69	0%	0.26	0%	0.217	0%
D03_018	6.69	0%	0.26	0%	0.217	0%
D03_019	6.69	0%	0.26	0%	0.217	0%
D03_020	6.69	0%	0.26	0%	0.217	0%
D03_021	6.69	0%	0.26	0%	0.217	0%
D04_001	6.69	0%	0.26	0%	0.217	0%
D04_002	6.69	0%	0.26	0%	0.217	0%
D04_003	6.69	0%	0.26	0%	0.217	0%
D04_004	6.69	0%	0.26	0%	0.217	0%
D04_005	6.69	0%	0.26	0%	0.217	0%
D04_006	6.69	0%	0.26	0%	0.217	0%
D04_007	4.46	0%	0.173	0%	0.145	0%
D04_008	5.352	0%	0.208	0%	0.174	0%
D04_009	6.69	0%	0.26	0%	0.217	0%
D04_010	5.018	0%	0.195	0%	0.163	0%
D04_011	5.018	0%	0.195	0%	0.163	0%
D04_012	6.69	0%	0.26	0%	0.217	0%
D04_013	6.69	0%	0.26	0%	0.217	0%
D04_014	6.69	0%	0.26	0%	0.217	0%
D05_001	6.69	0%	0.26	0%	0.217	0%
D05_002	6.69	0%	0.26	0%	0.217	0%
D05_003	6.69	0%	0.26	0%	0.217	0%
D05_004	6.69	0%	0.26	0%	0.217	0%
D05_005	6.69	0%	0.26	0%	0.217	0%
D05_006	6.69	0%	0.26	0%	0.217	0%
D05_007	6.69	0%	0.26	0%	0.217	0%
D05_008	6.69	0%	0.26	0%	0.217	0%
D05_009	6.69	0%	0.26	0%	0.217	0%
D05_010	6.69	0%	0.26	0%	0.217	0%
D05_011	6.69	0%	0.26	0%	0.217	0%
D06_001	6.69	0%	0.26	0%	0.217	0%
D06_002	6.69	0%	0.26	0%	0.217	0%
D06_003	6.69	0%	0.26	0%	0.217	0%
D06_004	6.69	0%	0.26	0%	0.217	0%

Original Depression Storage Values Calculated from GIS Intersection		
Subcatchment ID	Weighted Depression Stor. for Imp. Portion (in)	Weighted Depression Stor. for Perv. Portion (in)
D00_066	0.07	0.294
D01_001	0.07	0.243
D01_002	0.07	0.217
D01_003	0.07	0.244
D01_004	0.07	0.246
D01_005	0.07	0.22
D01_006	0.07	0.221
D01_007	0.07	0.247
D02_001	0.07	0.251
D02_002	0.07	0.254
D02_003	0.07	0.266
D02_004	0.07	0.269
D02_005	0.07	0.272
D02_006	0.07	0.277
D02_007	0.07	0.273
D03_001	0.07	0.288
D03_002	0.07	0.261
D03_003	0.07	0.243
D03_004	0.07	0.275
D03_005	0.07	0.282
D03_006	0.07	0.265
D03_007	0.07	0.254
D03_008	0.07	0.258
D03_009	0.07	0.281
D03_010	0.07	0.283
D03_011	0.07	0.292
D03_012	0.07	0.217
D03_013	0.07	0.258
D03_014	0.07	0.224
D03_015	0.07	0.2
D03_016	0.07	0.246
D03_017	0.07	0.25
D03_018	0.07	0.287
D03_019	0.07	0.243
D03_020	0.07	0.263
D03_021	0.07	0.254
D04_001	0.07	0.215
D04_002	0.07	0.235
D04_003	0.07	0.273
D04_004	0.07	0.243
D04_005	0.07	0.228
D04_006	0.07	0.229
D04_007	0.07	0.264
D04_008	0.07	0.245
D04_009	0.07	0.223
D04_010	0.07	0.24
D04_011	0.07	0.251
D04_012	0.07	0.264
D04_013	0.07	0.252
D04_014	0.07	0.235
D05_001	0.07	0.252
D05_002	0.07	0.244
D05_003	0.07	0.247
D05_004	0.07	0.219
D05_005	0.07	0.26
D05_006	0.07	0.251
D05_007	0.07	0.265
D05_008	0.07	0.251
D05_009	0.07	0.233
D05_010	0.07	0.241
D05_011	0.07	0.241
D06_001	0.07	0.28
D06_002	0.07	0.217
D06_003	0.07	0.249
D06_004	0.07	0.258

Final Calibrated Depression Storage Parameters used in InfoSWMM Model				
Subcatchment ID	Calibrated Depression Stor. for Imp. Portion (in)	Comparison with Original Weighted Depression Stor. for Imp. Portion (%)	Calibrated Depression Stor. for Perv. Portion (in)	Comparison with Original Weighted Depression Stor. for Perv. Portion (%)
D00_066	0.07	0%	0.382	30%
D01_001	0.07	0%	0.316	30%
D01_002	0.07	0%	0.282	30%
D01_003	0.07	0%	0.317	30%
D01_004	0.07	0%	0.32	30%
D01_005	0.07	0%	0.286	30%
D01_006	0.07	0%	0.287	30%
D01_007	0.07	0%	0.321	30%
D02_001	0.07	0%	0.326	30%
D02_002	0.07	0%	0.33	30%
D02_003	0.07	0%	0.346	30%
D02_004	0.07	0%	0.35	30%
D02_005	0.07	0%	0.354	30%
D02_006	0.07	0%	0.36	30%
D02_007	0.07	0%	0.355	30%
D03_001	0.07	0%	0.374	30%
D03_002	0.07	0%	0.339	30%
D03_003	0.07	0%	0.316	30%
D03_004	0.07	0%	0.358	30%
D03_005	0.07	0%	0.367	30%
D03_006	0.07	0%	0.345	30%
D03_007	0.07	0%	0.33	30%
D03_008	0.07	0%	0.335	30%
D03_009	0.07	0%	0.365	30%
D03_010	0.07	0%	0.368	30%
D03_011	0.07	0%	0.38	30%
D03_012	0.07	0%	0.282	30%
D03_013	0.07	0%	0.335	30%
D03_014	0.07	0%	0.291	30%
D03_015	0.07	0%	0.26	30%
D03_016	0.07	0%	0.32	30%
D03_017	0.07	0%	0.325	30%
D03_018	0.07	0%	0.373	30%
D03_019	0.07	0%	0.316	30%
D03_020	0.07	0%	0.342	30%
D03_021	0.07	0%	0.33	30%
D04_001	0.07	0%	0.28	30%
D04_002	0.07	0%	0.306	30%</

New Allen Basin Study
Table 2.2.1
Comparison of Final Calibrated Hydrologic Parameters with Initial Calculated Values

Original Greem & Ampt Parameters Calculated from GIS Intersection				
Subcatchment ID	Subcatchment Area (ac)	Weighted Capillary Suction (in)	Weighted Sat. Hydraulic Conductivity (in/hr)	Weighted Initial Soil Moisture Deficit (fraction)
D06_005	4.71	6.69	0.26	0.217
D06_006	5.46	6.69	0.26	0.217
D06_007	1.391	6.69	0.26	0.217
D06_008	4.92	6.69	0.26	0.217
D06_009	9.878	6.69	0.26	0.217
D06_010	17.852	6.69	0.26	0.217
D06_011	21.464	6.69	0.26	0.217
D06_012	0.637	6.69	0.26	0.217
D06_013	14.894	6.69	0.26	0.217
D06_014	1.898	6.69	0.26	0.217
D06_015	14.538	6.69	0.26	0.217
D06_016	26.951	6.69	0.26	0.217
D06_017	1.565	6.69	0.26	0.217
D06_018	5.093	6.69	0.26	0.217
D06_019	2.987	6.69	0.26	0.217
D06_021	4.714	6.69	0.26	0.217
D06_022	7.644	6.69	0.26	0.217
D06_023	0.507	6.69	0.26	0.217
D06_024	10.855	6.69	0.26	0.217
D06_025	21.14	6.69	0.26	0.217
D06_026	4.411	6.69	0.26	0.217
D06_027	1.803	6.69	0.26	0.217
D06_028	17.01	5.575	0.217	0.181
D06_029	6.581	6.69	0.26	0.217
D06_030	1.992	6.69	0.26	0.217
D06_031	3.173	6.69	0.26	0.217
D06_032	15.953	6.69	0.26	0.217
D06_033	1.791	6.69	0.26	0.217
D06_034	4.681	6.69	0.26	0.217
D06_035	6.256	6.69	0.26	0.217
D06_036	1.494	6.69	0.26	0.217
D06_037	2.425	6.69	0.26	0.217
D06_038	2.326	6.69	0.26	0.217
D06_039	2.575	6.69	0.26	0.217
D06_040	8.543	6.69	0.26	0.217
D06_041	38.501	6.69	0.26	0.217
D06_042	0.188	6.69	0.26	0.217
D06_043	11.129	6.69	0.26	0.217
D06_044	0.989	6.69	0.26	0.217
D06_045_01	7.738	6.69	0.26	0.217
D06_045_02	3.549	6.69	0.26	0.217
D06_045_03	5.327	6.69	0.26	0.217
D06_046	1.132	6.69	0.26	0.217
D06_047	2.771	6.69	0.26	0.217
D06_048	1.218	6.69	0.26	0.217
D06_049	3.554	6.69	0.26	0.217
D06_050	14.64	6.69	0.26	0.217
D06_051	25.27	6.69	0.26	0.217
D06_052	1.834	6.69	0.26	0.217
D06_053	11.536	6.69	0.26	0.217
D06_054	43.483	5.734	0.223	0.186
D06_055	6.953	6.69	0.26	0.217
D06_056	9.012	6.69	0.26	0.217
D06_057	4.595	6.69	0.26	0.217
D06_058	17.69	6.69	0.26	0.217
D06_059	5.212	6.69	0.26	0.217
D06_060	4.217	6.69	0.26	0.217
D06_061	3.132	6.69	0.26	0.217
D06_062	8.59	6.69	0.26	0.217
D06_063	8.859	5.352	0.208	0.174
D06_064	0.421	3.345	0.13	0.109
D06_065	7.334	5.018	0.195	0.163
D06_066	13.573	6.69	0.26	0.217
D06_067	7.679	5.018	0.195	0.163
D06_068	28.455	5.352	0.208	0.174

Final Calibrated Green & Ampt Parameters used in InfoSWMM Model						
Subcatchment ID	Calibrated Capillary Suction (in)	Comparison with Original Weighted Capillary Suction (%)	Calibrated Sat. Hydraulic Conductivity (in/hr)	Comparison with Original Weighted Sat. Hydraulic Conductivity (%)	Calibrated Initial Soil Moisture Deficit (fraction)	Comparison with Original Weighted Initial Soil Moisture Deficit (%)
D06_005	6.69	0%	0.26	0%	0.217	0%
D06_006	6.69	0%	0.26	0%	0.217	0%
D06_007	6.69	0%	0.26	0%	0.217	0%
D06_008	6.69	0%	0.26	0%	0.217	0%
D06_009	6.69	0%	0.26	0%	0.217	0%
D06_010	6.69	0%	0.26	0%	0.217	0%
D06_011	6.69	0%	0.26	0%	0.217	0%
D06_012	6.69	0%	0.26	0%	0.217	0%
D06_013	6.69	0%	0.26	0%	0.217	0%
D06_014	6.69	0%	0.26	0%	0.217	0%
D06_015	6.69	0%	0.26	0%	0.217	0%
D06_016	6.69	0%	0.26	0%	0.217	0%
D06_017	6.69	0%	0.26	0%	0.217	0%
D06_018	6.69	0%	0.26	0%	0.217	0%
D06_019	6.69	0%	0.26	0%	0.217	0%
D06_021	6.69	0%	0.26	0%	0.217	0%
D06_022	6.69	0%	0.26	0%	0.217	0%
D06_023	6.69	0%	0.26	0%	0.217	0%
D06_024	6.69	0%	0.26	0%	0.217	0%
D06_025	6.69	0%	0.26	0%	0.217	0%
D06_026	6.69	0%	0.26	0%	0.217	0%
D06_027	6.69	0%	0.26	0%	0.217	0%
D06_028	5.575	0%	0.217	0%	0.181	0%
D06_029	6.69	0%	0.26	0%	0.217	0%
D06_030	6.69	0%	0.26	0%	0.217	0%
D06_031	6.69	0%	0.26	0%	0.217	0%
D06_032	6.69	0%	0.26	0%	0.217	0%
D06_033	6.69	0%	0.26	0%	0.217	0%
D06_034	6.69	0%	0.26	0%	0.217	0%
D06_035	6.69	0%	0.26	0%	0.217	0%
D06_036	6.69	0%	0.26	0%	0.217	0%
D06_037	6.69	0%	0.26	0%	0.217	0%
D06_038	6.69	0%	0.26	0%	0.217	0%
D06_039	6.69	0%	0.26	0%	0.217	0%
D06_040	6.69	0%	0.26	0%	0.217	0%
D06_041	6.69	0%	0.26	0%	0.217	0%
D06_042	6.69	0%	0.26	0%	0.217	0%
D06_043	6.69	0%	0.26	0%	0.217	0%
D06_044	6.69	0%	0.26	0%	0.217	0%
D06_045_01	6.69	0%	0.26	0%	0.217	0%
D06_045_02	6.69	0%	0.26	0%	0.217	0%
D06_045_03	6.69	0%	0.26	0%	0.217	0%
D06_046	6.69	0%	0.26	0%	0.217	0%
D06_047	6.69	0%	0.26	0%	0.217	0%
D06_048	6.69	0%	0.26	0%	0.217	0%
D06_049	6.69	0%	0.26	0%	0.217	0%
D06_050	6.69	0%	0.26	0%	0.217	0%
D06_051	6.69	0%	0.26	0%	0.217	0%
D06_052	6.69	0%	0.26	0%	0.217	0%
D06_053	6.69	0%	0.26	0%	0.217	0%
D06_054	5.734	0%	0.223	0%	0.186	0%
D06_055	6.69	0%	0.26	0%	0.217	0%
D06_056	6.69	0%	0.26	0%	0.217	0%
D06_057	6.69	0%	0.26	0%	0.217	0%
D06_058	6.69	0%	0.26	0%	0.217	0%
D06_059	6.69	0%	0.26	0%	0.217	0%
D06_060	6.69	0%	0.26	0%	0.217	0%
D06_061	6.69	0%	0.26	0%	0.217	0%
D06_062	6.69	0%	0.26	0%	0.217	0%
D06_063	5.352	0%	0.208	0%	0.174	0%
D06_064	3.345	0%	0.13	0%	0.109	0%
D06_065	5.018	0%	0.195	0%	0.163	0%
D06_066	6.69	0%	0.26	0%	0.217	0%
D06_067	5.018	0%	0.195	0%	0.163	0%
D06_068	5.352	0%	0.208	0%	0.174	0%

Original Depression Storage Values Calculated from GIS Intersection		
Subcatchment ID	Weighted Depression Stor. for Imp. Portion (in)	Weighted Depression Stor. for Perv. Portion (in)
D06_005	0.07	0.257
D06_006	0.07	0.271
D06_007	0.07	0.249
D06_008	0.07	0.272
D06_009	0.07	0.258
D06_010	0.07	0.261
D06_011	0.07	0.279
D06_012	0.07	0.251
D06_013	0.07	0.247
D06_014	0.07	0.251
D06_015	0.07	0.263
D06_016	0.07	0.252
D06_017	0.07	0.251
D06_018	0.07	0.253
D06_019	0.07	0.246
D06_021	0.07	0.255
D06_022	0.07	0.264
D06_023	0.07	0.26
D06_024	0.07	0.262
D06_025	0.07	0.296
D06_026	0.07	0.257
D06_027	0.07	0.261
D06_028	0.07	0.254
D06_029	0.07	0.255
D06_030	0.07	0.251
D06_031	0.07	0.248
D06_032	0.07	0.265
D06_033	0.07	0.225
D06_034	0.07	0.246
D06_035	0.07	0.259
D06_036	0.07	0.213
D06_037	0.07	0.237
D06_038	0.07	0.261
D06_039	0.07	0.254
D06_040	0.07	0.249
D06_041	0.07	0.255
D06_042	0.07	0.22
D06_043	0.07	0.266
D06_044	0.07	0.211
D06_045_01	0.07	0.267
D06_045_02	0.07	0.233
D06_045_03	0.07	0.243
D06_046	0.07	0.231
D06_047	0.07	0.247
D06_048	0.07	0.255
D06_049	0.07	0.258
D06_050	0.07	0.252
D06_051	0.07	0.268
D06_052	0.07	0.256
D06_053	0.07	0.254
D06_054	0.07	0.277
D06_055	0.07	0.243
D06_056	0.07	0.257
D06_057	0.07	0.264
D06_058	0.07	0.26
D06_059	0.07	0.261
D06_060	0.07	0.249
D06_061	0.07	0.249
D06_062	0.07	0.258
D06_063	0.07	0.246
D06_064	0.07	0.21
D06_065	0.07	0.25
D06_066	0.07	0.26
D06_067	0.07	0.268
D06_068	0.07	0.291

Final Calibrated Depression Storage Parameters used in InfoSWMM Model				
Subcatchment ID	Calibrated Depression Stor. for Imp. Portion (in)	Comparison with Original Weighted Depression Stor. for Imp. Portion (%)	Calibrated Depression Stor. for Perv. Portion (in)	Comparison with Original Weighted Depression Stor. for Perv. Portion (%)
D06_005	0.07	0%	0.334	30%
D06_006	0.07	0%	0.352	30%
D06_007	0.07	0%	0.324	30%
D06_008	0.07	0%	0.354	30%
D06_009	0.07	0%	0.335	30%
D06_010	0.07	0%	0.339	30%
D06_011	0.07	0%	0.363	30%
D06_012	0.07	0%	0.326	30%
D06_013	0.07	0%	0.321	30%
D06_014	0.07	0%	0.326	30%
D06_015	0.07	0%	0.342	30%
D06_016	0.07	0%	0.328	30%
D06_017	0.07	0%	0.326	30%
D06_018	0.07	0%	0.329	30%
D06_019	0.07	0%	0.32	30%
D06_021	0.07	0%	0.332	30%
D06_022	0.07	0%	0.343	30%
D06_023	0.07	0%	0.338	30%
D06_024	0.07	0%	0.341	30%
D06_025	0.07	0%	0.385	30%
D06_026	0.07	0%	0.334	30%
D06_027	0.07	0%	0.339	30%
D06_028	0.07	0%	0.33	30%
D06_029	0.07	0%	0.332	30%
D06_030	0.07	0%	0.326	30%
D06_031	0.07	0%	0.322	30%
D06_032	0.07	0%	0.345	30%
D06_033	0.07	0%	0.293	30%
D06_034	0.07	0%	0.32	30%
D06_035	0.07	0%	0.337	30%
D06_036	0.07	0%	0.277	30%
D06_037	0.07	0%	0.308	30%
D06_038	0.07	0%	0.339	30%
D06_039	0.07	0%	0.33	30%
D06_040	0.07	0%	0.324	30%
D06_041	0.07	0%	0.332	30%
D06_042	0.07	0%	0.286	30%

New Allen Basin Study
Table 2.2.1
Comparison of Final Calibrated Hydrologic Parameters with Initial Calculated Values

Original Green & Ampt Parameters Calculated from GIS Intersection				
Subcatchment ID	Subcatchment Area (ac)	Weighted Capillary Suction (in)	Weighted Sat. Hydraulic Conductivity (in/hr)	Weighted Initial Soil Moisture Deficit (fraction)
D06_101	9.454	6.69	0.26	0.217
D06_114_1	1.666	6.69	0.26	0.217
D06_115_1	1.828	6.69	0.26	0.217
D06_139	5.821	6.69	0.26	0.217
D07_001	11.973	6.69	0.26	0.217
D07_002	25.19	6.69	0.26	0.217
D07_003	21.23	6.69	0.26	0.217
D07_004	80.306	6.082	0.236	0.197
D07_005	40.423	6.69	0.26	0.217
D07_006	19.318	6.69	0.26	0.217
D07_007	11.89	6.69	0.26	0.217
D07_008	3.723	6.69	0.26	0.217
D07_009	3.051	6.69	0.26	0.217
D07_010	21.623	5.854	0.228	0.19
D07_011	40.759	6.69	0.26	0.217
D07_012	50.036	6.69	0.26	0.217
D07_013	4.808	5.018	0.195	0.163
D07_014	26.002	6.69	0.26	0.217
D07_015	3.658	6.69	0.26	0.217
D07_016	53.18	6.69	0.26	0.217
D07_017	2.071	6.69	0.26	0.217
D07_018	0.704	6.69	0.26	0.217
D07_019	6.009	6.69	0.26	0.217
D07_020	4.059	6.69	0.26	0.217
D07_021	0.58	6.69	0.26	0.217
D07_022	5.817	6.69	0.26	0.217
D07_023	12.685	6.69	0.26	0.217
D07_024	32.295	6.082	0.236	0.197
D07_025	0.195	6.69	0.26	0.217
D07_026	0.252	6.69	0.26	0.217
D07_027	9.468	6.69	0.26	0.217
D07_028	0.447	6.69	0.26	0.217
D07_029	0.201	6.69	0.26	0.217
D07_030	2.791	6.69	0.26	0.217
D07_031	3.722	6.69	0.26	0.217
D07_032	8.647	6.69	0.26	0.217
D07_033	0.969	6.69	0.26	0.217
D07_034	2.439	6.69	0.26	0.217
D07_035	0.978	6.69	0.26	0.217
D07_036	14.934	6.69	0.26	0.217
D07_037	17.544	6.69	0.26	0.217
D07_038	96.997	6.69	0.26	0.217
D07_039	25.263	6.69	0.26	0.217
D07_040	23.953	6.69	0.26	0.217
D07_041	8.91	6.69	0.26	0.217
D07_042	13.368	6.69	0.26	0.217
D07_043	13.682	6.69	0.26	0.217
D07_044	3.522	6.69	0.26	0.217
D07_045	0.219	6.69	0.26	0.217
D07_046	1.361	6.69	0.26	0.217
D07_047	5.206	6.69	0.26	0.217
D07_048	2.602	6.69	0.26	0.217
D07_049	2.806	6.69	0.26	0.217
D07_050	2.088	6.69	0.26	0.217
D07_051	11.283	6.69	0.26	0.217
D07_052	9.637	6.69	0.26	0.217
D07_053	2.535	6.69	0.26	0.217
D07_054	8.482	6.69	0.26	0.217
D07_055	3.37	6.69	0.26	0.217
D07_056	5.595	6.69	0.26	0.217
D07_057	10.611	6.69	0.26	0.217
D07_058	2.686	6.69	0.26	0.217
D07_059	6.475	6.69	0.26	0.217
D07_060	4.012	6.69	0.26	0.217
D08_001	14.969	6.69	0.26	0.217

Final Calibrated Green & Ampt Parameters used in InfoSWMM Model						
Subcatchment ID	Calibrated Capillary Suction (in)	Comparison with Original Weighted Capillary Suction (%)	Calibrated Sat. Hydraulic Conductivity (in/hr)	Comparison with Original Weighted Sat. Hydraulic Conductivity (%)	Calibrated Initial Soil Moisture Deficit (fraction)	Comparison with Original Weighted Initial Soil Moisture Deficit (%)
D06_101	6.69	0%	0.26	0%	0.217	0%
D06_114_1	6.69	0%	0.26	0%	0.217	0%
D06_115_1	6.69	0%	0.26	0%	0.217	0%
D06_139	6.69	0%	0.26	0%	0.217	0%
D07_001	6.69	0%	0.26	0%	0.217	0%
D07_002	6.69	0%	0.26	0%	0.217	0%
D07_003	6.69	0%	0.26	0%	0.217	0%
D07_004	6.082	0%	0.236	0%	0.197	0%
D07_005	6.69	0%	0.26	0%	0.217	0%
D07_006	6.69	0%	0.26	0%	0.217	0%
D07_007	6.69	0%	0.26	0%	0.217	0%
D07_008	6.69	0%	0.26	0%	0.217	0%
D07_009	6.69	0%	0.26	0%	0.217	0%
D07_010	5.854	0%	0.228	0%	0.19	0%
D07_011	6.69	0%	0.26	0%	0.217	0%
D07_012	6.69	0%	0.26	0%	0.217	0%
D07_013	5.018	0%	0.195	0%	0.163	0%
D07_014	6.69	0%	0.26	0%	0.217	0%
D07_015	6.69	0%	0.26	0%	0.217	0%
D07_016	6.69	0%	0.26	0%	0.217	0%
D07_017	6.69	0%	0.26	0%	0.217	0%
D07_018	6.69	0%	0.26	0%	0.217	0%
D07_019	6.69	0%	0.26	0%	0.217	0%
D07_020	6.69	0%	0.26	0%	0.217	0%
D07_021	6.69	0%	0.26	0%	0.217	0%
D07_022	6.69	0%	0.26	0%	0.217	0%
D07_023	6.69	0%	0.26	0%	0.217	0%
D07_024	6.082	0%	0.236	0%	0.197	0%
D07_025	6.69	0%	0.26	0%	0.217	0%
D07_026	6.69	0%	0.26	0%	0.217	0%
D07_027	6.69	0%	0.26	0%	0.217	0%
D07_028	6.69	0%	0.26	0%	0.217	0%
D07_029	6.69	0%	0.26	0%	0.217	0%
D07_030	6.69	0%	0.26	0%	0.217	0%
D07_031	6.69	0%	0.26	0%	0.217	0%
D07_032	6.69	0%	0.26	0%	0.217	0%
D07_033	6.69	0%	0.26	0%	0.217	0%
D07_034	6.69	0%	0.26	0%	0.217	0%
D07_035	6.69	0%	0.26	0%	0.217	0%
D07_036	6.69	0%	0.26	0%	0.217	0%
D07_037	6.69	0%	0.26	0%	0.217	0%
D07_038	6.69	0%	0.26	0%	0.217	0%
D07_039	6.69	0%	0.26	0%	0.217	0%
D07_040	6.69	0%	0.26	0%	0.217	0%
D07_041	6.69	0%	0.26	0%	0.217	0%
D07_042	6.69	0%	0.26	0%	0.217	0%
D07_043	6.69	0%	0.26	0%	0.217	0%
D07_044	6.69	0%	0.26	0%	0.217	0%
D07_045	6.69	0%	0.26	0%	0.217	0%
D07_046	6.69	0%	0.26	0%	0.217	0%
D07_047	6.69	0%	0.26	0%	0.217	0%
D07_048	6.69	0%	0.26	0%	0.217	0%
D07_049	6.69	0%	0.26	0%	0.217	0%
D07_050	6.69	0%	0.26	0%	0.217	0%
D07_051	6.69	0%	0.26	0%	0.217	0%
D07_052	6.69	0%	0.26	0%	0.217	0%
D07_053	6.69	0%	0.26	0%	0.217	0%
D07_054	6.69	0%	0.26	0%	0.217	0%
D07_055	6.69	0%	0.26	0%	0.217	0%
D07_056	6.69	0%	0.26	0%	0.217	0%
D07_057	6.69	0%	0.26	0%	0.217	0%
D07_058	6.69	0%	0.26	0%	0.217	0%
D07_059	6.69	0%	0.26	0%	0.217	0%
D07_060	6.69	0%	0.26	0%	0.217	0%
D08_001	6.69	0%	0.26	0%	0.217	0%

Original Depression Storage Values Calculated from GIS Intersection		
Subcatchment ID	Weighted Depression Stor. for Imp. Portion (in)	Weighted Depression Stor. for Perv. Portion (in)
D06_101	0.07	0.252
D06_114_1	0.07	0.245
D06_115_1	0.07	0.281
D06_139	0.07	0.26
D07_001	0.07	0.297
D07_002	0.07	0.292
D07_003	0.07	0.26
D07_004	0.07	0.276
D07_005	0.07	0.285
D07_006	0.07	0.293
D07_007	0.07	0.259
D07_008	0.07	0.235
D07_009	0.07	0.234
D07_010	0.07	0.274
D07_011	0.07	0.291
D07_012	0.07	0.287
D07_013	0.07	0.283
D07_014	0.07	0.27
D07_015	0.07	0.256
D07_016	0.07	0.29
D07_017	0.07	0.217
D07_018	0.07	0.213
D07_019	0.07	0.293
D07_020	0.07	0.294
D07_021	0.07	0.238
D07_022	0.07	0.277
D07_023	0.07	0.296
D07_024	0.07	0.29
D07_025	0.07	0.237
D07_026	0.07	0.275
D07_027	0.07	0.298
D07_028	0.07	0.24
D07_029	0.07	0.282
D07_030	0.07	0.249
D07_031	0.07	0.255
D07_032	0.07	0.257
D07_033	0.07	0.264
D07_034	0.07	0.26
D07_035	0.07	0.255
D07_036	0.07	0.247
D07_037	0.07	0.3
D07_038	0.07	0.296
D07_039	0.07	0.29
D07_040	0.07	0.269
D07_041	0.07	0.299
D07_042	0.07	0.283
D07_043	0.07	0.212
D07_044	0.07	0.225
D07_045	0.07	0.25
D07_046	0.07	0.269
D07_047	0.07	0.247
D07_048	0.07	0.27
D07_049	0.07	0.238
D07_050	0.07	0.244
D07_051	0.07	0.244
D07_052	0.07	0.257
D07_053	0.07	0.292
D07_054	0.07	0.278
D07_055	0.07	0.269
D07_056	0.07	0.266
D07_057	0.07	0.245
D07_058	0.07	0.244
D07_059	0.07	0.243
D07_060	0.07	0.25
D08_001	0.07	0.232

Final Calibrated Depression Storage Parameters used in InfoSWMM Model				
Subcatchment ID	Calibrated Depression Stor. for Imp. Portion (in)	Comparison with Original Weighted Depression Stor. for Imp. Portion (%)	Calibrated Depression Stor. for Perv. Portion (in)	Comparison with Original Weighted Depression Stor. for Perv. Portion (%)
D06_101	0.07	0%	0.328	30%
D06_114_1	0.07	0%	0.319	30%
D06_115_1	0.07	0%	0.365	30%
D06_139	0.07	0%	0.338	30%
D07_001	0.07	0%	0.386	30%
D07_002	0.07	0%	0.38	30%
D07_003	0.07	0%	0.338	30%
D07_004	0.07	0%	0.359	30%
D07_005	0.07	0%	0.371	30%
D07_006	0.07	0%	0.381	30%
D07_007	0.07	0%	0.337	30%
D07_008	0.07	0%	0.306	30%
D07_009	0.07	0%	0.304	30%
D07_010	0.07	0%	0.356	30%
D07_011	0.07	0%	0.378	30%
D07_012	0.07	0%	0.373	30%
D07_013	0.07	0%	0.368	30%
D07_014	0.07	0%	0.351	30%
D07_015	0.07	0%	0.333	30%
D07_016	0.07	0%	0.377	30%
D07_017	0.07	0%	0.282	30%
D07_018	0.07	0%	0.277	30%
D07_019	0.07	0%	0.381	30%
D07_020	0.07	0%	0.382	30%
D07_021	0.07	0%	0.309	30%
D07_022	0.07	0%	0.36	30%
D07_023	0.07	0%	0.385	30%
D07_024	0.07	0%	0.377	30%
D07_025	0.07	0%	0.308	30%
D07_026	0.07	0%	0.358	30%
D07_027	0.07	0%	0.387	30%
D07_028	0.07	0%	0.312	30%
D07_029	0.07	0%	0.367	30%
D07_030	0.07	0%	0.324	30%
D07_031	0.07	0%	0.332	30%
D07_032	0.07	0%	0.334	30%
D07_033	0.07	0%	0.343	30%
D07_034	0.07			

New Allen Basin Study
Table 2.2.1
Comparison of Final Calibrated Hydrologic Parameters with Initial Calculated Values

Original Green & Ampt Parameters Calculated from GIS Intersection				
Subcatchment ID	Subcatchment Area (ac)	Weighted Capillary Suction (in)	Weighted Sat. Hydraulic Conductivity (in/hr)	Weighted Initial Soil Moisture Deficit (fraction)
D08_002	5.538	6.69	0.26	0.217
D08_003	2.117	6.69	0.26	0.217
D08_004	1.496	6.69	0.26	0.217
D08_005	2.865	6.69	0.26	0.217
D08_006	2.705	6.69	0.26	0.217
D08_007	2.654	6.69	0.26	0.217
D08_008	5.67	6.69	0.26	0.217
D08_009	2.421	6.69	0.26	0.217
D08_010	0.173	6.69	0.26	0.217
D08_011	1.564	6.69	0.26	0.217
D08_012	1.771	6.69	0.26	0.217
D08_013	3.169	6.69	0.26	0.217
D08_014	0.198	6.69	0.26	0.217
D08_015	1.274	6.69	0.26	0.217
D08_016	5.963	6.69	0.26	0.217
D09_001	0.989	6.69	0.26	0.217
D09_002	56.944	6.133	0.238	0.199
D09_003	2.124	6.69	0.26	0.217
D09_004	1.315	6.69	0.26	0.217
D09_005	2.883	6.69	0.26	0.217
D09_006	6.279	6.69	0.26	0.217
D09_007	0.561	6.69	0.26	0.217
D10_001	3.531	6.69	0.26	0.217
D10_002	4.816	6.69	0.26	0.217
D10_003	22.74	6.69	0.26	0.217
D10_004	3.333	6.69	0.26	0.217
D10_005	4.773	6.69	0.26	0.217
D10_006	6.697	6.69	0.26	0.217
D10_007	9.19	6.69	0.26	0.217
D10_008	1.877	6.69	0.26	0.217
D10_009	3.556	6.69	0.26	0.217
D10_010	6.551	6.69	0.26	0.217
D10_011	6.974	6.69	0.26	0.217
D10_012	3.054	6.69	0.26	0.217
D10_013	4.714	6.69	0.26	0.217
D10_014	1.351	6.69	0.26	0.217
D10_015	2.517	6.69	0.26	0.217
D10_016	2.137	6.69	0.26	0.217
D10_017	3.213	6.69	0.26	0.217
D10_018	7.136	6.69	0.26	0.217
D10_019	3.821	6.69	0.26	0.217
D10_020	4.712	6.69	0.26	0.217
D10_021	66.146	6.69	0.26	0.217
D11_001	3.482	6.69	0.26	0.217
D11_002	4.577	6.69	0.26	0.217
D11_003	4.965	6.69	0.26	0.217
D11_004	1.11	6.69	0.26	0.217
D11_005	99.996	6.69	0.26	0.217
D11_006	0.485	6.69	0.26	0.217
D11_007	0.896	6.69	0.26	0.217
D11_008	11.252	6.69	0.26	0.217
D11_009	0.83	6.69	0.26	0.217
D11_010	1.194	6.69	0.26	0.217
D11_011	0.599	6.69	0.26	0.217
D11_012	1.345	6.69	0.26	0.217
D11_013	2.786	6.69	0.26	0.217
D11_014	2.706	6.69	0.26	0.217
D11_015	6.176	6.69	0.26	0.217
D11_016	6	6.69	0.26	0.217
D11_017	1.608	6.69	0.26	0.217
D11_018	4.206	6.69	0.26	0.217
D11_019	4.152	6.69	0.26	0.217
D11_020	0.32	6.69	0.26	0.217
D11_021	2.567	6.69	0.26	0.217
D11_022	0.405	6.69	0.26	0.217

Final Calibrated Green & Ampt Parameters used in InfoSWMM Model						
Subcatchment ID	Calibrated Capillary Suction (in)	Comparison with Original Weighted Capillary Suction (%)	Calibrated Sat. Hydraulic Conductivity (in/hr)	Comparison with Original Weighted Sat. Hydraulic Conductivity (%)	Calibrated Initial Soil Moisture Deficit (fraction)	Comparison with Original Weighted Initial Soil Moisture Deficit (%)
D08_002	6.69	0%	0.26	0%	0.217	0%
D08_003	6.69	0%	0.26	0%	0.217	0%
D08_004	6.69	0%	0.26	0%	0.217	0%
D08_005	6.69	0%	0.26	0%	0.217	0%
D08_006	6.69	0%	0.26	0%	0.217	0%
D08_007	6.69	0%	0.26	0%	0.217	0%
D08_008	6.69	0%	0.26	0%	0.217	0%
D08_009	6.69	0%	0.26	0%	0.217	0%
D08_010	6.69	0%	0.26	0%	0.217	0%
D08_011	6.69	0%	0.26	0%	0.217	0%
D08_012	6.69	0%	0.26	0%	0.217	0%
D08_013	6.69	0%	0.26	0%	0.217	0%
D08_014	6.69	0%	0.26	0%	0.217	0%
D08_015	6.69	0%	0.26	0%	0.217	0%
D08_016	6.69	0%	0.26	0%	0.217	0%
D09_001	6.69	0%	0.26	0%	0.217	0%
D09_002	6.133	0%	0.238	0%	0.199	0%
D09_003	6.69	0%	0.26	0%	0.217	0%
D09_004	6.69	0%	0.26	0%	0.217	0%
D09_005	6.69	0%	0.26	0%	0.217	0%
D09_006	6.69	0%	0.26	0%	0.217	0%
D09_007	6.69	0%	0.26	0%	0.217	0%
D10_001	6.69	0%	0.26	0%	0.217	0%
D10_002	6.69	0%	0.26	0%	0.217	0%
D10_003	6.69	0%	0.26	0%	0.217	0%
D10_004	6.69	0%	0.26	0%	0.217	0%
D10_005	6.69	0%	0.26	0%	0.217	0%
D10_006	6.69	0%	0.26	0%	0.217	0%
D10_007	6.69	0%	0.26	0%	0.217	0%
D10_008	6.69	0%	0.26	0%	0.217	0%
D10_009	6.69	0%	0.26	0%	0.217	0%
D10_010	6.69	0%	0.26	0%	0.217	0%
D10_011	6.69	0%	0.26	0%	0.217	0%
D10_012	6.69	0%	0.26	0%	0.217	0%
D10_013	6.69	0%	0.26	0%	0.217	0%
D10_014	6.69	0%	0.26	0%	0.217	0%
D10_015	6.69	0%	0.26	0%	0.217	0%
D10_016	6.69	0%	0.26	0%	0.217	0%
D10_017	6.69	0%	0.26	0%	0.217	0%
D10_018	6.69	0%	0.26	0%	0.217	0%
D10_019	6.69	0%	0.26	0%	0.217	0%
D10_020	6.69	0%	0.26	0%	0.217	0%
D10_021	6.69	0%	0.26	0%	0.217	0%
D11_001	6.69	0%	0.26	0%	0.217	0%
D11_002	6.69	0%	0.26	0%	0.217	0%
D11_003	6.69	0%	0.26	0%	0.217	0%
D11_004	6.69	0%	0.26	0%	0.217	0%
D11_005	6.69	0%	0.26	0%	0.217	0%
D11_006	6.69	0%	0.26	0%	0.217	0%
D11_007	6.69	0%	0.26	0%	0.217	0%
D11_008	6.69	0%	0.26	0%	0.217	0%
D11_009	6.69	0%	0.26	0%	0.217	0%
D11_010	6.69	0%	0.26	0%	0.217	0%
D11_011	6.69	0%	0.26	0%	0.217	0%
D11_012	6.69	0%	0.26	0%	0.217	0%
D11_013	6.69	0%	0.26	0%	0.217	0%
D11_014	6.69	0%	0.26	0%	0.217	0%
D11_015	6.69	0%	0.26	0%	0.217	0%
D11_016	6.69	0%	0.26	0%	0.217	0%
D11_017	6.69	0%	0.26	0%	0.217	0%
D11_018	6.69	0%	0.26	0%	0.217	0%
D11_019	6.69	0%	0.26	0%	0.217	0%
D11_020	6.69	0%	0.26	0%	0.217	0%
D11_021	6.69	0%	0.26	0%	0.217	0%
D11_022	6.69	0%	0.26	0%	0.217	0%

Original Depression Storage Values Calculated from GIS Intersection		
Subcatchment ID	Weighted Depression Stor. for Imp. Portion (in)	Weighted Depression Stor. for Perv. Portion (in)
D08_002	0.07	0.243
D08_003	0.07	0.253
D08_004	0.07	0.238
D08_005	0.07	0.223
D08_006	0.07	0.272
D08_007	0.07	0.244
D08_008	0.07	0.237
D08_009	0.07	0.248
D08_010	0.07	0.228
D08_011	0.07	0.261
D08_012	0.07	0.22
D08_013	0.07	0.243
D08_014	0.07	0.232
D08_015	0.07	0.234
D08_016	0.07	0.25
D09_001	0.07	0.217
D09_002	0.07	0.28
D09_003	0.07	0.22
D09_004	0.07	0.219
D09_005	0.07	0.232
D09_006	0.07	0.214
D09_007	0.07	0.219
D10_001	0.07	0.201
D10_002	0.07	0.2
D10_003	0.07	0.212
D10_004	0.07	0.268
D10_005	0.07	0.223
D10_006	0.07	0.276
D10_007	0.07	0.229
D10_008	0.07	0.221
D10_009	0.07	0.234
D10_010	0.07	0.27
D10_011	0.07	0.245
D10_012	0.07	0.225
D10_013	0.07	0.246
D10_014	0.07	0.227
D10_015	0.07	0.232
D10_016	0.07	0.216
D10_017	0.07	0.241
D10_018	0.07	0.236
D10_019	0.07	0.232
D10_020	0.07	0.23
D10_021	0.07	0.276
D11_001	0.07	0.219
D11_002	0.07	0.216
D11_003	0.07	0.244
D11_004	0.07	0.26
D11_005	0.07	0.245
D11_006	0.07	0.2
D11_007	0.07	0.2
D11_008	0.07	0.202
D11_009	0.07	0.2
D11_010	0.07	0.2
D11_011	0.07	0.2
D11_012	0.07	0.231
D11_013	0.07	0.258
D11_014	0.07	0.267
D11_015	0.07	0.272
D11_016	0.07	0.246
D11_017	0.07	0.201
D11_018	0.07	0.219
D11_019	0.07	0.201
D11_020	0.07	0.2
D11_021	0.07	0.202
D11_022	0.07	0.214

Final Calibrated Depression Storage Parameters used in InfoSWMM Model				
Subcatchment ID	Calibrated Depression Stor. for Imp. Portion (in)	Comparison with Original Weighted Depression Stor. for Imp. Portion (%)	Calibrated Depression Stor. for Perv. Portion (in)	Comparison with Original Weighted Depression Stor. for Perv. Portion (%)
D08_002	0.07	0%	0.316	30%
D08_003	0.07	0%	0.329	30%
D08_004	0.07	0%	0.309	30%
D08_005	0.07	0%	0.29	30%
D08_006	0.07	0%	0.354	30%
D08_007	0.07	0%	0.317	30%
D08_008	0.07	0%	0.308	30%
D08_009	0.07	0%	0.322	30%
D08_010	0.07	0%	0.296	30%
D08_011	0.07	0%	0.339	30%
D08_012	0.07	0%	0.286	30%
D08_013	0.07	0%	0.316	30%
D08_014	0.07	0%	0.302	30%
D08_015	0.07	0%	0.304	30%
D08_016	0.07	0%	0.325	30%
D09_001	0.07	0%	0.282	30%
D09_002	0.07	0%	0.364	30%
D09_003	0.07	0%	0.286	30%
D09_004	0.07	0%	0.285	30%
D09_005	0.07	0%	0.302	30%
D09_006	0.07	0%	0.278	30%
D09_007	0.07	0%	0.285	30%
D10_001	0.07	0%	0.261	30%
D10_002	0.07	0%	0.26	30%
D10_003	0.07	0%	0.276	30%
D10_004	0.07	0%	0.348	30%
D10_005	0.07	0%	0.29	30%
D10_006	0.07	0%	0.359	30%
D10_007	0.07	0%	0.298	30%
D10_008	0.07	0%	0.287	30%
D10_009	0.07	0%	0.304	30%
D10_010	0.07	0%	0.351	30%
D10_011	0.07	0%	0.319	30%
D10_012	0.07	0%	0.293	30%
D10_013	0.07	0%	0.32	30%
D10_014	0.07	0%	0.295	30%
D10_015	0.07	0%	0.302	30%
D10_016	0.07	0%	0.281	30%
D10_017	0.07	0%		

New Allen Basin Study
Table 2.2.1
Comparison of Final Calibrated Hydrologic Parameters with Initial Calculated Values

Original Greem & Ampt Parameters Calculated from GIS Intersection				
Subcatchment ID	Subcatchment Area (ac)	Weighted Capillary Suction (in)	Weighted Sat. Hydraulic Conductivity (in/hr)	Weighted Initial Soil Moisture Deficit (fraction)
D11_023	11.563	6.69	0.26	0.217
D11_024	0.805	6.69	0.26	0.217
D11_025	6.525	6.69	0.26	0.22
D11_025_1	3.88	6.69	0.26	0.22
D11_025_2	0.245	6.69	0.26	0.22
D11_026	8.343	6.69	0.26	0.217
D11_027	2.83	6.69	0.26	0.217
D11_028	0.978	6.69	0.26	0.217
D11_029	1.252	6.69	0.26	0.217
D11_030	2.197	6.69	0.26	0.217
D11_031	27.091	6.69	0.26	0.217
D11_032	0.173	6.69	0.26	0.217
D11_033	0.96	6.69	0.26	0.217
D11_034	0.081	6.69	0.26	0.217
D11_035	0.412	6.69	0.26	0.217
D11_036	0.505	6.69	0.26	0.217
D11_037	0.883	6.69	0.26	0.217
D11_038	0.316	6.69	0.26	0.217
D11_039	1.331	6.69	0.26	0.217
D11_040	3.159	6.69	0.26	0.217
D11_041	0.444	6.69	0.26	0.217
D12_001	2.234	6.69	0.26	0.217
D12_002	0.689	6.69	0.26	0.217
D12_003	1.29	6.69	0.26	0.217
D12_004	1.445	6.69	0.26	0.217
D12_005	0.747	6.69	0.26	0.217
D12_006	0.534	6.69	0.26	0.217
D12_007	1.854	6.69	0.26	0.217
D12_008	0.346	6.69	0.26	0.217
D12_009	8.46	6.69	0.26	0.217
D12_010	0.115	6.69	0.26	0.217
D12_011	6.513	6.69	0.26	0.217
D12_012	17.91	6.69	0.26	0.217
D12_013	1.79	6.69	0.26	0.217
D12_014	0.382	6.69	0.26	0.217
D12_015	1.135	6.69	0.26	0.217
D12_016	1.485	6.69	0.26	0.217
D12_017	0.742	6.69	0.26	0.217
D12_018	0.364	6.69	0.26	0.217
D12_019	3.256	6.69	0.26	0.217

Final Calibrated Green & Ampt Parameters used in InfoSWMM Model						
Subcatchment ID	Calibrated Capillary Suction (in)	Comparison with Original Weighted Capillary Suction (%)	Calibrated Sat. Hydraulic Conductivity (in/hr)	Comparison with Original Weighted Sat. Hydraulic Conductivity (%)	Calibrated Initial Soil Moisture Deficit (fraction)	Comparison with Original Weighted Initial Soil Moisture Deficit (%)
D11_023	6.69	0%	0.26	0%	0.217	0%
D11_024	6.69	0%	0.26	0%	0.217	0%
D11_025	6.69	0%	0.26	0%	0.22	0%
D11_025_1	6.69	0%	0.26	0%	0.22	0%
D11_025_2	6.69	0%	0.26	0%	0.22	0%
D11_026	6.69	0%	0.26	0%	0.217	0%
D11_027	6.69	0%	0.26	0%	0.217	0%
D11_028	6.69	0%	0.26	0%	0.217	0%
D11_029	6.69	0%	0.26	0%	0.217	0%
D11_030	6.69	0%	0.26	0%	0.217	0%
D11_031	6.69	0%	0.26	0%	0.217	0%
D11_032	6.69	0%	0.26	0%	0.217	0%
D11_033	6.69	0%	0.26	0%	0.217	0%
D11_034	6.69	0%	0.26	0%	0.217	0%
D11_035	6.69	0%	0.26	0%	0.217	0%
D11_036	6.69	0%	0.26	0%	0.217	0%
D11_037	6.69	0%	0.26	0%	0.217	0%
D11_038	6.69	0%	0.26	0%	0.217	0%
D11_039	6.69	0%	0.26	0%	0.217	0%
D11_040	6.69	0%	0.26	0%	0.217	0%
D11_041	6.69	0%	0.26	0%	0.217	0%
D12_001	6.69	0%	0.26	0%	0.217	0%
D12_002	6.69	0%	0.26	0%	0.217	0%
D12_003	6.69	0%	0.26	0%	0.217	0%
D12_004	6.69	0%	0.26	0%	0.217	0%
D12_005	6.69	0%	0.26	0%	0.217	0%
D12_006	6.69	0%	0.26	0%	0.217	0%
D12_007	6.69	0%	0.26	0%	0.217	0%
D12_008	6.69	0%	0.26	0%	0.217	0%
D12_009	6.69	0%	0.26	0%	0.217	0%
D12_010	6.69	0%	0.26	0%	0.217	0%
D12_011	6.69	0%	0.26	0%	0.217	0%
D12_012	6.69	0%	0.26	0%	0.217	0%
D12_013	6.69	0%	0.26	0%	0.217	0%
D12_014	6.69	0%	0.26	0%	0.217	0%
D12_015	6.69	0%	0.26	0%	0.217	0%
D12_016	6.69	0%	0.26	0%	0.217	0%
D12_017	6.69	0%	0.26	0%	0.217	0%
D12_018	6.69	0%	0.26	0%	0.217	0%
D12_019	6.69	0%	0.26	0%	0.217	0%

Original Depression Storage Values Calculated from GIS Intersection		
Subcatchment ID	Weighted Depression Stor. for Imp. Portion (in)	Weighted Depression Stor. for Perv. Portion (in)
D11_023	0.07	0.234
D11_024	0.07	0.275
D11_025	0.07	0.203
D11_025_1	0.07	0.202
D11_025_2	0.07	0.241
D11_026	0.07	0.2
D11_027	0.07	0.201
D11_028	0.07	0.203
D11_029	0.07	0.2
D11_030	0.07	0.205
D11_031	0.07	0.204
D11_032	0.07	0.2
D11_033	0.07	0.2
D11_034	0.07	0.2
D11_035	0.07	0.2
D11_036	0.07	0.2
D11_037	0.07	0.2
D11_038	0.07	0.202
D11_039	0.07	0.2
D11_040	0.07	0.2
D11_041	0.07	0.2
D12_001	0.07	0.2
D12_002	0.07	0.2
D12_003	0.07	0.2
D12_004	0.07	0.2
D12_005	0.07	0.2
D12_006	0.07	0.201
D12_007	0.07	0.2
D12_008	0.07	0.202
D12_009	0.07	0.201
D12_010	0.07	0.2
D12_011	0.07	0.22
D12_012	0.07	0.227
D12_013	0.07	0.234
D12_014	0.07	0.234
D12_015	0.07	0.206
D12_016	0.07	0.203
D12_017	0.07	0.2
D12_018	0.07	0.2
D12_019	0.07	0.211

Final Calibrated Depression Storage Parameters used in InfoSWMM Model				
Subcatchment ID	Calibrated Depression Stor. for Imp. Portion (in)	Comparison with Original Weighted Depression Stor. for Imp. Portion (%)	Calibrated Depression Stor. for Perv. Portion (in)	Comparison with Original Weighted Depression Stor. for Perv. Portion (%)
D11_023	0.07	0%	0.304	30%
D11_024	0.07	0%	0.358	30%
D11_025	0.07	0%	0.264	30%
D11_025_1	0.07	0%	0.263	30%
D11_025_2	0.07	0%	0.313	30%
D11_026	0.07	0%	0.26	30%
D11_027	0.07	0%	0.261	30%
D11_028	0.07	0%	0.264	30%
D11_029	0.07	0%	0.26	30%
D11_030	0.07	0%	0.267	30%
D11_031	0.07	0%	0.265	30%
D11_032	0.07	0%	0.26	30%
D11_033	0.07	0%	0.26	30%
D11_034	0.07	0%	0.26	30%
D11_035	0.07	0%	0.26	30%
D11_036	0.07	0%	0.26	30%
D11_037	0.07	0%	0.26	30%
D11_038	0.07	0%	0.263	30%
D11_039	0.07	0%	0.26	30%
D11_040	0.07	0%	0.26	30%
D11_041	0.07	0%	0.26	30%
D12_001	0.07	0%	0.26	30%
D12_002	0.07	0%	0.26	30%
D12_003	0.07	0%	0.26	30%
D12_004	0.07	0%	0.26	30%
D12_005	0.07	0%	0.26	30%
D12_006	0.07	0%	0.261	30%
D12_007	0.07	0%	0.26	30%
D12_008	0.07	0%	0.263	30%
D12_009	0.07	0%	0.261	30%
D12_010	0.07	0%	0.26	30%
D12_011	0.07	0%	0.286	30%
D12_012	0.07	0%	0.295	30%
D12_013	0.07	0%	0.304	30%
D12_014	0.07	0%	0.304	30%
D12_015	0.07	0%	0.268	30%
D12_016	0.07	0%	0.264	30%
D12_017	0.07	0%	0.26	30%
D12_018	0.07	0%	0.26	30%
D12_019	0.07	0%	0.274	30%

New Allen Basin Study
Table 2.2.2
Comparison of Final Calibrated Hydrologic Parameters with Initial Calculated Values

Original Manning's N for Pervious Areas		Final Calibrated Manning's N for Pervious Areas used in InfoSWMM Model		
Subcatchment ID	Manning's N for Pervious Portion	Subcatchment ID	Calibrated Manning's N for Pervious Portion	Comparison with Original Manning's N for Pervious Portion
A_001	0.4	A_001	0.52	30%
A_002	0.342	A_002	0.445	30%
A_003	0.361	A_003	0.469	30%
A_004	0.18	A_004	0.234	30%
A_005	0.263	A_005	0.342	30%
A_006	0.256	A_006	0.333	30%
A_007	0.236	A_007	0.307	30%
A_008	0.254	A_008	0.33	30%
A_009	0.196	A_009	0.255	30%
A_010	0.245	A_010	0.319	30%
A_011	0.291	A_011	0.378	30%
A_012	0.259	A_012	0.337	30%
A_013	0.334	A_013	0.434	30%
A_014	0.262	A_014	0.341	30%
A_015	0.223	A_015	0.29	30%
A_016	0.248	A_016	0.322	30%
A_017	0.239	A_017	0.311	30%
A_018	0.248	A_018	0.322	30%
A_019	0.278	A_019	0.361	30%
A_020	0.256	A_020	0.333	30%
A_021	0.222	A_021	0.289	30%
A_022	0.264	A_022	0.343	30%
A_023	0.247	A_023	0.321	30%
A_024	0.238	A_024	0.309	30%
A_025	0.206	A_025	0.268	30%
A_026	0.191	A_026	0.248	30%
B_001	0.337	B_001	0.438	30%
B_002	0.36	B_002	0.468	30%
B_003	0.396	B_003	0.515	30%
B_004	0.281	B_004	0.365	30%
B_006	0.368	B_006	0.478	30%
B_007	0.394	B_007	0.512	30%
B_008	0.295	B_008	0.384	30%
B_009	0.376	B_009	0.489	30%
B_012	0.341	B_012	0.443	30%
B_013	0.285	B_013	0.371	30%
B_014	0.343	B_014	0.446	30%
B_016	0.335	B_016	0.436	30%
B_017	0.349	B_017	0.454	30%
B_020	0.356	B_020	0.463	30%
B_021	0.223	B_021	0.29	30%
B_022	0.345	B_022	0.449	30%
B_023	0.189	B_023	0.246	30%
C_001	0.37	C_001	0.481	30%
C_002	0.279	C_002	0.363	30%
C_003	0.373	C_003	0.485	30%
C_004	0.32	C_004	0.416	30%
C_005	0.328	C_005	0.426	30%
C_006	0.192	C_006	0.25	30%
C_007	0.256	C_007	0.333	30%
C_008	0.294	C_008	0.382	30%
C_009	0.263	C_009	0.342	30%
C_010	0.211	C_010	0.274	30%
C_011	0.273	C_011	0.355	30%
C_012	0.274	C_012	0.356	30%
C_013	0.231	C_013	0.3	30%

Original Subcatchment Width Calculated from Subcatchment Area and Length		Final Calibrated Subcatchment Width used in InfoSWMM Model		
Subcatchment ID	Subcatchment Width (ft)	Subcatchment ID	Calibrated Subcatchment Width (ft)	Comparison with Original Subcatchment Width (%)
A_001	766.02	A_001	536.21	-30%
A_002	51,083.11	A_002	35,758.18	-30%
A_003	9,250.86	A_003	6,475.60	-30%
A_004	726.82	A_004	508.78	-30%
A_005	5,545.22	A_005	3,881.65	-30%
A_006	2,897.35	A_006	2,028.15	-30%
A_007	2,255.93	A_007	1,579.15	-30%
A_008	533.27	A_008	373.29	-30%
A_009	1,071.11	A_009	749.78	-30%
A_010	2,737.37	A_010	1,916.16	-30%
A_011	246.93	A_011	172.85	-30%
A_012	2,582.19	A_012	1,807.53	-30%
A_013	4,858.60	A_013	3,401.02	-30%
A_014	977.72	A_014	684.41	-30%
A_015	536.89	A_015	375.82	-30%
A_016	3,420.29	A_016	2,394.20	-30%
A_017	798.89	A_017	559.22	-30%
A_018	1,050.97	A_018	735.68	-30%
A_019	1,142.53	A_019	799.77	-30%
A_020	560.52	A_020	392.36	-30%
A_021	1,502.03	A_021	1,051.42	-30%
A_022	1,991.15	A_022	1,393.81	-30%
A_023	727.79	A_023	509.46	-30%
A_024	931.89	A_024	652.33	-30%
A_025	344.58	A_025	241.21	-30%
A_026	3,684.19	A_026	2,578.93	-30%
B_001	8,501.53	B_001	5,951.07	-30%
B_002	22,763.28	B_002	15,934.29	-30%
B_003	24,688.14	B_003	17,281.70	-30%
B_004	16,840.16	B_004	11,788.11	-30%
B_006	2,368.00	B_006	1,657.60	-30%
B_007	3,123.64	B_007	2,186.55	-30%
B_008	15,120.12	B_008	10,584.09	-30%
B_009	6,715.56	B_009	4,700.89	-30%
B_012	8,669.32	B_012	6,068.52	-30%
B_013	3,486.10	B_013	2,440.27	-30%
B_014	32,260.86	B_014	22,582.60	-30%
B_016	10,529.35	B_016	7,370.54	-30%
B_017	33,468.41	B_017	23,427.89	-30%
B_020	3,123.92	B_020	2,186.74	-30%
B_021	2,458.04	B_021	1,720.63	-30%
B_022	2,154.46	B_022	1,508.12	-30%
B_023	1,141.52	B_023	799.06	-30%
C_001	108,689.10	C_001	76,082.37	-30%
C_002	4,284.26	C_002	2,998.98	-30%
C_003	6,656.96	C_003	4,659.87	-30%
C_004	4,634.26	C_004	3,243.98	-30%
C_005	9,323.14	C_005	6,526.20	-30%
C_006	449.98	C_006	314.99	-30%
C_007	1,087.03	C_007	760.92	-30%
C_008	1,369.29	C_008	958.50	-30%
C_009	1,036.87	C_009	725.81	-30%
C_010	1,082.68	C_010	757.88	-30%
C_011	1,382.76	C_011	967.93	-30%
C_012	2,513.29	C_012	1,759.30	-30%
C_013	2,251.51	C_013	1,576.05	-30%

Original Subcatchment Slope Calculated from Longest Flow Paths and TIN		Final Calibrated Subcatchment Slope used in InfoSWMM Model		
Subcatchment ID	Subcatchment Slope (%)	Subcatchment ID	Calibrated Subcatchment Slope (%)	Comparison with Original Subcatchment Slope (%)
A_001	4.588	A_001	3.67	-20%
A_002	4.568	A_002	3.65	-20%
A_003	4.5	A_003	3.60	-20%
A_004	3.629	A_004	2.90	-20%
A_005	4.494	A_005	3.60	-20%
A_006	4.631	A_006	3.71	-20%
A_007	4.484	A_007	3.59	-20%
A_008	4.291	A_008	3.43	-20%
A_009	5.067	A_009	4.05	-20%
A_010	4.853	A_010	3.88	-20%
A_011	4.456	A_011	3.57	-20%
A_012	4.656	A_012	3.73	-20%
A_013	5.303	A_013	4.24	-20%
A_014	4.25	A_014	3.40	-20%
A_015	5.115	A_015	4.09	-20%
A_016	4.374	A_016	3.50	-20%
A_017	4.534	A_017	3.63	-20%
A_018	5.469	A_018	4.38	-20%
A_019	4.791	A_019	3.83	-20%
A_020	4.862	A_020	3.89	-20%
A_021	4.957	A_021	3.97	-20%
A_022	5.114	A_022	4.09	-20%
A_023	4.683	A_023	3.75	-20%
A_024	4.151	A_024	3.32	-20%
A_025	4.207	A_025	3.37	-20%
A_026	4.168	A_026	3.33	-20%
B_001	4.01	B_001	3.21	-20%
B_002	4.738	B_002	3.79	-20%
B_003	4.675	B_003	3.74	-20%
B_004	5.677	B_004	4.54	-20%
B_006	4.943	B_006	3.95	-20%
B_007	5.954	B_007	4.76	-20%
B_008	5.716	B_008	4.57	-20%
B_009	5.723	B_009	4.58	-20%
B_012	5.64	B_012	4.51	-20%
B_013	5.613	B_013	4.49	-20%
B_014	5.795	B_014	4.64	-20%
B_016	5.36	B_016	4.29	-20%
B_017	5.462	B_017	4.37	-20%
B_020	5.075	B_020	4.06	-20%
B_021	4.265	B_021	3.41	-20%
B_022	5.443	B_022	4.35	-20%
B_023	3.904	B_023	3.12	-20%
C_001	4.258	C_001	3.41	-20%
C_002	3.998	C_002	3.20	-20%
C_003	5.149	C_003	4.12	-20%
C_004	5.623	C_004	4.50	-20%
C_005	5.25	C_005	4.20	-20%
C_006	4.493	C_006	3.59	-20%
C_007	4.59	C_007	3.67	-20%
C_008	4.51	C_008	3.61	-20%
C_009	4.808	C_009	3.85	-20%
C_010	4.907	C_010	3.93	-20%
C_011	4.23	C_011	3.38	-20%
C_012	3.926	C_012	3.14	-20%
C_013	4.552	C_013	3.64	-20%

Original Subcatchment Imperviousness Calculated from GIS Intersection		Final Calibrated Subcatchment Imperviousness used in InfoSWMM Model		
Subcatchment ID	Subcatch. Imperviousness (%)	Subcatchment ID	Calibrated Subcatch. Imperviousness (%)	Comparison with Original Subcatch. Imperviousness (%)
A_001	12.7	A_001	11.43	-10%
A_002	8.3	A_002	7.47	-10%
A_003	13.9	A_003	12.51	-10%
A_004	41.7	A_004	37.53	-10%
A_005	38.7	A_005	34.83	-10%
A_006	44.1	A_006	39.69	-10%
A_007	40.8	A_007	36.72	-10%
A_008	28.6	A_008	25.74	-10%
A_009	45.9	A_009	41.31	-10%
A_010	39.3	A_010	35.37	-10%
A_011	30.4	A_011	27.36	-10%
A_012	41.2	A_012	37.08	-10%
A_013	18.4	A_013	16.56	-10%
A_014	34.1	A_014	30.69	-10%
A_015	58.4	A_015	52.56	-10%
A_016	39.8	A_016	35.82	-10%
A_017	30.6	A_017	27.54	-10%
A_018	47.4	A_018	42.66	-10%
A_019	41.6	A_019	37.44	-10%
A_020	38	A_020	34.20	-10%
A_021	39.2	A_021	35.28	-10%
A_022	31.7	A_022	28.53	-10%
A_023	22.8	A_023	20.52	-10%
A_024	35.2	A_024	31.68	-10%
A_025	76.5	A_025	68.85	-10%
A_026	52.8	A_026	47.52	-10%
B_001	11.8	B_001	10.62	-10%
B_002	6.4	B_002	5.76	-10%
B_003	17.4	B_003	15.66	-10%
B_004	5.5	B_004	4.95	-10%
B_006	4.2	B_006	3.78	-10%
B_007	2	B_007	1.80	-10%
B_008	7.4	B_008	6.66	-10%
B_009	1	B_009	0.90	-10%
B_012	1.5	B_012	1.35	-10%
B_013	3.9	B_013	3.51	-10%
B_014	1.4	B_014	1.26	-10%
B_016	4.8	B_016	4.32	-10%
B_017	7	B_017	6.30	-10%
B_020	11.5	B_020	10.35	-10%
B_021	43.3	B_021	38.97	-10%
B_022	23.9	B_022	21.51	-10%
B_023	50.2	B_023	45.18	-10%
C_001	4.7	C_001	4.23	-10%
C_002	13.7	C_002	12.33	-10%
C_003	6.1	C_003	5.49	-10%
C_004	9.1	C_004	8.19	-10%
C_005	15.3	C_005	13.77	-10%
C_006	35.2	C_006	31.68	-10%
C_007	47.3	C_007	42.57	-10%
C_008	40.7	C_008	36.63	-10%
C_009	41.4	C_009	37.26	-10%
C_010	54.2	C_010	48.78	-10%
C_011	45.9	C_011	41.31	-10%
C_012	48.3	C_012	43.47	-10%
C_013	30.9	C_013	27.81	-10%

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Table 2.2.2

Comparison of Final Calibrated Hydrologic Parameters with Initial Calculated Values

Original Manning's N for Pervious Areas		Final Calibrated Manning's N for Pervious Areas used in InfoSWMM Model		
Subcatchment ID	Manning's N for Pervious Portion	Subcatchment ID	Calibrated Manning's N for Pervious Portion	Comparison with Original Manning's N for Pervious Portion
C_014	0.258	C_014	0.335	30%
C_015	0.224	C_015	0.291	30%
C_016	0.162	C_016	0.211	30%
C_017	0.226	C_017	0.294	30%
C_018	0.284	C_018	0.369	30%
C_019	0.373	C_019	0.485	30%
C_020	0.315	C_020	0.41	30%
D00_001	0.384	D00_001	0.499	30%
D00_002	0.372	D00_002	0.484	30%
D00_003	0.318	D00_003	0.413	30%
D00_004	0.235	D00_004	0.306	30%
D00_005	0.203	D00_005	0.264	30%
D00_006	0.189	D00_006	0.246	30%
D00_007	0.158	D00_007	0.205	30%
D00_008	0.157	D00_008	0.204	30%
D00_009	0.21	D00_009	0.273	30%
D00_010	0.166	D00_010	0.216	30%
D00_011	0.182	D00_011	0.237	30%
D00_012	0.249	D00_012	0.324	30%
D00_013	0.274	D00_013	0.356	30%
D00_014	0.265	D00_014	0.345	30%
D00_015	0.396	D00_015	0.515	30%
D00_016	0.389	D00_016	0.506	30%
D00_017	0.323	D00_017	0.42	30%
D00_018	0.176	D00_018	0.229	30%
D00_019	0.212	D00_019	0.276	30%
D00_020	0.245	D00_020	0.319	30%
D00_021	0.274	D00_021	0.356	30%
D00_022	0.356	D00_022	0.463	30%
D00_023	0.366	D00_023	0.476	30%
D00_024	0.25	D00_024	0.325	30%
D00_025	0.276	D00_025	0.359	30%
D00_026	0.381	D00_026	0.495	30%
D00_027	0.314	D00_027	0.408	30%
D00_028	0.39	D00_028	0.507	30%
D00_029	0.376	D00_029	0.489	30%
D00_030	0.4	D00_030	0.52	30%
D00_031	0.26	D00_031	0.338	30%
D00_032	0.4	D00_032	0.52	30%
D00_033	0.4	D00_033	0.52	30%
D00_034	0.399	D00_034	0.519	30%
D00_035	0.33	D00_035	0.429	30%
D00_036	0.323	D00_036	0.42	30%
D00_037_01	0.377	D00_037_01	0.49	30%
D00_037_02	0.381	D00_037_02	0.495	30%
D00_038	0.197	D00_038	0.256	30%
D00_039	0.229	D00_039	0.298	30%
D00_040	0.334	D00_040	0.434	30%
D00_041	0.156	D00_041	0.203	30%
D00_042	0.19	D00_042	0.247	30%
D00_043	0.204	D00_043	0.265	30%
D00_044	0.165	D00_044	0.215	30%
D00_045	0.319	D00_045	0.415	30%
D00_046	0.156	D00_046	0.203	30%
D00_047	0.354	D00_047	0.46	30%
D00_048	0.191	D00_048	0.248	30%

Original Subcatchment Width Calculated from Subcatchment Area and Length		Final Calibrated Subcatchment Width used in InfoSWMM Model		
Subcatchment ID	Subcatchment Width (ft)	Subcatchment ID	Calibrated Subcatchment Width (ft)	Comparison with Original Subcatchment Width (%)
C_014	5,317.34	C_014	3,722.14	-30%
C_015	6,133.95	C_015	4,293.77	-30%
C_016	843.01	C_016	590.11	-30%
C_017	2,476.80	C_017	1,733.76	-30%
C_018	22,138.62	C_018	15,497.03	-30%
C_019	13,794.52	C_019	9,656.16	-30%
C_020	9,473.16	C_020	6,631.21	-30%
D00_001	151,348.34	D00_001	105,943.84	-30%
D00_002	32,774.65	D00_002	22,942.25	-30%
D00_003	1,908.04	D00_003	1,335.63	-30%
D00_004	147.94	D00_004	103.56	-30%
D00_005	56.43	D00_005	39.50	-30%
D00_006	2,429.93	D00_006	1,700.95	-30%
D00_007	223.45	D00_007	156.42	-30%
D00_008	302.16	D00_008	211.51	-30%
D00_009	1,332.44	D00_009	932.71	-30%
D00_010	227.15	D00_010	159.00	-30%
D00_011	320.84	D00_011	224.59	-30%
D00_012	4,313.86	D00_012	3,019.70	-30%
D00_013	2,837.84	D00_013	1,986.49	-30%
D00_014	3,156.69	D00_014	2,209.68	-30%
D00_015	2,958.44	D00_015	2,070.91	-30%
D00_016	3,595.60	D00_016	2,516.92	-30%
D00_017	5,617.93	D00_017	3,932.55	-30%
D00_018	2,289.67	D00_018	1,602.77	-30%
D00_019	2,292.71	D00_019	1,604.90	-30%
D00_020	1,254.97	D00_020	878.48	-30%
D00_021	2,422.44	D00_021	1,695.71	-30%
D00_022	2,144.42	D00_022	1,501.10	-30%
D00_023	4,983.20	D00_023	3,488.24	-30%
D00_024	1,312.00	D00_024	918.40	-30%
D00_025	3,274.42	D00_025	2,292.09	-30%
D00_026	7,347.57	D00_026	5,143.30	-30%
D00_027	2,668.41	D00_027	1,867.89	-30%
D00_028	1,176.68	D00_028	823.68	-30%
D00_029	21,379.23	D00_029	14,965.46	-30%
D00_030	1,639.70	D00_030	1,147.79	-30%
D00_031	2,556.32	D00_031	1,789.42	-30%
D00_032	318.77	D00_032	223.14	-30%
D00_033	2,960.82	D00_033	2,072.57	-30%
D00_034	2,677.20	D00_034	1,874.04	-30%
D00_035	974.05	D00_035	681.83	-30%
D00_036	24,702.86	D00_036	17,292.00	-30%
D00_037_01	6,006.44	D00_037_01	4,204.51	-30%
D00_037_02	5,292.27	D00_037_02	3,704.59	-30%
D00_038	3,890.76	D00_038	2,723.53	-30%
D00_039	733.08	D00_039	513.15	-30%
D00_040	17,356.69	D00_040	12,149.69	-30%
D00_041	5,118.68	D00_041	3,583.08	-30%
D00_042	845.99	D00_042	592.19	-30%
D00_043	241.99	D00_043	169.40	-30%
D00_044	1,377.47	D00_044	964.23	-30%
D00_045	3,289.88	D00_045	2,302.91	-30%
D00_046	675.73	D00_046	473.01	-30%
D00_047	11,196.90	D00_047	7,837.83	-30%
D00_048	1,886.64	D00_048	1,320.65	-30%

Original Subcatchment Slope Calculated from Longest Flow Paths and TIN		Final Calibrated Subcatchment Slope used in InfoSWMM Model		
Subcatchment ID	Subcatchment Slope (%)	Subcatchment ID	Calibrated Subcatchment Slope (%)	Comparison with Original Subcatchment Slope (%)
C_014	5.151	C_014	4.12	-20%
C_015	4.3	C_015	3.44	-20%
C_016	3.488	C_016	2.79	-20%
C_017	4.897	C_017	3.92	-20%
C_018	5.392	C_018	4.31	-20%
C_019	5.694	C_019	4.56	-20%
C_020	4.947	C_020	3.96	-20%
D00_001	4.112	D00_001	3.29	-20%
D00_002	4.597	D00_002	3.68	-20%
D00_003	4.721	D00_003	3.78	-20%
D00_004	4.4	D00_004	3.52	-20%
D00_005	3.417	D00_005	2.73	-20%
D00_006	3.221	D00_006	2.58	-20%
D00_007	3.957	D00_007	3.17	-20%
D00_008	3.216	D00_008	2.57	-20%
D00_009	3.546	D00_009	2.84	-20%
D00_010	5.215	D00_010	4.17	-20%
D00_011	3.846	D00_011	3.08	-20%
D00_012	4.203	D00_012	3.36	-20%
D00_013	3.193	D00_013	2.55	-20%
D00_014	3.988	D00_014	3.19	-20%
D00_015	5.254	D00_015	4.20	-20%
D00_016	5.299	D00_016	4.24	-20%
D00_017	4.133	D00_017	3.31	-20%
D00_018	3.136	D00_018	2.51	-20%
D00_019	3.178	D00_019	2.54	-20%
D00_020	3.664	D00_020	2.93	-20%
D00_021	4.222	D00_021	3.38	-20%
D00_022	4.461	D00_022	3.57	-20%
D00_023	4.623	D00_023	3.70	-20%
D00_024	3.071	D00_024	2.46	-20%
D00_025	3.926	D00_025	3.14	-20%
D00_026	5.331	D00_026	4.27	-20%
D00_027	3.002	D00_027	2.40	-20%
D00_028	5.479	D00_028	4.38	-20%
D00_029	6.154	D00_029	4.92	-20%
D00_030	5.112	D00_030	4.09	-20%
D00_031	4.411	D00_031	3.53	-20%
D00_032	4.799	D00_032	3.84	-20%
D00_033	5.653	D00_033	4.52	-20%
D00_034	5.223	D00_034	4.18	-20%
D00_035	4.746	D00_035	3.80	-20%
D00_036	3.867	D00_036	3.09	-20%
D00_037_01	5.057	D00_037_01	4.05	-20%
D00_037_02	4.96	D00_037_02	3.97	-20%
D00_038	3.719	D00_038	2.98	-20%
D00_039	4.727	D00_039	3.78	-20%
D00_040	4.66	D00_040	3.73	-20%
D00_041	2.987	D00_041	2.39	-20%
D00_042	3.276	D00_042	2.62	-20%
D00_043	4.175	D00_043	3.34	-20%
D00_044	3.076	D00_044	2.46	-20%
D00_045	4.433	D00_045	3.55	-20%
D00_046	3.082	D00_046	2.47	-20%
D00_047	5.282	D00_047	4.23	-20%
D00_048	2.958	D00_048	2.37	-20%

Original Subcatchment Imperviousness Calculated from GIS Intersection		Final Calibrated Subcatchment Imperviousness used in InfoSWMM Model		
Subcatchment ID	Subcatch. Imperviousness (%)	Subcatchment ID	Calibrated Subcatch. Imperviousness (%)	Comparison with Original Subcatch. Imperviousness (%)
C_014	13.8	C_014	12.42	-10%
C_015	42.9	C_015	38.61	-10%
C_016	68.5	C_016	61.65	-10%
C_017	36.6	C_017	32.94	-10%
C_018	10.6	C_018	9.54	-10%
C_019	3.5	C_019	3.15	-10%
C_020	8.3	C_020	7.47	-10%
D00_001	10.2	D00_001	9.18	-10%
D00_002	5.4	D00_002	4.86	-10%
D00_003	34.8	D00_003	31.32	-10%
D00_004	15.7	D00_004	14.13	-10%
D00_005	58	D00_005	52.20	-10%
D00_006	57.6	D00_006	51.84	-10%
D00_007	33	D00_007	29.70	-10%
D00_008	24.4	D00_008	21.96	-10%
D00_009	45	D00_009	40.50	-10%
D00_010	24.1	D00_010	21.69	-10%
D00_011	32.1	D00_011	28.89	-10%
D00_012	43.4	D00_012	39.06	-10%
D00_013	62.2	D00_013	55.98	-10%
D00_014	47.7	D00_014	42.93	-10%
D00_015	27.3	D00_015	24.57	-10%
D00_016	10.9	D00_016	9.81	-10%
D00_017	57.8	D00_017	52.02	-10%
D00_018	60.3	D00_018	54.27	-10%
D00_019	51.6	D00_019	46.44	-10%
D00_020	53.5	D00_020	48.15	-10%
D00_021	49.1	D00_021	44.19	-10%
D00_022	39	D00_022	35.10	-10%
D00_023	12.4	D00_023	11.16	-10%
D00_024	61.6	D00_024	55.44	-10%
D00_025	68.6	D00_025	61.74	-10%
D00_026	9.9	D00_026	8.91	-10%
D00_027	73.3	D00_027	65.97	-10%
D00_028	10	D00_028	9.00	-10%
D00_029	3.2	D00_029	2.88	-10%
D00_030	1.1	D00_030	0.99	-10%
D00_031	4.4	D00_031	3.96	-10%
D00_032	15.9	D00_032	14.31	-10%
D00_033	1.6	D00_033	1.44	-10%
D00_034	5.9	D00_034	5.31	-10%
D00_035	6.1	D00_035	5.49	-10%
D00_036	1.1	D00_036	0.99	-10%
D00_037_01	11	D00_037_01	9.90	-10%
D00_037_02	14.4	D00_037_02	12.96	

New Allen Basin Study
Table 2.2.2
Comparison of Final Calibrated Hydrologic Parameters with Initial Calculated Values

Original Manning's N for Pervious Areas		Final Calibrated Manning's N for Pervious Areas used in InfoSWMM Model		
Subcatchment ID	Manning's N for Pervious Portion	Subcatchment ID	Calibrated Manning's N for Pervious Portion	Comparison with Original Manning's N for Pervious Portion
D00_049	0.153	D00_049	0.199	30%
D00_050	0.391	D00_050	0.508	30%
D00_051	0.156	D00_051	0.203	30%
D00_052	0.323	D00_052	0.42	30%
D00_053	0.229	D00_053	0.298	30%
D00_054	0.358	D00_054	0.465	30%
D00_055	0.374	D00_055	0.486	30%
D00_055.1	0.374	D00_055.1	0.486	30%
D00_056	0.257	D00_056	0.334	30%
D00_057	0.201	D00_057	0.261	30%
D00_058	0.278	D00_058	0.361	30%
D00_059	0.392	D00_059	0.51	30%
D00_060	0.303	D00_060	0.394	30%
D00_061	0.299	D00_061	0.389	30%
D00_062	0.349	D00_062	0.454	30%
D00_063	0.272	D00_063	0.354	30%
D00_064	0.399	D00_064	0.519	30%
D00_065	0.4	D00_065	0.52	30%
D00_066	0.385	D00_066	0.501	30%
D01_001	0.258	D01_001	0.335	30%
D01_002	0.193	D01_002	0.251	30%
D01_003	0.26	D01_003	0.338	30%
D01_004	0.265	D01_004	0.345	30%
D01_005	0.199	D01_005	0.259	30%
D01_006	0.204	D01_006	0.265	30%
D01_007	0.267	D01_007	0.347	30%
D02_001	0.276	D02_001	0.359	30%
D02_002	0.286	D02_002	0.372	30%
D02_003	0.316	D02_003	0.411	30%
D02_004	0.323	D02_004	0.42	30%
D02_005	0.331	D02_005	0.43	30%
D02_006	0.342	D02_006	0.445	30%
D02_007	0.332	D02_007	0.432	30%
D03_001	0.371	D03_001	0.482	30%
D03_002	0.303	D03_002	0.394	30%
D03_003	0.258	D03_003	0.335	30%
D03_004	0.337	D03_004	0.438	30%
D03_005	0.356	D03_005	0.463	30%
D03_006	0.314	D03_006	0.408	30%
D03_007	0.286	D03_007	0.372	30%
D03_008	0.296	D03_008	0.385	30%
D03_009	0.352	D03_009	0.458	30%
D03_010	0.358	D03_010	0.465	30%
D03_011	0.379	D03_011	0.493	30%
D03_012	0.193	D03_012	0.251	30%
D03_013	0.294	D03_013	0.382	30%
D03_014	0.211	D03_014	0.274	30%
D03_015	0.151	D03_015	0.196	30%
D03_016	0.265	D03_016	0.345	30%
D03_017	0.275	D03_017	0.358	30%
D03_018	0.368	D03_018	0.478	30%
D03_019	0.258	D03_019	0.335	30%
D03_020	0.307	D03_020	0.399	30%
D03_021	0.285	D03_021	0.371	30%
D04_001	0.188	D04_001	0.244	30%
D04_002	0.237	D04_002	0.308	30%

Original Subcatchment Width Calculated from Subcatchment Area and Length		Final Calibrated Subcatchment Width used in InfoSWMM Model		
Subcatchment ID	Subcatchment Width (ft)	Subcatchment ID	Calibrated Subcatchment Width (ft)	Comparison with Original Subcatchment Width (%)
D00_049	363.05	D00_049	254.13	-30%
D00_050	625.82	D00_050	438.07	-30%
D00_051	3,813.36	D00_051	2,669.35	-30%
D00_052	605.71	D00_052	424.00	-30%
D00_053	1,276.88	D00_053	893.82	-30%
D00_054	2,795.62	D00_054	1,956.93	-30%
D00_055	16,197.35	D00_055	11,338.15	-30%
D00_055.1	2,771.03	D00_055.1	1,939.72	-30%
D00_056	1,827.72	D00_056	1,279.41	-30%
D00_057	451.93	D00_057	316.35	-30%
D00_058	14,262.90	D00_058	9,984.03	-30%
D00_059	2,776.71	D00_059	1,943.70	-30%
D00_060	1,149.32	D00_060	804.52	-30%
D00_061	448.27	D00_061	313.79	-30%
D00_062	1,931.01	D00_062	1,351.71	-30%
D00_063	2,667.75	D00_063	1,867.43	-30%
D00_064	2,829.66	D00_064	1,980.76	-30%
D00_065	6,216.33	D00_065	4,351.43	-30%
D00_066	2,469.23	D00_066	1,728.46	-30%
D01_001	1,245.29	D01_001	871.70	-30%
D01_002	850.25	D01_002	595.18	-30%
D01_003	3,768.60	D01_003	2,638.02	-30%
D01_004	1,305.93	D01_004	914.15	-30%
D01_005	839.10	D01_005	587.37	-30%
D01_006	563.49	D01_006	394.45	-30%
D01_007	4,027.67	D01_007	2,819.37	-30%
D02_001	17,841.26	D02_001	12,488.88	-30%
D02_002	754.09	D02_002	527.86	-30%
D02_003	672.74	D02_003	470.92	-30%
D02_004	11,004.85	D02_004	7,703.39	-30%
D02_005	1,186.40	D02_005	830.48	-30%
D02_006	9,966.66	D02_006	6,976.66	-30%
D02_007	3,223.64	D02_007	2,256.55	-30%
D03_001	22,619.04	D03_001	15,833.33	-30%
D03_002	33,047.75	D03_002	23,133.43	-30%
D03_003	4,289.61	D03_003	3,002.73	-30%
D03_004	6,929.73	D03_004	4,850.81	-30%
D03_005	3,126.46	D03_005	2,188.52	-30%
D03_006	3,406.40	D03_006	2,384.48	-30%
D03_007	1,051.35	D03_007	735.95	-30%
D03_008	2,497.37	D03_008	1,748.16	-30%
D03_009	548.44	D03_009	383.91	-30%
D03_010	7,232.53	D03_010	5,062.77	-30%
D03_011	36,726.62	D03_011	25,708.64	-30%
D03_012	9,059.62	D03_012	6,341.74	-30%
D03_013	5,259.84	D03_013	3,681.89	-30%
D03_014	3,666.64	D03_014	2,566.65	-30%
D03_015	243.36	D03_015	170.35	-30%
D03_016	2,128.90	D03_016	1,490.23	-30%
D03_017	2,411.42	D03_017	1,687.99	-30%
D03_018	53.10	D03_018	37.17	-30%
D03_019	2,241.28	D03_019	1,568.90	-30%
D03_020	2,237.18	D03_020	1,566.03	-30%
D03_021	12,142.46	D03_021	8,499.72	-30%
D04_001	1,203.03	D04_001	842.12	-30%
D04_002	2,019.34	D04_002	1,413.54	-30%

Original Subcatchment Slope Calculated from Longest Flow Paths and TIN		Final Calibrated Subcatchment Slope used in InfoSWMM Model		
Subcatchment ID	Subcatchment Slope (%)	Subcatchment ID	Calibrated Subcatchment Slope (%)	Comparison with Original Subcatchment Slope (%)
D00_049	5.139	D00_049	4.11	-20%
D00_050	6.069	D00_050	4.86	-20%
D00_051	4.149	D00_051	3.32	-20%
D00_052	5.681	D00_052	4.55	-20%
D00_053	3.237	D00_053	2.59	-20%
D00_054	5.98	D00_054	4.78	-20%
D00_055	5.509	D00_055	4.41	-20%
D00_055.1	4.576	D00_055.1	3.66	-20%
D00_056	4.367	D00_056	3.49	-20%
D00_057	5.135	D00_057	4.11	-20%
D00_058	4.968	D00_058	3.97	-20%
D00_059	5.339	D00_059	4.27	-20%
D00_060	5.13	D00_060	4.10	-20%
D00_061	5.592	D00_061	4.47	-20%
D00_062	6.26	D00_062	5.01	-20%
D00_063	4.675	D00_063	3.74	-20%
D00_064	5.6	D00_064	4.48	-20%
D00_065	5.397	D00_065	4.32	-20%
D00_066	5.88	D00_066	4.70	-20%
D01_001	4.62	D01_001	3.70	-20%
D01_002	3.656	D01_002	2.93	-20%
D01_003	4.28	D01_003	3.42	-20%
D01_004	4.455	D01_004	3.56	-20%
D01_005	4.122	D01_005	3.30	-20%
D01_006	4.86	D01_006	3.89	-20%
D01_007	4.633	D01_007	3.71	-20%
D02_001	4.074	D02_001	3.26	-20%
D02_002	4.303	D02_002	3.44	-20%
D02_003	4.047	D02_003	3.24	-20%
D02_004	4.292	D02_004	3.43	-20%
D02_005	4.766	D02_005	3.81	-20%
D02_006	5.315	D02_006	4.25	-20%
D02_007	4.773	D02_007	3.82	-20%
D03_001	4.456	D03_001	3.57	-20%
D03_002	4.128	D03_002	3.30	-20%
D03_003	5.083	D03_003	4.07	-20%
D03_004	4.802	D03_004	3.84	-20%
D03_005	5.396	D03_005	4.32	-20%
D03_006	4.69	D03_006	3.75	-20%
D03_007	4.556	D03_007	3.65	-20%
D03_008	4.746	D03_008	3.80	-20%
D03_009	3.798	D03_009	3.04	-20%
D03_010	5.566	D03_010	4.45	-20%
D03_011	5.213	D03_011	4.17	-20%
D03_012	3.425	D03_012	2.74	-20%
D03_013	3.576	D03_013	2.86	-20%
D03_014	3.525	D03_014	2.82	-20%
D03_015	5.047	D03_015	4.04	-20%
D03_016	3.977	D03_016	3.18	-20%
D03_017	4.582	D03_017	3.67	-20%
D03_018	4.383	D03_018	3.51	-20%
D03_019	4.133	D03_019	3.31	-20%
D03_020	4.743	D03_020	3.79	-20%
D03_021	4.582	D03_021	3.67	-20%
D04_001	4.637	D04_001	3.71	-20%
D04_002	4.578	D04_002	3.66	-20%

Original Subcatchment Imperviousness Calculated from GIS Intersection		Final Calibrated Subcatchment Imperviousness used in InfoSWMM Model		
Subcatchment ID	Subcatch. Imperviousness (%)	Subcatchment ID	Calibrated Subcatch. Imperviousness (%)	Comparison with Original Subcatch. Imperviousness (%)
D00_049	13.6	D00_049	12.24	-10%
D00_050	8.6	D00_050	7.74	-10%
D00_051	45	D00_051	40.50	-10%
D00_052	4.6	D00_052	4.14	-10%
D00_053	53.9	D00_053	48.51	-10%
D00_054	2.3	D00_054	2.07	-10%
D00_055	4.6	D00_055	4.14	-10%
D00_055.1	21.3	D00_055.1	19.17	-10%
D00_056	41.4	D00_056	37.26	-10%
D00_057	51.5	D00_057	46.35	-10%
D00_058	17.6	D00_058	15.84	-10%
D00_059	7.6	D00_059	6.84	-10%
D00_060	64.1	D00_060	57.69	-10%
D00_061	9.7	D00_061	8.73	-10%
D00_062	7.2	D00_062	6.48	-10%
D00_063	63.7	D00_063	57.33	-10%
D00_064	4.8	D00_064	4.32	-10%
D00_065	0.8	D00_065	0.72	-10%
D00_066	10.7	D00_066	9.63	-10%
D01_001	46.7	D01_001	42.03	-10%
D01_002	60.3	D01_002	54.27	-10%
D01_003	51.5	D01_003	46.35	-10%
D01_004	51.5	D01_004	46.35	-10%
D01_005	46.8	D01_005	42.12	-10%
D01_006	59	D01_006	53.10	-10%
D01_007	48.6	D01_007	43.74	-10%
D02_001	49	D02_001	44.10	-10%
D02_002	75.4	D02_002	67.86	-10%
D02_003	66.7	D02_003	60.03	-10%
D02_004	21.7	D02_004	19.53	-10%
D02_005	4.5	D02_005	4.05	-10%
D02_006	11.1	D02_006	9.99	-10%
D02_007	17.7	D02_007	15.93	-10%
D03_001	18	D03_001	16.20	-10%
D03_002	43.7	D03_002	39.33	-10%
D03_003	30.8	D03_003	27.72	-10%
D03_004	40	D03_004	36.00	-10%
D03_005	12.2	D03_005	10.98	-10%
D03_006	53.5	D03_006	48.15	-10%
D03_007	53	D03_007	47.70	-10%
D03_008	45.2	D03_008	40.68	-10%
D03_009	81.8	D03_009	73.62	-10%
D03_010	15.6	D03_010	14.04	-10%
D03_011	15	D03_011	13.50	-10%
D03_0				

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Table 2.2.2
Comparison of Final Calibrated Hydrologic Parameters with Initial Calculated Values

Original Manning's N for Pervious Areas		Final Calibrated Manning's N for Pervious Areas used in InfoSWMM Model		
Subcatchment ID	Manning's N for Pervious Portion	Subcatchment ID	Calibrated Manning's N for Pervious Portion	Comparison with Original Manning's N for Pervious Portion
D04_003	0.332	D04_003	0.432	30%
D04_004	0.257	D04_004	0.334	30%
D04_005	0.221	D04_005	0.287	30%
D04_006	0.223	D04_006	0.29	30%
D04_007	0.31	D04_007	0.403	30%
D04_008	0.263	D04_008	0.342	30%
D04_009	0.208	D04_009	0.27	30%
D04_010	0.251	D04_010	0.326	30%
D04_011	0.277	D04_011	0.36	30%
D04_012	0.309	D04_012	0.402	30%
D04_013	0.28	D04_013	0.364	30%
D04_014	0.238	D04_014	0.309	30%
D05_001	0.28	D05_001	0.364	30%
D05_002	0.261	D05_002	0.339	30%
D05_003	0.268	D05_003	0.348	30%
D05_004	0.198	D05_004	0.257	30%
D05_005	0.301	D05_005	0.391	30%
D05_006	0.277	D05_006	0.36	30%
D05_007	0.313	D05_007	0.407	30%
D05_008	0.278	D05_008	0.361	30%
D05_009	0.231	D05_009	0.3	30%
D05_010	0.253	D05_010	0.329	30%
D05_011	0.252	D05_011	0.328	30%
D06_001	0.351	D06_001	0.456	30%
D06_002	0.192	D06_002	0.25	30%
D06_003	0.273	D06_003	0.355	30%
D06_004	0.295	D06_004	0.384	30%
D06_005	0.292	D06_005	0.38	30%
D06_006	0.328	D06_006	0.426	30%
D06_007	0.272	D06_007	0.354	30%
D06_008	0.33	D06_008	0.429	30%
D06_009	0.296	D06_009	0.385	30%
D06_010	0.303	D06_010	0.394	30%
D06_011	0.347	D06_011	0.451	30%
D06_012	0.278	D06_012	0.361	30%
D06_013	0.268	D06_013	0.348	30%
D06_014	0.279	D06_014	0.363	30%
D06_015	0.308	D06_015	0.4	30%
D06_016	0.281	D06_016	0.365	30%
D06_017	0.278	D06_017	0.361	30%
D06_018	0.283	D06_018	0.368	30%
D06_019	0.265	D06_019	0.345	30%
D06_021	0.287	D06_021	0.373	30%
D06_022	0.309	D06_022	0.402	30%
D06_023	0.3	D06_023	0.39	30%
D06_024	0.305	D06_024	0.397	30%
D06_025	0.391	D06_025	0.508	30%
D06_026	0.291	D06_026	0.378	30%
D06_027	0.302	D06_027	0.393	30%
D06_028	0.285	D06_028	0.371	30%
D06_029	0.286	D06_029	0.372	30%
D06_030	0.277	D06_030	0.36	30%
D06_031	0.271	D06_031	0.352	30%
D06_032	0.313	D06_032	0.407	30%
D06_033	0.213	D06_033	0.277	30%
D06_034	0.266	D06_034	0.346	30%

Original Subcatchment Width Calculated from Subcatchment Area and Length		Final Calibrated Subcatchment Width used in InfoSWMM Model		
Subcatchment ID	Subcatchment Width (ft)	Subcatchment ID	Calibrated Subcatchment Width (ft)	Comparison with Original Subcatchment Width (%)
D04_003	3,871.70	D04_003	2,710.19	-30%
D04_004	897.93	D04_004	628.55	-30%
D04_005	475.56	D04_005	332.89	-30%
D04_006	241.25	D04_006	168.88	-30%
D04_007	1,005.68	D04_007	703.98	-30%
D04_008	3,916.56	D04_008	2,741.59	-30%
D04_009	500.93	D04_009	350.65	-30%
D04_010	1,560.89	D04_010	1,092.62	-30%
D04_011	1,905.60	D04_011	1,333.92	-30%
D04_012	278.48	D04_012	194.94	-30%
D04_013	535.26	D04_013	374.68	-30%
D04_014	4,244.95	D04_014	2,971.47	-30%
D05_001	2,728.75	D05_001	1,910.12	-30%
D05_002	5,184.46	D05_002	3,629.12	-30%
D05_003	2,177.60	D05_003	1,524.32	-30%
D05_004	710.26	D05_004	497.18	-30%
D05_005	2,346.02	D05_005	1,642.21	-30%
D05_006	1,477.27	D05_006	1,034.09	-30%
D05_007	1,280.35	D05_007	896.24	-30%
D05_008	781.01	D05_008	546.71	-30%
D05_009	1,331.87	D05_009	932.31	-30%
D05_010	1,228.85	D05_010	860.19	-30%
D05_011	6,967.03	D05_011	4,876.92	-30%
D06_001	18,703.95	D06_001	13,092.77	-30%
D06_002	794.93	D06_002	556.45	-30%
D06_003	1,952.14	D06_003	1,366.50	-30%
D06_004	828.63	D06_004	580.04	-30%
D06_005	2,051.55	D06_005	1,436.09	-30%
D06_006	2,378.20	D06_006	1,664.74	-30%
D06_007	605.81	D06_007	424.07	-30%
D06_008	2,143.28	D06_008	1,500.30	-30%
D06_009	4,302.82	D06_009	3,011.98	-30%
D06_010	7,776.39	D06_010	5,443.48	-30%
D06_011	9,349.78	D06_011	6,544.84	-30%
D06_012	1,110.49	D06_012	777.35	-30%
D06_013	6,487.64	D06_013	4,541.35	-30%
D06_014	1,181.31	D06_014	826.92	-30%
D06_015	6,332.51	D06_015	4,432.76	-30%
D06_016	11,739.90	D06_016	8,217.93	-30%
D06_017	1,947.55	D06_017	1,363.29	-30%
D06_018	2,218.58	D06_018	1,553.00	-30%
D06_019	1,530.51	D06_019	1,071.36	-30%
D06_021	2,053.54	D06_021	1,437.48	-30%
D06_022	3,329.57	D06_022	2,330.70	-30%
D06_023	220.88	D06_023	154.62	-30%
D06_024	4,728.33	D06_024	3,309.83	-30%
D06_025	9,208.69	D06_025	6,446.09	-30%
D06_026	1,921.24	D06_026	1,344.87	-30%
D06_027	785.36	D06_027	549.75	-30%
D06_028	7,409.51	D06_028	5,186.66	-30%
D06_029	2,866.79	D06_029	2,006.75	-30%
D06_030	867.61	D06_030	607.32	-30%
D06_031	1,382.12	D06_031	967.48	-30%
D06_032	6,948.93	D06_032	4,864.25	-30%
D06_033	779.96	D06_033	545.97	-30%
D06_034	2,913.11	D06_034	2,039.17	-30%

Original Subcatchment Slope Calculated from Longest Flow Paths and TIN		Final Calibrated Subcatchment Slope used in InfoSWMM Model		
Subcatchment ID	Subcatchment Slope (%)	Subcatchment ID	Calibrated Subcatchment Slope (%)	Comparison with Original Subcatchment Slope (%)
D04_003	4.893	D04_003	3.91	-20%
D04_004	4.65	D04_004	3.72	-20%
D04_005	4.727	D04_005	3.78	-20%
D04_006	4.79	D04_006	3.83	-20%
D04_007	4.991	D04_007	3.99	-20%
D04_008	4.66	D04_008	3.73	-20%
D04_009	4.158	D04_009	3.33	-20%
D04_010	4.567	D04_010	3.65	-20%
D04_011	5.289	D04_011	4.23	-20%
D04_012	4.958	D04_012	3.97	-20%
D04_013	4.779	D04_013	3.82	-20%
D04_014	4.355	D04_014	3.48	-20%
D05_001	4.275	D05_001	3.42	-20%
D05_002	5.803	D05_002	4.64	-20%
D05_003	4.112	D05_003	3.29	-20%
D05_004	4.214	D05_004	3.37	-20%
D05_005	4.921	D05_005	3.94	-20%
D05_006	4.106	D05_006	3.29	-20%
D05_007	5.075	D05_007	4.06	-20%
D05_008	5.149	D05_008	4.12	-20%
D05_009	4.702	D05_009	3.76	-20%
D05_010	4.354	D05_010	3.48	-20%
D05_011	4.68	D05_011	3.74	-20%
D06_001	4.515	D06_001	3.61	-20%
D06_002	4.154	D06_002	3.32	-20%
D06_003	4.587	D06_003	3.67	-20%
D06_004	4.304	D06_004	3.44	-20%
D06_005	4.937	D06_005	3.95	-20%
D06_006	4.99	D06_006	3.99	-20%
D06_007	4.424	D06_007	3.54	-20%
D06_008	5.224	D06_008	4.18	-20%
D06_009	4.624	D06_009	3.70	-20%
D06_010	4.853	D06_010	3.88	-20%
D06_011	5.309	D06_011	4.25	-20%
D06_012	4.281	D06_012	3.43	-20%
D06_013	4.991	D06_013	3.99	-20%
D06_014	3.546	D06_014	2.84	-20%
D06_015	4.991	D06_015	3.99	-20%
D06_016	4.656	D06_016	3.73	-20%
D06_017	5.081	D06_017	4.07	-20%
D06_018	5.083	D06_018	4.07	-20%
D06_019	5.157	D06_019	4.13	-20%
D06_021	4.463	D06_021	3.57	-20%
D06_022	4.753	D06_022	3.80	-20%
D06_023	5.661	D06_023	4.53	-20%
D06_024	4.741	D06_024	3.79	-20%
D06_025	5.891	D06_025	4.71	-20%
D06_026	4.743	D06_026	3.79	-20%
D06_027	4.009	D06_027	3.21	-20%
D06_028	4.503	D06_028	3.60	-20%
D06_029	4.794	D06_029	3.84	-20%
D06_030	4.913	D06_030	3.93	-20%
D06_031	4.966	D06_031	3.97	-20%
D06_032	5.402	D06_032	4.32	-20%
D06_033	4.675	D06_033	3.74	-20%
D06_034	5.155	D06_034	4.12	-20%

Original Subcatchment Imperviousness Calculated from GIS Intersection		Final Calibrated Subcatchment Imperviousness used in InfoSWMM Model		
Subcatchment ID	Subcatch. Imperviousness (%)	Subcatchment ID	Calibrated Subcatch. Imperviousness (%)	Comparison with Original Subcatch. Imperviousness (%)
D04_003	31.2	D04_003	28.08	-10%
D04_004	62.1	D04_004	55.89	-10%
D04_005	41.4	D04_005	37.26	-10%
D04_006	49.2	D04_006	44.28	-10%
D04_007	40.9	D04_007	36.81	-10%
D04_008	39.2	D04_008	35.28	-10%
D04_009	62.7	D04_009	56.43	-10%
D04_010	45.1	D04_010	40.59	-10%
D04_011	30.7	D04_011	27.63	-10%
D04_012	34	D04_012	30.60	-10%
D04_013	54.9	D04_013	49.41	-10%
D04_014	40.6	D04_014	36.54	-10%
D05_001	41	D05_001	36.90	-10%
D05_002	20	D05_002	18.00	-10%
D05_003	39.7	D05_003	35.73	-10%
D05_004	44.8	D05_004	40.32	-10%
D05_005	31.1	D05_005	27.99	-10%
D05_006	48.8	D05_006	43.92	-10%
D05_007	28.9	D05_007	26.01	-10%
D05_008	40.1	D05_008	36.09	-10%
D05_009	58.2	D05_009	52.38	-10%
D05_010	49.1	D05_010	44.19	-10%
D05_011	38.7	D05_011	34.83	-10%
D06_001	8.2	D06_001	7.38	-10%
D06_002	67.1	D06_002	60.39	-10%
D06_003	45.6	D06_003	41.04	-10%
D06_004	43.2	D06_004	38.88	-10%
D06_005	55.2	D06_005	49.68	-10%
D06_006	58.4	D06_006	52.56	-10%
D06_007	59.6	D06_007	53.64	-10%
D06_008	50.9	D06_008	45.81	-10%
D06_009	42.6	D06_009	38.34	-10%
D06_010	52.3	D06_010	47.07	-10%
D06_011	36.8	D06_011	33.12	-10%
D06_012	67.2	D06_012	60.48	-10%
D06_013	58	D06_013	52.20	-10%
D06_014	62.9	D06_014	56.61	-10%
D06_015	52.2	D06_015	46.98	-10%
D06_016	59.4	D06_016	53.46	-10%
D06_017	54.5	D06_017	49.05	-10%
D06_018	58.2	D06_018	52.38	-10%
D06_019	65.2	D06_019	58.68	-10%
D06_021	61.4	D06_021	55.26	-10%
D06_022	53.7	D06_022	48.33	-10%
D06_023	39.7			

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Table 2.2.2
Comparison of Final Calibrated Hydrologic Parameters with Initial Calculated Values

Original Manning's N for Pervious Areas		Final Calibrated Manning's N for Pervious Areas used in InfoSWMM Model		
Subcatchment ID	Manning's N for Pervious Portion	Subcatchment ID	Calibrated Manning's N for Pervious Portion	Comparison with Original Manning's N for Pervious Portion
D06_035	0.297	D06_035	0.386	30%
D06_036	0.183	D06_036	0.238	30%
D06_037	0.242	D06_037	0.315	30%
D06_038	0.303	D06_038	0.394	30%
D06_039	0.284	D06_039	0.369	30%
D06_040	0.272	D06_040	0.354	30%
D06_041	0.289	D06_041	0.376	30%
D06_042	0.201	D06_042	0.261	30%
D06_043	0.315	D06_043	0.41	30%
D06_044	0.177	D06_044	0.23	30%
D06_045_01	0.317	D06_045_01	0.412	30%
D06_045_02	0.234	D06_045_02	0.304	30%
D06_045_03	0.257	D06_045_03	0.334	30%
D06_046	0.227	D06_046	0.295	30%
D06_047	0.268	D06_047	0.348	30%
D06_048	0.288	D06_048	0.374	30%
D06_049	0.294	D06_049	0.382	30%
D06_050	0.281	D06_050	0.365	30%
D06_051	0.319	D06_051	0.415	30%
D06_052	0.291	D06_052	0.378	30%
D06_053	0.285	D06_053	0.371	30%
D06_054	0.342	D06_054	0.445	30%
D06_055	0.258	D06_055	0.335	30%
D06_056	0.292	D06_056	0.38	30%
D06_057	0.31	D06_057	0.403	30%
D06_058	0.301	D06_058	0.391	30%
D06_059	0.302	D06_059	0.393	30%
D06_060	0.272	D06_060	0.354	30%
D06_061	0.273	D06_061	0.355	30%
D06_062	0.294	D06_062	0.382	30%
D06_063	0.265	D06_063	0.345	30%
D06_064	0.175	D06_064	0.228	30%
D06_065	0.275	D06_065	0.358	30%
D06_066	0.301	D06_066	0.391	30%
D06_067	0.32	D06_067	0.416	30%
D06_068	0.377	D06_068	0.49	30%
D06_101	0.281	D06_101	0.365	30%
D06_114_1	0.262	D06_114_1	0.341	30%
D06_115_1	0.353	D06_115_1	0.459	30%
D06_139	0.301	D06_139	0.391	30%
D07_001	0.393	D07_001	0.511	30%
D07_002	0.38	D07_002	0.494	30%
D07_003	0.299	D07_003	0.389	30%
D07_004	0.34	D07_004	0.442	30%
D07_005	0.363	D07_005	0.472	30%
D07_006	0.384	D07_006	0.499	30%
D07_007	0.297	D07_007	0.386	30%
D07_008	0.238	D07_008	0.309	30%
D07_009	0.234	D07_009	0.304	30%
D07_010	0.335	D07_010	0.436	30%
D07_011	0.376	D07_011	0.489	30%
D07_012	0.367	D07_012	0.477	30%
D07_013	0.358	D07_013	0.465	30%
D07_014	0.326	D07_014	0.424	30%
D07_015	0.29	D07_015	0.377	30%
D07_016	0.375	D07_016	0.488	30%

Original Subcatchment Width Calculated from Subcatchment Area and Length		Final Calibrated Subcatchment Width used in InfoSWMM Model		
Subcatchment ID	Subcatchment Width (ft)	Subcatchment ID	Calibrated Subcatchment Width (ft)	Comparison with Original Subcatchment Width (%)
D06_035	3,633.36	D06_035	2,543.36	-30%
D06_036	1,084.34	D06_036	759.04	-30%
D06_037	1,624.94	D06_037	1,137.46	-30%
D06_038	1,447.72	D06_038	1,013.41	-30%
D06_039	2,243.12	D06_039	1,570.18	-30%
D06_040	3,721.40	D06_040	2,604.98	-30%
D06_041	16,771.06	D06_041	11,739.74	-30%
D06_042	410.31	D06_042	287.22	-30%
D06_043	4,847.66	D06_043	3,393.36	-30%
D06_044	1,436.63	D06_044	1,005.64	-30%
D06_045_01	3,370.52	D06_045_01	2,359.36	-30%
D06_045_02	1,546.13	D06_045_02	1,082.29	-30%
D06_045_03	2,320.31	D06_045_03	1,624.22	-30%
D06_046	821.50	D06_046	575.05	-30%
D06_047	1,206.98	D06_047	844.89	-30%
D06_048	884.02	D06_048	618.82	-30%
D06_049	1,548.31	D06_049	1,083.82	-30%
D06_050	6,377.13	D06_050	4,463.99	-30%
D06_051	11,007.46	D06_051	7,705.22	-30%
D06_052	798.68	D06_052	559.08	-30%
D06_053	5,024.87	D06_053	3,517.41	-30%
D06_054	18,941.09	D06_054	13,258.76	-30%
D06_055	3,028.68	D06_055	2,120.07	-30%
D06_056	3,925.67	D06_056	2,747.97	-30%
D06_057	2,001.66	D06_057	1,401.16	-30%
D06_058	7,705.62	D06_058	5,393.94	-30%
D06_059	3,783.58	D06_059	2,648.51	-30%
D06_060	1,836.74	D06_060	1,285.72	-30%
D06_061	1,364.13	D06_061	954.89	-30%
D06_062	3,741.70	D06_062	2,619.19	-30%
D06_063	3,858.93	D06_063	2,701.25	-30%
D06_064	366.74	D06_064	256.72	-30%
D06_065	3,194.69	D06_065	2,236.29	-30%
D06_066	5,912.33	D06_066	4,138.63	-30%
D06_067	3,344.93	D06_067	2,341.45	-30%
D06_068	12,395.07	D06_068	8,676.55	-30%
D06_101	4,118.36	D06_101	2,882.85	-30%
D06_114_1	725.79	D06_114_1	508.05	-30%
D06_115_1	884.62	D06_115_1	619.23	-30%
D06_139	2,535.79	D06_139	1,775.05	-30%
D07_001	5,215.36	D07_001	3,650.75	-30%
D07_002	10,972.77	D07_002	7,680.94	-30%
D07_003	9,247.66	D07_003	6,473.36	-30%
D07_004	34,981.23	D07_004	24,486.86	-30%
D07_005	17,608.22	D07_005	12,325.75	-30%
D07_006	8,415.08	D07_006	5,890.55	-30%
D07_007	5,179.42	D07_007	3,625.59	-30%
D07_008	1,621.76	D07_008	1,135.23	-30%
D07_009	1,898.64	D07_009	1,329.05	-30%
D07_010	9,418.86	D07_010	6,593.20	-30%
D07_011	17,754.35	D07_011	12,428.04	-30%
D07_012	21,795.42	D07_012	15,256.79	-30%
D07_013	2,094.19	D07_013	1,465.93	-30%
D07_014	11,326.39	D07_014	7,928.47	-30%
D07_015	3,984.04	D07_015	2,788.83	-30%
D07_016	23,165.14	D07_016	16,215.60	-30%

Original Subcatchment Slope Calculated from Longest Flow Paths and TIN		Final Calibrated Subcatchment Slope used in InfoSWMM Model		
Subcatchment ID	Subcatchment Slope (%)	Subcatchment ID	Calibrated Subcatchment Slope (%)	Comparison with Original Subcatchment Slope (%)
D06_035	4.581	D06_035	3.67	-20%
D06_036	4.506	D06_036	3.61	-20%
D06_037	4.172	D06_037	3.34	-20%
D06_038	4.473	D06_038	3.58	-20%
D06_039	5.108	D06_039	4.09	-20%
D06_040	4.322	D06_040	3.46	-20%
D06_041	5.356	D06_041	4.29	-20%
D06_042	3.429	D06_042	2.74	-20%
D06_043	4.743	D06_043	3.79	-20%
D06_044	4.746	D06_044	3.80	-20%
D06_045_01	5.153	D06_045_01	4.12	-20%
D06_045_02	4.692	D06_045_02	3.75	-20%
D06_045_03	4.523	D06_045_03	3.62	-20%
D06_046	4.523	D06_046	3.67	-20%
D06_047	4.737	D06_047	3.79	-20%
D06_048	4.385	D06_048	3.51	-20%
D06_049	5.752	D06_049	4.60	-20%
D06_050	5.291	D06_050	4.23	-20%
D06_051	4.572	D06_051	3.66	-20%
D06_052	4.893	D06_052	3.91	-20%
D06_053	4.907	D06_053	3.93	-20%
D06_054	4.98	D06_054	3.98	-20%
D06_055	3.954	D06_055	3.16	-20%
D06_056	4.569	D06_056	3.66	-20%
D06_057	4.802	D06_057	3.84	-20%
D06_058	4.98	D06_058	3.98	-20%
D06_059	4.636	D06_059	3.71	-20%
D06_060	4.677	D06_060	3.74	-20%
D06_061	5.041	D06_061	4.03	-20%
D06_062	4.631	D06_062	3.71	-20%
D06_063	4.064	D06_063	3.25	-20%
D06_064	3.427	D06_064	2.74	-20%
D06_065	4.325	D06_065	3.46	-20%
D06_066	5.242	D06_066	4.19	-20%
D06_067	5.232	D06_067	4.19	-20%
D06_068	4.445	D06_068	3.56	-20%
D06_101	4.055	D06_101	3.24	-20%
D06_114_1	3.991	D06_114_1	3.19	-20%
D06_115_1	4.01	D06_115_1	3.21	-20%
D06_139	4.738	D06_139	3.79	-20%
D07_001	5.176	D07_001	4.14	-20%
D07_002	5.27	D07_002	4.22	-20%
D07_003	4.81	D07_003	3.85	-20%
D07_004	4.819	D07_004	3.86	-20%
D07_005	5.34	D07_005	4.27	-20%
D07_006	5.234	D07_006	4.19	-20%
D07_007	4.44	D07_007	3.55	-20%
D07_008	4.777	D07_008	3.82	-20%
D07_009	4.39	D07_009	3.51	-20%
D07_010	4.336	D07_010	3.47	-20%
D07_011	4.888	D07_011	3.91	-20%
D07_012	5.254	D07_012	4.20	-20%
D07_013	4.818	D07_013	3.85	-20%
D07_014	4.706	D07_014	3.77	-20%
D07_015	4.485	D07_015	3.59	-20%
D07_016	5.604	D07_016	4.48	-20%

Original Subcatchment Imperviousness Calculated from GIS Intersection		Final Calibrated Subcatchment Imperviousness used in InfoSWMM Model		
Subcatchment ID	Subcatch. Imperviousness (%)	Subcatchment ID	Calibrated Subcatch. Imperviousness (%)	Comparison with Original Subcatch. Imperviousness (%)
D06_035	50.5	D06_035	45.45	-10%
D06_036	73	D06_036	65.70	-10%
D06_037	48.9	D06_037	44.01	-10%
D06_038	57.7	D06_038	51.93	-10%
D06_039	32.3	D06_039	29.07	-10%
D06_040	45.2	D06_040	40.68	-10%
D06_041	26.6	D06_041	23.94	-10%
D06_042	70.5	D06_042	63.45	-10%
D06_043	33.3	D06_043	29.97	-10%
D06_044	76.4	D06_044	68.76	-10%
D06_045_01	51.2	D06_045_01	46.08	-10%
D06_045_02	53.5	D06_045_02	48.15	-10%
D06_045_03	56.2	D06_045_03	50.58	-10%
D06_046	59.5	D06_046	53.55	-10%
D06_047	52.7	D06_047	47.43	-10%
D06_048	61.3	D06_048	55.17	-10%
D06_049	46.3	D06_049	41.67	-10%
D06_050	51.5	D06_050	46.35	-10%
D06_051	45.8	D06_051	41.22	-10%
D06_052	62.8	D06_052	56.52	-10%
D06_053	50.3	D06_053	45.27	-10%
D06_054	23.5	D06_054	21.15	-10%
D06_055	53.1	D06_055	47.79	-10%
D06_056	54.9	D06_056	49.41	-10%
D06_057	48.3	D06_057	43.47	-10%
D06_058	44.9	D06_058	40.41	-10%
D06_059	45	D06_059	40.50	-10%
D06_060	62.6	D06_060	56.34	-10%
D06_061	53.2	D06_061	47.88	-10%
D06_062	52.7	D06_062	47.43	-10%
D06_063	46.6	D06_063	41.94	-10%
D06_064	79.8	D06_064	71.82	-10%
D06_065	54.7	D06_065	49.23	-10%
D06_066	40.2	D06_066	36.18	-10%
D06_067	26.6	D06_067	23.94	-10%
D06_068	26.8	D06_068	24.12	-10%
D06_101	59.3	D06_101	53.37	-10%
D06_114_1	70.6	D06_114_1	63.54	-10%
D06_115_1	59.2	D06_115_1	53.28	-10%
D06_139	60.9	D06_139	54.81	-10%
D07_001	3.7	D07_001	3.33	-10%
D07_00				

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Table 2.2.2
Comparison of Final Calibrated Hydrologic Parameters with Initial Calculated Values

Original Manning's N for Pervious Areas		Final Calibrated Manning's N for Pervious Areas used in InfoSWMM Model		
Subcatchment ID	Manning's N for Pervious Portion	Subcatchment ID	Calibrated Manning's N for Pervious Portion	Comparison with Original Manning's N for Pervious Portion
D07_017	0.193	D07_017	0.251	30%
D07_018	0.183	D07_018	0.238	30%
D07_019	0.384	D07_019	0.499	30%
D07_020	0.386	D07_020	0.502	30%
D07_021	0.246	D07_021	0.32	30%
D07_022	0.342	D07_022	0.445	30%
D07_023	0.39	D07_023	0.507	30%
D07_024	0.376	D07_024	0.489	30%
D07_025	0.243	D07_025	0.316	30%
D07_026	0.337	D07_026	0.438	30%
D07_027	0.394	D07_027	0.512	30%
D07_028	0.251	D07_028	0.326	30%
D07_029	0.356	D07_029	0.463	30%
D07_030	0.273	D07_030	0.355	30%
D07_031	0.289	D07_031	0.376	30%
D07_032	0.294	D07_032	0.382	30%
D07_033	0.311	D07_033	0.404	30%
D07_034	0.299	D07_034	0.389	30%
D07_035	0.289	D07_035	0.376	30%
D07_036	0.268	D07_036	0.348	30%
D07_037	0.4	D07_037	0.52	30%
D07_038	0.391	D07_038	0.508	30%
D07_039	0.374	D07_039	0.486	30%
D07_040	0.322	D07_040	0.419	30%
D07_041	0.397	D07_041	0.516	30%
D07_042	0.358	D07_042	0.465	30%
D07_043	0.18	D07_043	0.234	30%
D07_044	0.214	D07_044	0.278	30%
D07_045	0.274	D07_045	0.356	30%
D07_046	0.322	D07_046	0.419	30%
D07_047	0.267	D07_047	0.347	30%
D07_048	0.325	D07_048	0.423	30%
D07_049	0.245	D07_049	0.319	30%
D07_050	0.26	D07_050	0.338	30%
D07_051	0.26	D07_051	0.338	30%
D07_052	0.293	D07_052	0.381	30%
D07_053	0.38	D07_053	0.494	30%
D07_054	0.345	D07_054	0.449	30%
D07_055	0.324	D07_055	0.421	30%
D07_056	0.314	D07_056	0.408	30%
D07_057	0.262	D07_057	0.341	30%
D07_058	0.26	D07_058	0.338	30%
D07_059	0.258	D07_059	0.335	30%
D07_060	0.275	D07_060	0.358	30%
D08_001	0.231	D08_001	0.3	30%
D08_002	0.257	D08_002	0.334	30%
D08_003	0.283	D08_003	0.368	30%
D08_004	0.245	D08_004	0.319	30%
D08_005	0.206	D08_005	0.268	30%
D08_006	0.331	D08_006	0.43	30%
D08_007	0.261	D08_007	0.339	30%
D08_008	0.243	D08_008	0.316	30%
D08_009	0.269	D08_009	0.35	30%
D08_010	0.221	D08_010	0.287	30%
D08_011	0.304	D08_011	0.395	30%
D08_012	0.2	D08_012	0.26	30%

Original Subcatchment Width Calculated from Subcatchment Area and Length		Final Calibrated Subcatchment Width used in InfoSWMM Model		
Subcatchment ID	Subcatchment Width (ft)	Subcatchment ID	Calibrated Subcatchment Width (ft)	Comparison with Original Subcatchment Width (%)
D07_017	902.04	D07_017	631.43	-30%
D07_018	1,022.72	D07_018	715.91	-30%
D07_019	2,617.66	D07_019	1,832.36	-30%
D07_020	1,768.20	D07_020	1,237.74	-30%
D07_021	631.95	D07_021	442.36	-30%
D07_022	2,533.71	D07_022	1,773.60	-30%
D07_023	5,525.46	D07_023	3,867.82	-30%
D07_024	14,067.58	D07_024	9,847.31	-30%
D07_025	486.08	D07_025	340.26	-30%
D07_026	366.01	D07_026	256.21	-30%
D07_027	4,124.42	D07_027	2,887.09	-30%
D07_028	648.83	D07_028	454.18	-30%
D07_029	436.85	D07_029	305.79	-30%
D07_030	4,052.03	D07_030	2,836.42	-30%
D07_031	1,621.50	D07_031	1,135.05	-30%
D07_032	3,766.77	D07_032	2,636.74	-30%
D07_033	703.83	D07_033	492.68	-30%
D07_034	1,062.31	D07_034	743.62	-30%
D07_035	852.18	D07_035	596.52	-30%
D07_036	6,505.11	D07_036	4,553.58	-30%
D07_037	7,642.27	D07_037	5,349.59	-30%
D07_038	42,251.71	D07_038	29,576.20	-30%
D07_039	11,004.63	D07_039	7,703.24	-30%
D07_040	10,434.02	D07_040	7,303.81	-30%
D07_041	3,881.37	D07_041	2,716.96	-30%
D07_042	5,822.91	D07_042	4,076.04	-30%
D07_043	5,959.97	D07_043	4,171.98	-30%
D07_044	1,534.16	D07_044	1,073.91	-30%
D07_045	317.96	D07_045	222.57	-30%
D07_046	592.70	D07_046	414.89	-30%
D07_047	2,267.89	D07_047	1,587.52	-30%
D07_048	1,133.51	D07_048	793.46	-30%
D07_049	2,037.29	D07_049	1,426.10	-30%
D07_050	909.61	D07_050	636.73	-30%
D07_051	4,914.96	D07_051	3,440.47	-30%
D07_052	4,198.02	D07_052	2,938.62	-30%
D07_053	1,104.27	D07_053	772.99	-30%
D07_054	3,694.77	D07_054	2,586.34	-30%
D07_055	1,467.92	D07_055	1,027.54	-30%
D07_056	2,437.08	D07_056	1,705.96	-30%
D07_057	4,622.10	D07_057	3,235.47	-30%
D07_058	1,170.08	D07_058	819.06	-30%
D07_059	2,820.62	D07_059	1,974.43	-30%
D07_060	1,747.67	D07_060	1,223.37	-30%
D08_001	6,520.32	D08_001	4,564.22	-30%
D08_002	2,412.41	D08_002	1,688.69	-30%
D08_003	922.34	D08_003	645.64	-30%
D08_004	868.64	D08_004	608.05	-30%
D08_005	1,663.85	D08_005	1,164.70	-30%
D08_006	1,683.08	D08_006	1,178.15	-30%
D08_007	1,778.44	D08_007	1,244.91	-30%
D08_008	2,469.63	D08_008	1,728.74	-30%
D08_009	1,240.61	D08_009	868.43	-30%
D08_010	377.15	D08_010	264.01	-30%
D08_011	681.23	D08_011	476.86	-30%
D08_012	771.58	D08_012	540.11	-30%

Original Subcatchment Slope Calculated from Longest Flow Paths and TIN		Final Calibrated Subcatchment Slope used in InfoSWMM Model		
Subcatchment ID	Subcatchment Slope (%)	Subcatchment ID	Calibrated Subcatchment Slope (%)	Comparison with Original Subcatchment Slope (%)
D07_017	4.023	D07_017	3.22	-20%
D07_018	4.257	D07_018	3.41	-20%
D07_019	5.191	D07_019	4.15	-20%
D07_020	5.403	D07_020	4.32	-20%
D07_021	4.279	D07_021	3.42	-20%
D07_022	4.888	D07_022	3.91	-20%
D07_023	5.582	D07_023	4.47	-20%
D07_024	4.965	D07_024	3.97	-20%
D07_025	2.618	D07_025	2.09	-20%
D07_026	2.812	D07_026	2.25	-20%
D07_027	4.837	D07_027	3.87	-20%
D07_028	2.683	D07_028	2.15	-20%
D07_029	3.452	D07_029	2.76	-20%
D07_030	4.697	D07_030	3.76	-20%
D07_031	4.191	D07_031	3.35	-20%
D07_032	4.745	D07_032	3.80	-20%
D07_033	3.778	D07_033	3.02	-20%
D07_034	4.19	D07_034	3.35	-20%
D07_035	4.524	D07_035	3.62	-20%
D07_036	4.655	D07_036	3.72	-20%
D07_037	5.112	D07_037	4.09	-20%
D07_038	5.641	D07_038	4.51	-20%
D07_039	5.444	D07_039	4.36	-20%
D07_040	5.199	D07_040	4.16	-20%
D07_041	5.284	D07_041	4.23	-20%
D07_042	5.238	D07_042	4.19	-20%
D07_043	3.545	D07_043	2.84	-20%
D07_044	3.874	D07_044	3.10	-20%
D07_045	3.896	D07_045	3.12	-20%
D07_046	4.086	D07_046	3.27	-20%
D07_047	3.672	D07_047	2.94	-20%
D07_048	5.153	D07_048	4.12	-20%
D07_049	4.685	D07_049	3.75	-20%
D07_050	3.584	D07_050	2.87	-20%
D07_051	4.846	D07_051	3.88	-20%
D07_052	4.331	D07_052	3.47	-20%
D07_053	4.734	D07_053	3.79	-20%
D07_054	4.424	D07_054	3.54	-20%
D07_055	4.523	D07_055	3.62	-20%
D07_056	4.443	D07_056	3.55	-20%
D07_057	4.642	D07_057	3.71	-20%
D07_058	4.342	D07_058	3.47	-20%
D07_059	4.634	D07_059	3.71	-20%
D07_060	5.172	D07_060	4.14	-20%
D08_001	4.13	D08_001	3.30	-20%
D08_002	4.366	D08_002	3.49	-20%
D08_003	4.061	D08_003	3.25	-20%
D08_004	4.822	D08_004	3.86	-20%
D08_005	4.721	D08_005	3.78	-20%
D08_006	4.573	D08_006	3.66	-20%
D08_007	4.56	D08_007	3.65	-20%
D08_008	4.797	D08_008	3.84	-20%
D08_009	5.117	D08_009	4.09	-20%
D08_010	4.774	D08_010	3.82	-20%
D08_011	5	D08_011	4.00	-20%
D08_012	3.251	D08_012	2.60	-20%

Original Subcatchment Imperviousness Calculated from GIS Intersection		Final Calibrated Subcatchment Imperviousness used in InfoSWMM Model		
Subcatchment ID	Subcatch. Imperviousness (%)	Subcatchment ID	Calibrated Subcatch. Imperviousness (%)	Comparison with Original Subcatch. Imperviousness (%)
D07_017	33.7	D07_017	30.33	-10%
D07_018	77.3	D07_018	69.57	-10%
D07_019	19	D07_019	17.10	-10%
D07_020	11.5	D07_020	10.35	-10%
D07_021	55.5	D07_021	49.95	-10%
D07_022	35.6	D07_022	32.04	-10%
D07_023	9.3	D07_023	8.37	-10%
D07_024	11.8	D07_024	10.62	-10%
D07_025	97.4	D07_025	87.66	-10%
D07_026	94.2	D07_026	84.78	-10%
D07_027	22.8	D07_027	20.52	-10%
D07_028	92.1	D07_028	82.89	-10%
D07_029	95	D07_029	85.50	-10%
D07_030	78.3	D07_030	70.47	-10%
D07_031	61	D07_031	54.90	-10%
D07_032	56.7	D07_032	51.03	-10%
D07_033	48.9	D07_033	44.01	-10%
D07_034	55.2	D07_034	49.68	-10%
D07_035	39	D07_035	35.10	-10%
D07_036	38.8	D07_036	34.92	-10%
D07_037	4.6	D07_037	4.14	-10%
D07_038	2.7	D07_038	2.43	-10%
D07_039	10.8	D07_039	9.72	-10%
D07_040	33.9	D07_040	30.51	-10%
D07_041	1.7	D07_041	1.53	-10%
D07_042	14.3	D07_042	12.87	-10%
D07_043	67.2	D07_043	60.48	-10%
D07_044	40.6	D07_044	36.54	-10%
D07_045	98.8	D07_045	88.92	-10%
D07_046	64.8	D07_046	58.32	-10%
D07_047	56.4	D07_047	50.76	-10%
D07_048	14	D07_048	12.60	-10%
D07_049	74.9	D07_049	67.41	-10%
D07_050	30.2	D07_050	27.18	-10%
D07_051	38.5	D07_051	34.65	-10%
D07_052	56.8	D07_052	51.12	-10%
D07_053	38	D07_053	34.20	-10%
D07_054	38.8	D07_054	34.92	-10%
D07_055	51.4	D07_055	46.26	-10%
D07_056	56.8	D07_056	51.12	-10%
D07_057	45.4	D07_057	40.86	-10%
D07_058	52.8	D07_058	47.52	-10%
D07_059	51.4	D07_059	46.26	-10%
D07_060	54.3	D07_060	48.87	-10%
D08_001	46.1	D08_001</		

New Allen Basin Study
Table 2.2.2
Comparison of Final Calibrated Hydrologic Parameters with Initial Calculated Values

Original Manning's N for Pervious Areas		Final Calibrated Manning's N for Pervious Areas used in InfoSWMM Model		
Subcatchment ID	Manning's N for Pervious Portion	Subcatchment ID	Calibrated Manning's N for Pervious Portion	Comparison with Original Manning's N for Pervious Portion
D08_013	0.256	D08_013	0.333	30%
D08_014	0.231	D08_014	0.3	30%
D08_015	0.235	D08_015	0.306	30%
D08_016	0.275	D08_016	0.358	30%
D09_001	0.192	D09_001	0.25	30%
D09_002	0.351	D09_002	0.456	30%
D09_003	0.2	D09_003	0.26	30%
D09_004	0.198	D09_004	0.257	30%
D09_005	0.229	D09_005	0.298	30%
D09_006	0.184	D09_006	0.239	30%
D09_007	0.198	D09_007	0.257	30%
D10_001	0.153	D10_001	0.199	30%
D10_002	0.151	D10_002	0.196	30%
D10_003	0.179	D10_003	0.233	30%
D10_004	0.319	D10_004	0.415	30%
D10_005	0.208	D10_005	0.27	30%
D10_006	0.339	D10_006	0.441	30%
D10_007	0.224	D10_007	0.291	30%
D10_008	0.202	D10_008	0.263	30%
D10_009	0.234	D10_009	0.304	30%
D10_010	0.326	D10_010	0.424	30%
D10_011	0.264	D10_011	0.343	30%
D10_012	0.213	D10_012	0.277	30%
D10_013	0.265	D10_013	0.345	30%
D10_014	0.216	D10_014	0.281	30%
D10_015	0.23	D10_015	0.299	30%
D10_016	0.191	D10_016	0.248	30%
D10_017	0.252	D10_017	0.328	30%
D10_018	0.239	D10_018	0.311	30%
D10_019	0.231	D10_019	0.3	30%
D10_020	0.225	D10_020	0.293	30%
D10_021	0.34	D10_021	0.442	30%
D11_001	0.197	D11_001	0.256	30%
D11_002	0.191	D11_002	0.248	30%
D11_003	0.26	D11_003	0.338	30%
D11_004	0.301	D11_004	0.391	30%
D11_005	0.263	D11_005	0.342	30%
D11_006	0.15	D11_006	0.195	30%
D11_007	0.15	D11_007	0.195	30%
D11_008	0.155	D11_008	0.202	30%
D11_009	0.15	D11_009	0.195	30%
D11_010	0.15	D11_010	0.195	30%
D11_011	0.15	D11_011	0.195	30%
D11_012	0.228	D11_012	0.296	30%
D11_013	0.295	D11_013	0.384	30%
D11_014	0.318	D11_014	0.413	30%
D11_015	0.331	D11_015	0.43	30%
D11_016	0.265	D11_016	0.345	30%
D11_017	0.151	D11_017	0.196	30%
D11_018	0.198	D11_018	0.257	30%
D11_019	0.152	D11_019	0.198	30%
D11_020	0.15	D11_020	0.195	30%
D11_021	0.155	D11_021	0.202	30%
D11_022	0.184	D11_022	0.239	30%
D11_023	0.235	D11_023	0.306	30%
D11_024	0.337	D11_024	0.438	30%

Original Subcatchment Width Calculated from Subcatchment Area and Length		Final Calibrated Subcatchment Width used in InfoSWMM Model		
Subcatchment ID	Subcatchment Width (ft)	Subcatchment ID	Calibrated Subcatchment Width (ft)	Comparison with Original Subcatchment Width (%)
D08_013	1,380.56	D08_013	966.39	-30%
D08_014	172.35	D08_014	120.64	-30%
D08_015	554.76	D08_015	388.33	-30%
D08_016	2,597.27	D08_016	1,818.09	-30%
D09_001	1,435.73	D09_001	1,005.01	-30%
D09_002	24,804.80	D09_002	17,363.36	-30%
D09_003	925.20	D09_003	647.64	-30%
D09_004	572.88	D09_004	401.01	-30%
D09_005	1,255.65	D09_005	878.95	-30%
D09_006	2,734.97	D09_006	1,914.48	-30%
D09_007	406.96	D09_007	284.88	-30%
D10_001	1,538.26	D10_001	1,076.78	-30%
D10_002	2,097.86	D10_002	1,468.50	-30%
D10_003	9,905.30	D10_003	6,933.71	-30%
D10_004	1,613.25	D10_004	1,129.28	-30%
D10_005	2,079.04	D10_005	1,455.33	-30%
D10_006	2,917.05	D10_006	2,041.93	-30%
D10_007	4,003.30	D10_007	2,802.31	-30%
D10_008	817.82	D10_008	572.48	-30%
D10_009	1,548.89	D10_009	1,084.22	-30%
D10_010	2,853.64	D10_010	1,997.55	-30%
D10_011	3,037.80	D10_011	2,126.46	-30%
D10_012	1,565.33	D10_012	1,095.73	-30%
D10_013	2,053.43	D10_013	1,437.40	-30%
D10_014	735.86	D10_014	515.10	-30%
D10_015	1,096.47	D10_015	767.53	-30%
D10_016	2,068.61	D10_016	1,448.03	-30%
D10_017	1,399.45	D10_017	979.62	-30%
D10_018	3,108.49	D10_018	2,175.94	-30%
D10_019	1,664.40	D10_019	1,165.08	-30%
D10_020	2,052.46	D10_020	1,436.72	-30%
D10_021	28,813.25	D10_021	20,169.28	-30%
D11_001	2,333.39	D11_001	1,633.37	-30%
D11_002	1,993.93	D11_002	1,395.75	-30%
D11_003	2,162.78	D11_003	1,513.95	-30%
D11_004	967.11	D11_004	676.98	-30%
D11_005	43,557.90	D11_005	30,490.53	-30%
D11_006	301.57	D11_006	211.10	-30%
D11_007	390.09	D11_007	273.06	-30%
D11_008	4,901.18	D11_008	3,430.83	-30%
D11_009	361.49	D11_009	253.05	-30%
D11_010	519.96	D11_010	363.97	-30%
D11_011	307.21	D11_011	215.05	-30%
D11_012	585.88	D11_012	410.11	-30%
D11_013	1,213.73	D11_013	849.61	-30%
D11_014	1,178.77	D11_014	825.14	-30%
D11_015	5,380.84	D11_015	3,766.59	-30%
D11_016	2,613.67	D11_016	1,829.57	-30%
D11_017	700.29	D11_017	490.20	-30%
D11_018	1,832.21	D11_018	1,282.55	-30%
D11_019	1,808.66	D11_019	1,266.06	-30%
D11_020	464.47	D11_020	325.13	-30%
D11_021	1,118.01	D11_021	782.60	-30%
D11_022	504.04	D11_022	352.83	-30%
D11_023	5,036.74	D11_023	3,525.72	-30%
D11_024	500.87	D11_024	350.61	-30%

Original Subcatchment Slope Calculated from Longest Flow Paths and TIN		Final Calibrated Subcatchment Slope used in InfoSWMM Model		
Subcatchment ID	Subcatchment Slope (%)	Subcatchment ID	Calibrated Subcatchment Slope (%)	Comparison with Original Subcatchment Slope (%)
D08_013	3.365	D08_013	2.69	-20%
D08_014	3.249	D08_014	2.60	-20%
D08_015	3.233	D08_015	2.59	-20%
D08_016	4.528	D08_016	3.62	-20%
D09_001	4.531	D09_001	3.63	-20%
D09_002	5.329	D09_002	4.26	-20%
D09_003	5.466	D09_003	4.37	-20%
D09_004	4.91	D09_004	3.93	-20%
D09_005	5.083	D09_005	4.07	-20%
D09_006	5.456	D09_006	4.37	-20%
D09_007	4.301	D09_007	3.44	-20%
D10_001	3.76	D10_001	3.01	-20%
D10_002	3.78	D10_002	3.02	-20%
D10_003	3.781	D10_003	3.03	-20%
D10_004	4.912	D10_004	3.93	-20%
D10_005	4.069	D10_005	3.26	-20%
D10_006	4.812	D10_006	3.85	-20%
D10_007	4.327	D10_007	3.46	-20%
D10_008	4.404	D10_008	3.52	-20%
D10_009	4.648	D10_009	3.72	-20%
D10_010	4.632	D10_010	3.71	-20%
D10_011	4.424	D10_011	3.54	-20%
D10_012	4.576	D10_012	3.66	-20%
D10_013	3.837	D10_013	3.07	-20%
D10_014	4.49	D10_014	3.59	-20%
D10_015	4.296	D10_015	3.44	-20%
D10_016	4.559	D10_016	3.65	-20%
D10_017	4.707	D10_017	3.77	-20%
D10_018	4.936	D10_018	3.95	-20%
D10_019	4.389	D10_019	3.51	-20%
D10_020	3.713	D10_020	2.97	-20%
D10_021	5.18	D10_021	4.14	-20%
D11_001	4.791	D11_001	3.83	-20%
D11_002	3.963	D11_002	3.17	-20%
D11_003	3.906	D11_003	3.13	-20%
D11_004	4.887	D11_004	3.91	-20%
D11_005	4.587	D11_005	3.67	-20%
D11_006	3.535	D11_006	2.83	-20%
D11_007	3.458	D11_007	2.77	-20%
D11_008	0.902	D11_008	0.72	-20%
D11_009	2.913	D11_009	2.33	-20%
D11_010	3.153	D11_010	2.52	-20%
D11_011	3.102	D11_011	2.48	-20%
D11_012	3.205	D11_012	2.56	-20%
D11_013	3.376	D11_013	2.70	-20%
D11_014	3.061	D11_014	2.45	-20%
D11_015	3.113	D11_015	2.49	-20%
D11_016	3.161	D11_016	2.53	-20%
D11_017	4.533	D11_017	3.63	-20%
D11_018	5.191	D11_018	4.15	-20%
D11_019	3.913	D11_019	3.13	-20%
D11_020	4.877	D11_020	3.90	-20%
D11_021	3.803	D11_021	3.04	-20%
D11_022	3.901	D11_022	3.12	-20%
D11_023	4.53	D11_023	3.62	-20%
D11_024	4.204	D11_024	3.36	-20%

Original Subcatchment Imperviousness Calculated from GIS Intersection		Final Calibrated Subcatchment Imperviousness used in InfoSWMM Model		
Subcatchment ID	Subcatch. Imperviousness (%)	Subcatchment ID	Calibrated Subcatch. Imperviousness (%)	Comparison with Original Subcatch. Imperviousness (%)
D08_013	53.6	D08_013	48.24	-10%
D08_014	53.9	D08_014	48.51	-10%
D08_015	47.1	D08_015	42.39	-10%
D08_016	19.2	D08_016	17.28	-10%
D09_001	55.9	D09_001	50.31	-10%
D09_002	10.4	D09_002	9.36	-10%
D09_003	27.3	D09_003	24.57	-10%
D09_004	43.7	D09_004	39.33	-10%
D09_005	43	D09_005	38.70	-10%
D09_006	22	D09_006	19.80	-10%
D09_007	57.8	D09_007	52.02	-10%
D10_001	20.7	D10_001	18.63	-10%
D10_002	26.4	D10_002	23.76	-10%
D10_003	34.3	D10_003	30.87	-10%
D10_004	14.9	D10_004	13.41	-10%
D10_005	36.4	D10_005	32.76	-10%
D10_006	39.6	D10_006	35.64	-10%
D10_007	37.8	D10_007	34.02	-10%
D10_008	30.4	D10_008	27.36	-10%
D10_009	38.2	D10_009	34.38	-10%
D10_010	14	D10_010	12.60	-10%
D10_011	39.3	D10_011	35.37	-10%
D10_012	45.9	D10_012	41.31	-10%
D10_013	39.7	D10_013	35.73	-10%
D10_014	46.8	D10_014	42.12	-10%
D10_015	44.2	D10_015	39.78	-10%
D10_016	52.6	D10_016	47.34	-10%
D10_017	38.4	D10_017	34.56	-10%
D10_018	36.2	D10_018	32.58	-10%
D10_019	37.7	D10_019	33.93	-10%
D10_020	48.9	D10_020	44.01	-10%
D10_021	1.8	D10_021	1.62	-10%
D11_001	29.1	D11_001	26.19	-10%
D11_002	24.1	D11_002	21.69	-10%
D11_003	29.8	D11_003	26.82	-10%
D11_004	18.9	D11_004	17.01	-10%
D11_005	15.6	D11_005	14.04	-10%
D11_006	54.4	D11_006	48.96	-10%
D11_007	27.9	D11_007	25.11	-10%
D11_008	99.5	D11_008	89.55	-10%
D11_009	95.1	D11_009	85.59	-10%
D11_010	94.6	D11_010	85.14	-10%
D11_011	94.5	D11_011	85.05	-10%
D11_012	89	D11_012	80.10	-10%
D11_013	87	D11_013		

New Allen Basin Study
Table 2.2.2
Comparison of Final Calibrated Hydrologic Parameters with Initial Calculated Values

Original Manning's N for Pervious Areas		Final Calibrated Manning's N for Pervious Areas used in InfoSWMM Model		
Subcatchment ID	Manning's N for Pervious Portion	Subcatchment ID	Calibrated Manning's N for Pervious Portion	Comparison with Original Manning's N for Pervious Portion
D11_025	0.157	D11_025	0.204	30%
D11_025_1	0.154	D11_025_1	0.2	30%
D11_025_2	0.252	D11_025_2	0.328	30%
D11_026	0.151	D11_026	0.196	30%
D11_027	0.152	D11_027	0.198	30%
D11_028	0.157	D11_028	0.204	30%
D11_029	0.151	D11_029	0.196	30%
D11_030	0.161	D11_030	0.209	30%
D11_031	0.161	D11_031	0.209	30%
D11_032	0.15	D11_032	0.195	30%
D11_033	0.15	D11_033	0.195	30%
D11_034	0.15	D11_034	0.195	30%
D11_035	0.151	D11_035	0.196	30%
D11_036	0.15	D11_036	0.195	30%
D11_037	0.15	D11_037	0.195	30%
D11_038	0.155	D11_038	0.202	30%
D11_039	0.15	D11_039	0.195	30%
D11_040	0.15	D11_040	0.195	30%
D11_041	0.15	D11_041	0.195	30%
D12_001	0.15	D12_001	0.195	30%
D12_002	0.15	D12_002	0.195	30%
D12_003	0.15	D12_003	0.195	30%
D12_004	0.151	D12_004	0.196	30%
D12_005	0.15	D12_005	0.195	30%
D12_006	0.152	D12_006	0.198	30%
D12_007	0.15	D12_007	0.195	30%
D12_008	0.155	D12_008	0.202	30%
D12_009	0.153	D12_009	0.199	30%
D12_010	0.15	D12_010	0.195	30%
D12_011	0.199	D12_011	0.259	30%
D12_012	0.216	D12_012	0.281	30%
D12_013	0.235	D12_013	0.306	30%
D12_014	0.235	D12_014	0.306	30%
D12_015	0.165	D12_015	0.215	30%
D12_016	0.157	D12_016	0.204	30%
D12_017	0.151	D12_017	0.196	30%
D12_018	0.15	D12_018	0.195	30%
D12_019	0.178	D12_019	0.231	30%

Original Subcatchment Width Calculated from Subcatchment Area and Length		Final Calibrated Subcatchment Width used in InfoSWMM Model		
Subcatchment ID	Subcatchment Width (ft)	Subcatchment ID	Calibrated Subcatchment Width (ft)	Comparison with Original Subcatchment Width (%)
D11_025	2,842.25	D11_025	1,989.58	-30%
D11_025_1	1,689.22	D11_025_1	1,182.45	-30%
D11_025_2	133.22	D11_025_2	93.25	-30%
D11_026	3,634.35	D11_026	2,544.05	-30%
D11_027	1,232.55	D11_027	862.78	-30%
D11_028	426.11	D11_028	298.28	-30%
D11_029	1,091.14	D11_029	763.80	-30%
D11_030	956.94	D11_030	669.86	-30%
D11_031	11,800.88	D11_031	8,260.61	-30%
D11_032	502.74	D11_032	351.92	-30%
D11_033	418.19	D11_033	292.73	-30%
D11_034	351.27	D11_034	245.89	-30%
D11_035	512.42	D11_035	358.69	-30%
D11_036	489.10	D11_036	342.37	-30%
D11_037	481.03	D11_037	336.72	-30%
D11_038	229.44	D11_038	160.61	-30%
D11_039	579.99	D11_039	406.00	-30%
D11_040	1,376.06	D11_040	963.24	-30%
D11_041	193.60	D11_041	135.52	-30%
D12_001	973.22	D12_001	681.26	-30%
D12_002	333.70	D12_002	233.59	-30%
D12_003	562.01	D12_003	393.41	-30%
D12_004	629.48	D12_004	440.64	-30%
D12_005	325.43	D12_005	227.80	-30%
D12_006	232.43	D12_006	162.70	-30%
D12_007	807.45	D12_007	565.21	-30%
D12_008	501.73	D12_008	351.21	-30%
D12_009	3,684.97	D12_009	2,579.48	-30%
D12_010	277.47	D12_010	194.23	-30%
D12_011	2,836.88	D12_011	1,985.82	-30%
D12_012	7,801.63	D12_012	5,461.14	-30%
D12_013	779.68	D12_013	545.78	-30%
D12_014	832.87	D12_014	583.01	-30%
D12_015	706.11	D12_015	494.28	-30%
D12_016	646.77	D12_016	452.74	-30%
D12_017	323.10	D12_017	226.17	-30%
D12_018	528.59	D12_018	370.01	-30%
D12_019	1,418.17	D12_019	992.72	-30%

Original Subcatchment Slope Calculated from Longest Flow Paths and TIN		Final Calibrated Subcatchment Slope used in InfoSWMM Model		
Subcatchment ID	Subcatchment Slope (%)	Subcatchment ID	Calibrated Subcatchment Slope (%)	Comparison with Original Subcatchment Slope (%)
D11_025	3.77	D11_025	3.02	-20%
D11_025_1	4.52	D11_025_1	3.62	-20%
D11_025_2	4.95	D11_025_2	3.96	-20%
D11_026	3.562	D11_026	2.85	-20%
D11_027	2.946	D11_027	2.36	-20%
D11_028	3.239	D11_028	2.59	-20%
D11_029	3.714	D11_029	2.97	-20%
D11_030	4.317	D11_030	3.45	-20%
D11_031	0.511	D11_031	0.41	-20%
D11_032	4.868	D11_032	3.89	-20%
D11_033	3.792	D11_033	3.03	-20%
D11_034	3.8	D11_034	3.04	-20%
D11_035	3.89	D11_035	3.11	-20%
D11_036	4.06	D11_036	3.25	-20%
D11_037	2.977	D11_037	2.38	-20%
D11_038	3.45	D11_038	2.76	-20%
D11_039	1.87	D11_039	1.50	-20%
D11_040	3.175	D11_040	2.54	-20%
D11_041	2.681	D11_041	2.15	-20%
D12_001	1.986	D12_001	1.59	-20%
D12_002	2.711	D12_002	2.17	-20%
D12_003	2.624	D12_003	2.10	-20%
D12_004	2.562	D12_004	2.05	-20%
D12_005	2.404	D12_005	1.92	-20%
D12_006	3.998	D12_006	3.20	-20%
D12_007	2.733	D12_007	2.19	-20%
D12_008	3.941	D12_008	3.15	-20%
D12_009	0.551	D12_009	0.44	-20%
D12_010	3.316	D12_010	2.65	-20%
D12_011	3.023	D12_011	2.42	-20%
D12_012	0.573	D12_012	0.46	-20%
D12_013	2.263	D12_013	1.81	-20%
D12_014	4.086	D12_014	3.27	-20%
D12_015	4.643	D12_015	3.71	-20%
D12_016	2.697	D12_016	2.16	-20%
D12_017	3.641	D12_017	2.91	-20%
D12_018	4.061	D12_018	3.25	-20%
D12_019	4.847	D12_019	3.88	-20%

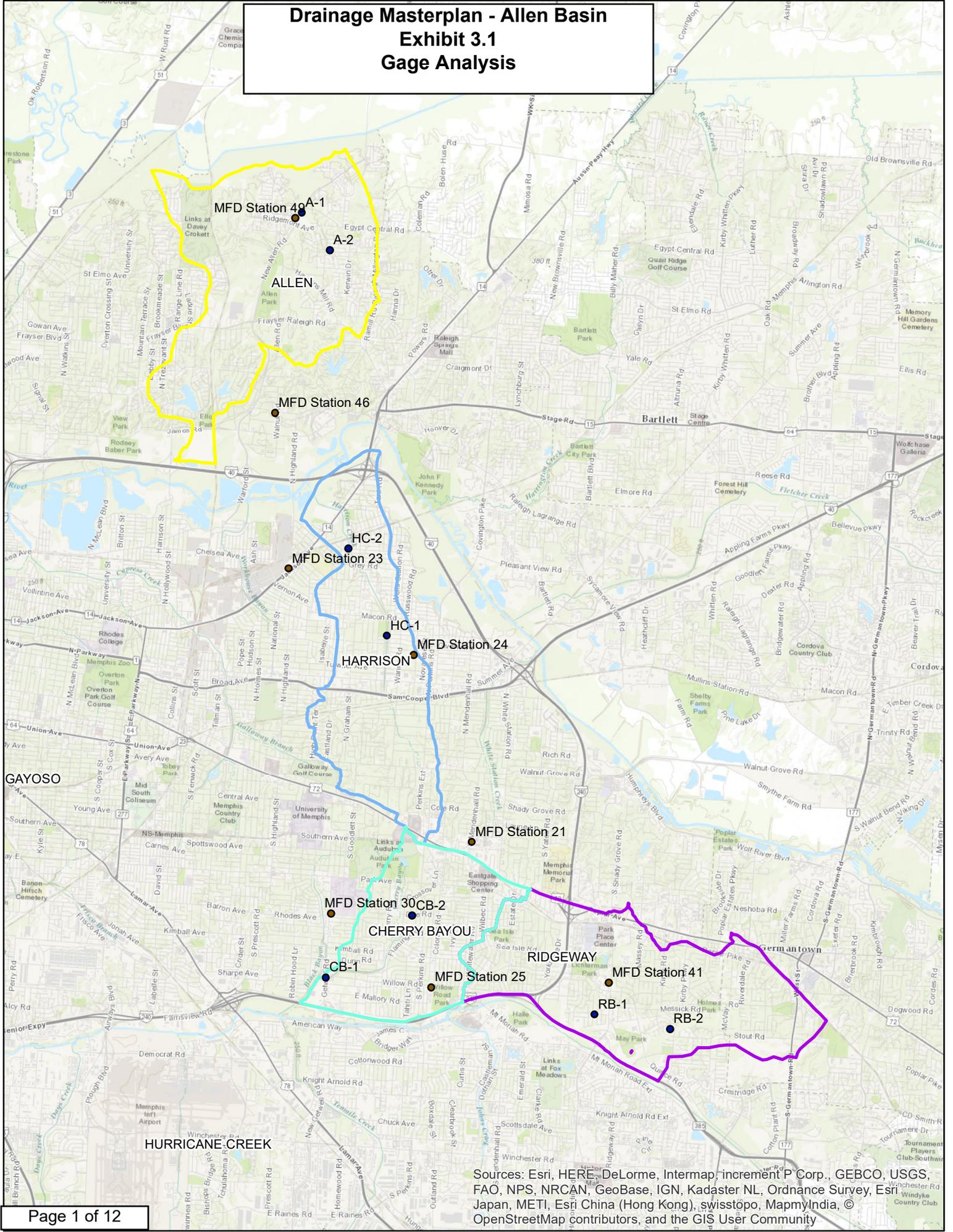
Original Subcatchment Imperviousness Calculated from GIS Intersection		Final Calibrated Subcatchment Imperviousness used in InfoSWMM Model		
Subcatchment ID	Subcatch. Imperviousness (%)	Subcatchment ID	Calibrated Subcatch. Imperviousness (%)	Comparison with Original Subcatch. Imperviousness (%)
D11_025	20.7	D11_025	18.63	-10%
D11_025_1	8.9	D11_025_1	8.01	-10%
D11_025_2	10.8	D11_025_2	9.72	-10%
D11_026	24.2	D11_026	21.78	-10%
D11_027	63.3	D11_027	56.97	-10%
D11_028	66.7	D11_028	60.03	-10%
D11_029	32.4	D11_029	29.16	-10%
D11_030	71.8	D11_030	64.62	-10%
D11_031	98.1	D11_031	88.29	-10%
D11_032	80.6	D11_032	72.54	-10%
D11_033	72.5	D11_033	65.25	-10%
D11_034	86.8	D11_034	78.12	-10%
D11_035	68.3	D11_035	61.47	-10%
D11_036	70.2	D11_036	63.18	-10%
D11_037	67.2	D11_037	60.48	-10%
D11_038	66.5	D11_038	59.85	-10%
D11_039	85.2	D11_039	76.68	-10%
D11_040	67.5	D11_040	60.75	-10%
D11_041	97.7	D11_041	87.93	-10%
D12_001	9.4	D12_001	8.46	-10%
D12_002	88.5	D12_002	79.65	-10%
D12_003	90.4	D12_003	81.36	-10%
D12_004	93.2	D12_004	83.88	-10%
D12_005	94.2	D12_005	84.78	-10%
D12_006	52	D12_006	46.80	-10%
D12_007	57.3	D12_007	51.57	-10%
D12_008	61.8	D12_008	55.62	-10%
D12_009	92.3	D12_009	83.07	-10%
D12_010	88.4	D12_010	79.56	-10%
D12_011	75	D12_011	67.50	-10%
D12_012	96	D12_012	86.40	-10%
D12_013	96.2	D12_013	86.58	-10%
D12_014	78.5	D12_014	70.65	-10%
D12_015	39.4	D12_015	35.46	-10%
D12_016	22.2	D12_016	19.98	-10%
D12_017	0	D12_017	0.00	0%
D12_018	58.5	D12_018	52.65	-10%
D12_019	28.3	D12_019	25.47	-10%

SECTION 3 - MODEL CALIBRATION AND VERIFICATION

Drainage Masterplan - Allen Basin

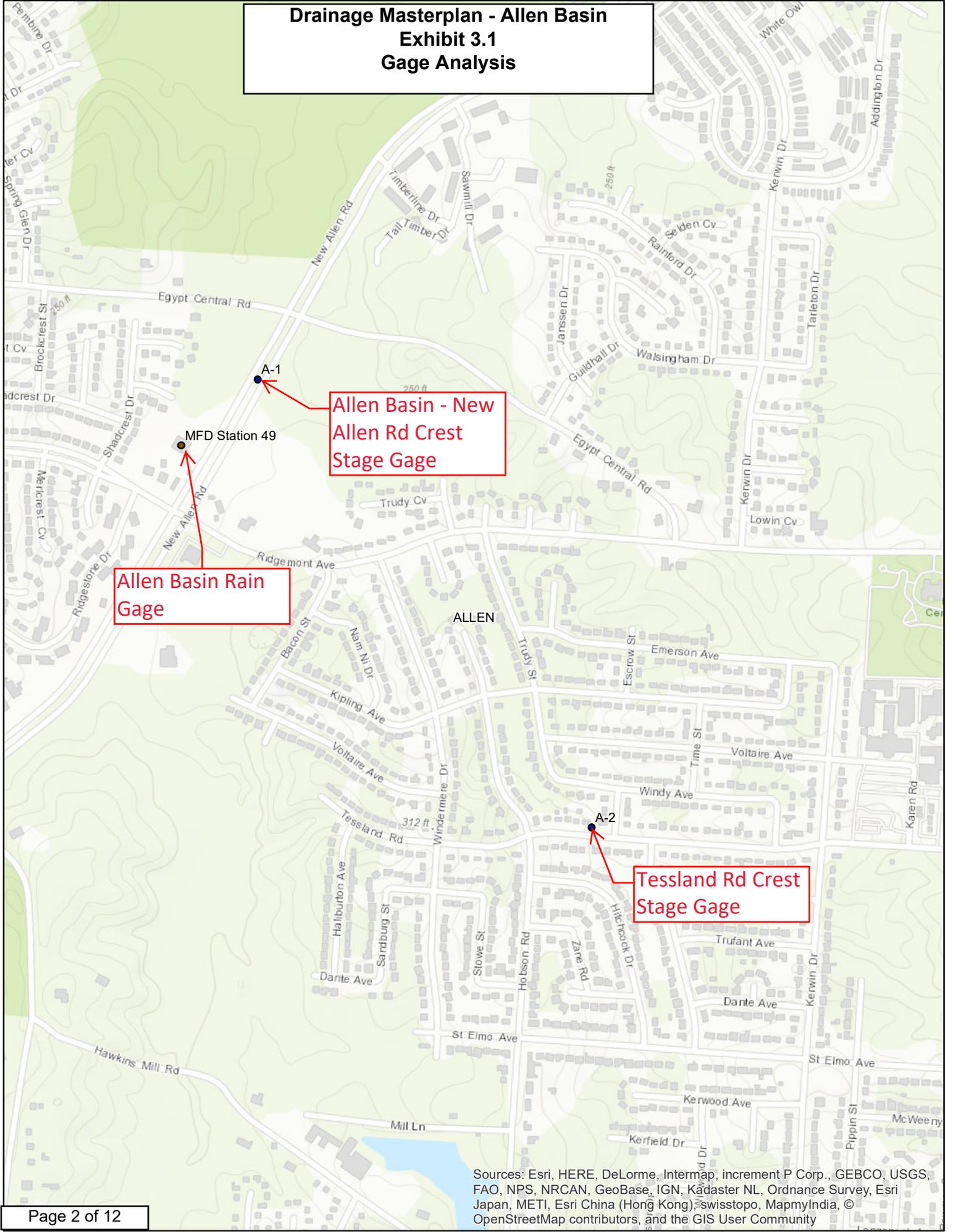
Exhibit 3.1

Gage Analysis



Sources: Esri, HERE, DeLorme, Intermop, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), swisstopo, MapmyIndia, © OpenStreetMap contributors, and the GIS User Community

Drainage Masterplan - Allen Basin
Exhibit 3.1
Gage Analysis



Sources: Esri, HERE, DeLorme, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), swisstopo, MapmyIndia, © OpenStreetMap contributors, and the GIS User Community

**Drainage Masterplan - Allen Basin
Exhibit 3.1
Gage Analysis**

NEW ALLEN ROAD CREST STAGE GAGE

Pressure Transducer Level and Precipitation
for Calibration and Verification Storm Events

Drainage Masterplan - Allen Basin
Exhibit 3.1
Gage Analysis

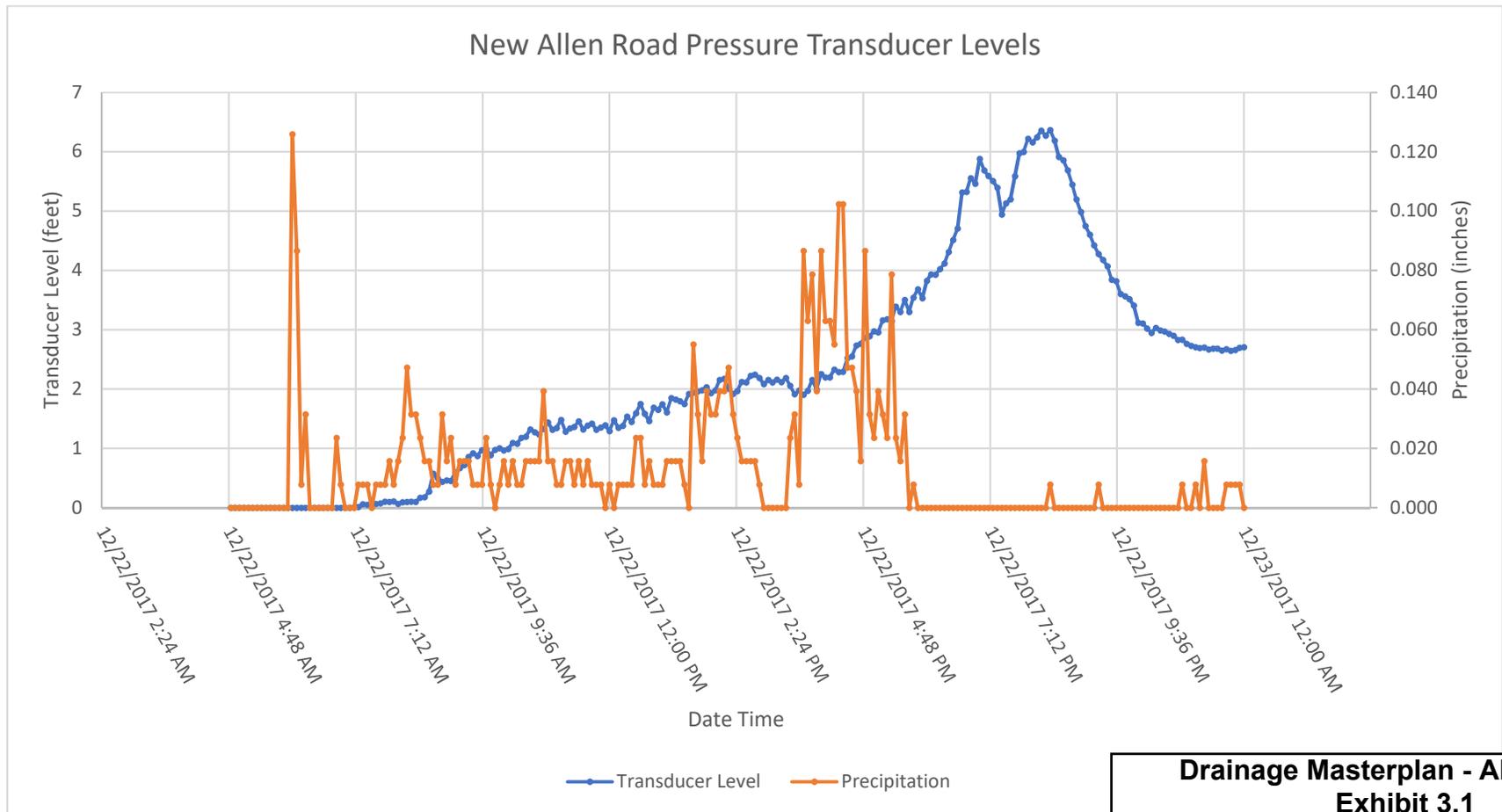


Allen – New Allen

**New Allen Road Pressure Transducer and Precipitation
CALIBRATION EVENT 1**

Gage EM28449 Fire Sta. 49 Total Event Precip. (In.)	Begin Date	End Date	Duration	Estimated NOAA Atlas 14 Frequency/Duration (1)	Recorded Intensity (in/hr)	NOAA Atlas 14 Intensity (in/hr)
3.079	12/22/17 5:50 AM	12/22/17 5:55 PM	12:05	1-yr 12-hr	0.25	0.23

(1) Frequency/Duration was estimated graphically from NOAA Atlas 14 Precipitation-Duration curve.



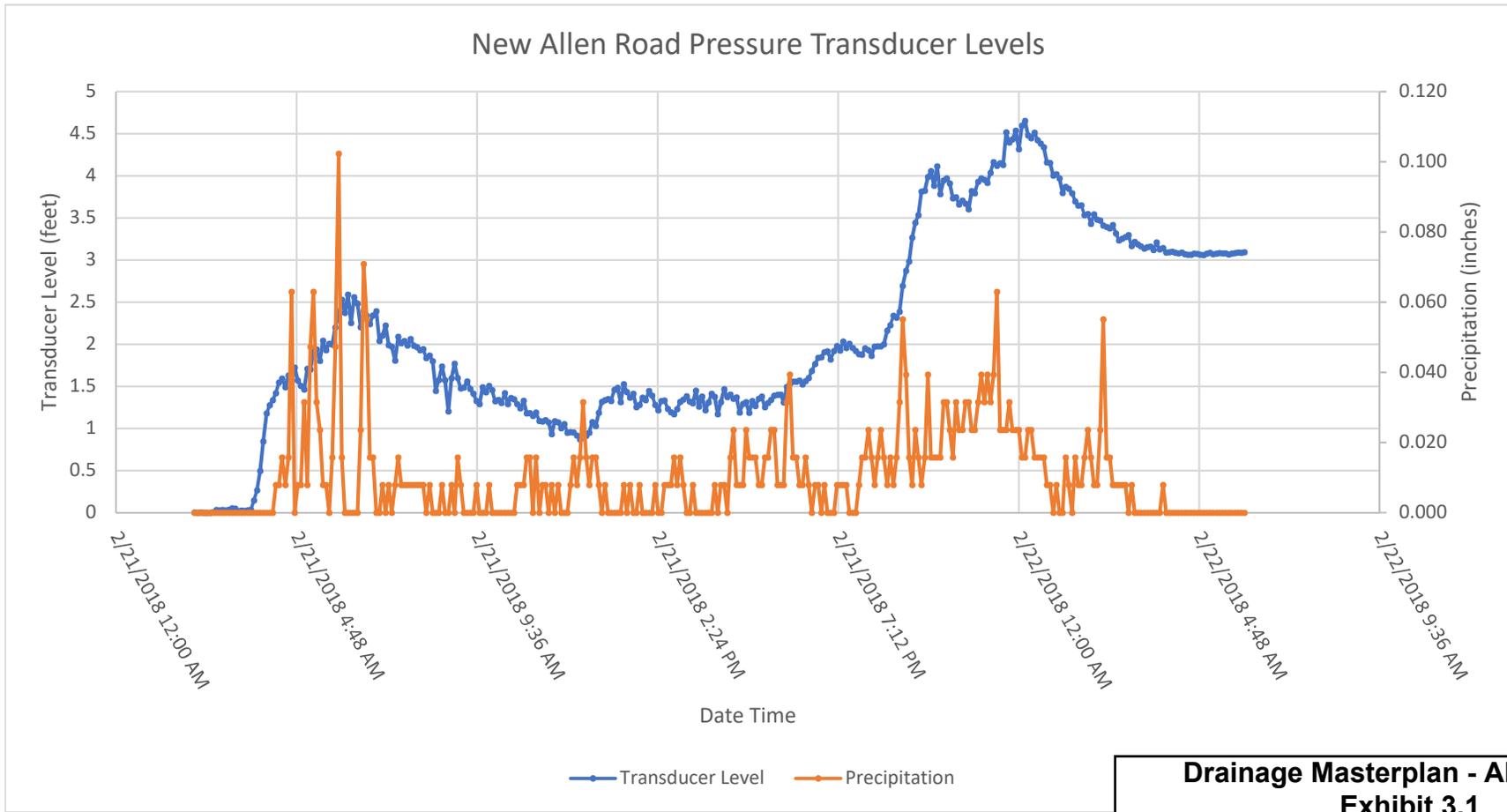
Max Transducer Level (feet) 6.37

**Drainage Masterplan - Allen Basin
Exhibit 3.1
Gage Analysis**

**New Allen Road Pressure Transducer and Precipitation
VERIFICATION EVENT**

Gage EM28449 Fire Sta. 49 Total Event Precip. (In.)	Begin Date	End Date	Duration	Estimated NOAA Atlas 14 Frequency/Duration (1)	Recorded Intensity (in/hr)	NOAA Atlas 14 Intensity (in/hr)
3.409	2/21/18 3:05 AM	2/22/18 3:40 AM	24 hrs 35 min	1-yr 24-hr	0.14	0.28

(1) Frequency/Duration was estimated graphically from NOAA Atlas 14 Precipitation-Duration curve.



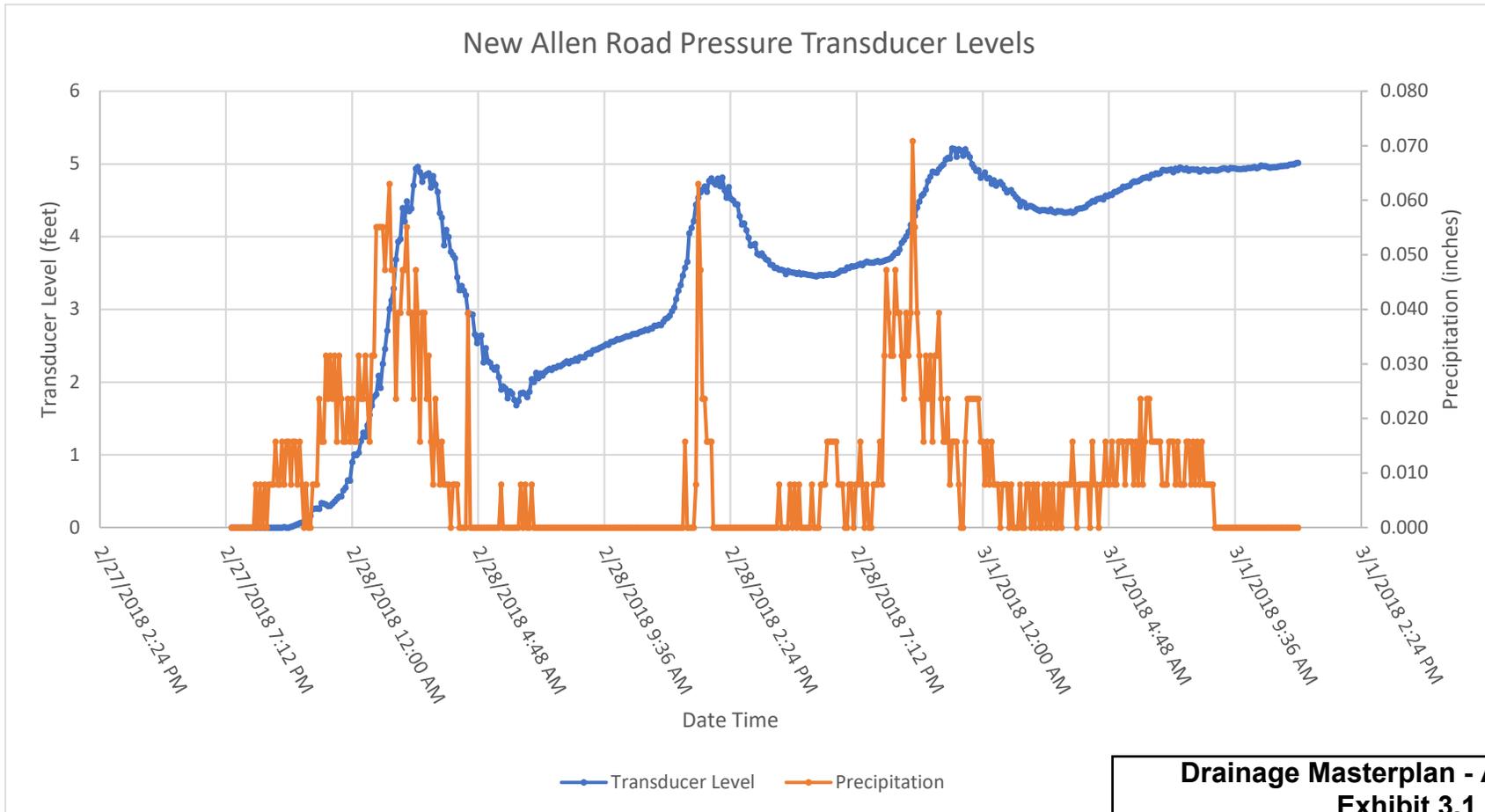
Max Transducer Level (feet) 4.65

**Drainage Masterplan - Allen Basin
Exhibit 3.1
Gage Analysis**

**New Allen Road Pressure Transducer and Precipitation
CALIBRATION EVENT 2**

Gage EM28449 Fire Sta. 49 Total Event Precip. (In.)	Begin Date	End Date	Duration	Estimated NOAA Atlas 14 Frequency/Duration (1)	Recorded Intensity (in/hr)	NOAA Atlas 14 Intensity (in/hr)
4.811	2/27/18 8:15 PM	3/1/18 8:50 AM	36 hr 35 min	3-yr 36-hr	0.13	0.14

(1) Frequency/Duration was estimated graphically from NOAA Atlas 14 Precipitation-Duration curve.



Max Transducer Level (feet) 5.22

**Drainage Masterplan - Allen Basin
Exhibit 3.1
Gage Analysis**

Drainage Masterplan - Allen Basin
Exhibit 3.1
Gage Analysis

TESSLAND ROAD CREST STAGE GAGE

Pressure Transducer Level and Precipitation
for Calibration and Verification Storm Events

Drainage Masterplan - Allen Basin
Exhibit 3.1
Gage Analysis



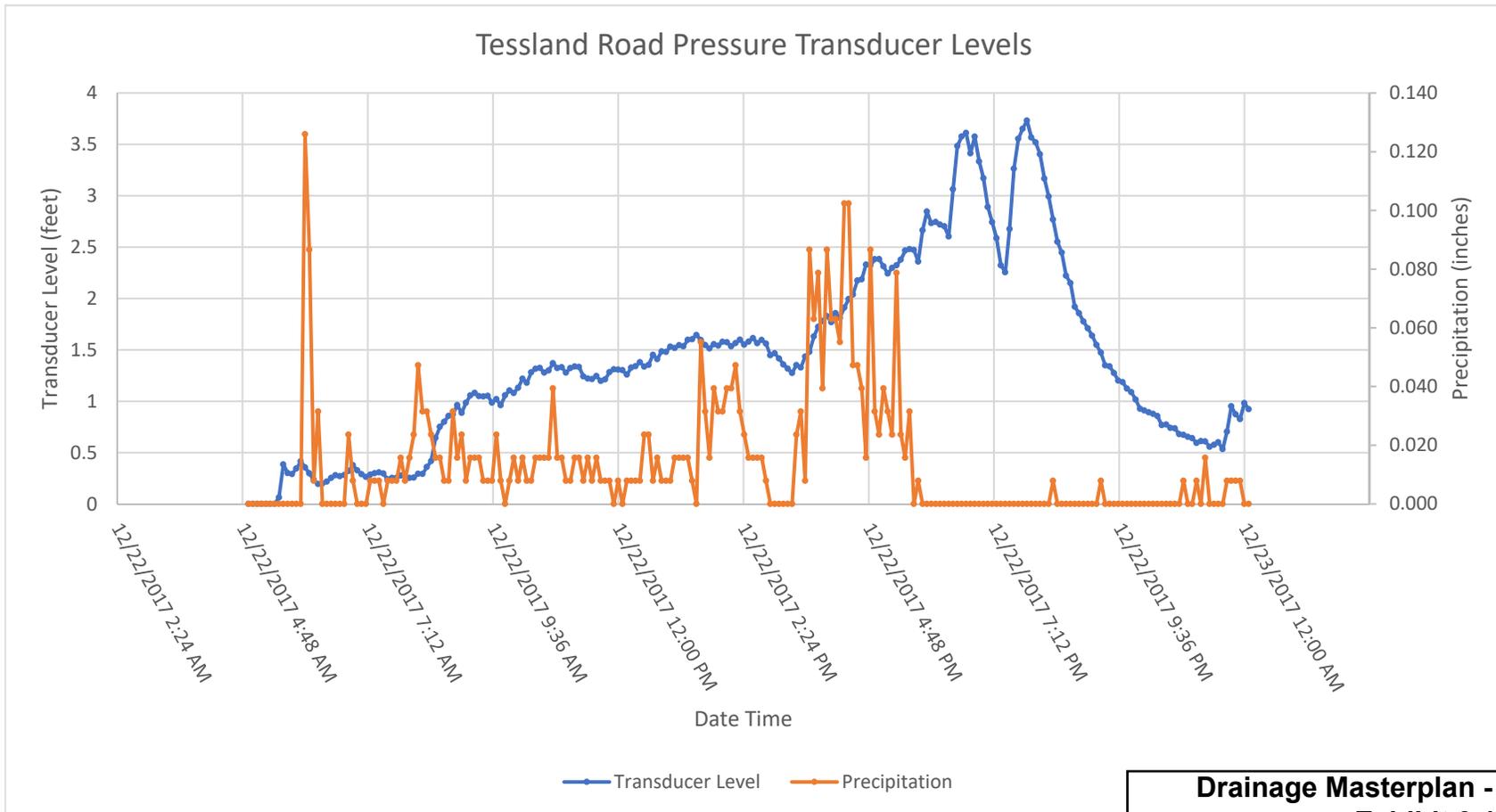
Allen – Tesseland Rd



**Tessland Road Pressure Transducer and Precipitation
CALIBRATION EVENT 1**

Gage EM28449 Fire Sta. 49 Total Event Precip. (In.)	Begin Date	End Date	Duration	Estimated NOAA Atlas 14 Frequency/Duration (1)	Recorded Intensity (in/hr)	NOAA Atlas 14 Intensity (in/hr)
3.079	12/22/17 5:50 AM	12/22/17 5:55 PM	12:05	1-yr 12-hr	0.25	0.23

(1) Frequency/Duration was estimated graphically from NOAA Atlas 14 Precipitation-Duration curve.



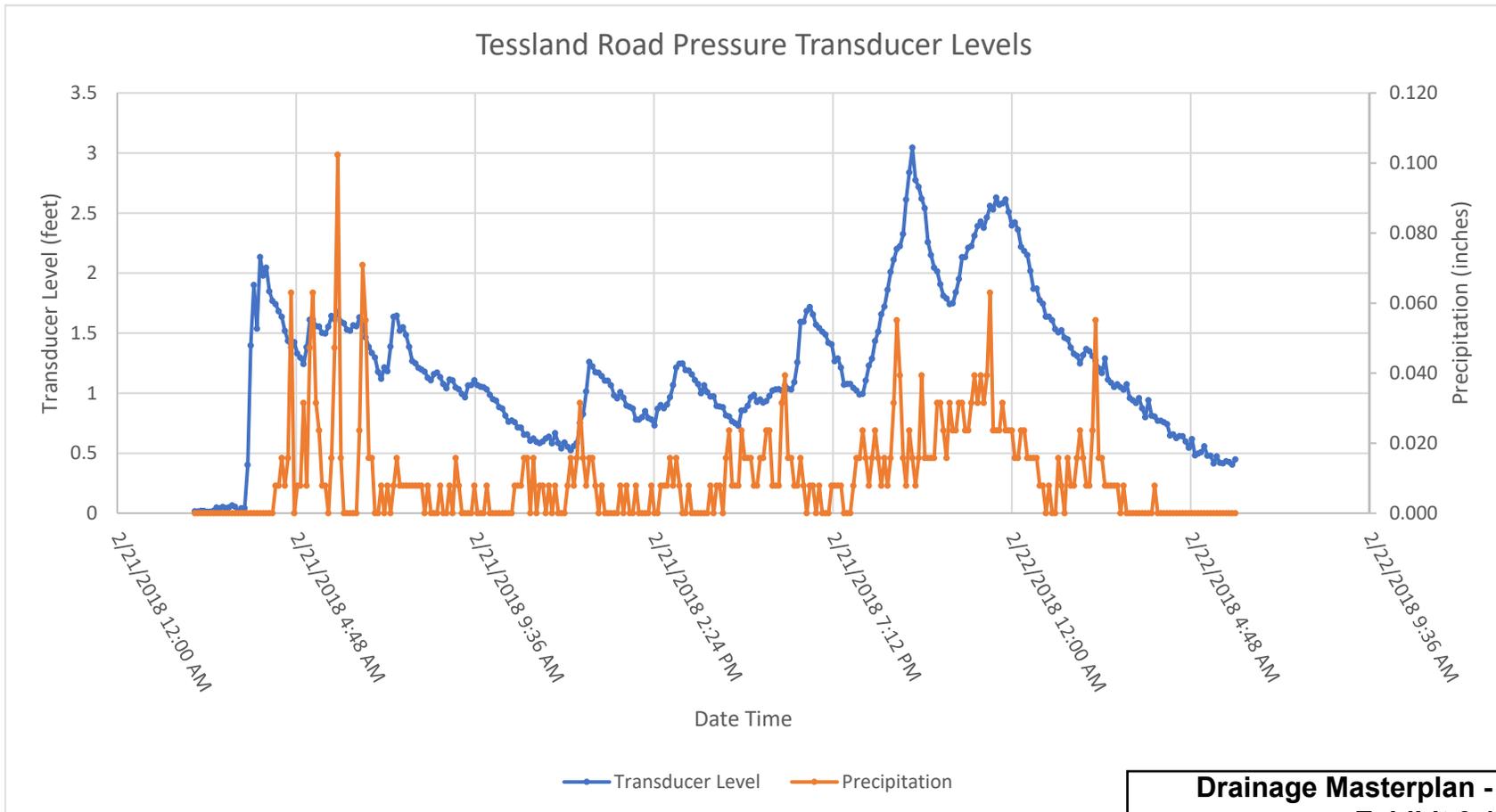
Max Transducer Level (feet) 3.73

**Drainage Masterplan - Allen Basin
Exhibit 3.1
Gage Analysis**

**Tessland Road Pressure Transducer and Precipitation
VERIFICATION EVENT**

Gage EM28449 Fire Sta. 49 Total Event Precip. (In.)	Begin Date	End Date	Duration	Estimated NOAA Atlas 14 Frequency/Duration (1)	Recorded Intensity (in/hr)	NOAA Atlas 14 Intensity (in/hr)
3.409	2/21/18 3:05 AM	2/22/18 3:40 AM	24 hrs 35 min	1-yr 24-hr	0.14	0.15

(1) Frequency/Duration was estimated graphically from NOAA Atlas 14 Precipitation-Duration curve.



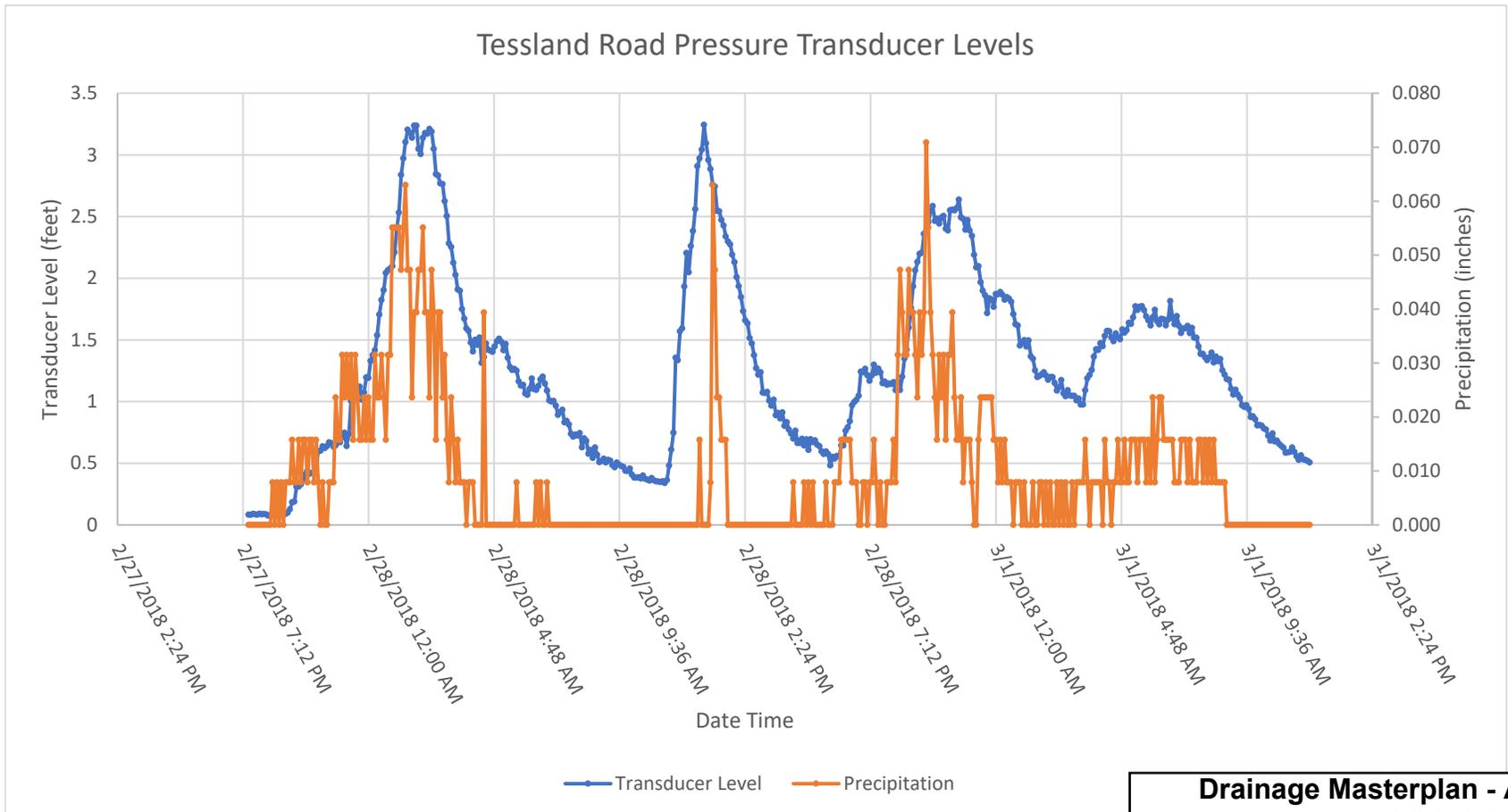
Max Transducer Level (feet) 3.04

**Drainage Masterplan - Allen Basin
Exhibit 3.1
Gage Analysis**

**Tessland Road Pressure Transducer and Precipitation
CALIBRATION EVENT 2**

Gage EM28449 Fire Sta. 49 Total Event Precip. (In.)	Begin Date	End Date	Duration	Estimated NOAA Atlas 14 Frequency/Duration (1)	Recorded Intensity (in/hr)	NOAA Atlas 14 Intensity (in/hr)
4.811	2/27/18 8:15 PM	3/1/18 8:50 AM	36 hr 35 min	3-yr 36-hr	0.13	0.14

(1) Frequency/Duration was estimated graphically from NOAA Atlas 14 Precipitation-Duration curve.



Max Transducer Level (feet) 3.24

**Drainage Masterplan - Allen Basin
Exhibit 3.1
Gage Analysis**

Drainage Master Plan - Allen Basin Study
Table 3.2
InfoSWMM Model Calibration Summary
(Calibration Storm Event 1: December 22, 2017)

CALIBRATION EVENT 1 - December 22, 2017					
Location Description	Measured Stage (Ft. NAVD88)	Type	Adjacent Model Node ID	Maximum HGL (Ft. NAVD88)	Difference (Maximum HGL - Measured Stage) (Ft.)
New Allen Road Gage (A-1)	229.44	Gage Reading	D00_9686	229.36	-0.09
Tessland Road Gage (A-2) *	245.17	Gage Reading	D06_119	244.70	-0.47

* - The Max. HGL for the Tessland Road Gage has been adjusted for the HGL slope between model node D06_119 and the gage location.

RUNOFF QUANTITY REPORT		
December 22, 2017 Calibration Event 1		
Item	Volume (acre-ft)	Depth (in)
Total Precipitation	1,244.31	3.168
Evaporation Loss	0	0
Infiltration Loss	952.324	2.424
Surface Runoff	284.716	0.725
Final Surface Storage	7.268	0.019
Initial Snow Cover		
Removed Snow		
Final Snow Cover		
Continuity Error (%)	0	0

FLOW ROUTING CONTINUITY REPORT		
December 22, 2017 Calibration Event 1		
Item	Mass Volume (acre-ft)	Storage Volume (MG)
Dry Weather Inflow	0	0
Wet Weather Inflow	284.713	92.771
Groundwater Inflow	0	0
RDII Inflow	0	0
External Inflow	0	0
External Outflow	264.528	86.194
Internal Outflow	0	0
Evaporation Loss	0	0
Exfiltration Loss	0	0
Initial Stored Volume	0	0
Final Stored Volume	24.72	8.055
Continuity Error (%)	-1.592	-1.592

Drainage Master Plan - Allen Basin Study
Table 3.2
InfoSWMM Model Calibration Summary
(Calibration Storm Event 2: February 27, 2018)

CALIBRATION EVENT 2 - February 27, 2018					
Location Description	Measured Stage (Ft. NAVD88)	Type	Adjacent Model Node ID	Maximum HGL (Ft. NAVD88)	Difference (Maximum HGL - Measured Stage) (Ft.)
New Allen Road Gage (A-1)	228.29	Gage Reading	D00_9686	228.65	0.36
Tessland Road Gage (A-2) *	244.68	Gage Reading	D06_119	244.50	-0.18

* - The Max. HGL for the Tessland Road Gage has been adjusted for the HGL slope between model node D06_119 and the gage location.

RUNOFF QUANTITY REPORT		
February 27, 2018 Calibration Event 2		
Item	Volume (acre-ft)	Depth (in)
Total Precipitation	1,899.31	4.835
Evaporation Loss	0	0
Infiltration Loss	1,478.62	3.764
Surface Runoff	414.209	1.054
Final Surface Storage	6.486	0.017
Initial Snow Cover		
Removed Snow		
Final Snow Cover		
Continuity Error (%)	0	0

FLOW ROUTING CONTINUITY REPORT		
February 27, 2018 Calibration Event 2		
Item	Mass Volume (acre-ft)	Storage Volume (MG)
Dry Weather Inflow	0	0
Wet Weather Inflow	414.213	134.967
Groundwater Inflow	0	0
RDII Inflow	0	0
External Inflow	0	0
External Outflow	394.257	128.465
Internal Outflow	0	0
Evaporation Loss	0	0
Exfiltration Loss	0	0
Initial Stored Volume	0	0
Final Stored Volume	24.223	7.893
Continuity Error (%)	-1.03	-1.03

Drainage Master Plan - Allen Basin Study
 Table 3.2
 InfoSWMM Model Calibration Summary
 (Verification Event: February 21, 2018)

VERIFICATION EVENT - February 21, 2018					
Location Description	Measured Stage (Ft. NAVD88)	Type	Adjacent Model Node ID	Maximum HGL (Ft. NAVD88)	Difference (Maximum HGL - Measured Stage) (Ft.)
New Allen Road Gage (A-1)	227.72	Gage Reading	D00_9686	228.13	0.41
Tessland Road Gage (A-2) *	244.49	Gage Reading	D06_119	244.15	-0.34

* - The Max. HGL for the Tessland Road Gage has been adjusted for the HGL slope between model node D06_119 and the gage location.

RUNOFF QUANTITY REPORT February 21, 2018 Verification Event		
Item	Volume (acre-ft)	Depth (in)
Total Precipitation	1,351.71	3.441
Evaporation Loss	0	0
Infiltration Loss	1,055.29	2.686
Surface Runoff	289.926	0.738
Final Surface Storage	6.502	0.017
Initial Snow Cover		
Removed Snow		
Final Snow Cover		
Continuity Error (%)	0	0

FLOW ROUTING CONTINUITY REPORT February 21, 2018 Verification Event		
Item	Mass Volume (acre-ft)	Storage Volume (MG)
Dry Weather Inflow	0	0
Wet Weather Inflow	289.918	94.467
Groundwater Inflow	0	0
RDII Inflow	0	0
External Inflow	0	0
External Outflow	265.579	86.536
Internal Outflow	0	0
Evaporation Loss	0	0
Exfiltration Loss	0	0
Initial Stored Volume	0	0
Final Stored Volume	30.515	9.943
Continuity Error (%)	-2.13	-2.13

SECTION 4 - FREQUENCY FLOOD MODEL RESULTS

**Drainage Master Plan Allen Basin West Study Area
(Watersheds A, B and C)**

Table 4.1.1

**InfoSWMM Model Frequency Flood Results Table
(Existing Conditions Vs. Alternatives)**

Junction ID	Location Description	Address	Critical WSEL (FFE or Min. Top of Road) (ft)	Calibration Event 1 (December 22, 2017) WSEL (ft)	Storm Recurrence Interval (yr)	Modeled Water Surface Elev. (ft)	Modeled Water Surface Elev. (ft)
						EXISTING CONDITIONS	A-1 RECOMMENDED
A_999102	FFE 1	2563 Sunny Hill Dr	242.25	#N/A	100	242.00	240.15
					50	241.77	240.00
					25	241.62	240.00
					10	241.45	240.00
					5	241.25	240.00
					2	240.77	240.00
A_999102	FFE 2	2569 Sunny Hill Dr	243.06	#N/A	100	242.00	240.15
					50	241.77	240.00
					25	241.62	240.00
					10	241.45	240.00
					5	241.25	240.00
					2	240.77	240.00
A_999103	FFE 3	4523 Beacon Hills Dr	245.77	#N/A	100	244.40	243.60
					50	244.36	243.60
					25	244.31	243.60
					10	244.24	243.60
					5	244.18	243.60
					2	244.07	243.60
A_999103	FFE 4	4527 Beacon Hills Dr	244.12	#N/A	100	244.40	243.60
					50	244.36	243.60
					25	244.31	243.60
					10	244.24	243.60
					5	244.18	243.60
					2	244.07	243.60
A_999103	FFE 5	4531 Beacon Hills Dr	245.28	#N/A	100	244.40	243.60
					50	244.36	243.60
					25	244.31	243.60
					10	244.24	243.60
					5	244.18	243.60
					2	244.07	243.60
A_999101	FFE 6	4385 Beacon Hills Dr	271.47	#N/A	100	268.62	268.62
					50	268.59	268.59
					25	268.54	268.54
					10	268.47	268.46
					5	268.37	268.37
					2	268.10	268.10

**Drainage Master Plan Allen Basin West Study Area
(Watersheds A, B and C)
Table 4.1.1
InfoSWMM Model Frequency Flood Results Table
(Existing Conditions Vs. Alternatives)**

Junction ID	Location Description	Address	Critical WSEL (FFE or Min. Top of Road) (ft)	Calibration Event 1 (December 22, 2017) WSEL (ft)	Storm Recurrence Interval (yr)	Modeled Water Surface Elev. (ft)	Modeled Water Surface Elev. (ft)
						EXISTING CONDITIONS	A-1 RECOMMENDED
C_9192	FFE 7	3265 Flower Valley	258.68	#N/A	100	255.20	255.20
					50	255.09	255.09
					25	254.97	254.97
					10	254.81	254.81
					5	254.54	254.54
					2	253.84	253.84
C_9192	FFE 8	3271 Flower Valley	259.76	#N/A	100	255.20	255.20
					50	255.09	255.09
					25	254.97	254.97
					10	254.81	254.81
					5	254.54	254.54
					2	253.84	253.84
C_9190	FFE 9	4606 Valley Stream Dr	258.38	#N/A	100	255.55	255.55
					50	255.49	255.49
					25	255.43	255.43
					10	255.32	255.32
					5	255.10	255.10
					2	254.34	254.34
C_99913	FFE 10	4387 Howardcrest Dr	279.03	#N/A	100	275.04	275.04
					50	274.99	274.99
					25	274.93	274.93
					10	274.85	274.85
					5	274.79	274.79
					2	274.68	274.68
C_99913	FFE 11	4393 Howardcrest Dr	277.05	#N/A	100	275.04	275.04
					50	274.99	274.99
					25	274.93	274.93
					10	274.85	274.85
					5	274.79	274.79
					2	274.68	274.68

LENGEND

###.##
###.##

Blue cells indicate max. water surface elevation is within 0.50 feet of critical elevation, but does not exceed the critical elevation
Red cells indicate max. water surface elevation exceeds the critical elevation.

Drainage Master Plan Allen Basin
Table 4.1.2
Roadway Level of Service Table
(Existing Conditions Vs. Alternatives)

Road Name	Level of Service (LOS) - Recurrence Interval Storm Event for which the Road is Operational	LOS
SCENARIO	EXISTING CONDITIONS	A-1 (RECOMMENDED)
Beacon Hill Dr	< 2-year	100-year
Sunny Hill Dr	< 2-year	100-year

LEGEND

	Green cells indicate improvement in LOS.
	Pink cells indicate reduction in LOS.

Drainage Master Plan Allen Basin West Study Area (Watersheds A, B and C)

Table 4.1.3 Downstream Impact Analysis (Existing Conditions Vs. Alternatives)

Junction ID	Location Description	Storm Recurrence Interval (yr)	Modeled Water Surface Elev. (ft)	Modeled Water Surface Elev. (ft)
			EXISTING CONDITIONS	A-1 RECOMMENDED
A_999104	275 ft. Downstream of Sunny Hill Dr.	100	227.52	227.93
		50	227.43	227.81
		25	227.32	227.69
		10	227.17	227.53
		5	227.06	227.39
		2	226.94	227.13
A_9990	530 ft. Downstream of Sunny Hill Dr.	100	225.97	226.27
		50	226.02	226.05
		25	225.60	225.69
		10	225.54	225.63
		5	225.42	225.55
		2	225.20	225.27
_999179	Watershed Outfall	100	213.86	214.63
		50	213.86	214.67
		25	213.85	213.86
		10	213.85	213.86
		5	213.75	213.86
		2	213.43	213.50

LENGEND

###.##	Blue cells indicate max. water surface elevation has increased 0.25 feet or less from existing max. water surface elevation.
###.##	Red cells indicate max. water surface elevation has increased 0.25 feet or more from existing max. water surface elevation.

**Drainage Master Plan Allen Basin East Study Area
(Watershed D)**

Table 4.2.1

**InfoSWMM Model Frequency Flood Results
(Existing Conditions Vs. Alternatives)**

Junction ID	Location Description	Address / Location	Critical WSEL (FFE or Min. Top of Road) (ft)	Calibration Event 1 (December 22, 2017) WSEL (ft)	Storm Recurrence Interval (yr)	Modeled Water Surface Elev. (ft)								
						EXISTING CONDITIONS	D-9	D-12	D-17	D-19	D-21	D-23	D-29	RECOMMENDED
D01_9050	FFE 12	4680 Spring Valley Dr	246.91	241.42	100	245.44	245.44	245.44	245.44	245.44	245.44	245.44	245.44	245.44
					50	245.40	245.40	245.40	245.40	245.40	245.40	245.40	245.40	245.40
					25	245.35	245.35	245.35	245.35	245.35	245.35	245.35	245.35	245.35
					10	245.16	245.16	245.16	245.16	245.16	245.16	245.16	245.16	245.16
					5	245.08	245.08	245.08	245.08	245.08	245.08	245.08	245.08	245.08
					2	244.93	244.93	244.93	244.93	244.93	244.93	244.93	244.93	244.93
D01_9044	FFE 13	4688 Spring Valley Dr	244.66	239.99	100	243.36	243.36	243.36	243.36	243.36	243.36	243.36	243.36	243.36
					50	243.29	243.29	243.29	243.28	243.29	243.29	243.28	243.28	243.28
					25	243.21	243.21	243.21	243.21	243.21	243.21	243.21	243.21	243.21
					10	243.11	243.11	243.11	243.11	243.11	243.11	243.11	243.11	243.11
					5	243.02	243.02	243.02	243.02	243.02	243.02	243.02	243.02	243.02
					2	242.69	242.69	242.69	242.69	242.69	242.69	242.69	242.69	242.69
D01_9044	FFE 14	4702 Spring Valley Dr	243.02	239.99	100	243.36	243.36	243.36	243.36	243.36	243.36	243.36	243.36	243.36
					50	243.29	243.29	243.29	243.28	243.29	243.29	243.28	243.28	243.28
					25	243.21	243.21	243.21	243.21	243.21	243.21	243.21	243.21	243.21
					10	243.11	243.11	243.11	243.11	243.11	243.11	243.11	243.11	243.11
					5	243.02	243.02	243.02	243.02	243.02	243.02	243.02	243.02	243.02
					2	242.69	242.69	242.69	242.69	242.69	242.69	242.69	242.69	242.69
D01_9044	FFE 15	4710 Spring Valley Dr	243.13	239.99	100	243.36	243.36	243.36	243.36	243.36	243.36	243.36	243.36	243.36
					50	243.29	243.29	243.29	243.28	243.29	243.29	243.28	243.28	243.28
					25	243.21	243.21	243.21	243.21	243.21	243.21	243.21	243.21	243.21
					10	243.11	243.11	243.11	243.11	243.11	243.11	243.11	243.11	243.11
					5	243.02	243.02	243.02	243.02	243.02	243.02	243.02	243.02	243.02
					2	242.69	242.69	242.69	242.69	242.69	242.69	242.69	242.69	242.69
D03_99978	FFE 16	3905 Walsingham Dr	260.18	251.73	100	260.89	260.89	260.88	260.89	260.88	260.88	260.88	260.88	260.88
					50	260.53	260.53	260.53	260.53	260.53	260.53	260.53	260.53	260.53
					25	260.11	260.11	260.10	260.11	260.10	260.10	260.10	260.10	260.11
					10	259.50	259.50	259.50	259.50	259.50	259.50	259.50	259.50	259.50
					5	258.97	258.97	258.97	258.97	258.97	258.97	258.97	258.97	258.97
					2	254.98	254.98	254.97	254.98	254.97	254.97	254.97	254.97	254.98

**Drainage Master Plan Allen Basin East Study Area
(Watershed D)**

**Table 4.2.1
InfoSWMM Model Frequency Flood Results
(Existing Conditions Vs. Alternatives)**

Junction ID	Location Description	Address / Location	Critical WSEL (FFE or Min. Top of Road) (ft)	Calibration Event 1 (December 22, 2017) WSEL (ft)	Storm Recurrence Interval (yr)	Modeled Water Surface Elev. (ft)									
						EXISTING CONDITIONS	D-9	D-12	D-17	D-19	D-21	D-23	D-29	RECOMMENDED	
D03_508	FFE 17	4412 Kerwin Dr	259.06	251.34	100	261.18	261.18	261.18	261.18	261.18	261.18	261.18	261.18	261.18	
					50	260.92	260.92	260.92	260.92	260.92	260.92	260.92	260.92	260.92	
					25	260.67	260.67	260.67	260.67	260.67	260.67	260.67	260.67	260.67	
					10	260.38	260.38	260.38	260.38	260.38	260.37	260.38	260.38	260.38	
					5	259.93	259.93	259.93	259.93	259.93	259.93	259.93	259.93	259.93	259.93
					2	255.88	255.88	255.88	255.88	255.88	255.88	255.88	255.88	255.88	255.88
D06_128	FFE 18	3645 Trudy Cv	240.99	234.33	100	241.89	241.89	239.74	241.90	241.88	241.88	241.77	241.88	239.82	
					50	241.67	241.67	239.25	241.70	241.67	241.66	241.55	241.67	239.28	
					25	241.32	241.32	238.92	241.35	241.31	241.31	241.17	241.32	238.96	
					10	240.49	240.50	238.38	240.56	240.50	240.49	240.38	240.51	238.38	
					5	239.82	239.82	238.27	239.86	239.83	239.82	239.78	239.85	238.28	
					2	238.73	238.73	237.65	238.76	238.75	238.77	238.75	238.80	237.63	
D06_126	FFE 19	3656 Ridgemont	242.18	234.28	100	241.88	241.88	239.13	241.89	241.87	241.86	241.76	241.87	239.13	
					50	241.65	241.65	238.84	241.68	241.65	241.64	241.53	241.65	238.84	
					25	241.28	241.28	238.63	241.33	241.27	241.27	241.13	241.28	238.64	
					10	240.43	240.44	238.13	240.50	240.43	240.42	240.31	240.44	238.14	
					5	239.68	239.68	238.06	239.72	239.70	239.68	239.64	239.71	238.06	
					2	238.59	238.59	237.47	238.61	238.61	238.62	238.60	238.65	237.46	
D06_999142	FFE 20	3735 Ridgemont	260.04	258.70	100	259.22	259.22	258.70	259.22	259.19	259.19	259.18	259.18	258.70	
					50	259.16	259.17	258.70	259.15	259.16	259.15	259.15	259.15	258.70	
					25	259.12	259.12	258.70	259.12	259.10	259.11	259.10	259.09	258.70	
					10	258.78	258.77	258.70	258.77	258.72	258.73	258.76	258.72	258.70	
					5	258.70	258.70	258.70	258.70	258.70	258.70	258.70	258.70	258.70	
					2	258.70	258.70	258.70	258.70	258.70	258.70	258.70	258.70	258.70	
D06_177	FFE 21	4235 Trudy St	247.47	243.04	100	249.20	249.20	246.59	249.20	249.19	249.18	248.80	249.19	246.63	
					50	249.11	249.11	246.21	249.10	249.10	249.10	248.70	249.10	246.26	
					25	248.98	248.97	245.85	248.97	248.96	248.97	248.52	248.96	245.88	
					10	248.77	248.77	245.34	248.77	248.77	248.77	248.38	248.77	245.37	
					5	248.53	248.53	242.89	248.53	248.53	248.53	248.09	248.53	242.89	
					2	247.97	247.97	242.81	247.98	247.97	247.97	247.46	247.99	242.82	

**Drainage Master Plan Allen Basin East Study Area
(Watershed D)**

Table 4.2.1

**InfoSWMM Model Frequency Flood Results
(Existing Conditions Vs. Alternatives)**

Junction ID	Location Description	Address / Location	Critical WSEL (FFE or Min. Top of Road) (ft)	Calibration Event 1 (December 22, 2017) WSEL (ft)	Storm Recurrence Interval (yr)	Modeled Water Surface Elev. (ft)								
						EXISTING CONDITIONS	D-9	D-12	D-17	D-19	D-21	D-23	D-29	RECOMMENDED
D06_177	FFE 22	4241 Trudy	248.26	243.04	100	249.20	249.20	246.59	249.20	249.19	249.18	248.80	249.19	246.63
					50	249.11	249.11	246.21	249.10	249.10	249.10	248.70	249.10	246.26
					25	248.98	248.97	245.85	248.97	248.96	248.97	248.52	248.96	245.88
					10	248.77	248.77	245.34	248.77	248.77	248.77	248.38	248.77	245.37
					5	248.53	248.53	242.89	248.53	248.53	248.53	248.09	248.53	242.89
					2	247.97	247.97	242.81	247.98	247.97	247.97	247.46	247.99	242.82
D06_177	FFE 23	4247 Trudy	248.01	243.04	100	249.20	249.20	246.59	249.20	249.19	249.18	248.80	249.19	246.63
					50	249.11	249.11	246.21	249.10	249.10	249.10	248.70	249.10	246.26
					25	248.98	248.97	245.85	248.97	248.96	248.97	248.52	248.96	245.88
					10	248.77	248.77	245.34	248.77	248.77	248.77	248.38	248.77	245.37
					5	248.53	248.53	242.89	248.53	248.53	248.53	248.09	248.53	242.89
					2	247.97	247.97	242.81	247.98	247.97	247.97	247.46	247.99	242.82
D06_999147	FFE 24	4267 Trudy	249.57	248.70	100	249.21	249.20	248.70	249.21	249.19	249.18	249.06	249.20	248.70
					50	249.13	249.13	248.70	249.11	249.10	249.10	249.07	249.10	248.70
					25	249.03	249.02	248.70	249.02	248.99	249.00	248.98	248.99	248.70
					10	248.78	248.78	248.70	248.78	248.78	248.78	248.71	248.78	248.70
					5	248.70	248.70	248.70	248.70	248.70	248.70	248.70	248.70	248.70
					2	248.70	248.70	248.70	248.70	248.70	248.70	248.70	248.70	248.70
D06_125	FFE 25	4272 Hobson Cv	245.83	235.57	100	243.93	243.93	241.63	243.96	243.93	243.93	243.81	243.93	241.64
					50	243.73	243.73	241.35	243.76	243.72	243.72	243.59	243.73	241.39
					25	243.44	243.44	240.74	243.47	243.43	243.43	243.32	243.44	240.83
					10	242.90	242.91	239.97	242.95	242.91	242.90	242.83	242.92	239.97
					5	242.56	242.56	239.83	242.58	242.57	242.56	242.53	242.57	239.84
					2	242.06	242.06	238.75	242.08	242.08	242.08	242.07	242.10	238.73
D06_999147	FFE 26	4273 Trudy St	249.86	248.70	100	249.21	249.20	248.70	249.21	249.19	249.18	249.06	249.20	248.70
					50	249.13	249.13	248.70	249.11	249.10	249.10	249.07	249.10	248.70
					25	249.03	249.02	248.70	249.02	248.99	249.00	248.98	248.99	248.70
					10	248.78	248.78	248.70	248.78	248.78	248.78	248.71	248.78	248.70
					5	248.70	248.70	248.70	248.70	248.70	248.70	248.70	248.70	248.70
					2	248.70	248.70	248.70	248.70	248.70	248.70	248.70	248.70	248.70

**Drainage Master Plan Allen Basin East Study Area
(Watershed D)**

Table 4.2.1

**InfoSWMM Model Frequency Flood Results
(Existing Conditions Vs. Alternatives)**

Junction ID	Location Description	Address / Location	Critical WSEL (FFE or Min. Top of Road) (ft)	Calibration Event 1 (December 22, 2017) WSEL (ft)	Storm Recurrence Interval (yr)	Modeled Water Surface Elev. (ft)								
						EXISTING CONDITIONS	D-9	D-12	D-17	D-19	D-21	D-23	D-29	RECOMMENDED
D06_125	FFE 27	4278 Hobson Cv	245.40	235.57	100	243.93	243.93	241.63	243.96	243.93	243.93	243.81	243.93	241.64
					50	243.73	243.73	241.35	243.76	243.72	243.72	243.59	243.73	241.39
					25	243.44	243.44	240.74	243.47	243.43	243.43	243.32	243.44	240.83
					10	242.90	242.91	239.97	242.95	242.91	242.90	242.83	242.92	239.97
					5	242.56	242.56	239.83	242.58	242.57	242.56	242.53	242.57	239.84
					2	242.06	242.06	238.75	242.08	242.08	242.08	242.07	242.10	238.73
D06_999140	FFE 28	4173 Trudy St	249.10	247.30	100	248.84	248.84	248.88	248.84	248.84	248.84	248.86	248.84	248.88
					50	248.77	248.77	248.80	248.77	248.77	248.77	248.79	248.77	248.81
					25	248.68	248.68	248.69	248.69	248.69	248.68	248.70	248.69	248.70
					10	248.51	248.51	248.49	248.51	248.51	248.51	248.49	248.51	248.50
					5	248.35	248.35	248.34	248.36	248.35	248.35	248.35	248.36	248.35
					2	248.10	248.10	248.05	248.10	248.10	248.10	248.10	248.10	248.03
D06_31	FFE 29	4191 Trudy St	248.85	244.48	100	248.17	248.16	247.98	248.17	248.16	248.16	248.04	248.16	247.98
					50	248.08	248.07	247.91	248.08	248.07	248.07	247.95	248.07	247.91
					25	247.95	247.95	247.84	247.95	247.95	247.95	247.85	247.95	247.84
					10	247.84	247.84	247.72	247.83	247.84	247.84	247.78	247.84	247.72
					5	247.61	247.61	247.48	247.61	247.61	247.61	247.56	247.61	247.48
					2	247.29	247.29	247.20	247.29	247.29	247.29	247.29	247.29	247.19
D06_31	FFE 30	4199 Trudy St	248.32	244.48	100	248.17	248.16	247.98	248.17	248.16	248.16	248.04	248.16	247.98
					50	248.08	248.07	247.91	248.08	248.07	248.07	247.95	248.07	247.91
					25	247.95	247.95	247.84	247.95	247.95	247.95	247.85	247.95	247.84
					10	247.84	247.84	247.72	247.83	247.84	247.84	247.78	247.84	247.72
					5	247.61	247.61	247.48	247.61	247.61	247.61	247.56	247.61	247.48
					2	247.29	247.29	247.20	247.29	247.29	247.29	247.29	247.29	247.19
D06_199	FFE 31	3775 Windy Ave	251.62	245.37	100	250.58	250.58	250.58	250.58	250.58	250.58	250.58	250.58	250.58
					50	250.51	250.51	250.51	250.51	250.51	250.51	250.51	250.51	250.52
					25	250.45	250.45	250.45	250.46	250.45	250.45	250.45	250.45	250.46
					10	250.40	250.40	250.39	250.40	250.40	250.40	250.40	250.40	250.40
					5	250.31	250.31	250.32	250.31	250.31	250.31	250.31	250.31	250.32
					2	250.16	250.16	250.19	250.17	250.16	250.17	250.16	250.17	250.19

**Drainage Master Plan Allen Basin East Study Area
(Watershed D)**

Table 4.2.1

**InfoSWMM Model Frequency Flood Results
(Existing Conditions Vs. Alternatives)**

Junction ID	Location Description	Address / Location	Critical WSEL (FFE or Min. Top of Road) (ft)	Calibration Event 1 (December 22, 2017) WSEL (ft)	Storm Recurrence Interval (yr)	Modeled Water Surface Elev. (ft)								
						EXISTING CONDITIONS	D-9	D-12	D-17	D-19	D-21	D-23	D-29	RECOMMENDED
D06_999101	FFE 32	3787 Tessland Ave	253.35	247.36	100	255.74	255.74	255.74	255.79	255.74	255.74	255.74	255.74	255.79
					50	255.55	255.55	255.54	255.59	255.55	255.54	255.55	255.55	255.55
					25	255.25	255.25	255.27	255.33	255.26	255.23	255.25	255.27	255.34
					10	254.68	254.68	254.70	254.76	254.69	254.65	254.69	254.70	254.77
					5	254.34	254.34	254.39	254.38	254.37	254.31	254.36	254.38	254.39
					2	253.61	253.61	253.79	253.64	253.67	253.70	253.65	253.75	253.66
D06_999101	FFE 33	3793 Tessland	255.96	247.36	100	255.74	255.74	255.74	255.79	255.74	255.74	255.74	255.74	255.79
					50	255.55	255.55	255.54	255.59	255.55	255.54	255.55	255.55	255.59
					25	255.25	255.25	255.27	255.33	255.26	255.23	255.25	255.27	255.34
					10	254.68	254.68	254.70	254.76	254.69	254.65	254.69	254.70	254.77
					5	254.34	254.34	254.39	254.38	254.37	254.31	254.36	254.38	254.39
					2	253.61	253.61	253.79	253.64	253.67	253.70	253.65	253.75	253.66
D06_999134	FFE 34	3770 Trufant	260.58	260.80	100	261.61	261.61	261.61	261.61	261.61	261.61	261.61	261.61	261.61
					50	261.54	261.54	261.54	261.54	261.54	261.54	261.54	261.54	261.54
					25	261.47	261.47	261.47	261.47	261.47	261.47	261.47	261.47	261.47
					10	261.36	261.36	261.36	261.36	261.36	261.36	261.36	261.36	261.36
					5	261.27	261.27	261.27	261.27	261.27	261.27	261.27	261.27	261.27
					2	261.11	261.11	261.11	261.11	261.11	261.11	261.11	261.11	261.11
D06_999134	FFE 35	4060 Zane St	260.48	260.80	100	261.61	261.61	261.61	261.61	261.61	261.61	261.61	261.61	261.61
					50	261.54	261.54	261.54	261.54	261.54	261.54	261.54	261.54	261.54
					25	261.47	261.47	261.47	261.47	261.47	261.47	261.47	261.47	261.47
					10	261.36	261.36	261.36	261.36	261.36	261.36	261.36	261.36	261.36
					5	261.27	261.27	261.27	261.27	261.27	261.27	261.27	261.27	261.27
					2	261.11	261.11	261.11	261.11	261.11	261.11	261.11	261.11	261.11
D06_999136	FFE 36	4064 Hitchcock Dr	256.19	255.90	100	256.60	256.60	256.60	256.60	256.60	256.60	256.60	256.60	256.60
					50	256.52	256.52	256.52	256.52	256.52	256.52	256.52	256.52	256.52
					25	256.43	256.43	256.43	256.44	256.43	256.43	256.43	256.43	256.44
					10	256.35	256.35	256.35	256.35	256.35	256.35	256.35	256.35	256.35
					5	256.28	256.28	256.28	256.28	256.28	256.28	256.28	256.28	256.28
					2	256.12	256.12	256.12	256.12	256.12	256.12	256.12	256.12	256.12

**Drainage Master Plan Allen Basin East Study Area
(Watershed D)**

Table 4.2.1

**InfoSWMM Model Frequency Flood Results
(Existing Conditions Vs. Alternatives)**

Junction ID	Location Description	Address / Location	Critical WSEL (FFE or Min. Top of Road) (ft)	Calibration Event 1 (December 22, 2017) WSEL (ft)	Storm Recurrence Interval (yr)	Modeled Water Surface Elev. (ft)										
						EXISTING CONDITIONS	D-9	D-12	D-17	D-19	D-21	D-23	D-29	RECOMMENDED		
D06_999135	FFE 37	4065 Hitchcock Dr	258.01	256.00	100	257.55	257.55	257.55	257.55	257.55	257.55	257.55	257.55	257.55		
					50	257.34	257.34	257.34	257.35	257.34	257.34	257.34	257.34	257.34	257.34	
					25	257.26	257.26	257.26	257.26	257.26	257.26	257.26	257.26	257.26	257.26	
					10	257.15	257.15	257.15	257.16	257.15	257.15	257.15	257.15	257.15		
					5	257.05	257.05	257.05	257.05	257.05	257.05	257.05	257.05	257.05		
					2	256.78	256.78	256.78	256.78	256.78	256.78	256.78	256.78	256.78		
D06_999133	FFE 38	4008 Kerwin Dr	278.34	277.70	100	279.04	279.04	279.04	277.70	279.04	279.04	279.04	279.04	279.04	277.70	
					50	278.98	278.98	278.98	277.70	278.98	278.98	278.98	278.98	278.98	278.98	277.70
					25	278.84	278.84	278.84	277.70	278.84	278.84	278.84	278.84	278.84	278.84	277.70
					10	278.65	278.65	278.65	277.70	278.65	278.65	278.65	278.65	278.65	278.65	277.70
					5	278.50	278.50	278.50	277.70	278.50	278.50	278.50	278.50	278.50	278.50	277.70
					2	277.85	277.85	277.85	277.70	277.85	277.85	277.85	277.85	277.85	277.85	277.70
D06_999133	FFE 39	4014 Kerwin Dr	278.86	277.70	100	279.04	279.04	279.04	277.70	279.04	279.04	279.04	279.04	279.04	277.70	
					50	278.98	278.98	278.98	277.70	278.98	278.98	278.98	278.98	278.98	278.98	277.70
					25	278.84	278.84	278.84	277.70	278.84	278.84	278.84	278.84	278.84	278.84	277.70
					10	278.65	278.65	278.65	277.70	278.65	278.65	278.65	278.65	278.65	278.65	277.70
					5	278.50	278.50	278.50	277.70	278.50	278.50	278.50	278.50	278.50	278.50	277.70
					2	277.85	277.85	277.85	277.70	277.85	277.85	277.85	277.85	277.85	277.85	277.70
D06_430	FFE 40	3845 Kerwood	263.45	258.06	100	266.05	266.05	266.10	266.06	266.08	264.14	266.07	266.09	266.09		
					50	265.75	265.75	265.96	265.78	265.79	264.14	265.78	265.85	265.95		
					25	265.37	265.37	265.57	265.39	265.40	264.13	265.40	265.42	265.55		
					10	265.05	264.76	265.29	265.11	265.15	264.09	265.15	265.22	265.26		
					5	264.47	264.47	264.64	264.49	264.53	264.00	264.53	264.57	264.61		
					2	263.81	263.81	264.08	263.86	263.93	263.94	263.93	264.01	263.96		
D06_110	FFE 41	3854 Kerfield	266.66	258.53	100	266.10	266.10	266.13	266.11	266.13	260.55	266.13	266.14	266.15		
					50	265.84	265.84	266.03	265.86	265.88	260.52	265.86	265.93	266.02		
					25	265.49	265.49	265.66	265.50	265.52	260.52	265.51	265.54	265.66		
					10	265.15	261.07	265.38	265.21	265.25	260.58	265.25	265.31	265.35		
					5	260.81	260.81	260.92	260.83	260.84	260.51	260.83	260.87	260.93		
					2	260.30	260.30	260.60	260.33	260.55	260.55	260.55	260.55	260.56		

**Drainage Master Plan Allen Basin East Study Area
(Watershed D)**

Table 4.2.1

**InfoSWMM Model Frequency Flood Results
(Existing Conditions Vs. Alternatives)**

Junction ID	Location Description	Address / Location	Critical WSEL (FFE or Min. Top of Road) (ft)	Calibration Event 1 (December 22, 2017) WSEL (ft)	Storm Recurrence Interval (yr)	Modeled Water Surface Elev. (ft)								
						EXISTING CONDITIONS	D-9	D-12	D-17	D-19	D-21	D-23	D-29	RECOMMENDED
D06_20010	FFE 42	3906 Winwood Dr	267.63	#N/A	100	268.77	268.76	268.70	268.78	268.82	268.59	268.78	268.81	268.87
					50	268.52	268.52	268.46	268.55	268.56	268.40	268.55	268.59	268.65
					25	268.26	268.26	268.18	268.29	268.29	268.22	268.29	268.33	268.39
					10	267.89	267.89	267.77	267.92	267.92	267.98	267.91	267.97	268.01
					5	267.61	267.61	267.47	267.64	267.64	267.76	267.64	267.68	267.70
					2	267.17	267.17	267.04	267.20	267.19	267.30	267.20	267.25	267.22
D06_20010	FFE 43	3914 Winwood Dr	267.45	#N/A	100	268.77	268.76	268.70	268.78	268.82	268.59	268.78	268.81	268.87
					50	268.52	268.52	268.46	268.55	268.56	268.40	268.55	268.59	268.65
					25	268.26	268.26	268.18	268.29	268.29	268.22	268.29	268.33	268.39
					10	267.89	267.89	267.77	267.92	267.92	267.98	267.91	267.97	268.01
					5	267.61	267.61	267.47	267.64	267.64	267.76	267.64	267.68	267.70
					2	267.17	267.17	267.04	267.20	267.19	267.30	267.20	267.25	267.22
D06_999128	FFE 44	3908 Pippin	284.93	282.70	100	283.88	283.88	283.80	283.80	282.70	283.80	283.80	283.80	282.70
					50	283.72	283.72	283.63	283.63	282.70	283.63	283.63	283.63	282.70
					25	283.55	283.55	283.48	283.48	282.70	283.48	283.48	283.48	282.70
					10	283.42	283.42	283.34	283.34	282.70	283.34	283.34	283.34	282.70
					5	283.31	283.31	283.21	283.21	282.70	283.21	283.21	283.21	282.70
					2	283.12	283.12	282.92	282.92	282.70	282.92	282.92	282.92	282.70
D06_999125	FFE 45	3909 Twinmont	307.81	306.30	100	306.89	306.89	306.88	306.88	306.30	306.88	306.88	306.88	306.30
					50	306.84	306.84	306.83	306.83	306.30	306.83	306.83	306.83	306.30
					25	306.80	306.80	306.80	306.80	306.30	306.80	306.80	306.80	306.30
					10	306.77	306.77	306.77	306.77	306.30	306.77	306.77	306.77	306.30
					5	306.71	306.71	306.71	306.71	306.30	306.71	306.71	306.71	306.30
					2	306.55	306.55	306.55	306.55	306.30	306.55	306.55	306.55	306.30
D06_999128	FFE 46	3914 Pippin	283.65	282.70	100	283.88	283.88	283.80	283.80	282.70	283.80	283.80	283.80	282.70
					50	283.72	283.72	283.63	283.63	282.70	283.63	283.63	283.63	282.70
					25	283.55	283.55	283.48	283.48	282.70	283.48	283.48	283.48	282.70
					10	283.42	283.42	283.34	283.34	282.70	283.34	283.34	283.34	282.70
					5	283.31	283.31	283.21	283.21	282.70	283.21	283.21	283.21	282.70
					2	283.12	283.12	282.92	282.92	282.70	282.92	282.92	282.92	282.70

**Drainage Master Plan Allen Basin East Study Area
(Watershed D)**

**Table 4.2.1
InfoSWMM Model Frequency Flood Results
(Existing Conditions Vs. Alternatives)**

Junction ID	Location Description	Address / Location	Critical WSEL (FFE or Min. Top of Road) (ft)	Calibration Event 1 (December 22, 2017) WSEL (ft)	Storm Recurrence Interval (yr)	Modeled Water Surface Elev. (ft)									
						EXISTING CONDITIONS	D-9	D-12	D-17	D-19	D-21	D-23	D-29	RECOMMENDED	
D06_999125	FFE 47	3917 Twinmont	307.99	306.30	100	306.89	306.89	306.88	306.88	306.30	306.88	306.88	306.88	306.30	
					50	306.84	306.84	306.83	306.83	306.30	306.83	306.83	306.83	306.83	306.30
					25	306.80	306.80	306.80	306.80	306.30	306.80	306.80	306.80	306.80	306.30
					10	306.77	306.77	306.77	306.77	306.30	306.77	306.77	306.77	306.77	306.30
					5	306.71	306.71	306.71	306.71	306.30	306.71	306.71	306.71	306.71	306.30
					2	306.55	306.55	306.55	306.55	306.30	306.55	306.55	306.55	306.55	306.30
D06_999129	FFE 48	3920 Pippin	282.90	276.49	100	282.05	282.05	282.10	282.10	275.49	282.10	282.10	282.10	275.41	
					50	281.86	281.86	281.98	281.99	274.53	281.98	281.98	281.98	281.98	274.47
					25	281.65	281.65	281.80	281.79	274.33	281.79	281.79	281.79	281.79	274.33
					10	281.36	281.35	281.50	281.51	274.13	281.52	281.50	281.52	281.52	274.13
					5	281.11	281.11	281.28	281.28	273.99	281.28	281.28	281.28	281.28	273.99
					2	280.71	280.71	280.91	280.91	273.79	280.91	280.91	280.91	280.91	273.79
D06_999130	FFE 49	3921 Pippin St	282.19	280.00	100	281.42	281.42	281.45	281.45	280.00	281.45	281.45	281.45	280.00	
					50	281.30	281.30	281.38	281.38	280.00	281.38	281.38	281.38	281.38	280.00
					25	281.18	281.18	281.27	281.27	280.00	281.26	281.27	281.26	281.26	280.00
					10	281.00	280.99	281.08	281.10	280.00	281.09	281.08	281.09	281.09	280.00
					5	280.84	280.84	280.94	280.95	280.00	280.95	280.94	280.95	280.95	280.00
					2	280.58	280.58	280.71	280.71	280.00	280.71	280.71	280.71	280.71	280.00
D06_999131	FFE 50	3926 Kerwin Dr	278.63	277.30	100	279.31	279.31	279.35	279.36	277.30	279.35	279.35	279.36	277.30	
					50	279.14	279.14	279.25	279.25	277.30	279.25	279.25	279.25	277.30	
					25	278.95	278.95	279.08	279.08	277.30	279.08	279.08	279.08	277.30	
					10	278.68	278.67	278.80	278.82	277.30	278.82	278.80	278.82	277.30	
					5	278.44	278.44	278.59	278.60	277.30	278.60	278.60	278.60	277.30	
					2	278.05	278.05	278.24	278.24	277.30	278.24	278.24	278.24	277.30	
D06_999145	FFE 51	3929 Pippin	282.47	277.31	100	282.90	282.90	282.90	282.90	278.45	282.90	282.90	282.90	278.45	
					50	282.90	282.46	282.72	282.90	278.19	282.90	282.90	282.72	278.19	
					25	282.90	282.90	282.90	282.90	277.85	282.90	282.90	282.90	277.85	
					10	281.62	281.68	281.91	282.90	277.51	282.05	281.93	282.90	277.51	
					5	281.35	281.29	281.67	281.62	277.29	281.60	281.60	281.58	277.29	
					2	280.91	280.87	281.06	281.03	277.00	281.09	281.08	281.09	277.00	

**Drainage Master Plan Allen Basin East Study Area
(Watershed D)**

Table 4.2.1

**InfoSWMM Model Frequency Flood Results
(Existing Conditions Vs. Alternatives)**

Junction ID	Location Description	Address / Location	Critical WSEL (FFE or Min. Top of Road) (ft)	Calibration Event 1 (December 22, 2017) WSEL (ft)	Storm Recurrence Interval (yr)	Modeled Water Surface Elev. (ft)								
						EXISTING CONDITIONS	D-9	D-12	D-17	D-19	D-21	D-23	D-29	RECOMMENDED
D06_999105	FFE 52	3741 Kerwin Dr	278.26	274.62	100	279.54	279.54	279.46	279.54	279.46	277.08	279.46	279.22	277.42
					50	279.34	279.34	279.34	279.34	279.34	276.54	279.34	279.01	277.21
					25	279.07	279.07	279.05	279.07	279.05	276.14	279.05	278.71	276.93
					10	278.69	278.69	278.67	278.69	278.67	275.66	278.67	278.36	276.43
					5	278.35	278.35	278.33	278.35	278.33	275.20	278.33	278.03	275.99
					2	277.67	277.67	277.69	277.67	277.69	274.48	277.69	277.36	275.50
D06_999105	FFE 53	3747 Kerwin Dr	277.64	274.62	100	279.54	279.54	279.46	279.54	279.46	277.08	279.46	279.22	277.42
					50	279.34	279.34	279.34	279.34	279.34	276.54	279.34	279.01	277.21
					25	279.07	279.07	279.05	279.07	279.05	276.14	279.05	278.71	276.93
					10	278.69	278.69	278.67	278.69	278.67	275.66	278.67	278.36	276.43
					5	278.35	278.35	278.33	278.35	278.33	275.20	278.33	278.03	275.99
					2	277.67	277.67	277.69	277.67	277.69	274.48	277.69	277.36	275.50
D06_133	FFE 54	3777 Kerwin Dr	277.90	272.17	100	279.53	279.53	279.41	279.53	279.41	276.88	279.41	279.22	277.22
					50	279.32	279.32	279.32	279.32	279.32	276.33	279.32	279.00	276.78
					25	279.05	279.05	279.05	279.05	279.05	275.99	279.05	278.72	276.49
					10	278.68	278.68	278.66	278.68	278.66	275.59	278.66	278.35	276.14
					5	278.34	278.34	278.32	278.34	278.32	275.18	278.32	278.01	275.82
					2	277.65	277.65	277.67	277.65	277.67	274.46	277.67	277.36	275.44
D06_133	FFE 55	3785 Kerwin Dr	277.95	272.17	100	279.53	279.53	279.41	279.53	279.41	276.88	279.41	279.22	277.22
					50	279.32	279.32	279.32	279.32	279.32	276.33	279.32	279.00	276.78
					25	279.05	279.05	279.05	279.05	279.05	275.99	279.05	278.72	276.49
					10	278.68	278.68	278.66	278.68	278.66	275.59	278.66	278.35	276.14
					5	278.34	278.34	278.32	278.34	278.32	275.18	278.32	278.01	275.82
					2	277.65	277.65	277.67	277.65	277.67	274.46	277.67	277.36	275.44
D06_134	FFE 56	3935 Battlefield Dr	279.67	273.99	100	279.69	279.69	279.48	279.69	279.48	277.32	279.48	279.36	277.69
					50	279.48	279.47	279.43	279.48	279.43	276.74	279.43	279.13	277.20
					25	279.20	279.20	279.15	279.20	279.15	276.34	279.15	278.84	276.83
					10	278.81	278.81	278.75	278.81	278.75	275.84	278.75	278.45	276.38
					5	278.61	278.61	278.41	278.61	278.41	275.36	278.41	278.16	276.00
					2	278.41	278.41	277.99	278.41	277.99	274.53	277.99	277.94	275.55

**Drainage Master Plan Allen Basin East Study Area
(Watershed D)**

**Table 4.2.1
InfoSWMM Model Frequency Flood Results
(Existing Conditions Vs. Alternatives)**

Junction ID	Location Description	Address / Location	Critical WSEL (FFE or Min. Top of Road) (ft)	Calibration Event 1 (December 22, 2017) WSEL (ft)	Storm Recurrence Interval (yr)	Modeled Water Surface Elev. (ft)								
						EXISTING CONDITIONS	D-9	D-12	D-17	D-19	D-21	D-23	D-29	RECOMMENDED
D06_999146	FFE 57	3996 Battlefield Dr	288.50	285.00	100	286.21	286.21	286.02	286.21	286.02	285.00	286.02	286.02	285.00
					50	286.21	286.21	286.01	286.21	286.01	285.00	286.01	286.02	285.00
					25	286.13	286.13	285.95	286.13	285.95	285.00	285.95	285.96	285.00
					10	285.92	285.92	285.79	285.92	285.79	285.00	285.79	285.79	285.00
					5	285.79	285.79	285.70	285.79	285.70	285.00	285.70	285.70	285.00
D06_999146	FFE 58	4002 Battlefield Dr	289.69	285.00	100	286.21	286.21	286.02	286.21	286.02	285.00	286.02	286.02	285.00
					50	286.21	286.21	286.01	286.21	286.01	285.00	286.01	286.02	285.00
					25	286.13	286.13	285.95	286.13	285.95	285.00	285.95	285.96	285.00
					10	285.92	285.92	285.79	285.92	285.79	285.00	285.79	285.79	285.00
					5	285.79	285.79	285.70	285.79	285.70	285.00	285.70	285.70	285.00
D06_999118	FFE 59	4009 Battlefield Dr	292.37	291.00	100	291.78	291.78	291.78	291.78	291.78	291.00	291.78	291.78	291.00
					50	291.75	291.75	291.75	291.75	291.75	291.00	291.75	291.75	291.00
					25	291.71	291.71	291.69	291.71	291.69	291.00	291.69	291.69	291.00
					10	291.62	291.62	291.61	291.62	291.61	291.00	291.61	291.61	291.00
					5	291.49	291.49	291.48	291.49	291.48	291.00	291.48	291.48	291.00
D06_999118	FFE 60	4010 Battlefield Dr	292.51	291.00	100	291.78	291.78	291.78	291.78	291.78	291.00	291.78	291.78	291.00
					50	291.75	291.75	291.75	291.75	291.75	291.00	291.75	291.75	291.00
					25	291.71	291.71	291.69	291.71	291.69	291.00	291.69	291.69	291.00
					10	291.62	291.62	291.61	291.62	291.61	291.00	291.61	291.61	291.00
					5	291.49	291.49	291.48	291.49	291.48	291.00	291.48	291.48	291.00
D06_999117	FFE 61	4035 Longhollow Dr	302.50	292.00	100	292.74	292.74	292.77	292.74	292.77	292.00	292.77	292.77	292.00
					50	292.64	292.64	292.68	292.64	292.68	292.00	292.68	292.68	292.00
					25	292.35	292.35	292.41	292.35	292.41	292.00	292.41	292.41	292.00
					10	292.00	292.00	292.17	292.00	292.17	292.00	292.17	292.17	292.00
					5	292.00	292.00	292.00	292.00	292.00	292.00	292.00	292.00	292.00
					2	292.00	292.00	292.00	292.00	292.00	292.00	292.00	292.00	

**Drainage Master Plan Allen Basin East Study Area
(Watershed D)**

Table 4.2.1

**InfoSWMM Model Frequency Flood Results
(Existing Conditions Vs. Alternatives)**

Junction ID	Location Description	Address / Location	Critical WSEL (FFE or Min. Top of Road) (ft)	Calibration Event 1 (December 22, 2017) WSEL (ft)	Storm Recurrence Interval (yr)	Modeled Water Surface Elev. (ft)								
						EXISTING CONDITIONS	D-9	D-12	D-17	D-19	D-21	D-23	D-29	RECOMMENDED
D06_138	FFE 62	4047 Battlefield Dr	298.15	285.13	100	292.67	292.67	292.67	292.67	292.67	290.52	292.67	292.67	290.97
					50	292.67	292.67	292.67	292.67	292.67	287.19	292.67	292.67	287.98
					25	292.64	292.64	292.64	292.64	292.64	286.05	292.64	292.64	286.11
					10	292.45	292.45	292.43	292.45	292.43	284.95	292.43	292.43	284.96
					5	292.30	292.30	292.27	292.30	292.27	284.34	292.27	292.27	284.34
					2	292.09	292.09	292.06	292.09	292.06	283.78	292.06	292.06	283.78
D06_138	FFE 63	4061 Battlefield Dr	300.79	285.13	100	292.67	292.67	292.67	292.67	292.67	290.52	292.67	292.67	290.97
					50	292.67	292.67	292.67	292.67	292.67	287.19	292.67	292.67	287.98
					25	292.64	292.64	292.64	292.64	292.64	286.05	292.64	292.64	286.11
					10	292.45	292.45	292.43	292.45	292.43	284.95	292.43	292.43	284.96
					5	292.30	292.30	292.27	292.30	292.27	284.34	292.27	292.27	284.34
					2	292.09	292.09	292.06	292.09	292.06	283.78	292.06	292.06	283.78
D03_306	FFE 64	4069 Tessland	305.55	298.43	100	304.00	304.00	304.00	304.00	304.00	304.00	304.00	304.00	304.00
					50	303.66	303.66	303.66	303.66	303.66	303.66	303.66	303.66	303.66
					25	303.29	303.29	303.29	303.29	303.29	303.29	303.29	303.29	303.29
					10	302.76	302.76	302.76	302.76	302.76	302.76	302.76	302.76	302.76
					5	302.34	302.34	302.34	302.34	302.34	302.34	302.34	302.34	302.34
					2	301.56	301.56	301.56	301.56	301.56	301.56	301.56	301.56	301.56
D03_306	FFE 65	4079 Tessland	305.36	298.43	100	304.00	304.00	304.00	304.00	304.00	304.00	304.00	304.00	304.00
					50	303.66	303.66	303.66	303.66	303.66	303.66	303.66	303.66	303.66
					25	303.29	303.29	303.29	303.29	303.29	303.29	303.29	303.29	303.29
					10	302.76	302.76	302.76	302.76	302.76	302.76	302.76	302.76	302.76
					5	302.34	302.34	302.34	302.34	302.34	302.34	302.34	302.34	302.34
					2	301.56	301.56	301.56	301.56	301.56	301.56	301.56	301.56	301.56
D07_999163	FFE 66	3620 Dorado Ave	273.69	272.00	100	273.54	273.54	273.54	273.54	273.54	273.54	272.00	273.54	272.00
					50	273.45	273.45	273.45	273.45	273.45	273.45	272.00	273.45	272.00
					25	273.36	273.36	273.36	273.36	273.36	273.36	272.00	273.36	272.00
					10	273.24	273.24	273.24	273.24	273.24	273.24	272.00	273.24	272.00
					5	273.01	273.01	273.01	273.01	273.01	273.01	272.00	273.01	272.00
					2	272.24	272.24	272.24	272.24	272.24	272.24	272.00	272.24	272.00

**Drainage Master Plan Allen Basin East Study Area
(Watershed D)**

Table 4.2.1

**InfoSWMM Model Frequency Flood Results
(Existing Conditions Vs. Alternatives)**

Junction ID	Location Description	Address / Location	Critical WSEL (FFE or Min. Top of Road) (ft)	Calibration Event 1 (December 22, 2017) WSEL (ft)	Storm Recurrence Interval (yr)	Modeled Water Surface Elev. (ft)									
						EXISTING CONDITIONS	D-9	D-12	D-17	D-19	D-21	D-23	D-29	RECOMMENDED	
D07_241	FFE 67	3685 Windermere Dr	277.46	271.23	100	277.20	277.20	277.20	277.20	277.20	277.20	277.20	275.14	277.20	276.08
					50	277.13	277.13	277.13	277.13	277.13	277.13	277.13	274.21	277.13	274.79
					25	277.04	277.04	277.04	277.04	277.04	277.04	277.04	273.67	277.04	273.79
					10	276.94	276.94	276.94	276.94	276.94	276.94	276.94	272.91	276.94	272.88
					5	276.87	276.87	276.87	276.87	276.87	276.87	276.87	272.37	276.87	272.35
					2	276.68	276.68	276.68	276.68	276.68	276.68	276.68	271.86	276.68	271.84
D07_240	FFE 68	3704 Dove Call Cv	283.24	272.95	100	280.26	280.26	280.26	280.26	280.26	280.26	280.26	277.87	280.26	278.90
					50	280.21	280.21	280.21	280.21	280.21	280.21	280.21	276.52	280.21	277.20
					25	280.14	280.14	280.14	280.14	280.14	280.14	280.14	275.28	280.14	275.63
					10	280.02	280.02	280.02	280.02	280.02	280.02	280.02	273.73	280.02	273.73
					5	279.86	279.86	279.86	279.86	279.86	279.86	279.86	273.55	279.86	273.55
					2	279.24	279.24	279.24	279.24	279.24	279.24	279.24	273.31	279.24	273.31
D07_245	FFE 69	3707 Wolf Trail Dr	268.68	261.78	100	268.56	268.56	268.56	268.55	268.56	268.56	268.56	264.39	268.56	264.88
					50	268.37	268.37	268.37	268.36	268.37	268.37	268.37	263.08	268.37	262.32
					25	268.15	268.15	268.15	268.14	268.15	268.15	268.15	262.45	268.15	262.18
					10	267.74	267.74	267.74	267.73	267.74	267.74	267.74	261.88	267.74	262.00
					5	266.98	266.98	266.98	266.96	266.98	266.98	266.98	261.66	266.99	261.82
					2	266.23	266.23	266.23	266.25	266.23	266.23	266.23	261.21	266.23	261.56
D07_245	FFE 70	3711 Wolf Trail Dr	268.49	261.78	100	268.56	268.56	268.56	268.55	268.56	268.56	268.56	264.39	268.56	264.88
					50	268.37	268.37	268.37	268.36	268.37	268.37	268.37	263.08	268.37	262.32
					25	268.15	268.15	268.15	268.14	268.15	268.15	268.15	262.45	268.15	262.18
					10	267.74	267.74	267.74	267.73	267.74	267.74	267.74	261.88	267.74	262.00
					5	266.98	266.98	266.98	266.96	266.98	266.98	266.98	261.66	266.99	261.82
					2	266.23	266.23	266.23	266.25	266.23	266.23	266.23	261.21	266.23	261.56
D07_245	FFE 71	3712 Wolf Trail Dr	269.06	261.78	100	268.56	268.56	268.56	268.55	268.56	268.56	268.56	264.39	268.56	264.88
					50	268.37	268.37	268.37	268.36	268.37	268.37	268.37	263.08	268.37	262.32
					25	268.15	268.15	268.15	268.14	268.15	268.15	268.15	262.45	268.15	262.18
					10	267.74	267.74	267.74	267.73	267.74	267.74	267.74	261.88	267.74	262.00
					5	266.98	266.98	266.98	266.96	266.98	266.98	266.98	261.66	266.99	261.82
					2	266.23	266.23	266.23	266.25	266.23	266.23	266.23	261.21	266.23	261.56

**Drainage Master Plan Allen Basin East Study Area
(Watershed D)**

Table 4.2.1

**InfoSWMM Model Frequency Flood Results
(Existing Conditions Vs. Alternatives)**

Junction ID	Location Description	Address / Location	Critical WSEL (FFE or Min. Top of Road) (ft)	Calibration Event 1 (December 22, 2017) WSEL (ft)	Storm Recurrence Interval (yr)	Modeled Water Surface Elev. (ft)								
						EXISTING CONDITIONS	D-9	D-12	D-17	D-19	D-21	D-23	D-29	RECOMMENDED
D07_999156	FFE 72	3593 Edgefield Dr	279.09	277.70	100	279.75	279.75	279.71	279.91	279.71	279.71	279.71	277.70	277.70
					50	279.57	279.57	279.53	279.85	279.53	279.53	279.53	277.70	277.70
					25	279.40	279.40	279.36	279.81	279.36	279.36	279.36	277.70	277.70
					10	279.17	279.17	279.14	279.63	279.14	279.14	279.14	277.70	277.70
					5	278.99	278.99	278.95	279.49	278.95	278.95	278.95	277.70	277.70
					2	277.70	277.70	277.70	279.30	277.70	277.70	277.70	277.70	277.70
D07_999156	FFE 73	3599 Edgefield Dr	279.91	277.70	100	279.75	279.75	279.71	279.91	279.71	279.71	279.71	277.70	277.70
					50	279.57	279.57	279.53	279.85	279.53	279.53	279.53	277.70	277.70
					25	279.40	279.40	279.36	279.81	279.36	279.36	279.36	277.70	277.70
					10	279.17	279.17	279.14	279.63	279.14	279.14	279.14	277.70	277.70
					5	278.99	278.99	278.95	279.49	278.95	278.95	278.95	277.70	277.70
					2	277.70	277.70	277.70	279.30	277.70	277.70	277.70	277.70	277.70
D07_233	FFE 74	3707 Southridge Av	284.67	278.37	100	284.89	284.89	284.87	284.88	284.87	284.87	284.87	282.89	283.02
					50	284.79	284.79	284.77	284.78	284.77	284.77	284.77	280.60	280.59
					25	284.68	284.68	284.66	284.68	284.66	284.66	284.66	279.94	279.94
					10	284.53	284.53	284.51	284.53	284.51	284.51	284.51	279.45	279.47
					5	284.40	284.40	284.37	284.40	284.37	284.37	284.37	279.18	279.18
					2	283.25	283.25	282.72	284.19	282.72	282.72	282.72	279.01	278.81
D04_9053	FFE 75	3437 Elk Point Dr	243.28	235.21	100	243.06	243.06	243.06	243.06	243.06	243.06	243.06	243.06	243.06
					50	242.83	242.83	242.83	242.83	242.83	242.83	242.83	242.83	242.83
					25	242.58	242.58	242.58	242.58	242.58	242.58	242.58	242.58	242.58
					10	242.23	242.23	242.23	242.23	242.23	242.23	242.23	242.23	242.23
					5	241.89	241.89	241.89	241.89	241.89	241.89	241.89	241.89	241.89
					2	241.66	241.72	241.59	241.59	241.59	241.66	241.59	241.74	241.67
D04_9138	FFE 76	4550 Spring Glen Dr	255.73	250.06	100	255.43	255.43	255.43	255.43	255.43	255.43	255.43	255.43	255.43
					50	255.28	255.28	255.28	255.28	255.28	255.28	255.28	255.28	255.28
					25	255.12	255.12	255.12	255.12	255.12	255.12	255.12	255.12	255.12
					10	254.87	254.87	254.87	254.87	254.87	254.87	254.87	254.87	254.87
					5	254.65	254.65	254.65	254.65	254.65	254.65	254.65	254.65	254.65
					2	254.48	254.48	254.48	254.48	254.48	254.48	254.48	254.48	254.48

**Drainage Master Plan Allen Basin East Study Area
(Watershed D)**

Table 4.2.1

**InfoSWMM Model Frequency Flood Results
(Existing Conditions Vs. Alternatives)**

Junction ID	Location Description	Address / Location	Critical WSEL (FFE or Min. Top of Road) (ft)	Calibration Event 1 (December 22, 2017) WSEL (ft)	Storm Recurrence Interval (yr)	Modeled Water Surface Elev. (ft)									
						EXISTING CONDITIONS	D-9	D-12	D-17	D-19	D-21	D-23	D-29	RECOMMENDED	
D05_999177	FFE 77	3357 Bradcrest Dr	262.59	262.00	100	262.86	262.86	262.86	262.86	262.86	262.86	262.86	262.86	262.86	
					50	262.81	262.81	262.81	262.81	262.81	262.81	262.81	262.81	262.81	
					25	262.77	262.77	262.77	262.77	262.77	262.77	262.77	262.77	262.77	
					10	262.70	262.70	262.70	262.70	262.70	262.70	262.70	262.70	262.70	
					5	262.65	262.65	262.65	262.65	262.65	262.65	262.65	262.65	262.65	
					2	262.48	262.48	262.48	262.48	262.48	262.48	262.48	262.48	262.48	
D05_999176	FFE 78	3395 Brockcrest Cv	255.26	251.80	100	253.37	253.37	253.38	253.38	253.37	253.37	253.37	253.38	253.37	
					50	253.36	253.36	253.36	253.36	253.36	253.36	253.36	253.36	253.36	253.36
					25	252.69	252.69	252.69	252.69	252.69	252.69	252.69	252.69	252.69	252.69
					10	252.47	252.47	252.47	252.47	252.47	252.47	252.47	252.47	252.47	252.47
					5	252.43	252.43	252.43	252.43	252.43	252.43	252.43	252.43	252.43	252.43
					2	252.38	252.38	252.38	252.38	252.38	252.38	252.38	252.38	252.38	252.38
D05_999176	FFE 79	3403 Brockcrest Cv	254.23	251.80	100	253.37	253.37	253.38	253.38	253.37	253.37	253.37	253.38	253.37	
					50	253.36	253.36	253.36	253.36	253.36	253.36	253.36	253.36	253.36	253.36
					25	252.69	252.69	252.69	252.69	252.69	252.69	252.69	252.69	252.69	252.69
					10	252.47	252.47	252.47	252.47	252.47	252.47	252.47	252.47	252.47	252.47
					5	252.43	252.43	252.43	252.43	252.43	252.43	252.43	252.43	252.43	252.43
					2	252.38	252.38	252.38	252.38	252.38	252.38	252.38	252.38	252.38	252.38
D05_9588	FFE 80	3410 Brockcrest Cv	252.51	246.46	100	251.33	251.33	251.33	251.33	251.33	251.33	251.33	251.33	251.33	
					50	251.26	251.26	251.27	251.26	251.27	251.27	251.27	251.27	251.27	251.26
					25	251.18	251.18	251.18	251.18	251.18	251.18	251.18	251.18	251.18	251.18
					10	250.98	250.98	250.98	250.98	250.98	250.98	250.98	250.98	250.98	250.98
					5	250.67	250.67	250.67	250.67	250.67	250.67	250.67	250.67	250.67	250.67
					2	250.30	250.30	250.30	250.30	250.30	250.30	250.30	250.30	250.30	250.30
D05_999177	FFE 81	4370 Old Allen Rd	266.25	262.00	100	262.86	262.86	262.86	262.86	262.86	262.86	262.86	262.86	262.86	
					50	262.81	262.81	262.81	262.81	262.81	262.81	262.81	262.81	262.81	
					25	262.77	262.77	262.77	262.77	262.77	262.77	262.77	262.77	262.77	
					10	262.70	262.70	262.70	262.70	262.70	262.70	262.70	262.70	262.70	
					5	262.65	262.65	262.65	262.65	262.65	262.65	262.65	262.65	262.65	
					2	262.48	262.48	262.48	262.48	262.48	262.48	262.48	262.48	262.48	

**Drainage Master Plan Allen Basin East Study Area
(Watershed D)**

Table 4.2.1

**InfoSWMM Model Frequency Flood Results
(Existing Conditions Vs. Alternatives)**

Junction ID	Location Description	Address / Location	Critical WSEL (FFE or Min. Top of Road) (ft)	Calibration Event 1 (December 22, 2017) WSEL (ft)	Storm Recurrence Interval (yr)	Modeled Water Surface Elev. (ft)								
						EXISTING CONDITIONS	D-9	D-12	D-17	D-19	D-21	D-23	D-29	RECOMMENDED
D05_9588	FFE 82	4427 Brockcrest	252.62	246.46	100	251.33	251.33	251.33	251.33	251.33	251.33	251.33	251.33	251.33
					50	251.26	251.26	251.27	251.26	251.27	251.27	251.27	251.27	251.27
					25	251.18	251.18	251.18	251.18	251.18	251.18	251.18	251.18	251.18
					10	250.98	250.98	250.98	250.98	250.98	250.98	250.98	250.98	250.98
					5	250.67	250.67	250.67	250.67	250.67	250.67	250.67	250.67	250.67
					2	250.30	250.30	250.30	250.30	250.30	250.30	250.30	250.30	250.30
D00_9761	FFE 83	3469 Ridgemont	246.33	239.72	100	243.07	243.07	243.07	243.07	243.07	243.07	243.07	243.07	243.07
					50	243.04	243.04	243.04	243.04	243.04	243.04	243.04	243.04	243.04
					25	243.00	243.00	243.00	243.00	243.00	243.00	243.00	243.00	243.00
					10	242.93	242.93	242.93	242.93	242.93	242.93	242.93	242.93	242.93
					5	242.88	242.88	242.88	242.88	242.88	242.88	242.88	242.88	242.88
					2	241.52	241.52	241.52	241.52	241.52	241.52	241.52	241.52	241.52
D00_9759	FFE 84	3494 Ridgemont	242.57	236.76	100	240.34	240.34	240.34	240.34	240.34	240.34	240.34	240.34	240.34
					50	240.29	240.29	240.30	240.29	240.29	240.29	240.29	240.29	240.30
					25	240.24	240.24	240.24	240.24	240.24	240.24	240.24	240.24	240.24
					10	240.19	240.19	240.19	240.19	240.19	240.19	240.19	240.19	240.19
					5	240.05	240.05	240.03	240.05	240.05	240.05	240.05	240.05	240.03
					2	238.70	238.70	238.70	238.70	238.70	238.70	238.70	238.70	238.70
D00_9761	FFE 85	4266 Ridgestone Rd	243.31	239.72	100	243.07	243.07	243.07	243.07	243.07	243.07	243.07	243.07	243.07
					50	243.04	243.04	243.04	243.04	243.04	243.04	243.04	243.04	243.04
					25	243.00	243.00	243.00	243.00	243.00	243.00	243.00	243.00	243.00
					10	242.93	242.93	242.93	242.93	242.93	242.93	242.93	242.93	242.93
					5	242.88	242.88	242.88	242.88	242.88	242.88	242.88	242.88	242.88
					2	241.52	241.52	241.52	241.52	241.52	241.52	241.52	241.52	241.52
D00_9761	FFE 86	4266 Ridgestone Rd	243.76	239.72	100	243.07	243.07	243.07	243.07	243.07	243.07	243.07	243.07	243.07
					50	243.04	243.04	243.04	243.04	243.04	243.04	243.04	243.04	243.04
					25	243.00	243.00	243.00	243.00	243.00	243.00	243.00	243.00	243.00
					10	242.93	242.93	242.93	242.93	242.93	242.93	242.93	242.93	242.93
					5	242.88	242.88	242.88	242.88	242.88	242.88	242.88	242.88	242.88
					2	241.52	241.52	241.52	241.52	241.52	241.52	241.52	241.52	241.52

**Drainage Master Plan Allen Basin East Study Area
(Watershed D)**

**Table 4.2.1
InfoSWMM Model Frequency Flood Results
(Existing Conditions Vs. Alternatives)**

Junction ID	Location Description	Address / Location	Critical WSEL (FFE or Min. Top of Road) (ft)	Calibration Event 1 (December 22, 2017) WSEL (ft)	Storm Recurrence Interval (yr)	Modeled Water Surface Elev. (ft)								
						EXISTING CONDITIONS	D-9	D-12	D-17	D-19	D-21	D-23	D-29	RECOMMENDED
D00_9761	FFE 87	4318 Shadcrest Cv	246.10	239.72	100	243.07	243.07	243.07	243.07	243.07	243.07	243.07	243.07	243.07
					50	243.04	243.04	243.04	243.04	243.04	243.04	243.04	243.04	243.04
					25	243.00	243.00	243.00	243.00	243.00	243.00	243.00	243.00	243.00
					10	242.93	242.93	242.93	242.93	242.93	242.93	242.93	242.93	242.93
					5	242.88	242.88	242.88	242.88	242.88	242.88	242.88	242.88	242.88
					2	241.52	241.52	241.52	241.52	241.52	241.52	241.52	241.52	241.52
D08_999103	FFE 88	3426 Gladstone Cv	250.09	249.70	100	250.31	250.31	250.31	250.31	250.31	250.31	250.31	250.31	250.31
					50	250.27	250.27	250.27	250.27	250.27	250.27	250.27	250.27	250.27
					25	250.22	250.22	250.22	250.22	250.22	250.22	250.22	250.22	250.22
					10	250.11	250.11	250.11	250.12	250.11	250.12	250.11	250.12	250.12
					5	249.70	249.70	249.70	249.70	249.70	249.70	249.70	249.70	249.70
					2	249.70	249.70	249.70	249.70	249.70	249.70	249.70	249.70	249.70
D08_999102	FFE 89	4254 Old Allen	258.89	257.70	100	258.83	258.83	258.83	258.83	258.83	258.83	258.83	258.83	258.83
					50	258.80	258.80	258.79	258.79	258.79	258.79	258.79	258.79	258.80
					25	258.72	258.72	258.72	258.72	258.72	258.72	258.72	258.72	258.72
					10	258.59	258.59	258.58	258.58	258.58	258.58	258.58	258.58	258.59
					5	258.45	258.45	258.45	258.45	258.45	258.45	258.45	258.45	258.45
					2	258.28	258.28	258.28	258.28	258.28	258.28	258.28	258.28	258.28
D08_999102	FFE 90	4266 Old Allen	259.35	257.70	100	258.83	258.83	258.83	258.83	258.83	258.83	258.83	258.83	258.83
					50	258.80	258.80	258.79	258.79	258.79	258.79	258.79	258.79	258.80
					25	258.72	258.72	258.72	258.72	258.72	258.72	258.72	258.72	258.72
					10	258.59	258.59	258.58	258.58	258.58	258.58	258.58	258.58	258.59
					5	258.45	258.45	258.45	258.45	258.45	258.45	258.45	258.45	258.45
					2	258.28	258.28	258.28	258.28	258.28	258.28	258.28	258.28	258.28
D08_9914	FFE 91	4301 Old Allen Rd	274.38	268.19	100	274.10	274.09	274.21	274.09	274.09	274.09	274.10	274.10	274.15
					50	274.03	274.03	274.03	274.03	274.03	274.03	274.03	274.03	274.03
					25	273.95	273.95	273.95	273.95	273.95	273.95	273.95	273.95	273.95
					10	273.82	273.82	273.82	273.82	273.82	273.82	273.83	273.82	273.82
					5	273.02	273.02	273.02	273.02	273.02	273.02	273.02	273.02	273.02
					2	269.80	269.80	269.80	269.80	269.80	269.80	269.80	269.80	269.80

**Drainage Master Plan Allen Basin East Study Area
(Watershed D)**

Table 4.2.1

**InfoSWMM Model Frequency Flood Results
(Existing Conditions Vs. Alternatives)**

Junction ID	Location Description	Address / Location	Critical WSEL (FFE or Min. Top of Road) (ft)	Calibration Event 1 (December 22, 2017) WSEL (ft)	Storm Recurrence Interval (yr)	Modeled Water Surface Elev. (ft)									
						EXISTING CONDITIONS	D-9	D-12	D-17	D-19	D-21	D-23	D-29	RECOMMENDED	
D10_999033	FFE 92	2915 Gruber Dr	296.23	291.15	100	293.37	293.60	293.37	293.37	293.37	293.37	293.37	293.37	292.77	
					50	293.31	292.19	293.31	293.30	293.31	293.31	293.31	293.31	293.31	292.19
					25	293.17	291.45	293.19	293.17	293.19	293.20	293.20	293.19	293.19	291.45
					10	292.94	291.15	293.00	292.96	292.97	292.95	292.98	292.96	292.96	291.15
					5	292.72	291.15	292.71	292.72	292.72	292.71	292.71	292.72	292.72	291.15
					2	291.95	291.15	291.95	291.95	291.95	291.95	291.95	291.95	291.95	291.15
D10_999033	FFE 93	2921 Gruber Dr	295.40	291.15	100	293.37	293.60	293.37	293.37	293.37	293.37	293.37	293.37	292.77	
					50	293.31	292.19	293.31	293.30	293.31	293.31	293.31	293.31	293.31	292.19
					25	293.17	291.45	293.19	293.17	293.19	293.20	293.20	293.19	293.19	291.45
					10	292.94	291.15	293.00	292.96	292.97	292.95	292.98	292.96	292.96	291.15
					5	292.72	291.15	292.71	292.72	292.72	292.71	292.71	292.72	292.72	291.15
					2	291.95	291.15	291.95	291.95	291.95	291.95	291.95	291.95	291.95	291.15
D10_1062	FFE 94	3888 Point Church	291.96	289.02	100	293.51	293.51	293.51	293.51	293.51	293.51	293.51	293.51	292.97	
					50	293.51	292.16	293.51	293.51	293.51	293.51	293.51	293.51	293.51	292.16
					25	293.51	290.92	293.51	293.51	293.51	293.51	293.51	293.51	293.51	290.92
					10	293.51	288.51	293.51	293.51	293.51	293.51	293.51	293.51	293.51	288.51
					5	293.51	288.46	293.51	293.51	293.51	293.51	293.51	293.51	293.51	288.46
					2	291.96	288.38	291.96	291.95	291.96	291.95	291.95	291.95	291.96	288.38
D10_30621	FFE 95	3907 Ajanders Dr	281.42	275.12	100	280.48	280.01	280.48	280.48	280.47	280.47	280.47	280.47	280.00	
					50	280.38	279.84	280.38	280.37	280.38	280.37	280.37	280.37	280.37	279.84
					25	280.26	279.67	280.27	280.26	280.27	280.27	280.27	280.27	280.27	279.67
					10	280.10	278.48	280.11	280.10	280.10	280.10	280.10	280.10	280.10	278.48
					5	279.94	277.26	279.94	279.94	279.94	279.94	279.94	279.94	279.94	277.26
					2	279.72	275.80	279.71	279.71	279.71	279.71	279.71	279.71	279.71	275.80
D10_30621	FFE 96	3911 Ajanders Dr	281.63	275.12	100	280.48	280.01	280.48	280.48	280.47	280.47	280.47	280.47	280.00	
					50	280.38	279.84	280.38	280.37	280.38	280.37	280.37	280.37	280.37	279.84
					25	280.26	279.67	280.27	280.26	280.27	280.27	280.27	280.27	280.27	279.67
					10	280.10	278.48	280.11	280.10	280.10	280.10	280.10	280.10	280.10	278.48
					5	279.94	277.26	279.94	279.94	279.94	279.94	279.94	279.94	279.94	277.26
					2	279.72	275.80	279.71	279.71	279.71	279.71	279.71	279.71	279.71	275.80

**Drainage Master Plan Allen Basin East Study Area
(Watershed D)**

**Table 4.2.1
InfoSWMM Model Frequency Flood Results
(Existing Conditions Vs. Alternatives)**

Junction ID	Location Description	Address / Location	Critical WSEL (FFE or Min. Top of Road) (ft)	Calibration Event 1 (December 22, 2017) WSEL (ft)	Storm Recurrence Interval (yr)	Modeled Water Surface Elev. (ft)								
						EXISTING CONDITIONS	D-9	D-12	D-17	D-19	D-21	D-23	D-29	RECOMMENDED
D10_999177	FFE 97	3921 Gruber Cv	285.58	285.00	100	285.94	285.74	285.94	285.94	285.92	285.92	285.92	285.94	285.42
					50	285.84	285.14	285.83	285.83	285.83	285.82	285.82	285.83	285.14
					25	285.69	285.00	285.72	285.69	285.71	285.72	285.72	285.71	285.00
					10	285.50	285.00	285.54	285.51	285.51	285.50	285.52	285.51	285.00
					5	285.32	285.00	285.32	285.32	285.32	285.32	285.32	285.32	285.00
					2	285.00	285.00	285.00	285.00	285.00	285.00	285.00	285.00	285.00
D10_1054	FFE 98	3924 Gruber Cv	286.30	279.38	100	282.93	282.65	282.92	282.92	282.90	282.90	282.90	282.91	282.41
					50	282.83	282.18	282.81	282.82	282.82	282.81	282.81	282.82	282.18
					25	282.70	282.09	282.71	282.70	282.71	282.71	282.71	282.71	282.09
					10	282.54	281.08	282.56	282.54	282.54	282.53	282.54	282.54	281.08
					5	282.39	280.24	282.37	282.37	282.37	282.37	282.37	282.37	280.24
					2	282.19	280.01	282.17	282.17	282.17	282.17	282.17	282.17	280.01
D04_9053	Roadway Section 11	Elk Point Dr at Pembine Dr	241.61	235.21	100	243.06	243.06	243.06	243.06	243.06	243.06	243.06	243.06	243.06
					50	242.83	242.83	242.83	242.83	242.83	242.83	242.83	242.83	242.83
					25	242.58	242.58	242.58	242.58	242.58	242.58	242.58	242.58	242.58
					10	242.23	242.23	242.23	242.23	242.23	242.23	242.23	242.23	242.23
					5	241.89	241.89	241.89	241.89	241.89	241.89	241.89	241.89	241.89
					2	241.66	241.72	241.59	241.59	241.59	241.66	241.59	241.74	241.67
D04_11942	Roadway Section 12	Elk Point Dr at Pembine Dr	242.25	239.09	100	242.65	242.65	242.63	242.92	242.64	242.67	242.63	242.79	242.65
					50	242.58	242.69	242.68	242.58	242.68	242.68	242.68	242.68	242.69
					25	242.48	242.48	242.55	242.46	242.56	242.56	242.55	242.56	242.46
					10	242.35	242.35	242.35	242.35	242.34	242.36	242.36	242.36	242.35
					5	242.27	242.27	242.27	242.28	242.27	242.28	242.27	242.28	242.28
					2	242.11	242.11	242.11	242.11	242.11	242.11	242.11	242.11	242.11
D04_999175	Roadway Section 13	Elk Point Dr at Redcliff Dr	245.40	244.90	100	245.85	245.85	245.85	245.85	245.85	245.85	245.85	245.85	245.85
					50	245.77	245.77	245.77	245.77	245.77	245.77	245.77	245.77	245.77
					25	245.68	245.68	245.68	245.68	245.68	245.68	245.68	245.68	245.68
					10	245.55	245.55	245.55	245.55	245.55	245.55	245.55	245.55	245.55
					5	245.41	245.41	245.41	245.41	245.41	245.41	245.41	245.41	245.41
					2	245.16	245.16	245.16	245.16	245.16	245.16	245.16	245.15	245.16

**Drainage Master Plan Allen Basin East Study Area
(Watershed D)**

Table 4.2.1

**InfoSWMM Model Frequency Flood Results
(Existing Conditions Vs. Alternatives)**

Junction ID	Location Description	Address / Location	Critical WSEL (FFE or Min. Top of Road) (ft)	Calibration Event 1 (December 22, 2017) WSEL (ft)	Storm Recurrence Interval (yr)	Modeled Water Surface Elev. (ft)								
						EXISTING CONDITIONS	D-9	D-12	D-17	D-19	D-21	D-23	D-29	RECOMMENDED
D04_999174	Roadway Section 14	Elk Point Dr at Spring Glenn Dr	252.80	252.30	100	253.05	253.05	253.05	253.05	253.05	253.05	253.05	253.05	253.05
					50	252.74	252.74	252.74	252.74	252.74	252.74	252.74	252.74	252.74
					25	252.69	252.69	252.69	252.69	252.69	252.69	252.69	252.69	252.69
					10	252.62	252.62	252.62	252.62	252.62	252.62	252.62	252.62	252.62
					5	252.55	252.55	252.55	252.55	252.55	252.55	252.55	252.55	252.55
					2	252.47	252.47	252.47	252.47	252.47	252.47	252.47	252.47	252.47
D04_999173	Roadway Section 15	Elk Point Dr at Spring Valley Dr	264.30	263.80	100	264.67	264.67	264.67	264.67	264.67	264.67	264.67	264.67	264.67
					50	264.62	264.62	264.62	264.62	264.62	264.62	264.62	264.62	264.62
					25	264.57	264.57	264.57	264.57	264.57	264.57	264.57	264.57	264.57
					10	264.48	264.48	264.48	264.48	264.48	264.48	264.48	264.48	264.48
					5	264.38	264.38	264.38	264.38	264.38	264.38	264.38	264.38	264.38
					2	264.25	264.25	264.25	264.25	264.25	264.25	264.25	264.25	264.25
D04_11941	Roadway Section 16	Pembine Dr	242.31	239.35	100	242.74	242.74	242.73	242.98	242.73	242.74	242.75	242.72	242.72
					50	242.62	242.65	242.75	242.62	242.75	242.74	242.76	242.74	242.74
					25	242.51	242.51	242.55	242.50	242.56	242.55	242.55	242.55	242.55
					10	242.37	242.37	242.40	242.37	242.39	242.39	242.37	242.39	242.37
					5	242.28	242.28	242.28	242.28	242.28	242.28	242.28	242.28	242.28
					2	242.07	242.07	242.07	242.07	242.07	242.07	242.07	242.07	242.07
D04_9163	Roadway Section 17	Spring Glen Dr	253.69	250.54	100	251.87	251.87	251.87	251.87	251.86	251.86	251.87	251.87	251.86
					50	251.61	251.61	251.61	251.61	251.61	251.61	251.61	251.61	251.61
					25	251.34	251.34	251.34	251.34	251.34	251.34	251.34	251.34	251.34
					10	250.94	250.94	250.94	250.94	250.94	250.94	250.94	250.94	250.94
					5	250.74	250.75	250.74	250.76	250.76	250.75	250.75	250.75	250.74
					2	250.67	250.67	250.67	250.67	250.67	250.67	250.67	250.67	250.67
D04_9138	Roadway Section 18	Spring Glen Dr	254.77	250.06	100	255.43	255.43	255.43	255.43	255.43	255.43	255.43	255.43	255.43
					50	255.28	255.28	255.28	255.28	255.28	255.28	255.28	255.28	255.28
					25	255.12	255.12	255.12	255.12	255.12	255.12	255.12	255.12	255.12
					10	254.87	254.87	254.87	254.87	254.87	254.87	254.87	254.87	254.87
					5	254.65	254.65	254.65	254.65	254.65	254.65	254.65	254.65	254.65
					2	254.48	254.48	254.48	254.48	254.48	254.48	254.48	254.48	254.48

**Drainage Master Plan Allen Basin East Study Area
(Watershed D)**

Table 4.2.1

**InfoSWMM Model Frequency Flood Results
(Existing Conditions Vs. Alternatives)**

Junction ID	Location Description	Address / Location	Critical WSEL (FFE or Min. Top of Road) (ft)	Calibration Event 1 (December 22, 2017) WSEL (ft)	Storm Recurrence Interval (yr)	Modeled Water Surface Elev. (ft)								
						EXISTING CONDITIONS	D-9	D-12	D-17	D-19	D-21	D-23	D-29	RECOMMENDED
D04_9176	Roadway Section 19	Spring Valley Dr	264.33	260.73	100	265.10	265.10	265.10	265.10	265.10	265.10	265.10	265.10	265.10
					50	265.03	265.03	265.03	265.03	265.03	265.03	265.03	265.03	265.03
					25	264.95	264.95	264.95	264.95	264.95	264.95	264.95	264.95	264.95
					10	264.83	264.83	264.83	264.83	264.83	264.83	264.83	264.83	264.83
					5	264.72	264.72	264.72	264.72	264.72	264.72	264.72	264.72	264.72
					2	264.56	264.56	264.56	264.56	264.56	264.56	264.56	264.56	264.56
D05_9503	Roadway Section 20	Bradcrest Dr	258.40	253.43	100	259.17	259.17	259.17	259.17	259.17	259.17	259.17	259.17	259.17
					50	259.12	259.12	259.12	259.12	259.12	259.12	259.12	259.12	259.12
					25	259.04	259.04	259.04	259.04	259.04	259.04	259.04	259.04	259.04
					10	258.94	258.94	258.94	258.94	258.94	258.94	258.94	258.94	258.94
					5	258.88	258.88	258.88	258.88	258.88	258.88	258.88	258.88	258.88
					2	258.54	258.54	258.54	258.54	258.54	258.54	258.54	258.54	258.54
D05_999177	Roadway Section 21	Bradcrest Dr	267.77	262.00	100	262.86	262.86	262.86	262.86	262.86	262.86	262.86	262.86	262.86
					50	262.81	262.81	262.81	262.81	262.81	262.81	262.81	262.81	262.81
					25	262.77	262.77	262.77	262.77	262.77	262.77	262.77	262.77	262.77
					10	262.70	262.70	262.70	262.70	262.70	262.70	262.70	262.70	262.70
					5	262.65	262.65	262.65	262.65	262.65	262.65	262.65	262.65	262.65
					2	262.48	262.48	262.48	262.48	262.48	262.48	262.48	262.48	262.48
D05_999174	Roadway Section 22	Bradcrest Dr	256.50	256.00	100	256.72	256.72	256.72	256.72	256.72	256.72	256.72	256.72	256.72
					50	256.67	256.67	256.67	256.67	256.67	256.67	256.67	256.67	256.67
					25	256.61	256.61	256.61	256.61	256.61	256.61	256.61	256.61	256.61
					10	256.53	256.53	256.53	256.53	256.53	256.53	256.53	256.53	256.53
					5	256.43	256.43	256.43	256.43	256.43	256.43	256.43	256.43	256.43
					2	256.21	256.21	256.21	256.21	256.21	256.21	256.21	256.21	256.21
D05_9584	Roadway Section 23	Brockcrest Cv	251.66	248.25	100	253.34	253.34	253.34	253.34	253.34	253.34	253.34	253.34	253.34
					50	253.34	253.34	253.34	253.34	253.34	253.34	253.34	253.34	253.34
					25	252.69	252.69	252.69	252.69	252.69	252.69	252.69	252.69	252.69
					10	252.24	252.24	252.24	252.24	252.24	252.24	252.24	252.24	252.24
					5	251.98	251.98	251.98	251.98	251.98	251.98	251.98	251.98	251.98
					2	251.75	251.75	251.75	251.75	251.75	251.75	251.75	251.75	251.75

**Drainage Master Plan Allen Basin East Study Area
(Watershed D)**

Table 4.2.1

**InfoSWMM Model Frequency Flood Results
(Existing Conditions Vs. Alternatives)**

Junction ID	Location Description	Address / Location	Critical WSEL (FFE or Min. Top of Road) (ft)	Calibration Event 1 (December 22, 2017) WSEL (ft)	Storm Recurrence Interval (yr)	Modeled Water Surface Elev. (ft)								
						EXISTING CONDITIONS	D-9	D-12	D-17	D-19	D-21	D-23	D-29	RECOMMENDED
D05_9546	Roadway Section 24	Brockcrest Cv	254.54	253.13	100	254.64	254.64	254.64	254.64	254.64	254.64	254.64	254.64	254.64
					50	254.63	254.63	254.63	254.63	254.63	254.63	254.63	254.63	254.63
					25	254.62	254.62	254.62	254.62	254.62	254.62	254.62	254.62	254.62
					10	254.54	254.54	254.54	254.54	254.54	254.54	254.54	254.54	254.54
					5	254.47	254.47	254.47	254.47	254.47	254.47	254.47	254.47	254.47
					2	254.28	254.28	254.28	254.28	254.28	254.28	254.28	254.28	254.28
D05_9586	Roadway Section 25	Brockcrest St	249.83	245.46	100	250.91	250.92	250.93	250.91	250.93	250.92	250.91	250.93	250.93
					50	250.88	250.87	250.86	250.88	250.85	250.85	250.86	250.85	250.87
					25	250.81	250.81	250.81	250.81	250.82	250.82	250.82	250.82	250.80
					10	250.67	250.67	250.68	250.67	250.67	250.68	250.67	250.68	250.67
					5	250.46	250.46	250.46	250.46	250.46	250.46	250.47	250.46	250.46
					2	250.20	250.20	250.20	250.20	250.20	250.20	250.20	250.20	250.20
D05_999174	Roadway Section 26	Brockcrest St	256.50	256.00	100	256.72	256.72	256.72	256.72	256.72	256.72	256.72	256.72	256.72
					50	256.67	256.67	256.67	256.67	256.67	256.67	256.67	256.67	256.67
					25	256.61	256.61	256.61	256.61	256.61	256.61	256.61	256.61	256.61
					10	256.53	256.53	256.53	256.53	256.53	256.53	256.53	256.53	256.53
					5	256.43	256.43	256.43	256.43	256.43	256.43	256.43	256.43	256.43
					2	256.21	256.21	256.21	256.21	256.21	256.21	256.21	256.21	256.21
D05_9482	Roadway Section 27	Old Allen Rd	267.07	263.24	100	267.42	267.42	267.42	267.42	267.42	267.42	267.42	267.42	267.42
					50	267.38	267.38	267.38	267.38	267.38	267.38	267.38	267.38	267.38
					25	267.34	267.34	267.34	267.34	267.34	267.34	267.34	267.34	267.34
					10	267.23	267.23	267.23	267.23	267.23	267.23	267.23	267.23	267.23
					5	267.18	267.18	267.18	267.18	267.18	267.18	267.18	267.18	267.18
					2	267.05	267.05	267.05	267.05	267.05	267.05	267.05	267.05	267.05
D00_20001	Roadway Section 28	New Allen Rd	240.40	235.51	100	239.81	239.81	239.81	239.81	239.81	239.81	239.81	239.81	239.81
					50	239.81	239.81	239.81	239.81	239.81	239.81	239.81	239.81	
					25	239.81	238.91	238.93	239.81	239.81	239.71	239.64	239.02	239.81
					10	237.63	237.64	237.79	237.63	237.63	237.63	237.61	237.63	237.79
					5	236.97	236.97	236.96	236.97	236.97	236.97	236.97	236.97	236.95
					2	236.65	236.65	236.65	236.65	236.65	236.65	236.65	236.65	236.65

**Drainage Master Plan Allen Basin East Study Area
(Watershed D)**

Table 4.2.1

**InfoSWMM Model Frequency Flood Results
(Existing Conditions Vs. Alternatives)**

Junction ID	Location Description	Address / Location	Critical WSEL (FFE or Min. Top of Road) (ft)	Calibration Event 1 (December 22, 2017) WSEL (ft)	Storm Recurrence Interval (yr)	Modeled Water Surface Elev. (ft)								
						EXISTING CONDITIONS	D-9	D-12	D-17	D-19	D-21	D-23	D-29	RECOMMENDED
D00_9759	Roadway Section 29	New Allen Rd	240.11	236.76	100	240.34	240.34	240.34	240.34	240.34	240.34	240.34	240.34	240.34
					50	240.29	240.29	240.30	240.29	240.29	240.29	240.29	240.29	240.29
					25	240.24	240.24	240.24	240.24	240.24	240.24	240.24	240.24	240.24
					10	240.19	240.19	240.19	240.19	240.19	240.19	240.19	240.19	240.19
					5	240.05	240.05	240.03	240.05	240.05	240.05	240.05	240.05	240.05
					2	238.70	238.70	238.70	238.70	238.70	238.70	238.70	238.70	238.70
D00_9761	Roadway Section 30	Ridgestone Dr	241.51	239.72	100	243.07	243.07	243.07	243.07	243.07	243.07	243.07	243.07	243.07
					50	243.04	243.04	243.04	243.04	243.04	243.04	243.04	243.04	243.04
					25	243.00	243.00	243.00	243.00	243.00	243.00	243.00	243.00	243.00
					10	242.93	242.93	242.93	242.93	242.93	242.93	242.93	242.93	242.93
					5	242.88	242.88	242.88	242.88	242.88	242.88	242.88	242.88	242.88
					2	241.52	241.52	241.52	241.52	241.52	241.52	241.52	241.52	241.52
D08_9848	Roadway Section 31	Gladstone Cv	247.54	242.43	100	250.77	250.77	250.78	250.78	250.78	250.78	250.78	250.78	250.78
					50	250.64	250.64	250.64	250.64	250.64	250.64	250.64	250.64	250.64
					25	250.56	250.56	250.56	250.56	250.56	250.56	250.56	250.56	250.56
					10	250.37	250.37	250.37	250.38	250.38	250.38	250.37	250.38	250.38
					5	249.65	249.61	249.63	249.63	249.62	249.62	249.61	249.62	249.64
					2	248.02	248.02	248.01	248.01	248.01	248.01	248.01	248.01	248.01
D08_999107	Roadway Section 32	Gladstone Cv	248.30	247.80	100	250.78	250.78	250.78	250.78	250.78	250.78	250.78	250.78	250.78
					50	250.65	250.65	250.65	250.65	250.65	250.65	250.65	250.65	250.65
					25	250.57	250.57	250.57	250.57	250.57	250.57	250.57	250.57	250.57
					10	250.38	250.38	250.38	250.39	250.38	250.38	250.38	250.38	250.39
					5	249.66	249.62	249.64	249.64	249.62	249.62	249.62	249.62	249.64
					2	248.50	248.50	248.50	248.50	248.50	248.50	248.50	248.50	248.50
D08_9852	Roadway Section 33	Gladstone St	249.88	246.42	100	250.55	250.55	250.55	250.55	250.55	250.55	250.55	250.55	250.55
					50	250.55	250.55	250.55	250.55	250.55	250.55	250.55	250.55	250.55
					25	250.55	250.55	250.55	250.55	250.55	250.55	250.55	250.55	250.55
					10	250.42	250.42	250.42	250.43	250.43	250.43	250.42	250.42	250.43
					5	249.98	249.98	249.98	249.98	249.98	249.98	249.98	249.98	249.98
					2	249.80	249.80	249.80	249.80	249.80	249.80	249.80	249.80	249.80

**Drainage Master Plan Allen Basin East Study Area
(Watershed D)**

Table 4.2.1

**InfoSWMM Model Frequency Flood Results
(Existing Conditions Vs. Alternatives)**

Junction ID	Location Description	Address / Location	Critical WSEL (FFE or Min. Top of Road) (ft)	Calibration Event 1 (December 22, 2017) WSEL (ft)	Storm Recurrence Interval (yr)	Modeled Water Surface Elev. (ft)									
						EXISTING CONDITIONS	D-9	D-12	D-17	D-19	D-21	D-23	D-29	RECOMMENDED	
D08_9854	Roadway Section 34	Gladstone St	248.76	246.39	100	250.80	250.80	250.80	250.80	250.80	250.80	250.80	250.80	250.80	
					50	250.66	250.66	250.67	250.67	250.67	250.67	250.67	250.67	250.67	
					25	250.58	250.58	250.58	250.58	250.58	250.58	250.58	250.58	250.58	
					10	250.38	250.38	250.39	250.39	250.39	250.39	250.39	250.39	250.39	
					5	249.66	249.62	249.64	249.64	249.62	249.63	249.62	249.62	249.64	
					2	248.55	248.56	248.55	248.55	248.55	248.55	248.55	248.55	248.55	
D08_999101	Roadway Section 35	Old Allen Rd	261.00	261.00	100	261.63	261.63	261.63	261.63	261.63	261.63	261.63	261.63	261.63	
					50	261.59	261.59	261.59	261.59	261.59	261.59	261.59	261.59	261.59	
					25	261.56	261.56	261.56	261.56	261.56	261.56	261.56	261.56	261.56	
					10	261.53	261.53	261.53	261.53	261.53	261.53	261.53	261.53	261.53	
					5	261.46	261.46	261.46	261.46	261.46	261.46	261.46	261.46	261.46	
					2	261.28	261.28	261.28	261.28	261.28	261.28	261.28	261.28	261.28	
D08_9868	Roadway Section 36	Old Allen Rd	258.94	253.85	100	260.12	260.12	260.11	260.11	260.11	260.11	260.11	260.11	260.12	
					50	259.58	259.58	259.58	259.58	259.58	259.58	259.58	259.58	259.58	
					25	259.44	259.44	259.44	259.44	259.44	259.44	259.44	259.44	259.44	
					10	259.27	259.27	259.27	259.27	259.27	259.27	259.27	259.27	259.27	
					5	259.07	259.07	259.06	259.06	259.06	259.06	259.06	259.06	259.07	
					2	258.82	258.82	258.82	258.82	258.82	258.82	258.82	258.82	258.82	
D10_1056	Roadway Section 37	Ajanders Cv	279.85	275.71	100	280.48	280.05	280.48	280.48	280.47	280.47	280.47	280.48	280.08	
					50	280.39	279.93	280.39	280.39	280.39	280.39	280.39	280.39	280.39	279.93
					25	280.29	279.78	280.29	280.29	280.29	280.29	280.29	280.29	280.29	279.78
					10	280.12	279.51	280.12	280.12	280.12	280.12	280.12	280.12	280.12	279.51
					5	279.95	278.01	279.95	279.95	279.95	279.95	279.95	279.95	279.95	278.01
					2	279.70	276.19	279.70	279.70	279.70	279.70	279.70	279.70	279.70	276.19
D10_30621	Roadway Section 38	Ajanders Dr	279.02	275.12	100	280.48	280.01	280.48	280.48	280.47	280.47	280.47	280.48	280.00	
					50	280.38	279.84	280.38	280.37	280.38	280.37	280.37	280.37	280.37	279.84
					25	280.26	279.67	280.27	280.26	280.27	280.27	280.27	280.27	280.27	279.67
					10	280.10	278.48	280.11	280.10	280.10	280.10	280.10	280.10	280.10	278.48
					5	279.94	277.26	279.94	279.94	279.94	279.94	279.94	279.94	279.94	277.26
					2	279.72	275.80	279.71	279.71	279.71	279.71	279.71	279.71	279.71	275.80

**Drainage Master Plan Allen Basin East Study Area
(Watershed D)**

Table 4.2.1

**InfoSWMM Model Frequency Flood Results
(Existing Conditions Vs. Alternatives)**

Junction ID	Location Description	Address / Location	Critical WSEL (FFE or Min. Top of Road) (ft)	Calibration Event 1 (December 22, 2017) WSEL (ft)	Storm Recurrence Interval (yr)	Modeled Water Surface Elev. (ft)								
						EXISTING CONDITIONS	D-9	D-12	D-17	D-19	D-21	D-23	D-29	RECOMMENDED
D10_1063	Roadway Section 39	Ferdie Cv	305.20	302.36	100	305.49	299.72	305.49	305.49	305.49	305.49	305.49	305.49	299.03
					50	305.45	298.84	305.45	305.45	305.45	305.45	305.45	305.45	298.84
					25	305.41	298.63	305.41	305.41	305.41	305.41	305.41	305.41	298.63
					10	305.33	298.37	305.33	305.33	305.33	305.33	305.33	305.33	298.37
					5	305.02	298.19	305.02	305.02	305.02	305.02	305.02	305.02	298.19
					2	304.11	297.96	304.11	304.11	304.11	304.11	304.11	304.11	297.96
D10_1054	Roadway Section 40	Gruber Cv	282.55	279.38	100	282.93	282.65	282.92	282.92	282.90	282.90	282.90	282.91	282.41
					50	282.83	282.18	282.81	282.82	282.82	282.81	282.81	282.82	282.18
					25	282.70	282.09	282.71	282.70	282.71	282.71	282.71	282.71	282.09
					10	282.54	281.08	282.56	282.54	282.54	282.53	282.54	282.54	281.08
					5	282.39	280.24	282.37	282.37	282.37	282.37	282.37	282.37	280.24
					2	282.19	280.01	282.17	282.17	282.17	282.17	282.17	282.17	280.01
D10_1051	Roadway Section 41	Gruber Dr	288.69	284.76	100	289.39	289.28	289.38	289.39	289.38	289.38	289.38	289.38	288.90
					50	289.29	288.65	289.29	289.29	289.29	289.28	289.29	289.29	288.65
					25	289.16	287.81	289.18	289.16	289.17	289.18	289.18	289.17	287.81
					10	288.98	284.60	289.02	288.99	288.99	288.98	289.00	288.99	284.60
					5	288.82	284.14	288.81	288.82	288.82	288.81	288.81	288.82	284.14
					2	288.34	283.69	288.36	288.36	288.36	288.36	288.36	288.36	283.69
D10_999033	Roadway Section 42	Gruber Dr	291.15	291.15	100	293.37	293.60	293.37	293.37	293.37	293.37	293.37	293.37	292.77
					50	293.31	292.19	293.31	293.30	293.31	293.31	293.31	293.31	292.19
					25	293.17	291.45	293.19	293.17	293.19	293.20	293.20	293.19	291.45
					10	292.94	291.15	293.00	292.96	292.97	292.95	292.98	292.96	291.15
					5	292.72	291.15	292.71	292.72	292.72	292.71	292.71	292.72	291.15
					2	291.95	291.15	291.95	291.95	291.95	291.95	291.95	291.95	291.15
D10_1062	Roadway Section 43	Point Church Rd	291.64	289.02	100	293.51	293.51	293.51	293.51	293.51	293.51	293.51	293.51	292.97
					50	293.51	292.16	293.51	293.51	293.51	293.51	293.51	293.51	292.16
					25	293.51	290.92	293.51	293.51	293.51	293.51	293.51	293.51	290.92
					10	293.51	288.51	293.51	293.51	293.51	293.51	293.51	293.51	288.51
					5	293.51	288.46	293.51	293.51	293.51	293.51	293.51	293.51	288.46
					2	291.96	288.38	291.96	291.95	291.96	291.95	291.95	291.96	288.38

**Drainage Master Plan Allen Basin East Study Area
(Watershed D)**

Table 4.2.1

**InfoSWMM Model Frequency Flood Results
(Existing Conditions Vs. Alternatives)**

Junction ID	Location Description	Address / Location	Critical WSEL (FFE or Min. Top of Road) (ft)	Calibration Event 1 (December 22, 2017) WSEL (ft)	Storm Recurrence Interval (yr)	Modeled Water Surface Elev. (ft)								
						EXISTING CONDITIONS	D-9	D-12	D-17	D-19	D-21	D-23	D-29	RECOMMENDED
D01_9052	Roadway Section 44	Cedar Springs Dr	245.45	242.12	100	245.58	245.58	245.58	245.58	245.58	245.58	245.58	245.58	245.58
					50	245.54	245.54	245.54	245.54	245.54	245.54	245.54	245.54	245.54
					25	245.49	245.49	245.49	245.49	245.49	245.49	245.49	245.49	245.49
					10	245.39	245.39	245.39	245.39	245.39	245.39	245.39	245.39	245.39
					5	245.35	245.35	245.35	245.35	245.35	245.35	245.35	245.35	245.35
					2	245.28	245.28	245.28	245.28	245.28	245.28	245.28	245.28	245.28
D01_9000	Roadway Section 45	Lone Rock Dr	241.32	238.38	100	242.26	242.26	242.26	242.26	242.26	242.26	242.26	242.26	242.26
					50	242.13	242.13	242.13	242.13	242.13	242.13	242.13	242.13	242.13
					25	242.12	242.12	242.12	242.12	242.12	242.12	242.12	242.12	242.12
					10	242.04	242.04	242.04	242.04	242.04	242.04	242.04	242.04	242.04
					5	241.74	241.74	241.74	241.74	241.74	241.74	241.74	241.74	241.74
					2	241.47	241.47	241.47	241.47	241.47	241.47	241.47	241.47	241.47
D01_9044	Roadway Section 46	Sandy Springs Dr	242.93	239.99	100	243.36	243.36	243.36	243.36	243.36	243.36	243.36	243.36	243.36
					50	243.29	243.29	243.29	243.28	243.29	243.29	243.28	243.28	243.29
					25	243.21	243.21	243.21	243.21	243.21	243.21	243.21	243.21	243.21
					10	243.11	243.11	243.11	243.11	243.11	243.11	243.11	243.11	243.11
					5	243.02	243.02	243.02	243.02	243.02	243.02	243.02	243.02	243.02
					2	242.69	242.69	242.69	242.69	242.69	242.69	242.69	242.69	242.69
D01_9044	Roadway Section 47	Spring Valley Dr	242.93	239.99	100	243.36	243.36	243.36	243.36	243.36	243.36	243.36	243.36	243.36
					50	243.29	243.29	243.29	243.28	243.29	243.29	243.28	243.28	243.29
					25	243.21	243.21	243.21	243.21	243.21	243.21	243.21	243.21	243.21
					10	243.11	243.11	243.11	243.11	243.11	243.11	243.11	243.11	243.11
					5	243.02	243.02	243.02	243.02	243.02	243.02	243.02	243.02	243.02
					2	242.69	242.69	242.69	242.69	242.69	242.69	242.69	242.69	242.69
D01_9044	Roadway Section 48	Spring Valley Dr	242.34	239.99	100	243.36	243.36	243.36	243.36	243.36	243.36	243.36	243.36	243.36
					50	243.29	243.29	243.29	243.28	243.29	243.29	243.28	243.28	243.29
					25	243.21	243.21	243.21	243.21	243.21	243.21	243.21	243.21	243.21
					10	243.11	243.11	243.11	243.11	243.11	243.11	243.11	243.11	243.11
					5	243.02	243.02	243.02	243.02	243.02	243.02	243.02	243.02	243.02
					2	242.69	242.69	242.69	242.69	242.69	242.69	242.69	242.69	242.69

**Drainage Master Plan Allen Basin East Study Area
(Watershed D)**

Table 4.2.1

**InfoSWMM Model Frequency Flood Results
(Existing Conditions Vs. Alternatives)**

Junction ID	Location Description	Address / Location	Critical WSEL (FFE or Min. Top of Road) (ft)	Calibration Event 1 (December 22, 2017) WSEL (ft)	Storm Recurrence Interval (yr)	Modeled Water Surface Elev. (ft)								
						EXISTING CONDITIONS	D-9	D-12	D-17	D-19	D-21	D-23	D-29	RECOMMENDED
D01_9051	Roadway Section 49	Spring Valley Dr	245.54	241.65	100	245.53	245.53	245.53	245.53	245.53	245.53	245.53	245.53	245.53
					50	245.49	245.49	245.49	245.49	245.49	245.49	245.49	245.49	245.49
					25	245.45	245.45	245.45	245.45	245.45	245.45	245.45	245.45	245.45
					10	245.37	245.37	245.37	245.37	245.37	245.37	245.37	245.37	245.37
					5	245.34	245.34	245.34	245.34	245.34	245.34	245.34	245.34	245.34
					2	245.27	245.27	245.27	245.27	245.27	245.27	245.27	245.27	245.27
D01_9050	Roadway Section 50	Spring Valley Dr	244.83	241.42	100	245.44	245.44	245.44	245.44	245.44	245.44	245.44	245.44	245.44
					50	245.40	245.40	245.40	245.40	245.40	245.40	245.40	245.40	245.40
					25	245.35	245.35	245.35	245.35	245.35	245.35	245.35	245.35	245.35
					10	245.16	245.16	245.16	245.16	245.16	245.16	245.16	245.16	245.16
					5	245.08	245.08	245.08	245.08	245.08	245.08	245.08	245.08	245.08
					2	244.93	244.93	244.93	244.93	244.93	244.93	244.93	244.93	244.93
D01_65500	Roadway Section 51	Vineyard Haven Pl	251.88	248.18	100	252.42	252.42	252.42	252.42	252.42	252.42	252.42	252.42	252.42
					50	252.38	252.38	252.38	252.38	252.38	252.38	252.38	252.38	252.38
					25	252.35	252.35	252.35	252.35	252.35	252.35	252.35	252.35	252.35
					10	252.30	252.30	252.30	252.30	252.30	252.30	252.30	252.30	252.30
					5	252.24	252.24	252.24	252.24	252.24	252.24	252.24	252.24	252.24
					2	252.09	252.09	252.09	252.09	252.09	252.09	252.09	252.09	252.09
D03_508	Roadway Section 52	Kerwin Dr	258.65	251.34	100	261.18	261.18	261.18	261.18	261.18	261.18	261.18	261.18	261.18
					50	260.92	260.92	260.92	260.92	260.92	260.92	260.92	260.92	260.92
					25	260.67	260.67	260.67	260.67	260.67	260.67	260.67	260.67	260.67
					10	260.38	260.38	260.38	260.38	260.38	260.37	260.38	260.38	260.38
					5	259.93	259.93	259.93	259.93	259.93	259.93	259.93	259.93	259.93
					2	255.88	255.88	255.88	255.88	255.88	255.88	255.88	255.88	255.88
D06_177	Roadway Section 53	Emerson Av	248.39	243.04	100	249.20	249.20	246.59	249.20	249.19	249.18	248.80	249.19	246.63
					50	249.11	249.11	246.21	249.10	249.10	249.10	248.70	249.10	246.26
					25	248.98	248.97	245.85	248.97	248.96	248.97	248.52	248.96	245.88
					10	248.77	248.77	245.34	248.77	248.77	248.77	248.38	248.77	245.37
					5	248.53	248.53	242.89	248.53	248.53	248.53	248.09	248.53	242.89
					2	247.97	247.97	242.81	247.98	247.97	247.97	247.46	247.99	242.82

**Drainage Master Plan Allen Basin East Study Area
(Watershed D)**

Table 4.2.1

**InfoSWMM Model Frequency Flood Results
(Existing Conditions Vs. Alternatives)**

Junction ID	Location Description	Address / Location	Critical WSEL (FFE or Min. Top of Road) (ft)	Calibration Event 1 (December 22, 2017) WSEL (ft)	Storm Recurrence Interval (yr)	Modeled Water Surface Elev. (ft)								
						EXISTING CONDITIONS	D-9	D-12	D-17	D-19	D-21	D-23	D-29	RECOMMENDED
D06_179	Roadway Section 54	Hobson Cv	241.82	237.66	100	243.03	243.02	241.99	243.06	243.03	243.03	242.92	243.03	241.99
					50	242.83	242.83	241.51	242.86	242.83	242.83	242.73	242.83	241.56
					25	242.57	242.57	240.43	242.60	242.56	242.57	242.48	242.57	240.46
					10	242.28	242.28	240.10	242.28	242.28	242.28	242.28	242.28	240.10
					5	242.21	242.21	239.72	242.21	242.21	242.21	242.20	242.21	239.73
					2	242.10	242.10	238.58	242.10	242.10	242.10	242.10	242.10	238.56
D06_127	Roadway Section 55	Ridgemont Rd	240.22	235.23	100	242.99	242.99	240.75	243.01	242.98	242.98	242.87	242.99	240.76
					50	242.78	242.78	240.50	242.81	242.77	242.77	242.65	242.78	240.53
					25	242.47	242.47	240.04	242.51	242.47	242.47	242.35	242.47	240.12
					10	241.88	241.89	239.43	241.93	241.89	241.88	241.80	241.90	239.43
					5	241.50	241.50	239.29	241.53	241.51	241.51	241.48	241.52	239.30
					2	240.93	240.93	238.36	240.94	240.94	240.95	240.93	240.96	238.34
D06_200	Roadway Section 56	Ridgemont Rd	257.83	252.68	100	259.25	259.25	254.92	259.25	259.21	259.21	259.21	259.21	254.92
					50	259.18	259.19	254.61	259.17	259.18	259.17	259.16	259.17	254.61
					25	259.14	259.13	254.34	259.14	259.11	259.12	259.11	259.10	254.34
					10	258.78	258.77	254.05	258.77	258.72	258.73	258.76	258.72	254.05
					5	258.54	258.53	253.78	258.55	258.58	258.58	258.51	258.58	253.78
					2	257.87	257.87	253.40	257.87	257.87	257.87	257.87	257.87	253.40
D06_179	Roadway Section 57	Ridgemont Rd	241.82	237.66	100	243.03	243.02	241.99	243.06	243.03	243.03	242.92	243.03	241.99
					50	242.83	242.83	241.51	242.86	242.83	242.83	242.73	242.83	241.56
					25	242.57	242.57	240.43	242.60	242.56	242.57	242.48	242.57	240.46
					10	242.28	242.28	240.10	242.28	242.28	242.28	242.28	242.28	240.10
					5	242.21	242.21	239.72	242.21	242.21	242.21	242.20	242.21	239.73
					2	242.10	242.10	238.58	242.10	242.10	242.10	242.10	242.10	238.56
D06_128	Roadway Section 58	Trudy Cv	239.80	234.33	100	241.89	241.89	239.74	241.90	241.88	241.88	241.77	241.88	239.82
					50	241.67	241.67	239.25	241.70	241.67	241.66	241.55	241.67	239.28
					25	241.32	241.32	238.92	241.35	241.31	241.31	241.17	241.32	238.96
					10	240.49	240.50	238.38	240.56	240.50	240.49	240.38	240.51	238.38
					5	239.82	239.82	238.27	239.86	239.83	239.82	239.78	239.85	238.28
					2	238.73	238.73	237.65	238.76	238.75	238.77	238.75	238.80	237.63

**Drainage Master Plan Allen Basin East Study Area
(Watershed D)**

Table 4.2.1

**InfoSWMM Model Frequency Flood Results
(Existing Conditions Vs. Alternatives)**

Junction ID	Location Description	Address / Location	Critical WSEL (FFE or Min. Top of Road) (ft)	Calibration Event 1 (December 22, 2017) WSEL (ft)	Storm Recurrence Interval (yr)	Modeled Water Surface Elev. (ft)									
						EXISTING CONDITIONS	D-9	D-12	D-17	D-19	D-21	D-23	D-29	RECOMMENDED	
D06_999144	Roadway Section 59	Trudy St	250.22	249.80	100	250.14	250.14	249.80	250.14	250.12	250.13	250.12	250.13	249.80	
					50	250.12	250.12	249.80	250.11	250.11	250.10	250.11	250.11	250.11	249.80
					25	250.09	250.09	249.80	250.09	250.07	250.08	250.08	250.08	250.07	249.80
					10	249.82	249.82	249.80	249.82	249.80	249.80	249.81	249.80	249.80	249.80
					5	249.80	249.80	249.80	249.80	249.80	249.80	249.80	249.80	249.80	249.80
					2	249.80	249.80	249.80	249.80	249.80	249.80	249.80	249.80	249.80	249.80
D06_999147	Roadway Section 60	Trudy St	249.12	248.70	100	249.21	249.20	248.70	249.21	249.19	249.18	249.06	249.20	248.70	
					50	249.13	249.13	248.70	249.11	249.10	249.10	249.07	249.10	248.70	
					25	249.03	249.02	248.70	249.02	248.99	249.00	248.98	248.99	248.70	
					10	248.78	248.78	248.70	248.78	248.78	248.78	248.71	248.78	248.70	
					5	248.70	248.70	248.70	248.70	248.70	248.70	248.70	248.70	248.70	
					2	248.70	248.70	248.70	248.70	248.70	248.70	248.70	248.70	248.70	
D06_177	Roadway Section 61	Trudy St	248.39	243.04	100	249.20	249.20	246.59	249.20	249.19	249.18	248.80	249.19	246.63	
					50	249.11	249.11	246.21	249.10	249.10	249.10	248.70	249.10	246.26	
					25	248.98	248.97	245.85	248.97	248.96	248.97	248.52	248.96	245.88	
					10	248.77	248.77	245.34	248.77	248.77	248.77	248.38	248.77	245.37	
					5	248.53	248.53	242.89	248.53	248.53	248.53	248.09	248.53	242.89	
					2	247.97	247.97	242.81	247.98	247.97	247.97	247.46	247.99	242.82	
D06_177	Roadway Section 62	Trudy St	248.39	243.04	100	249.20	249.20	246.59	249.20	249.19	249.18	248.80	249.19	246.63	
					50	249.11	249.11	246.21	249.10	249.10	249.10	248.70	249.10	246.26	
					25	248.98	248.97	245.85	248.97	248.96	248.97	248.52	248.96	245.88	
					10	248.77	248.77	245.34	248.77	248.77	248.77	248.38	248.77	245.37	
					5	248.53	248.53	242.89	248.53	248.53	248.53	248.09	248.53	242.89	
					2	247.97	247.97	242.81	247.98	247.97	247.97	247.46	247.99	242.82	
D06_176	Roadway Section 63	Kipling Av	245.42	239.57	100	247.47	247.47	247.44	247.49	247.46	247.46	247.39	247.47	247.46	
					50	247.33	247.33	247.25	247.35	247.33	247.33	247.26	247.33	247.28	
					25	247.17	247.17	247.07	247.19	247.17	247.17	247.12	247.17	247.09	
					10	246.92	246.92	246.85	246.95	246.92	246.91	246.88	246.93	246.86	
					5	246.66	246.66	245.02	246.69	246.67	246.66	246.66	246.68	245.02	
					2	246.28	246.28	244.02	246.29	246.29	246.30	246.29	246.31	243.91	

**Drainage Master Plan Allen Basin East Study Area
(Watershed D)**

Table 4.2.1

**InfoSWMM Model Frequency Flood Results
(Existing Conditions Vs. Alternatives)**

Junction ID	Location Description	Address / Location	Critical WSEL (FFE or Min. Top of Road) (ft)	Calibration Event 1 (December 22, 2017) WSEL (ft)	Storm Recurrence Interval (yr)	Modeled Water Surface Elev. (ft)								
						EXISTING CONDITIONS	D-9	D-12	D-17	D-19	D-21	D-23	D-29	RECOMMENDED
D06_31	Roadway Section 64	Kipling Av	246.66	244.48	100	248.17	248.16	247.98	248.17	248.16	248.16	248.04	248.16	247.98
					50	248.08	248.07	247.91	248.08	248.07	248.07	247.95	248.07	247.91
					25	247.95	247.95	247.84	247.95	247.95	247.95	247.85	247.95	247.84
					10	247.84	247.84	247.72	247.83	247.84	247.84	247.78	247.84	247.72
					5	247.61	247.61	247.48	247.61	247.61	247.61	247.56	247.61	247.48
					2	247.29	247.29	247.20	247.29	247.29	247.29	247.29	247.29	247.19
D06_999140	Roadway Section 65	Trudy St	247.72	247.30	100	248.84	248.84	248.88	248.84	248.84	248.84	248.86	248.84	248.88
					50	248.77	248.77	248.80	248.77	248.77	248.77	248.79	248.77	248.81
					25	248.68	248.68	248.69	248.69	248.69	248.68	248.70	248.69	248.70
					10	248.51	248.51	248.49	248.51	248.51	248.51	248.49	248.51	248.50
					5	248.35	248.35	248.34	248.36	248.35	248.35	248.35	248.36	248.35
					2	248.10	248.10	248.05	248.10	248.10	248.10	248.10	248.10	248.03
D06_31	Roadway Section 66	Trudy St	246.66	244.48	100	248.17	248.16	247.98	248.17	248.16	248.16	248.04	248.16	247.98
					50	248.08	248.07	247.91	248.08	248.07	248.07	247.95	248.07	247.91
					25	247.95	247.95	247.84	247.95	247.95	247.95	247.85	247.95	247.84
					10	247.84	247.84	247.72	247.83	247.84	247.84	247.78	247.84	247.72
					5	247.61	247.61	247.48	247.61	247.61	247.61	247.56	247.61	247.48
					2	247.29	247.29	247.20	247.29	247.29	247.29	247.29	247.29	247.19
D06_199	Roadway Section 67	Windy Av	249.58	245.37	100	250.58	250.58	250.58	250.58	250.58	250.58	250.58	250.58	250.58
					50	250.51	250.51	250.51	250.51	250.51	250.51	250.51	250.51	250.52
					25	250.45	250.45	250.45	250.46	250.45	250.45	250.45	250.45	250.46
					10	250.40	250.40	250.39	250.40	250.40	250.40	250.40	250.40	250.40
					5	250.31	250.31	250.32	250.31	250.31	250.31	250.31	250.31	250.32
					2	250.16	250.16	250.19	250.17	250.16	250.17	250.16	250.17	250.19
D06_165	Roadway Section 68	Tessland Rd	252.96	245.62	100	254.35	254.35	254.35	254.35	254.35	254.35	254.35	254.35	254.35
					50	254.35	254.35	254.35	254.35	254.35	254.35	254.35	254.35	254.35
					25	254.35	254.35	254.35	254.35	254.35	254.34	254.35	254.35	254.35
					10	253.96	253.96	253.98	254.02	253.97	253.94	253.97	253.98	254.03
					5	253.62	253.62	253.67	253.66	253.64	253.58	253.64	253.66	253.66
					2	252.80	252.80	253.01	252.84	252.87	252.91	252.85	252.96	252.85

**Drainage Master Plan Allen Basin East Study Area
(Watershed D)**

Table 4.2.1

**InfoSWMM Model Frequency Flood Results
(Existing Conditions Vs. Alternatives)**

Junction ID	Location Description	Address / Location	Critical WSEL (FFE or Min. Top of Road) (ft)	Calibration Event 1 (December 22, 2017) WSEL (ft)	Storm Recurrence Interval (yr)	Modeled Water Surface Elev. (ft)								
						EXISTING CONDITIONS	D-9	D-12	D-17	D-19	D-21	D-23	D-29	RECOMMENDED
D06_167	Roadway Section 69	Tessland Rd	263.95	260.59	100	263.03	263.03	263.03	263.10	263.03	263.03	263.03	263.03	263.10
					50	261.88	261.88	261.89	261.88	261.89	261.88	261.87	261.89	261.88
					25	261.84	261.89	261.89	261.85	261.85	261.83	261.87	261.86	261.85
					10	261.84	261.83	261.87	261.85	261.85	261.85	261.86	261.83	261.88
					5	261.83	261.83	261.83	261.83	261.83	261.83	261.83	261.83	261.83
					2	261.81	261.81	261.81	261.81	261.81	261.81	261.81	261.81	261.81
D06_167	Roadway Section 70	Trudy St	263.95	260.59	100	263.03	263.03	263.03	263.10	263.03	263.03	263.03	263.03	263.10
					50	261.88	261.88	261.89	261.88	261.89	261.88	261.87	261.89	261.88
					25	261.84	261.89	261.89	261.85	261.85	261.83	261.87	261.86	261.85
					10	261.84	261.83	261.87	261.85	261.85	261.85	261.86	261.83	261.88
					5	261.83	261.83	261.83	261.83	261.83	261.83	261.83	261.83	261.83
					2	261.81	261.81	261.81	261.81	261.81	261.81	261.81	261.81	261.81
D06_168	Roadway Section 71	Trudy St	255.18	250.09	100	258.07	258.07	258.07	257.55	258.07	258.06	258.07	258.07	257.55
					50	257.61	257.61	257.62	257.20	257.62	257.61	257.62	257.62	257.20
					25	257.09	257.09	257.11	256.84	257.10	257.09	257.10	257.11	256.84
					10	256.38	256.38	256.39	256.28	256.39	256.38	256.39	256.39	256.28
					5	255.89	255.89	255.91	255.87	255.90	255.90	255.89	255.90	255.88
					2	254.94	254.94	255.00	254.99	254.96	254.99	254.95	254.98	254.99
D06_999136	Roadway Section 72	Hitchcock St	256.32	255.90	100	256.60	256.60	256.60	256.60	256.60	256.60	256.60	256.60	256.60
					50	256.52	256.52	256.52	256.52	256.52	256.52	256.52	256.52	256.52
					25	256.43	256.43	256.43	256.44	256.43	256.43	256.43	256.43	256.44
					10	256.35	256.35	256.35	256.35	256.35	256.35	256.35	256.35	256.35
					5	256.28	256.28	256.28	256.28	256.28	256.28	256.28	256.28	256.28
					2	256.12	256.12	256.12	256.12	256.12	256.12	256.12	256.12	256.12
D06_999135	Roadway Section 73	Hitchcock St	256.42	256.00	100	257.55	257.55	257.55	257.55	257.55	257.55	257.55	257.55	257.55
					50	257.34	257.34	257.34	257.35	257.34	257.34	257.34	257.34	257.35
					25	257.26	257.26	257.26	257.26	257.26	257.26	257.26	257.26	257.26
					10	257.15	257.15	257.15	257.16	257.15	257.15	257.15	257.15	257.16
					5	257.05	257.05	257.05	257.05	257.05	257.05	257.05	257.05	257.05
					2	256.78	256.78	256.78	256.78	256.78	256.78	256.78	256.78	256.78

**Drainage Master Plan Allen Basin East Study Area
(Watershed D)**

Table 4.2.1

**InfoSWMM Model Frequency Flood Results
(Existing Conditions Vs. Alternatives)**

Junction ID	Location Description	Address / Location	Critical WSEL (FFE or Min. Top of Road) (ft)	Calibration Event 1 (December 22, 2017) WSEL (ft)	Storm Recurrence Interval (yr)	Modeled Water Surface Elev. (ft)								
						EXISTING CONDITIONS	D-9	D-12	D-17	D-19	D-21	D-23	D-29	RECOMMENDED
D06_197	Roadway Section 74	Hitchcock St	257.98	253.11	100	258.80	258.80	258.81	258.83	258.80	258.80	258.80	258.81	258.83
					50	258.76	258.76	258.76	258.78	258.76	258.75	258.76	258.76	258.76
					25	258.71	258.71	258.71	258.73	258.71	258.70	258.71	258.71	258.71
					10	258.65	258.66	258.66	258.66	258.65	258.65	258.65	258.66	258.66
					5	258.57	258.57	258.58	258.59	258.58	258.57	258.57	258.58	258.58
					2	258.42	258.42	258.43	258.43	258.42	258.43	258.42	258.43	258.43
D06_999134	Roadway Section 75	Zane St	261.22	260.80	100	261.61	261.61	261.61	261.61	261.61	261.61	261.61	261.61	261.61
					50	261.54	261.54	261.54	261.54	261.54	261.54	261.54	261.54	261.54
					25	261.47	261.47	261.47	261.47	261.47	261.47	261.47	261.47	261.47
					10	261.36	261.36	261.36	261.36	261.36	261.36	261.36	261.36	261.36
					5	261.27	261.27	261.27	261.27	261.27	261.27	261.27	261.27	261.27
					2	261.11	261.11	261.11	261.11	261.11	261.11	261.11	261.11	261.11
D06_193	Roadway Section 76	Dante Av	276.67	267.62	100	277.21	277.21	277.21	268.95	277.21	277.21	277.21	277.21	268.95
					50	277.18	277.18	277.18	268.76	277.18	277.18	277.18	277.18	268.76
					25	277.12	277.12	277.12	268.61	277.12	277.12	277.12	277.12	268.61
					10	277.07	277.07	277.07	268.09	277.07	277.07	277.07	277.07	268.09
					5	276.97	276.97	276.97	267.95	276.97	276.97	276.97	276.97	267.95
					2	272.70	272.70	272.73	267.76	272.71	272.72	272.71	272.72	267.76
D06_192	Roadway Section 77	Dante Av	270.12	262.34	100	270.72	270.72	270.72	263.67	270.72	270.72	270.72	270.72	263.67
					50	270.68	270.68	270.68	263.59	270.68	270.68	270.68	270.68	263.58
					25	270.64	270.64	270.64	263.44	270.64	270.64	270.64	270.64	263.44
					10	270.55	270.55	270.55	263.19	270.55	270.55	270.55	270.55	263.19
					5	270.29	270.29	270.30	262.94	270.29	270.29	270.29	270.30	262.94
					2	265.98	265.98	266.02	262.61	265.99	266.01	265.98	266.01	262.61
D06_191	Roadway Section 78	Dante Av	266.36	258.74	100	266.90	266.90	266.90	261.13	266.90	266.90	266.90	266.90	261.13
					50	266.84	266.84	266.84	260.54	266.84	266.84	266.84	266.84	260.54
					25	266.76	266.76	266.76	259.32	266.76	266.76	266.76	266.76	259.32
					10	266.58	266.58	266.58	257.84	266.58	266.58	266.58	266.58	257.84
					5	264.56	264.56	264.59	257.71	264.57	264.57	264.57	264.58	257.71
					2	261.94	261.94	262.00	257.52	261.96	261.98	261.95	261.98	257.52

**Drainage Master Plan Allen Basin East Study Area
(Watershed D)**

**Table 4.2.1
InfoSWMM Model Frequency Flood Results
(Existing Conditions Vs. Alternatives)**

Junction ID	Location Description	Address / Location	Critical WSEL (FFE or Min. Top of Road) (ft)	Calibration Event 1 (December 22, 2017) WSEL (ft)	Storm Recurrence Interval (yr)	Modeled Water Surface Elev. (ft)								
						EXISTING CONDITIONS	D-9	D-12	D-17	D-19	D-21	D-23	D-29	RECOMMENDED
D06_193	Roadway Section 79	Kerwin Dr	276.67	267.62	100	277.21	277.21	277.21	268.95	277.21	277.21	277.21	277.21	268.95
					50	277.18	277.18	277.18	268.76	277.18	277.18	277.18	277.18	268.76
					25	277.12	277.12	277.12	268.61	277.12	277.12	277.12	277.12	268.61
					10	277.07	277.07	277.07	268.09	277.07	277.07	277.07	277.07	268.09
					5	276.97	276.97	276.97	267.95	276.97	276.97	276.97	276.97	267.95
					2	272.70	272.70	272.73	267.76	272.71	272.72	272.71	272.72	267.76
D06_195	Roadway Section 80	Pippin St	280.21	275.55	100	282.10	282.10	282.10	277.90	282.10	282.10	282.10	282.10	277.90
					50	282.01	282.01	282.01	277.65	282.01	282.01	282.01	282.01	277.65
					25	281.90	281.90	281.90	277.38	281.90	281.90	281.90	281.90	277.38
					10	281.76	281.76	281.76	277.06	281.76	281.76	281.76	281.76	277.06
					5	281.63	281.63	281.63	276.79	281.63	281.63	281.63	281.63	276.79
					2	281.14	281.14	281.14	276.41	281.14	281.14	281.14	281.14	276.41
D06_19	Roadway Section 81	Saint Elmo Av	282.20	276.20	100	282.09	282.09	282.09	277.90	282.09	282.09	282.09	282.09	277.90
					50	282.00	282.00	282.00	277.65	282.00	282.00	282.00	282.00	277.65
					25	281.90	281.90	281.90	277.38	281.90	281.90	281.90	281.90	277.38
					10	281.76	281.76	281.76	277.06	281.76	281.76	281.76	281.76	277.06
					5	281.63	281.63	281.63	276.79	281.63	281.63	281.63	281.63	276.79
					2	281.15	281.15	281.15	276.42	281.15	281.15	281.15	281.15	276.42
D06_190	Roadway Section 82	Trudy St	259.23	254.80	100	260.38	260.38	260.38	259.68	260.38	260.38	260.38	260.38	259.68
					50	260.29	260.29	260.29	259.36	260.29	260.29	260.29	260.29	259.36
					25	260.18	260.18	260.18	258.70	260.18	260.18	260.18	260.18	258.70
					10	259.99	259.99	260.00	258.04	260.00	259.99	259.99	260.00	258.04
					5	259.60	259.60	259.62	257.26	259.61	259.61	259.60	259.61	257.30
					2	258.86	258.86	258.92	256.26	258.88	258.91	258.87	258.91	256.25
D06_184	Roadway Section 83	Kerfield Dr	264.57	260.29	100	267.28	267.28	267.29	267.29	267.29	265.29	267.29	267.29	267.29
					50	266.99	266.99	267.21	267.03	267.03	265.29	267.03	267.09	267.18
					25	266.69	266.69	266.86	266.72	266.73	265.29	266.73	266.78	266.85
					10	266.23	265.84	266.46	266.29	266.31	265.29	266.31	266.38	266.45
					5	265.63	265.63	265.72	265.65	265.66	265.29	265.65	265.68	265.73
					2	265.18	265.18	265.31	265.21	265.20	265.29	265.21	265.26	265.27

**Drainage Master Plan Allen Basin East Study Area
(Watershed D)**

Table 4.2.1

**InfoSWMM Model Frequency Flood Results
(Existing Conditions Vs. Alternatives)**

Junction ID	Location Description	Address / Location	Critical WSEL (FFE or Min. Top of Road) (ft)	Calibration Event 1 (December 22, 2017) WSEL (ft)	Storm Recurrence Interval (yr)	Modeled Water Surface Elev. (ft)										
						EXISTING CONDITIONS	D-9	D-12	D-17	D-19	D-21	D-23	D-29	RECOMMENDED		
D06_187	Roadway Section 84	Kerwood Av	262.47	257.72	100	265.07	265.07	265.13	265.09	265.10	262.68	265.09	265.11	265.10		
					50	264.82	264.82	265.01	264.85	264.87	262.68	264.84	264.92	264.97		
					25	263.55	263.55	264.70	263.56	263.63	262.68	263.63	263.65	264.67		
					10	263.36	263.10	263.55	263.39	263.48	262.65	263.48	263.51	263.47		
					5	262.95	262.95	263.09	262.97	263.04	262.54	263.03	263.06	263.03		
					2	262.44	262.44	262.76	262.50	262.64	262.46	262.64	262.70	262.61		
D06_189	Roadway Section 85	Saint Elmo Av	260.32	255.28	100	260.32	260.32	260.32	260.34	260.32	260.32	260.32	260.32	260.32	260.35	
					50	260.32	260.32	260.32	260.32	260.32	260.32	260.32	260.32	260.32	260.32	260.34
					25	260.31	260.31	260.32	260.32	260.31	260.31	260.31	260.31	260.31	260.31	260.32
					10	260.31	260.31	260.31	260.31	260.31	260.23	260.31	260.31	260.31	260.31	
					5	260.30	260.30	260.30	260.30	260.30	259.95	260.30	260.30	260.30	260.30	
					2	259.87	259.87	260.22	259.96	259.95	259.72	259.96	260.11	260.09		
D06_182	Roadway Section 86	Winwood Dr	265.10	260.85	100	268.40	268.40	268.39	268.40	268.40	267.10	268.40	268.40	268.40	268.40	
					50	268.15	268.15	268.16	268.18	268.18	267.10	268.18	268.24	268.35		
					25	267.87	267.87	267.84	267.89	267.89	267.10	267.89	267.95	268.05		
					10	267.42	267.37	267.40	267.46	267.46	267.10	267.47	267.54	267.63		
					5	267.08	267.08	266.98	267.10	267.10	267.10	267.10	267.16	267.23		
					2	266.54	266.54	266.45	266.57	266.56	266.63	266.57	266.64	266.65		
D06_161	Roadway Section 87	Bowmar Cv	293.56	288.23	100	294.23	294.23	294.23	294.23	290.49	294.23	294.23	294.23	290.49		
					50	294.17	294.17	294.17	294.17	289.44	294.17	294.17	294.17	289.44		
					25	294.09	294.09	294.09	294.09	289.18	294.09	294.09	294.09	289.18		
					10	293.99	293.99	293.99	293.99	288.86	293.99	293.99	293.99	288.86		
					5	293.90	293.90	293.90	293.90	288.62	293.90	293.90	293.90	288.62		
					2	293.58	293.58	293.56	293.56	288.33	293.56	293.56	293.56	288.33		
D06_158	Roadway Section 88	Kerwin Dr	275.80	273.26	100	278.37	278.38	278.29	278.29	274.71	278.27	278.28	278.28	274.64		
					50	278.10	278.10	278.11	278.11	274.04	278.10	278.11	278.10	273.97		
					25	277.87	277.87	277.89	277.88	273.38	277.87	277.88	277.87	273.32		
					10	277.54	277.52	277.52	277.55	272.64	277.54	277.52	277.54	272.63		
					5	277.26	277.26	277.25	277.27	272.22	277.27	277.26	277.26	272.21		
					2	276.85	276.85	276.84	276.84	271.65	276.84	276.84	276.84	271.64		

**Drainage Master Plan Allen Basin East Study Area
(Watershed D)**

Table 4.2.1

**InfoSWMM Model Frequency Flood Results
(Existing Conditions Vs. Alternatives)**

Junction ID	Location Description	Address / Location	Critical WSEL (FFE or Min. Top of Road) (ft)	Calibration Event 1 (December 22, 2017) WSEL (ft)	Storm Recurrence Interval (yr)	Modeled Water Surface Elev. (ft)								
						EXISTING CONDITIONS	D-9	D-12	D-17	D-19	D-21	D-23	D-29	RECOMMENDED
D06_159	Roadway Section 89	Longsneck Cv	285.52	282.03	100	287.50	287.50	287.40	287.40	284.82	287.40	287.40	287.40	284.82
					50	287.37	287.37	287.25	287.25	283.42	287.25	287.25	287.25	283.42
					25	287.22	287.22	287.09	287.09	282.70	287.09	287.09	287.09	282.70
					10	286.99	286.99	286.85	286.86	281.23	286.86	286.85	286.86	281.23
					5	286.81	286.81	286.65	286.65	280.88	286.65	286.65	286.65	280.88
					2	286.51	286.51	286.29	286.29	280.49	286.29	286.29	286.29	280.49
D06_999145	Roadway Section 90	Pippin St	279.40	277.31	100	282.90	282.90	282.90	282.90	278.45	282.90	282.90	282.90	278.45
					50	282.90	282.46	282.72	282.90	278.19	282.90	282.90	282.72	278.19
					25	282.90	282.90	282.90	282.90	277.85	282.90	282.90	282.90	277.85
					10	281.62	281.68	281.91	282.90	277.51	282.05	281.93	282.90	277.51
					5	281.35	281.29	281.67	281.62	277.29	281.60	281.60	281.58	277.29
					2	280.91	280.87	281.06	281.03	277.00	281.09	281.08	281.09	277.00
D06_999129	Roadway Section 91	Pippin St	279.35	276.49	100	282.05	282.05	282.10	282.10	275.49	282.10	282.10	282.10	275.41
					50	281.86	281.86	281.98	281.99	274.53	281.98	281.98	281.98	274.47
					25	281.65	281.65	281.80	281.79	274.33	281.79	281.79	281.79	274.33
					10	281.36	281.35	281.50	281.51	274.13	281.52	281.50	281.52	274.13
					5	281.11	281.11	281.28	281.28	273.99	281.28	281.28	281.28	273.99
					2	280.71	280.71	280.91	280.91	273.79	280.91	280.91	280.91	273.79
D06_163	Roadway Section 92	Twinmont St	306.18	302.72	100	308.14	308.14	308.13	308.13	302.70	308.13	308.13	308.13	302.70
					50	308.02	308.02	308.01	308.01	301.51	308.01	308.01	308.01	301.51
					25	307.92	307.92	307.92	307.92	300.26	307.92	307.92	307.92	300.26
					10	307.84	307.84	307.84	307.84	299.79	307.84	307.84	307.84	299.79
					5	307.70	307.70	307.70	307.70	299.51	307.70	307.70	307.70	299.51
					2	307.48	307.48	307.48	307.48	299.16	307.48	307.48	307.48	299.16
D06_999104	Roadway Section 93	Kerwin Dr	279.42	279.00	100	279.83	279.83	279.70	279.83	279.70	279.00	279.70	279.67	279.00
					50	279.64	279.64	279.64	279.64	279.64	279.00	279.64	279.63	279.00
					25	279.59	279.59	279.59	279.59	279.59	279.00	279.59	279.58	279.00
					10	279.54	279.54	279.54	279.54	279.54	279.00	279.54	279.54	279.00
					5	279.48	279.48	279.48	279.48	279.48	279.00	279.48	279.48	279.00
					2	279.39	279.39	279.39	279.39	279.39	279.00	279.39	279.37	279.00

**Drainage Master Plan Allen Basin East Study Area
(Watershed D)**

Table 4.2.1

**InfoSWMM Model Frequency Flood Results
(Existing Conditions Vs. Alternatives)**

Junction ID	Location Description	Address / Location	Critical WSEL (FFE or Min. Top of Road) (ft)	Calibration Event 1 (December 22, 2017) WSEL (ft)	Storm Recurrence Interval (yr)	Modeled Water Surface Elev. (ft)								
						EXISTING CONDITIONS	D-9	D-12	D-17	D-19	D-21	D-23	D-29	RECOMMENDED
D06_133	Roadway Section 94	Kerwin Dr	275.70	272.17	100	279.53	279.53	279.41	279.53	279.41	276.88	279.41	279.22	277.22
					50	279.32	279.32	279.32	279.32	279.32	276.33	279.32	279.00	276.78
					25	279.05	279.05	279.05	279.05	279.05	275.99	279.05	278.72	276.49
					10	278.68	278.68	278.66	278.68	278.66	275.59	278.66	278.35	276.14
					5	278.34	278.34	278.32	278.34	278.32	275.18	278.32	278.01	275.82
					2	277.65	277.65	277.67	277.65	277.67	274.46	277.67	277.36	275.44
D06_999105	Roadway Section 95	Kerwin Dr	277.17	274.62	100	279.54	279.54	279.46	279.54	279.46	277.08	279.46	279.22	277.42
					50	279.34	279.34	279.34	279.34	279.34	276.54	279.34	279.01	277.21
					25	279.07	279.07	279.05	279.07	279.05	276.14	279.05	278.71	276.93
					10	278.69	278.69	278.67	278.69	278.67	275.66	278.67	278.36	276.43
					5	278.35	278.35	278.33	278.35	278.33	275.20	278.33	278.03	275.99
					2	277.67	277.67	277.69	277.67	277.69	274.48	277.69	277.36	275.50
D06_999105	Roadway Section 96	Twin Lakes Dr	277.17	274.62	100	279.54	279.54	279.46	279.54	279.46	277.08	279.46	279.22	277.42
					50	279.34	279.34	279.34	279.34	279.34	276.54	279.34	279.01	277.21
					25	279.07	279.07	279.05	279.07	279.05	276.14	279.05	278.71	276.93
					10	278.69	278.69	278.67	278.69	278.67	275.66	278.67	278.36	276.43
					5	278.35	278.35	278.33	278.35	278.33	275.20	278.33	278.03	275.99
					2	277.67	277.67	277.69	277.67	277.69	274.48	277.69	277.36	275.50
D06_999120	Roadway Section 97	Barberry St	281.42	281.00	100	282.01	282.01	282.01	282.01	282.01	281.00	282.01	282.01	281.00
					50	281.98	281.98	281.97	281.98	281.97	281.00	281.97	281.96	281.00
					25	281.68	281.68	281.88	281.68	281.88	281.00	281.88	281.86	281.00
					10	281.59	281.59	281.60	281.59	281.60	281.00	281.60	281.59	281.00
					5	281.52	281.52	281.54	281.52	281.54	281.00	281.54	281.53	281.00
					2	281.33	281.33	281.40	281.33	281.40	281.00	281.40	281.39	281.00
D06_134	Roadway Section 98	Battlefield Dr	277.56	273.99	100	279.69	279.69	279.48	279.69	279.48	277.32	279.48	279.36	277.69
					50	279.48	279.47	279.43	279.48	279.43	276.74	279.43	279.13	277.20
					25	279.20	279.20	279.15	279.20	279.15	276.34	279.15	278.84	276.83
					10	278.81	278.81	278.75	278.81	278.75	275.84	278.75	278.45	276.38
					5	278.61	278.61	278.41	278.61	278.41	275.36	278.41	278.16	276.00
					2	278.41	278.41	277.99	278.41	277.99	274.53	277.99	277.94	275.55

**Drainage Master Plan Allen Basin East Study Area
(Watershed D)**

Table 4.2.1

**InfoSWMM Model Frequency Flood Results
(Existing Conditions Vs. Alternatives)**

Junction ID	Location Description	Address / Location	Critical WSEL (FFE or Min. Top of Road) (ft)	Calibration Event 1 (December 22, 2017) WSEL (ft)	Storm Recurrence Interval (yr)	Modeled Water Surface Elev. (ft)								
						EXISTING CONDITIONS	D-9	D-12	D-17	D-19	D-21	D-23	D-29	RECOMMENDED
D06_135	Roadway Section 99	Battlefield Dr	283.76	279.01	100	284.58	284.58	283.90	284.58	283.90	282.97	283.90	283.89	283.38
					50	284.57	284.57	283.86	284.57	283.86	280.46	283.86	283.85	281.80
					25	284.48	284.48	283.81	284.48	283.81	279.64	283.81	283.80	279.89
					10	284.39	284.39	283.70	284.39	283.70	279.19	283.70	283.69	279.16
					5	284.32	284.32	283.63	284.32	283.63	279.01	283.63	283.62	278.96
					2	284.12	284.12	283.50	284.12	283.50	278.79	283.50	283.49	278.72
D06_999146	Roadway Section 100	Battlefield Dr	285.42	285.00	100	286.21	286.21	286.02	286.21	286.02	285.00	286.02	286.02	285.00
					50	286.21	286.21	286.01	286.21	286.01	285.00	286.01	286.02	285.00
					25	286.13	286.13	285.95	286.13	285.95	285.00	285.95	285.96	285.00
					10	285.92	285.92	285.79	285.92	285.79	285.00	285.79	285.79	285.00
					5	285.79	285.79	285.70	285.79	285.70	285.00	285.70	285.70	285.00
					2	285.57	285.57	285.44	285.57	285.44	285.00	285.44	285.44	285.00
D06_138	Roadway Section 101	Battlefield Dr	291.67	285.13	100	292.67	292.67	292.67	292.67	292.67	290.52	292.67	292.67	290.97
					50	292.67	292.67	292.67	292.67	292.67	287.19	292.67	292.67	287.98
					25	292.64	292.64	292.64	292.64	292.64	286.05	292.64	292.64	286.11
					10	292.45	292.45	292.43	292.45	292.43	284.95	292.43	292.43	284.96
					5	292.30	292.30	292.27	292.30	292.27	284.34	292.27	292.27	284.34
					2	292.09	292.09	292.06	292.09	292.06	283.78	292.06	292.06	283.78
D06_135	Roadway Section 102	Dagmar St	283.76	279.01	100	284.58	284.58	283.90	284.58	283.90	282.97	283.90	283.89	283.38
					50	284.57	284.57	283.86	284.57	283.86	280.46	283.86	283.85	281.80
					25	284.48	284.48	283.81	284.48	283.81	279.64	283.81	283.80	279.89
					10	284.39	284.39	283.70	284.39	283.70	279.19	283.70	283.69	279.16
					5	284.32	284.32	283.63	284.32	283.63	279.01	283.63	283.62	278.96
					2	284.12	284.12	283.50	284.12	283.50	278.79	283.50	283.49	278.72
D06_999115	Roadway Section 103	Longhollow Cv	305.42	305.00	100	305.96	305.96	305.88	305.96	305.88	305.49	305.88	305.88	305.50
					50	305.88	305.88	305.82	305.88	305.82	305.30	305.82	305.82	305.31
					25	305.81	305.81	305.77	305.81	305.77	305.00	305.77	305.77	305.00
					10	305.56	305.56	305.53	305.56	305.53	305.00	305.53	305.53	305.00
					5	305.35	305.35	305.34	305.35	305.34	305.00	305.34	305.34	305.00
					2	305.00	305.00	305.00	305.00	305.00	305.00	305.00	305.00	305.00

**Drainage Master Plan Allen Basin East Study Area
(Watershed D)**

Table 4.2.1

**InfoSWMM Model Frequency Flood Results
(Existing Conditions Vs. Alternatives)**

Junction ID	Location Description	Address / Location	Critical WSEL (FFE or Min. Top of Road) (ft)	Calibration Event 1 (December 22, 2017) WSEL (ft)	Storm Recurrence Interval (yr)	Modeled Water Surface Elev. (ft)								
						EXISTING CONDITIONS	D-9	D-12	D-17	D-19	D-21	D-23	D-29	RECOMMENDED
D06_999115	Roadway Section 104	Longhollow Dr	305.42	305.00	100	305.96	305.96	305.88	305.96	305.88	305.49	305.88	305.88	305.50
					50	305.88	305.88	305.82	305.88	305.82	305.30	305.82	305.82	305.31
					25	305.81	305.81	305.77	305.81	305.77	305.00	305.77	305.77	305.00
					10	305.56	305.56	305.53	305.56	305.53	305.00	305.53	305.53	305.00
					5	305.35	305.35	305.34	305.35	305.34	305.00	305.34	305.34	305.00
					2	305.00	305.00	305.00	305.00	305.00	305.00	305.00	305.00	305.00
D06_999114	Roadway Section 105	Longhollow Dr	314.42	314.00	100	314.39	314.39	314.39	314.39	314.39	314.00	314.39	314.39	314.00
					50	314.35	314.35	314.35	314.35	314.35	314.00	314.35	314.35	314.00
					25	314.30	314.30	314.30	314.30	314.30	314.00	314.30	314.30	314.00
					10	314.22	314.22	314.22	314.22	314.22	314.00	314.22	314.22	314.00
					5	314.00	314.00	314.00	314.00	314.00	314.00	314.00	314.00	314.00
					2	314.00	314.00	314.00	314.00	314.00	314.00	314.00	314.00	314.00
D06_999118	Roadway Section 106	Twinmont St	291.42	291.00	100	291.78	291.78	291.78	291.78	291.78	291.00	291.78	291.78	291.00
					50	291.75	291.75	291.75	291.75	291.75	291.00	291.75	291.75	291.00
					25	291.71	291.71	291.69	291.71	291.69	291.00	291.69	291.69	291.00
					10	291.62	291.62	291.61	291.62	291.61	291.00	291.61	291.61	291.00
					5	291.49	291.49	291.48	291.49	291.48	291.00	291.48	291.48	291.00
					2	291.37	291.37	291.35	291.37	291.35	291.00	291.35	291.35	291.00
D06_999117	Roadway Section 107	Twinmont St	292.42	292.00	100	292.74	292.74	292.77	292.74	292.77	292.00	292.77	292.77	292.00
					50	292.64	292.64	292.68	292.64	292.68	292.00	292.68	292.68	292.00
					25	292.35	292.35	292.41	292.35	292.41	292.00	292.41	292.41	292.00
					10	292.00	292.00	292.17	292.00	292.17	292.00	292.17	292.17	292.00
					5	292.00	292.00	292.00	292.00	292.00	292.00	292.00	292.00	292.00
					2	292.00	292.00	292.00	292.00	292.00	292.00	292.00	292.00	292.00
D06_7	Roadway Section 108	Twinmont St	302.70	296.90	100	303.03	303.03	302.36	303.03	302.36	297.04	302.36	302.36	297.72
					50	302.98	302.98	302.31	302.98	302.31	294.45	302.31	302.31	294.53
					25	302.92	302.92	302.24	302.92	302.24	294.33	302.24	302.24	294.33
					10	302.20	302.20	302.13	302.20	302.13	294.03	302.13	302.13	294.03
					5	300.56	300.55	300.56	300.56	300.56	293.82	300.56	300.56	293.82
					2	298.73	298.73	298.76	298.73	298.76	293.56	298.76	298.76	293.56

**Drainage Master Plan Allen Basin East Study Area
(Watershed D)**

Table 4.2.1

**InfoSWMM Model Frequency Flood Results
(Existing Conditions Vs. Alternatives)**

Junction ID	Location Description	Address / Location	Critical WSEL (FFE or Min. Top of Road) (ft)	Calibration Event 1 (December 22, 2017) WSEL (ft)	Storm Recurrence Interval (yr)	Modeled Water Surface Elev. (ft)								
						EXISTING CONDITIONS	D-9	D-12	D-17	D-19	D-21	D-23	D-29	RECOMMENDED
D03_999169	Roadway Section 109	Druid Hill Dr	296.40	296.40	100	296.40	296.40	296.40	296.40	296.40	296.40	296.40	296.40	296.40
					50	296.40	296.40	296.40	296.40	296.40	296.40	296.40	296.40	296.40
					25	296.40	296.40	296.40	296.40	296.40	296.40	296.40	296.40	296.40
					10	296.40	296.40	296.40	296.40	296.40	296.40	296.40	296.40	
					5	296.40	296.40	296.40	296.40	296.40	296.40	296.40	296.40	
					2	296.40	296.40	296.40	296.40	296.40	296.40	296.40	296.40	
D07_999150	Roadway Section 110	Dorado Av	270.42	270.00	100	270.72	270.72	270.72	270.72	270.72	270.72	270.00	270.72	270.00
					50	270.68	270.68	270.68	270.68	270.68	270.68	270.00	270.68	270.00
					25	270.63	270.63	270.63	270.63	270.63	270.63	270.00	270.63	270.00
					10	270.54	270.54	270.54	270.54	270.54	270.54	270.00	270.54	270.00
					5	270.32	270.32	270.32	270.32	270.32	270.32	270.00	270.32	270.00
					2	270.09	270.09	270.09	270.09	270.09	270.09	270.00	270.09	270.00
D07_243	Roadway Section 111	Dorado Av	273.64	268.79	100	275.09	275.09	275.09	275.09	275.09	275.09	270.72	275.09	271.63
					50	274.99	274.99	274.99	274.99	274.99	274.99	268.47	274.99	270.82
					25	274.91	274.91	274.91	274.91	274.91	274.91	268.19	274.91	268.76
					10	274.80	274.80	274.80	274.80	274.80	274.80	267.80	274.80	267.69
					5	274.71	274.71	274.71	274.71	274.71	274.71	267.57	274.71	267.45
					2	274.13	274.13	274.13	274.14	274.13	274.13	267.21	274.13	267.13
D07_242	Roadway Section 112	Dorado Av	276.25	270.36	100	276.25	276.25	276.25	276.25	276.25	276.25	272.30	276.25	273.22
					50	276.25	276.25	276.25	276.25	276.25	276.25	270.43	276.25	272.28
					25	276.25	276.25	276.25	276.25	276.25	276.25	270.16	276.25	270.06
					10	276.25	276.25	276.25	276.25	276.25	276.25	269.82	276.25	269.85
					5	276.25	276.25	276.25	276.25	276.25	276.25	269.55	276.25	269.59
					2	276.10	276.10	276.09	276.09	276.08	276.09	269.21	276.09	269.23
D07_243	Roadway Section 113	Dorado Cv	273.64	268.79	100	275.09	275.09	275.09	275.09	275.09	275.09	270.72	275.09	271.63
					50	274.99	274.99	274.99	274.99	274.99	274.99	268.47	274.99	270.82
					25	274.91	274.91	274.91	274.91	274.91	274.91	268.19	274.91	268.76
					10	274.80	274.80	274.80	274.80	274.80	274.80	267.80	274.80	267.69
					5	274.71	274.71	274.71	274.71	274.71	274.71	267.57	274.71	267.45
					2	274.13	274.13	274.13	274.14	274.13	274.13	267.21	274.13	267.13

**Drainage Master Plan Allen Basin East Study Area
(Watershed D)**

**Table 4.2.1
InfoSWMM Model Frequency Flood Results
(Existing Conditions Vs. Alternatives)**

Junction ID	Location Description	Address / Location	Critical WSEL (FFE or Min. Top of Road) (ft)	Calibration Event 1 (December 22, 2017) WSEL (ft)	Storm Recurrence Interval (yr)	Modeled Water Surface Elev. (ft)								
						EXISTING CONDITIONS	D-9	D-12	D-17	D-19	D-21	D-23	D-29	RECOMMENDED
D07_240	Roadway Section 114	Dove Call Cv	279.54	272.95	100	280.26	280.26	280.26	280.26	280.26	280.26	277.87	280.26	278.90
					50	280.21	280.21	280.21	280.21	280.21	280.21	276.52	280.21	277.20
					25	280.14	280.14	280.14	280.14	280.14	280.14	275.28	280.14	275.63
					10	280.02	280.02	280.02	280.02	280.02	280.02	273.73	280.02	273.73
					5	279.86	279.86	279.86	279.86	279.86	279.86	273.55	279.86	273.55
					2	279.24	279.24	279.24	279.24	279.24	279.24	273.31	279.24	273.31
D07_237	Roadway Section 115	Longmont Dr	292.06	286.66	100	292.52	292.52	292.52	292.52	292.52	292.52	290.53	292.52	290.50
					50	292.45	292.45	292.45	292.45	292.45	292.45	289.64	292.45	289.64
					25	292.37	292.37	292.37	292.37	292.37	292.37	288.90	292.37	288.90
					10	291.99	291.99	291.99	291.99	291.99	291.99	288.20	291.99	288.20
					5	289.87	289.87	289.87	289.87	289.87	289.87	287.99	289.87	287.99
					2	288.20	288.20	288.20	288.20	288.20	288.20	287.75	288.20	287.75
D07_238	Roadway Section 116	Longmont Dr	287.50	282.50	100	287.83	287.83	287.83	287.83	287.83	287.83	281.88	287.83	283.36
					50	287.77	287.77	287.77	287.77	287.77	287.77	281.68	287.77	281.67
					25	287.69	287.69	287.69	287.69	287.69	287.69	281.41	287.69	281.41
					10	286.42	286.42	286.42	286.42	286.42	286.42	281.10	286.42	281.10
					5	284.83	284.83	284.83	284.83	284.83	284.83	280.88	284.83	280.88
					2	283.36	283.36	283.36	283.36	283.36	283.36	280.59	283.36	280.59
D07_236	Roadway Section 117	Longmont Dr	289.56	284.96	100	290.34	290.34	290.34	290.34	290.34	290.34	286.31	290.34	286.31
					50	290.26	290.26	290.26	290.26	290.26	290.26	285.74	290.26	286.12
					25	290.20	290.20	290.20	290.20	290.20	290.20	285.64	290.20	285.64
					10	289.93	289.93	289.93	289.93	289.93	289.93	285.51	289.93	285.51
					5	288.36	288.36	288.36	288.36	288.36	288.36	285.41	288.36	285.41
					2	287.22	287.22	287.22	287.22	287.22	287.22	285.27	287.22	285.27
D07_238	Roadway Section 118	Windermere Dr	287.50	282.50	100	287.83	287.83	287.83	287.83	287.83	287.83	281.88	287.83	283.36
					50	287.77	287.77	287.77	287.77	287.77	287.77	281.68	287.77	281.67
					25	287.69	287.69	287.69	287.69	287.69	287.69	281.41	287.69	281.41
					10	286.42	286.42	286.42	286.42	286.42	286.42	281.10	286.42	281.10
					5	284.83	284.83	284.83	284.83	284.83	284.83	280.88	284.83	280.88
					2	283.36	283.36	283.36	283.36	283.36	283.36	280.59	283.36	280.59

**Drainage Master Plan Allen Basin East Study Area
(Watershed D)**

Table 4.2.1

**InfoSWMM Model Frequency Flood Results
(Existing Conditions Vs. Alternatives)**

Junction ID	Location Description	Address / Location	Critical WSEL (FFE or Min. Top of Road) (ft)	Calibration Event 1 (December 22, 2017) WSEL (ft)	Storm Recurrence Interval (yr)	Modeled Water Surface Elev. (ft)									
						EXISTING CONDITIONS	D-9	D-12	D-17	D-19	D-21	D-23	D-29	RECOMMENDED	
D07_241	Roadway Section 119	Windermere Dr	276.03	271.23	100	277.20	277.20	277.20	277.20	277.20	277.20	277.20	275.14	277.20	276.08
					50	277.13	277.13	277.13	277.13	277.13	277.13	277.13	274.21	277.13	274.79
					25	277.04	277.04	277.04	277.04	277.04	277.04	277.04	273.67	277.04	273.79
					10	276.94	276.94	276.94	276.94	276.94	276.94	276.94	272.91	276.94	272.88
					5	276.87	276.87	276.87	276.87	276.87	276.87	276.87	272.37	276.87	272.35
					2	276.68	276.68	276.68	276.68	276.68	276.68	276.68	271.86	276.68	271.84
D07_240	Roadway Section 120	Windermere Dr	279.54	272.95	100	280.26	280.26	280.26	280.26	280.26	280.26	280.26	277.87	280.26	278.90
					50	280.21	280.21	280.21	280.21	280.21	280.21	280.21	276.52	280.21	277.20
					25	280.14	280.14	280.14	280.14	280.14	280.14	280.14	275.28	280.14	275.63
					10	280.02	280.02	280.02	280.02	280.02	280.02	280.02	273.73	280.02	273.73
					5	279.86	279.86	279.86	279.86	279.86	279.86	279.86	273.55	279.86	273.55
					2	279.24	279.24	279.24	279.24	279.24	279.24	279.24	273.31	279.24	273.31
D07_245	Roadway Section 121	Wolf Trail Dr	265.82	261.78	100	268.56	268.56	268.56	268.55	268.56	268.56	268.56	264.39	268.56	264.88
					50	268.37	268.37	268.37	268.36	268.37	268.37	268.37	263.08	268.37	262.32
					25	268.15	268.15	268.15	268.14	268.15	268.15	268.15	262.45	268.15	262.18
					10	267.74	267.74	267.74	267.73	267.74	267.74	267.74	261.88	267.74	262.00
					5	266.98	266.98	266.98	266.96	266.98	266.98	266.98	261.66	266.99	261.82
					2	266.23	266.23	266.23	266.25	266.23	266.23	266.23	261.21	266.23	261.56
D00_999184	Roadway Section 122	Frayser Raleigh Rd	275.03	272.50	100	276.57	276.57	276.57	276.57	276.57	276.57	276.57	276.57	276.57	276.57
					50	276.49	276.49	276.49	276.49	276.49	276.49	276.49	276.49	276.49	276.49
					25	276.42	276.42	276.42	276.42	276.42	276.42	276.42	276.42	276.42	276.42
					10	276.32	276.32	276.32	276.32	276.32	276.32	276.32	276.32	276.32	276.32
					5	276.23	276.23	276.23	276.23	276.23	276.23	276.23	276.23	276.23	276.23
					2	276.10	276.10	276.10	276.10	276.10	276.10	276.10	276.10	276.10	276.10
D07_999155	Roadway Section 123	Edgefield Dr	283.22	282.80	100	283.72	283.72	283.71	283.72	283.71	283.71	283.71	283.71	282.80	282.80
					50	283.63	283.63	283.61	283.62	283.61	283.61	283.61	283.61	282.80	282.80
					25	283.52	283.52	283.50	283.52	283.50	283.50	283.50	283.50	282.80	282.80
					10	283.38	283.38	283.35	283.37	283.35	283.35	283.35	283.35	282.80	282.80
					5	283.25	283.25	283.22	283.25	283.22	283.22	283.22	283.22	282.80	282.80
					2	282.80	282.80	282.80	283.05	282.80	282.80	282.80	282.80	282.80	282.80

**Drainage Master Plan Allen Basin East Study Area
(Watershed D)**

Table 4.2.1

**InfoSWMM Model Frequency Flood Results
(Existing Conditions Vs. Alternatives)**

Junction ID	Location Description	Address / Location	Critical WSEL (FFE or Min. Top of Road) (ft)	Calibration Event 1 (December 22, 2017) WSEL (ft)	Storm Recurrence Interval (yr)	Modeled Water Surface Elev. (ft)									
						EXISTING CONDITIONS	D-9	D-12	D-17	D-19	D-21	D-23	D-29	RECOMMENDED	
D07_999156	Roadway Section 124	Edgefield Dr	278.12	277.70	100	279.75	279.75	279.71	279.91	279.71	279.71	279.71	279.71	277.70	277.70
					50	279.57	279.57	279.53	279.85	279.53	279.53	279.53	279.53	277.70	277.70
					25	279.40	279.40	279.36	279.81	279.36	279.36	279.36	279.36	277.70	277.70
					10	279.17	279.17	279.14	279.63	279.14	279.14	279.14	279.14	277.70	277.70
					5	278.99	278.99	278.95	279.49	278.95	278.95	278.95	278.95	277.70	277.70
					2	277.70	277.70	277.70	279.30	277.70	277.70	277.70	277.70	277.70	277.70
D07_232	Roadway Section 125	Edgefield Dr	281.79	276.32	100	282.68	282.68	282.66	282.79	282.66	282.66	282.66	282.66	279.92	279.98
					50	282.62	282.62	282.61	282.74	282.61	282.61	282.61	282.61	277.91	277.80
					25	282.56	282.56	282.55	282.69	282.55	282.55	282.55	282.55	277.79	277.77
					10	282.46	282.46	282.44	282.64	282.44	282.44	282.44	282.44	277.52	277.53
					5	282.36	282.36	282.33	282.60	282.33	282.33	282.33	282.33	277.46	277.59
					2	280.98	280.98	280.69	282.52	280.68	280.69	280.69	280.69	277.39	277.20
D07_999158	Roadway Section 126	Frayser Raleigh Rd	274.42	274.00	100	274.92	274.92	274.92	275.22	274.92	274.92	274.92	274.92	274.00	274.00
					50	274.86	274.86	274.86	275.18	274.86	274.86	274.86	274.86	274.00	274.00
					25	274.80	274.80	274.80	275.10	274.80	274.80	274.80	274.80	274.00	274.00
					10	274.68	274.68	274.67	275.03	274.67	274.67	274.67	274.67	274.00	274.00
					5	274.38	274.38	274.37	274.98	274.37	274.37	274.37	274.37	274.00	274.00
					2	274.00	274.00	274.00	274.88	274.00	274.00	274.00	274.00	274.00	274.00
D07_233	Roadway Section 127	South Ridge Av	283.42	278.37	100	284.89	284.89	284.87	284.88	284.87	284.87	284.87	284.87	282.89	283.02
					50	284.79	284.79	284.77	284.78	284.77	284.77	284.77	284.77	280.60	280.59
					25	284.68	284.68	284.66	284.68	284.66	284.66	284.66	284.66	279.94	279.94
					10	284.53	284.53	284.51	284.53	284.51	284.51	284.51	284.51	279.45	279.47
					5	284.40	284.40	284.37	284.40	284.37	284.37	284.37	284.37	279.18	279.18
					2	283.25	283.25	282.72	284.19	282.72	282.72	282.72	282.72	279.01	278.81
D07_999156	Roadway Section 128	Teresa Cv	278.12	277.70	100	279.75	279.75	279.71	279.91	279.71	279.71	279.71	279.71	277.70	277.70
					50	279.57	279.57	279.53	279.85	279.53	279.53	279.53	279.53	277.70	277.70
					25	279.40	279.40	279.36	279.81	279.36	279.36	279.36	279.36	277.70	277.70
					10	279.17	279.17	279.14	279.63	279.14	279.14	279.14	279.14	277.70	277.70
					5	278.99	278.99	278.95	279.49	278.95	278.95	278.95	278.95	277.70	277.70
					2	277.70	277.70	277.70	279.30	277.70	277.70	277.70	277.70	277.70	277.70

**Drainage Master Plan Allen Basin East Study Area
(Watershed D)**

Table 4.2.1

**InfoSWMM Model Frequency Flood Results
(Existing Conditions Vs. Alternatives)**

Junction ID	Location Description	Address / Location	Critical WSEL (FFE or Min. Top of Road) (ft)	Calibration Event 1 (December 22, 2017) WSEL (ft)	Storm Recurrence Interval (yr)	Modeled Water Surface Elev. (ft)								
						EXISTING CONDITIONS	D-9	D-12	D-17	D-19	D-21	D-23	D-29	RECOMMENDED
D07_230	Roadway Section 129	Windermere Dr	274.30	269.91	100	275.39	275.39	275.39	275.72	275.39	275.39	275.39	272.43	272.45
					50	275.26	275.26	275.26	275.70	275.26	275.26	275.26	271.72	271.79
					25	275.13	275.13	275.13	275.59	275.13	275.13	275.13	271.30	271.36
					10	274.85	274.86	274.84	275.38	274.84	274.84	274.84	271.00	270.20
					5	274.60	274.60	274.59	275.30	274.59	274.59	274.59	271.01	271.21
					2	274.00	274.00	274.16	275.11	274.16	274.16	274.16	271.34	271.12
D06_1769	Roadway Section 130	New Allen Rd	240.08	229.50	100	238.83	238.80	238.83	238.82	238.80	238.81	238.71	238.78	238.84
					50	238.34	238.35	238.40	238.29	238.35	238.33	238.25	238.34	238.41
					25	237.79	237.79	237.76	237.79	237.80	237.79	237.74	237.81	237.77
					10	237.00	237.01	236.91	237.01	237.00	236.98	236.95	237.00	236.92
					5	236.26	236.27	236.33	236.26	236.26	236.23	236.23	236.26	236.34
					2	235.14	235.14	235.32	235.16	235.15	235.15	235.14	235.17	235.30
D00_999301	Roadway Section 131	New Allen Rd	242.60	237.73	100	243.07	243.07	243.07	243.07	243.07	243.06	243.07	243.08	243.07
					50	242.70	242.67	242.65	243.03	242.68	242.71	242.64	242.70	242.67
					25	242.49	242.50	242.50	242.50	242.49	242.50	242.49	242.50	242.50
					10	242.33	242.33	242.33	242.33	242.33	242.33	242.33	242.33	242.33
					5	242.16	242.16	242.16	242.16	242.16	242.16	242.15	242.16	242.16
					2	240.91	240.92	240.91	240.91	240.91	240.91	240.91	240.91	240.91
D00_10623	Roadway Section 132	New Allen Rd	243.10	238.11	100	243.95	243.96	243.95	243.94	243.95	243.95	243.90	243.95	243.97
					50	243.64	243.63	242.92	243.77	243.64	243.65	243.61	243.64	242.93
					25	242.07	242.08	242.07	242.07	242.07	242.07	242.03	242.07	242.08
					10	241.10	241.10	241.10	241.10	241.10	241.10	241.08	241.10	241.10
					5	240.56	240.57	240.56	240.56	240.56	240.56	240.54	240.56	240.57
					2	239.83	239.86	239.83	239.85	239.84	239.83	239.82	239.84	239.84
D00_10409	Roadway Section 133	New Allen Rd	243.66	237.15	100	244.24	244.32	244.27	244.26	244.32	244.26	244.30	244.33	244.28
					50	243.89	243.89	242.09	243.96	243.84	243.87	243.78	243.90	242.11
					25	241.29	241.30	241.29	241.29	241.29	241.29	241.24	241.29	241.30
					10	240.38	240.39	240.37	240.38	240.38	240.38	240.33	240.38	240.39
					5	240.15	240.19	240.15	240.15	240.15	240.15	240.10	240.15	240.19
					2	239.76	239.78	239.76	239.77	239.76	239.76	239.74	239.76	239.76

**Drainage Master Plan Allen Basin East Study Area
(Watershed D)**

Table 4.2.1

**InfoSWMM Model Frequency Flood Results
(Existing Conditions Vs. Alternatives)**

Junction ID	Location Description	Address / Location	Critical WSEL (FFE or Min. Top of Road) (ft)	Calibration Event 1 (December 22, 2017) WSEL (ft)	Storm Recurrence Interval (yr)	Modeled Water Surface Elev. (ft)								
						EXISTING CONDITIONS	D-9	D-12	D-17	D-19	D-21	D-23	D-29	RECOMMENDED
D00_999301	Roadway Section 134	New Allen Rd	242.60	237.73	100	243.07	243.07	243.07	243.07	243.07	243.06	243.07	243.08	243.07
					50	242.70	242.67	242.65	243.03	242.68	242.71	242.64	242.70	242.67
					25	242.49	242.50	242.50	242.50	242.49	242.50	242.49	242.50	242.50
					10	242.33	242.33	242.33	242.33	242.33	242.33	242.33	242.33	242.33
					5	242.16	242.16	242.16	242.16	242.16	242.16	242.15	242.16	242.16
					2	240.91	240.92	240.91	240.91	240.91	240.91	240.91	240.91	240.91
D00_10408	Roadway Section 135	New Allen Rd	242.80	237.80	100	246.79	246.79	246.79	246.80	246.79	246.79	246.75	246.79	246.79
					50	245.76	245.76	245.76	245.76	245.76	245.76	245.74	245.76	245.77
					25	244.81	244.81	244.81	244.81	244.81	244.81	244.79	244.81	244.81
					10	243.46	243.46	243.46	243.46	243.46	243.46	243.46	243.46	243.46
					5	242.68	242.68	242.68	242.68	242.68	242.68	242.70	242.68	242.68
					2	241.54	241.54	241.54	241.54	241.54	241.54	241.54	241.54	241.54
D00_10669	Roadway Section 136	New Allen Rd	255.50	249.86	100	253.50	253.50	253.49	253.50	253.50	253.50	253.04	253.50	253.51
					50	252.97	252.98	252.96	252.97	252.97	252.97	252.47	252.97	252.99
					25	252.31	252.35	252.28	252.30	252.32	252.32	251.71	252.32	252.35
					10	251.20	251.25	251.17	251.20	251.20	251.20	250.71	251.20	251.25
					5	250.39	250.39	250.39	250.39	250.39	250.39	250.33	250.39	250.39
					2	250.17	250.18	250.17	250.18	250.17	250.17	250.14	250.17	250.17
D00_10669	Roadway Section 137	New Allen Rd	255.50	249.86	100	253.50	253.50	253.49	253.50	253.50	253.50	253.04	253.50	253.51
					50	252.97	252.98	252.96	252.97	252.97	252.97	252.47	252.97	252.99
					25	252.31	252.35	252.28	252.30	252.32	252.32	251.71	252.32	252.35
					10	251.20	251.25	251.17	251.20	251.20	251.20	250.71	251.20	251.25
					5	250.39	250.39	250.39	250.39	250.39	250.39	250.33	250.39	250.39
					2	250.17	250.18	250.17	250.18	250.17	250.17	250.14	250.17	250.17

LENGEND

###.## Blue cells indicate max. water surface elevation is within 0.50 feet of critical elevation, but does not exceed the critical elevation.
 ###.## Red cells indicate max. water surface elevation exceeds the critical elevation.

Drainage Master Plan Allen Basin East Study Area - Watershed D

Table 4.2.2

Roadway Level of Service Table (Existing Conditions Vs. Alternatives)

Road Section	Road Name	Recommended Improvement Layout Map	Junction ID node	Level of Service (LOS) -Recurrence Interval Storm Event for which the Road is Operational								RECOMMENDED LOS
				EXISTING LOS	D-9 LOS	D-12 LOS	D-17 LOS	D-19 LOS	D-21 LOS	D-23 LOS	D-29 LOS	
Roadway Section 37	Ajanders Cv	D-9	D10_1056	2-year	25-year	2-year	2-year	2-year	2-year	2-year	2-year	25-year
Roadway Section 38	Ajanders Dr	D-9	D10_30621	< 2-year	10-year	< 2-year	10-year					
Roadway Section 39	Ferdie Cv	D-9	D10_1063	5-year	100-year	5-year	5-year	5-year	5-year	5-year	5-year	100-year
Roadway Section 40	Gruber Cv	D-9	D10_1054	10-year	50-year	5-year	10-year	10-year	10-year	10-year	10-year	100-year
Roadway Section 41	Gruber Dr	D-9	D10_1051	2-year	50-year	2-year	2-year	2-year	2-year	2-year	2-year	50-year
Roadway Section 42	Gruber Dr	D-9	D10_999033	< 2-year	10-year	< 2-year	10-year					
Roadway Section 43	Point Church Rd	D-9	D10_1062	< 2-year	25-year	< 2-year	25-year					
Roadway Section 53	Emerson Av	D-12	D06_177	2-year	2-year	100-year	2-year	2-year	2-year	10-year	2-year	100-year
Roadway Section 54	Hobson Cv	D-12	D06_179	< 2-year	< 2-year	50-year	< 2-year	50-year				
Roadway Section 55	Ridgemont Rd	D-12	D06_127	< 2-year	< 2-year	25-year	< 2-year	25-year				
Roadway Section 56	Ridgemont Rd	D-12	D06_200	< 2-year	< 2-year	100-year	< 2-year	100-year				
Roadway Section 57	Ridgemont Rd	D-12	D06_179	< 2-year	< 2-year	50-year	< 2-year	50-year				
Roadway Section 58	Trudy Cv	D-12	D06_128	2-year	2-year	100-year	2-year	2-year	2-year	5-year	2-year	50-year
Roadway Section 59	Trudy St	D-12	D06_999144	100-year	100-year	100-year	100-year	100-year	100-year	100-year	100-year	100-year
Roadway Section 60	Trudy St	D-12	D06_999147	25-year	25-year	100-year	50-year	50-year	25-year	100-year	50-year	100-year
Roadway Section 61	Trudy St	D-12	D06_177	2-year	2-year	100-year	2-year	2-year	2-year	10-year	2-year	100-year
Roadway Section 62	Trudy St	D-12	D06_177	2-year	2-year	100-year	2-year	2-year	2-year	10-year	2-year	100-year
Roadway Section 63	Kipling Av		D06_176	< 2-year	< 2-year	5-year	< 2-year	5-year				
Roadway Section 68	Tessland Rd		D06_165	2-year	2-year	< 2-year	2-year	2-year	2-year	2-year	2-year	2-year
Roadway Section 76	Dante Av	D-17	D06_193	2-year	2-year	2-year	100-year	2-year	2-year	2-year	2-year	100-year
Roadway Section 77	Dante Av	D-17	D06_192	2-year	2-year	2-year	100-year	2-year	2-year	2-year	2-year	100-year
Roadway Section 78	Dante Av	D-17	D06_191	5-year	5-year	5-year	100-year	5-year	5-year	5-year	5-year	100-year
Roadway Section 79	Kerwin Dr	D-17	D06_193	2-year	2-year	2-year	100-year	2-year	2-year	2-year	2-year	100-year
Roadway Section 80	Pippin St	D-17	D06_195	< 2-year	< 2-year	< 2-year	100-year	< 2-year	< 2-year	< 2-year	< 2-year	100-year
Roadway Section 81	Saint Elmo Av	D-17	D06_19	100-year	100-year	100-year	100-year	100-year	100-year	100-year	100-year	100-year
Roadway Section 82	Trudy St	D-17	D06_190	2-year	2-year	2-year	25-year	2-year	2-year	2-year	2-year	25-year
Roadway Section 84	Kerwood Av		D06_187	2-year	2-year	< 2-year	< 2-year	< 2-year	2-year	< 2-year	< 2-year	< 2-year
Roadway Section 85	Saint Elmo Av		D06_189	100-year	100-year	100-year	25-year	100-year	100-year	100-year	100-year	25-year
Roadway Section 87	Bowmar Cv	D-19	D06_161	< 2-year	< 2-year	2-year	2-year	100-year	2-year	2-year	2-year	100-year
Roadway Section 88	Kerwin Dr	D-19	D06_158	< 2-year	< 2-year	< 2-year	< 2-year	100-year	< 2-year	< 2-year	< 2-year	100-year
Roadway Section 89	Longsneck Cv	D-19	D06_159	< 2-year	< 2-year	< 2-year	< 2-year	100-year	< 2-year	< 2-year	< 2-year	100-year
Roadway Section 90	Pippin St	D-19	D06_999145	< 2-year	< 2-year	< 2-year	< 2-year	100-year	< 2-year	< 2-year	< 2-year	100-year
Roadway Section 91	Pippin St	D-19	D06_999129	< 2-year	< 2-year	< 2-year	< 2-year	100-year	< 2-year	< 2-year	< 2-year	100-year
Roadway Section 92	Twinmont St	D-19	D06_163	< 2-year	< 2-year	< 2-year	< 2-year	100-year	< 2-year	< 2-year	< 2-year	100-year

Drainage Master Plan Allen Basin East Study Area - Watershed D

Table 4.2.2

Roadway Level of Service Table (Existing Conditions Vs. Alternatives)

Road Section	Road Name	Recommended Improvement Layout Map	Junction ID node	Level of Service (LOS) -Recurrence Interval Storm Event for which the Road is Operational								RECOMMENDED LOS
				EXISTING LOS	D-9 LOS	D-12 LOS	D-17 LOS	D-19 LOS	D-21 LOS	D-23 LOS	D-29 LOS	
Roadway Section 93	Kerwin Dr	D-21	D06_999104	2-year	2-year	2-year	5-year	2-year	100-year	2-year	2-year	100-year
Roadway Section 94	Kerwin Dr	D-21	D06_133	< 2-year	< 2-year	< 2-year	< 2-year	< 2-year	10-year	< 2-year	< 2-year	2-year
Roadway Section 95	Kerwin Dr	D-21	D06_999105	< 2-year	< 2-year	< 2-year	< 2-year	< 2-year	100-year	< 2-year	< 2-year	25-year
Roadway Section 96	Twin Lakes Dr	D-21	D06_999105	< 2-year	< 2-year	< 2-year	< 2-year	< 2-year	100-year	< 2-year	< 2-year	25-year
Roadway Section 97	Barberry St	D-21	D06_999120	2-year	2-year	2-year	2-year	2-year	100-year	2-year	2-year	100-year
Roadway Section 98	Battlefield Dr	D-21	D06_134	< 2-year	< 2-year	< 2-year	< 2-year	< 2-year	100-year	< 2-year	< 2-year	50-year
Roadway Section 99	Battlefield Dr	D-21	D06_135	< 2-year	< 2-year	10-year	< 2-year	10-year	100-year	10-year	10-year	100-year
Roadway Section 100	Battlefield Dr	D-21	D06_999146	< 2-year	< 2-year	< 2-year	< 2-year	< 2-year	100-year	< 2-year	< 2-year	100-year
Roadway Section 101	Battlefield Dr	D-21	D06_138	< 2-year	< 2-year	< 2-year	< 2-year	< 2-year	100-year	< 2-year	< 2-year	100-year
Roadway Section 102	Dagmar St	D-21	D06_135	< 2-year	< 2-year	10-year	< 2-year	10-year	100-year	10-year	10-year	100-year
Roadway Section 103	Longhollow Cv	D-21	D06_999115	5-year	5-year	5-year	5-year	5-year	50-year	5-year	5-year	50-year
Roadway Section 104	Longhollow Dr	D-21	D06_999115	5-year	5-year	5-year	5-year	5-year	50-year	5-year	5-year	50-year
Roadway Section 105	Longhollow Dr	D-21	D06_999114	100-year	100-year	100-year	100-year	100-year	100-year	100-year	100-year	100-year
Roadway Section 106	Twinmont St	D-21	D06_999118	2-year	2-year	2-year	2-year	2-year	100-year	2-year	2-year	100-year
Roadway Section 107	Twinmont St	D-21	D06_999117	25-year	25-year	25-year	25-year	25-year	100-year	25-year	25-year	100-year
Roadway Section 108	Twinmont St	D-21	D06_7	10-year	10-year	100-year	10-year	100-year	100-year	100-year	100-year	100-year
Roadway Section 110	Dorado Av	D-23	D07_999150	5-year	5-year	5-year	5-year	5-year	5-year	100-year	5-year	100-year
Roadway Section 111	Dorado Av	D-23	D07_243	< 2-year	< 2-year	< 2-year	< 2-year	< 2-year	< 2-year	100-year	< 2-year	100-year
Roadway Section 112	Dorado Av	D-23	D07_242	100-year	100-year	100-year	100-year	100-year	100-year	100-year	100-year	100-year
Roadway Section 113	Dorado Cv	D-23	D07_243	< 2-year	< 2-year	< 2-year	< 2-year	< 2-year	< 2-year	100-year	< 2-year	100-year
Roadway Section 114	Dove Call Cv	D-23	D07_240	2-year	2-year	2-year	2-year	2-year	2-year	100-year	2-year	100-year
Roadway Section 115	Longmont Dr	D-23	D07_237	10-year	10-year	10-year	10-year	10-year	10-year	100-year	10-year	100-year
Roadway Section 116	Longmont Dr	D-23	D07_238	10-year	10-year	10-year	10-year	10-year	10-year	100-year	10-year	100-year
Roadway Section 117	Longmont Dr	D-23	D07_236	5-year	5-year	5-year	5-year	5-year	5-year	100-year	5-year	100-year
Roadway Section 118	Windermere Dr	D-23	D07_238	10-year	10-year	10-year	10-year	10-year	10-year	100-year	10-year	100-year
Roadway Section 119	Windermere Dr	D-23	D07_241	< 2-year	< 2-year	< 2-year	< 2-year	< 2-year	< 2-year	100-year	< 2-year	50-year
Roadway Section 120	Windermere Dr	D-23	D07_240	2-year	2-year	2-year	2-year	2-year	2-year	100-year	2-year	100-year
Roadway Section 121	Wolf Trail Dr	D-23	D07_245	< 2-year	< 2-year	< 2-year	< 2-year	< 2-year	< 2-year	100-year	< 2-year	100-year
Roadway Section 123	Edgefield Dr	D-29	D07_999155	2-year	2-year	2-year	2-year	2-year	2-year	2-year	100-year	100-year
Roadway Section 124	Edgefield Dr	D-29	D07_999156	2-year	2-year	2-year	< 2-year	2-year	2-year	2-year	100-year	100-year
Roadway Section 125	Edgefield Dr	D-29	D07_232	2-year	2-year	2-year	< 2-year	2-year	2-year	2-year	100-year	100-year
Roadway Section 126	Frayser Raleigh Rd	D-29	D07_999158	5-year	5-year	5-year	< 2-year	5-year	5-year	5-year	100-year	100-year
Roadway Section 127	South Ridge Av	D-29	D07_233	2-year	2-year	2-year	< 2-year	2-year	2-year	2-year	100-year	100-year
Roadway Section 128	Teresa Cv	D-29	D07_999156	2-year	2-year	2-year	< 2-year	2-year	2-year	2-year	100-year	100-year

Drainage Master Plan Allen Basin East Study Area - Watershed D

Table 4.2.2

Roadway Level of Service Table (Existing Conditions Vs. Alternatives)

Road Section	Road Name	Recommended Improvement Layout Map	Junction ID node	Level of Service (LOS) -Recurrence Interval Storm Event for which the Road is Operational								RECOMMENDED LOS	
				EXISTING LOS	D-9 LOS	D-12 LOS	D-17 LOS	D-19 LOS	D-21 LOS	D-23 LOS	D-29 LOS		
Roadway Section 129	Windermere Dr	D-29	D07_230	2-year	2-year	2-year	< 2-year	2-year	2-year	2-year	2-year	100-year	100-year
Roadway Section 130	New Allen Rd		D06_1769	100-year	100-year	100-year	100-year	100-year	100-year	100-year	100-year	100-year	100-year

LEGEND

	Green cells indicate improvement in LOS.
	Orange cells indicate reduction in LOS.

**Allen Basin Drainage Master Plan
East Study Area (Watershed D)**

Table 4.2.3

**Downstream Impact Analysis Table
(Existing Conditions Vs. Alternatives)**

Comparison Point ID	Junction ID	Location Description	Storm Recurrence Interval (yr)	Modeled Water Surface Elev. (ft)								
				EXISTING CONDITIONS	D-9	D-12	D-17	D-19	D-21	D-23	D-29	RECOMMENDED
1	D06_105	Inlet behind 3862 Winwood Dr	100	273.25	273.25	272.83	273.26	273.20	273.54	273.20	273.36	273.76
			50	272.63	272.63	272.30	272.65	272.65	272.91	272.65	272.74	273.09
			25	271.92	271.92	271.58	271.95	271.94	272.25	271.94	272.05	272.37
			10	270.92	270.91	270.56	271.00	270.99	271.31	270.94	271.08	271.35
			5	270.08	270.08	269.69	270.11	270.12	270.49	270.11	270.25	270.48
			2	268.66	268.66	268.33	268.72	268.73	269.07	268.73	268.91	269.03
2	D06_20009	Inlet behind 3914 Winwood Dr	100	269.88	269.89	269.02	269.88	269.85	269.20	269.86	269.94	270.08
			50	269.53	269.52	268.77	269.53	269.53	268.99	269.54	269.62	269.82
			25	269.11	269.11	268.40	269.12	269.12	268.77	269.12	269.20	269.41
			10	268.52	268.47	267.89	268.57	268.56	268.47	268.55	268.65	268.80
			5	268.03	268.03	267.42	268.05	268.04	268.20	268.06	268.13	270.23
			2	267.25	267.25	266.79	267.29	267.28	267.44	267.29	267.39	267.43
3	D06_796	RCBC Headwall at 3835 Kerfield Dr	100	267.80	267.80	267.94	267.82	267.83	266.90	267.82	267.85	267.87
			50	267.51	267.51	267.72	267.54	267.56	266.88	267.54	267.61	267.70
			25	267.21	267.21	267.40	267.24	267.25	266.86	267.25	267.30	267.39
			10	266.73	266.66	266.96	266.79	266.81	266.82	266.80	266.88	266.96
			5	266.41	266.41	266.52	266.43	266.44	266.74	266.43	266.47	266.53
			2	265.90	265.90	266.05	265.93	265.92	266.24	265.93	265.98	265.99
4	D06_430	RCBC Headwall at 3853 Kerwood Av	100	266.05	266.05	266.10	266.06	266.08	264.14	266.07	266.09	266.09
			50	265.75	265.75	265.96	265.78	265.79	264.14	265.78	265.85	265.95
			25	265.37	265.37	265.57	265.39	265.40	264.13	265.40	265.42	265.55
			10	265.05	264.76	265.29	265.11	265.15	264.09	265.15	265.22	265.26
			5	264.47	264.47	264.64	264.49	264.53	264.00	264.53	264.57	264.61
			2	263.81	263.81	264.08	263.86	263.93	263.94	263.93	264.01	263.96

###.##

Blue cells indicate max. water surface elevation has increased less than 0.25 feet from existing max. water surface elevation.

###.##

Red cells indicate max. water surface elevation has increased 0.25 feet or more from existing max. water surface elevation.

**Allen Basin Drainage Master Plan
East Study Area (Watershed D)**

Table 4.2.3

**Downstream Impact Analysis Table
(Existing Conditions Vs. Alternatives)**

Comparison Point ID	Junction ID	Location Description	Storm Recurrence Interval (yr)	Modeled Water Surface Elev. (ft)								
				EXISTING CONDITIONS	D-9	D-12	D-17	D-19	D-21	D-23	D-29	RECOMMENDED
5	D06_112	RCBC Headwall at 3839 St Elmo Av	100	263.97	263.97	264.03	263.98	263.97	262.37	263.97	263.99	263.98
			50	263.71	263.71	263.89	263.72	263.73	262.35	263.73	263.77	263.85
			25	263.52	263.52	263.67	263.56	263.54	262.32	263.54	263.62	263.66
			10	263.26	263.31	263.17	263.20	263.12	262.12	263.13	263.10	263.18
			5	262.82	262.82	263.03	262.86	262.87	261.79	262.85	262.93	263.02
			2	261.69	261.69	262.17	261.81	261.80	261.55	261.81	262.00	261.97
6	D06_114	Stream behind 4015 Trudy St	100	256.66	256.66	256.66	257.13	256.66	256.66	256.66	256.66	257.13
			50	256.65	256.65	256.65	257.12	256.65	256.65	256.65	256.65	257.12
			25	256.62	256.62	256.62	257.00	256.62	256.62	256.62	256.62	257.00
			10	256.51	256.51	256.51	256.70	256.51	256.46	256.51	256.51	256.70
			5	256.45	256.45	256.47	256.46	256.46	256.30	256.45	256.46	256.51
			2	256.00	256.00	256.16	256.03	256.03	255.95	256.03	256.10	256.08
7	D06_115	Stream behind 4061 Strudy St	100	255.08	255.08	255.08	255.29	255.08	254.90	255.08	255.08	255.31
			50	255.11	255.11	255.10	255.26	255.11	254.87	255.11	255.11	255.28
			25	255.06	255.06	255.05	255.27	255.06	254.89	255.06	255.05	255.28
			10	255.05	255.05	255.10	255.25	255.08	254.95	255.07	255.08	255.26
			5	255.07	255.07	255.10	255.12	255.07	254.97	255.07	255.07	255.15
			2	254.87	254.87	255.01	254.89	254.89	254.82	254.89	254.95	254.94
8	D06_999101	Stream behind 3801 Tessland av	100	255.74	255.74	255.74	255.79	255.74	255.74	255.74	255.74	255.79
			50	255.55	255.55	255.54	255.59	255.55	255.54	255.55	255.55	255.59
			25	255.25	255.25	255.27	255.33	255.26	255.23	255.25	255.27	255.34
			10	254.68	254.68	254.70	254.76	254.69	254.65	254.69	254.70	254.77
			5	254.34	254.34	254.39	254.38	254.37	254.31	254.36	254.38	254.39
			2	253.61	253.61	253.79	253.64	253.67	253.70	253.65	253.75	253.66

###.##

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###.##

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**Allen Basin Drainage Master Plan
East Study Area (Watershed D)**

Table 4.2.3

**Downstream Impact Analysis Table
(Existing Conditions Vs. Alternatives)**

Comparison Point ID	Junction ID	Location Description	Storm Recurrence Interval (yr)	Modeled Water Surface Elev. (ft)								
				EXISTING CONDITIONS	D-9	D-12	D-17	D-19	D-21	D-23	D-29	RECOMMENDED
9	D06_119	RCBC Outlet at Tessland Av Pressure Gage	100	250.69	250.69	250.69	250.69	250.69	250.69	250.69	250.69	250.69
			50	250.65	250.65	250.65	250.67	250.65	250.65	250.65	250.65	250.67
			25	250.58	250.58	250.58	250.60	250.58	250.57	250.58	250.58	250.60
			10	250.38	250.38	250.40	250.42	250.39	250.38	250.39	250.39	250.42
			5	250.22	250.22	250.24	250.24	250.23	250.21	250.23	250.24	250.24
			2	249.87	249.87	249.93	249.88	249.89	249.90	249.88	249.92	249.87
10	D06_121	RCBC Headwall at Kipling Av	100	247.72	247.72	247.69	247.75	247.72	247.72	247.66	247.72	247.72
			50	247.59	247.59	247.53	247.62	247.59	247.59	247.54	247.59	247.56
			25	247.45	247.45	247.37	247.47	247.45	247.45	247.40	247.45	247.39
			10	247.22	247.22	247.16	247.24	247.22	247.21	247.19	247.23	247.17
			5	246.98	246.98	245.98	247.00	246.99	246.98	246.98	247.00	245.98
			2	246.61	246.61	245.18	246.62	246.63	246.63	246.62	246.65	245.05
11	D06_124	Stream behind 4247 Trudy St	100	246.18	246.18	246.32	246.20	246.18	246.17	246.06	246.18	246.36
			50	246.02	246.02	245.98	246.04	246.01	246.01	245.91	246.02	246.02
			25	245.83	245.83	245.65	245.85	245.83	245.83	245.73	245.83	245.68
			10	245.49	245.49	245.33	245.53	245.49	245.49	245.39	245.50	245.36
			5	244.90	244.90	239.23	244.94	244.92	244.91	244.88	244.93	239.24
			2	244.15	244.15	238.79	244.17	244.17	244.18	244.16	244.20	238.78
9	D06_119	RCBC Outlet at Tessland Av Pressure Gage	100	250.69	250.69	250.69	250.69	250.69	250.69	250.69	250.69	250.69
			50	250.65	250.65	250.65	250.67	250.65	250.65	250.65	250.65	250.67
			25	250.58	250.58	250.58	250.60	250.58	250.57	250.58	250.58	250.60
			10	250.38	250.38	250.40	250.42	250.39	250.38	250.39	250.39	250.42
			5	250.22	250.22	250.24	250.24	250.23	250.21	250.23	250.24	250.24
			2	249.87	249.87	249.93	249.88	249.89	249.90	249.88	249.92	249.87

###.##

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###.##

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**Allen Basin Drainage Master Plan
East Study Area (Watershed D)**

Table 4.2.3

**Downstream Impact Analysis Table
(Existing Conditions Vs. Alternatives)**

Comparison Point ID	Junction ID	Location Description	Storm Recurrence Interval (yr)	Modeled Water Surface Elev. (ft)								
				EXISTING CONDITIONS	D-9	D-12	D-17	D-19	D-21	D-23	D-29	RECOMMENDED
10	D06_121	RCBC Headwall at Kipling Av	100	247.72	247.72	247.69	247.75	247.72	247.72	247.66	247.72	247.72
			50	247.59	247.59	247.53	247.62	247.59	247.59	247.54	247.59	247.56
			25	247.45	247.45	247.37	247.47	247.45	247.45	247.40	247.45	247.39
			10	247.22	247.22	247.16	247.24	247.22	247.21	247.19	247.23	247.17
			5	246.98	246.98	245.98	247.00	246.99	246.98	246.98	247.00	245.98
			2	246.61	246.61	245.18	246.62	246.63	246.63	246.62	246.65	245.05
11	D06_124	Stream behind 4247 Trudy St	100	246.18	246.18	246.32	246.20	246.18	246.17	246.06	246.18	246.36
			50	246.02	246.02	245.98	246.04	246.01	246.01	245.91	246.02	246.02
			25	245.83	245.83	245.65	245.85	245.83	245.83	245.73	245.83	245.68
			10	245.49	245.49	245.33	245.53	245.49	245.49	245.39	245.50	245.36
			5	244.90	244.90	239.23	244.94	244.92	244.91	244.88	244.93	239.24
			2	244.15	244.15	238.79	244.17	244.17	244.18	244.16	244.20	238.78
9	D06_119	RCBC Outlet at Tessland Av Pressure Gage	100	250.69	250.69	250.69	250.69	250.69	250.69	250.69	250.69	250.69
			50	250.65	250.65	250.65	250.67	250.65	250.65	250.65	250.65	250.67
			25	250.58	250.58	250.58	250.60	250.58	250.57	250.58	250.58	250.60
			10	250.38	250.38	250.40	250.42	250.39	250.38	250.39	250.39	250.42
			5	250.22	250.22	250.24	250.24	250.23	250.21	250.23	250.24	250.24
			2	249.87	249.87	249.93	249.88	249.89	249.90	249.88	249.92	249.87
10	D06_121	RCBC Headwall at Kipling Av	100	247.72	247.72	247.69	247.75	247.72	247.72	247.66	247.72	247.72
			50	247.59	247.59	247.53	247.62	247.59	247.59	247.54	247.59	247.56
			25	247.45	247.45	247.37	247.47	247.45	247.45	247.40	247.45	247.39
			10	247.22	247.22	247.16	247.24	247.22	247.21	247.19	247.23	247.17
			5	246.98	246.98	245.98	247.00	246.99	246.98	246.98	247.00	245.98
			2	246.61	246.61	245.18	246.62	246.63	246.63	246.62	246.65	245.05

###.##

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**Allen Basin Drainage Master Plan
East Study Area (Watershed D)**

Table 4.2.3

**Downstream Impact Analysis Table
(Existing Conditions Vs. Alternatives)**

Comparison Point ID	Junction ID	Location Description	Storm Recurrence Interval (yr)	Modeled Water Surface Elev. (ft)								
				EXISTING CONDITIONS	D-9	D-12	D-17	D-19	D-21	D-23	D-29	RECOMMENDED
11	D06_124	Stream behind 4247 Trudy St	100	246.18	246.18	246.32	246.20	246.18	246.17	246.06	246.18	246.36
			50	246.02	246.02	245.98	246.04	246.01	246.01	245.91	246.02	246.02
			25	245.83	245.83	245.65	245.85	245.83	245.83	245.73	245.83	245.68
			10	245.49	245.49	245.33	245.53	245.49	245.49	245.39	245.50	245.36
			5	244.90	244.90	239.23	244.94	244.92	244.91	244.88	244.93	239.24
			2	244.15	244.15	238.79	244.17	244.17	244.18	244.16	244.20	238.78
12	D06_99995	Stream behind 4273 Hobson Cv	100	243.87	243.87	241.47	243.90	243.87	243.86	243.73	243.87	241.49
			50	243.64	243.64	241.18	243.67	243.63	243.63	243.50	243.64	241.22
			25	243.33	243.33	240.58	243.36	243.33	243.33	243.21	243.33	240.66
			10	242.79	242.79	239.40	242.84	242.79	242.78	242.71	242.80	239.40
			5	242.43	242.43	239.28	242.46	242.44	242.44	242.41	242.45	239.28
			2	242.00	242.00	238.79	242.01	242.00	242.01	242.00	242.00	242.02
13	D06_99992	Stream behind 3644 Trudy Cv	100	239.11	239.09	239.14	239.10	239.09	239.10	239.02	239.08	239.20
			50	238.81	238.81	238.81	238.80	238.81	238.81	238.76	238.81	238.83
			25	238.61	238.61	238.57	238.63	238.61	238.61	238.57	238.62	238.60
			10	238.09	238.09	238.06	238.10	238.09	238.08	238.07	238.10	238.06
			5	237.75	237.75	237.97	237.77	237.76	237.75	237.74	237.77	237.97
			2	237.26	237.26	237.43	237.27	237.27	237.28	237.27	237.30	237.42
14	D07_999137	Stream east of 3625 Jireh Dr	100	263.46	263.46	263.46	263.33	263.46	263.46	263.46	263.59	263.58
			50	263.07	263.06	263.05	262.91	263.07	263.05	263.07	263.09	263.09
			25	262.53	262.52	262.52	262.39	262.51	262.51	262.52	262.48	262.49
			10	261.72	261.72	261.72	261.74	261.72	261.72	261.72	261.77	261.76
			5	261.13	261.13	261.13	261.15	261.13	261.13	261.13	261.12	261.12
			2	260.10	260.10	260.10	260.09	260.10	260.10	260.10	260.08	260.06

###.##

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###.##

Red cells indicate max. water surface elevation has increased 0.25 feet or more from existing max. water surface elevation.

**Allen Basin Drainage Master Plan
East Study Area (Watershed D)**

Table 4.2.3

**Downstream Impact Analysis Table
(Existing Conditions Vs. Alternatives)**

Comparison Point ID	Junction ID	Location Description	Storm Recurrence Interval (yr)	Modeled Water Surface Elev. (ft)								
				EXISTING CONDITIONS	D-9	D-12	D-17	D-19	D-21	D-23	D-29	RECOMMENDED
15	D07_999134	Stream confluence northeast of Wolf Trail Dr	100	257.61	257.61	257.61	257.55	257.61	257.61	257.67	257.66	257.73
			50	257.34	257.34	257.34	257.27	257.34	257.34	257.38	257.39	257.45
			25	257.01	257.01	257.01	256.90	257.01	257.01	257.04	257.06	257.12
			10	256.46	256.45	256.46	256.46	256.46	256.46	256.49	256.51	256.56
			5	255.88	255.88	255.88	255.85	255.88	255.88	255.83	255.91	255.88
			2	254.78	254.78	254.78	254.69	254.78	254.78	254.65	254.79	254.66
16	D07_810	Hawkins Mill Rd Inlet	100	252.45	252.45	252.45	252.39	252.46	252.45	252.47	252.48	252.51
			50	252.19	252.19	252.19	252.12	252.19	252.19	252.20	252.21	252.22
			25	251.88	251.88	251.88	251.82	251.88	251.88	251.89	251.89	251.90
			10	251.43	251.43	251.42	251.41	251.42	251.42	251.42	251.43	251.43
			5	251.01	251.01	251.01	250.98	251.01	251.01	250.99	251.01	251.00
			2	250.33	250.33	250.33	250.30	250.33	250.33	250.32	250.33	250.32
17	D10_99930	Stream east of Canadian Central Railroad	100	270.52	270.48	270.52	270.52	270.51	270.51	270.51	270.51	270.51
			50	270.44	270.46	270.43	270.43	270.43	270.43	270.44	270.44	270.46
			25	270.31	270.39	270.32	270.31	270.32	270.32	270.32	270.32	270.39
			10	270.16	270.29	270.17	270.16	270.16	270.16	270.16	270.16	270.29
			5	270.10	270.22	270.10	270.10	270.10	270.10	270.10	270.10	270.22
			2	270.03	270.11	270.03	270.03	270.03	270.03	270.03	270.03	270.11
18	D10_10802	Swoosh Dr RCP inlet	100	265.36	265.36	265.36	265.36	265.36	265.36	265.36	265.36	265.36
			50	265.36	265.36	265.36	265.36	265.36	265.36	265.36	265.36	265.36
			25	265.26	265.36	265.26	265.26	265.26	265.27	265.26	265.26	265.36
			10	264.57	264.71	264.57	264.57	264.57	264.57	264.57	264.57	264.71
			5	264.39	264.42	264.39	264.39	264.39	264.39	264.39	264.39	264.42
			2	263.80	263.79	263.80	263.80	263.80	263.80	263.80	263.80	263.79

###.##

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###.##

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**Allen Basin Drainage Master Plan
East Study Area (Watershed D)
Table 4.2.3
Downstream Impact Analysis Table
(Existing Conditions Vs. Alternatives)**

Comparison Point ID	Junction ID	Location Description	Storm Recurrence Interval (yr)	Modeled Water Surface Elev. (ft)								
				EXISTING CONDITIONS	D-9	D-12	D-17	D-19	D-21	D-23	D-29	RECOMMENDED
19	D00_10579	New Allen Rd downstream of Victory Ridge Cv	100	247.21	247.21	247.21	247.21	247.21	247.21	247.14	247.21	247.21
			50	247.12	247.13	247.12	247.12	247.12	247.12	247.05	247.12	247.13
			25	247.01	247.02	247.00	247.01	247.01	247.01	246.92	247.01	247.02
			10	246.83	246.84	246.83	246.83	246.83	246.83	246.78	246.83	246.84
			5	246.66	246.68	246.65	246.66	246.66	246.66	246.61	246.66	246.68
			2	246.24	246.25	246.24	246.24	246.24	246.24	246.22	246.24	246.25
20	D00_10398	New Allen Rd at Hawkins Mill Rd	100	243.07	243.07	243.07	243.07	243.07	243.06	243.07	243.07	243.07
			50	242.70	242.67	242.38	243.03	242.68	242.71	242.64	242.70	242.41
			25	241.60	241.60	241.60	241.60	241.59	241.59	241.56	241.59	241.60
			10	240.94	240.94	240.94	240.94	240.94	240.94	240.90	240.94	240.94
			5	240.25	240.26	240.25	240.25	240.25	240.25	240.22	240.25	240.26
			2	238.24	238.27	238.24	238.26	238.24	238.24	238.24	238.23	238.24
20	D00_10398	New Allen Rd at Hawkins Mill Rd	100	243.07	243.07	243.07	243.07	243.07	243.06	243.07	243.07	243.07
			50	242.70	242.67	242.38	243.03	242.68	242.71	242.64	242.70	242.41
			25	241.60	241.60	241.60	241.60	241.59	241.59	241.56	241.59	241.60
			10	240.94	240.94	240.94	240.94	240.94	240.94	240.90	240.94	240.94
			5	240.25	240.26	240.25	240.25	240.25	240.25	240.22	240.25	240.26
			2	238.24	238.27	238.24	238.26	238.24	238.24	238.24	238.23	238.24
21	D00_9794	New Allen Rd 1000 ft. southwest of Ridgmont Rd	100	240.54	240.30	240.46	240.51	240.32	240.60	240.22	240.19	240.57
			50	239.49	239.48	239.28	239.29	239.39	239.40	239.34	239.44	239.35
			25	238.10	238.08	238.11	238.07	238.07	238.07	238.04	238.07	238.13
			10	237.09	237.11	237.13	237.09	237.09	237.09	237.04	237.09	237.17
			5	236.32	236.33	236.39	236.31	236.31	236.31	236.29	236.31	236.41
			2	233.72	233.74	233.72	233.73	233.72	233.72	233.72	233.72	233.72

###.##

Blue cells indicate max. water surface elevation has increased less than 0.25 feet from existing max. water surface elevation.

###.##

Red cells indicate max. water surface elevation has increased 0.25 feet or more from existing max. water surface elevation.

**Allen Basin Drainage Master Plan
East Study Area (Watershed D)**

Table 4.2.3

**Downstream Impact Analysis Table
(Existing Conditions Vs. Alternatives)**

Comparison Point ID	Junction ID	Location Description	Storm Recurrence Interval (yr)	Modeled Water Surface Elev. (ft)								
				EXISTING CONDITIONS	D-9	D-12	D-17	D-19	D-21	D-23	D-29	RECOMMENDED
22	D00_9756	New Allen Rd at Ridgemont Rd	100	239.97	240.00	240.00	239.96	240.05	239.98	240.07	240.15	239.99
			50	240.11	240.10	239.98	240.15	240.15	240.15	240.15	240.08	240.12
			25	238.74	238.75	238.83	238.77	238.75	238.74	238.74	238.76	238.76
			10	237.50	237.51	237.53	237.50	237.49	237.49	237.45	237.49	237.57
			5	236.78	236.79	236.85	236.77	236.77	236.77	236.75	236.77	236.86
			2	234.98	235.00	235.13	234.99	234.98	234.98	234.97	234.99	235.13
23	D00_9686	New Allen Rd at New Allen Pressure Gage	100	237.13	237.16	237.18	237.13	237.16	237.14	237.14	237.16	237.19
			50	236.90	236.87	237.00	236.84	236.88	236.89	236.83	236.91	237.03
			25	236.22	236.23	236.29	236.23	236.24	236.25	236.22	236.25	236.27
			10	235.57	235.58	235.58	235.58	235.57	235.58	235.52	235.57	235.61
			5	234.98	234.99	235.04	234.97	234.97	234.96	234.94	234.97	235.07
			2	234.14	234.14	234.26	234.14	234.12	234.13	234.12	234.13	234.26
24	D00_10151	Egypt Central Road	100	234.22	234.22	234.24	234.21	234.22	234.22	234.21	234.22	234.24
			50	234.11	234.11	234.13	234.07	234.10	234.11	234.06	234.11	234.14
			25	233.83	233.84	233.89	233.83	233.85	233.84	233.83	233.85	233.89
			10	233.45	233.45	233.48	233.46	233.45	233.47	233.44	233.45	233.50
			5	233.11	233.12	233.19	233.11	233.15	233.14	233.10	233.11	233.20
			2	232.67	232.68	232.77	232.67	232.68	232.68	232.67	232.68	232.75
25	D00_99917	Stream west of Royal Wood Dr	100	228.22	228.19	228.23	228.22	228.19	228.20	228.18	228.19	228.23
			50	227.96	227.97	228.01	227.95	227.97	227.96	227.95	227.96	228.01
			25	227.82	227.82	227.83	227.82	227.82	227.82	227.82	227.82	227.84
			10	227.75	227.75	227.75	227.75	227.75	227.75	227.74	227.75	227.76
			5	227.54	227.54	227.57	227.54	227.54	227.54	227.53	227.54	227.58
			2	227.08	227.08	227.12	227.08	227.08	227.08	227.08	227.08	227.12

###.##

Blue cells indicate max. water surface elevation has increased less than 0.25 feet from existing max. water surface elevation.

###.##

Red cells indicate max. water surface elevation has increased 0.25 feet or more from existing max. water surface elevation.

**Allen Basin Drainage Master Plan
East Study Area (Watershed D)
Table 4.2.3
Downstream Impact Analysis Table
(Existing Conditions Vs. Alternatives)**

Comparison Point ID	Junction ID	Location Description	Storm Recurrence Interval (yr)	Modeled Water Surface Elev. (ft)								
				EXISTING CONDITIONS	D-9	D-12	D-17	D-19	D-21	D-23	D-29	RECOMMENDED
26	_999182	Watershed Outfall	100	216.84	216.83	216.84	216.84	216.83	216.83	216.83	216.83	216.84
			50	216.75	216.75	216.76	216.75	216.75	216.75	216.75	216.75	216.76
			25	216.65	216.65	216.65	216.65	216.65	216.65	216.65	216.65	216.65
			10	216.39	216.38	216.39	216.39	216.38	216.38	216.38	216.39	216.39
			5	216.11	216.11	216.12	216.11	216.11	216.11	216.11	216.11	216.13
			2	215.66	215.66	215.68	215.66	215.66	215.66	215.66	215.66	215.68

LENGEND

###.##	Blue cells indicate max. water surface elevation has increased less than 0.25 feet from existing max. water surface elevation.
###.##	Red cells indicate max. water surface elevation has increased 0.25 feet or more from existing max. water surface elevation.

SECTION 5 - WATERSHED MAPPING

**TOTAL STUDY AREA
4707.55 ACRES**

**WEST STUDY AREA
1145.57 ACRES**

**EAST STUDY AREA
3561.97 ACRES**

- Legend**
- Allen Basin Study Area
 - Watershed Outfall
 - Rain Gage
 - New Allen Road Stream Gage
 - Tessland Road Stream Gage



**Drainage Master Plan
Allen Basin Study Area
Overall Drainage Area Map**



Exhibit 5.1

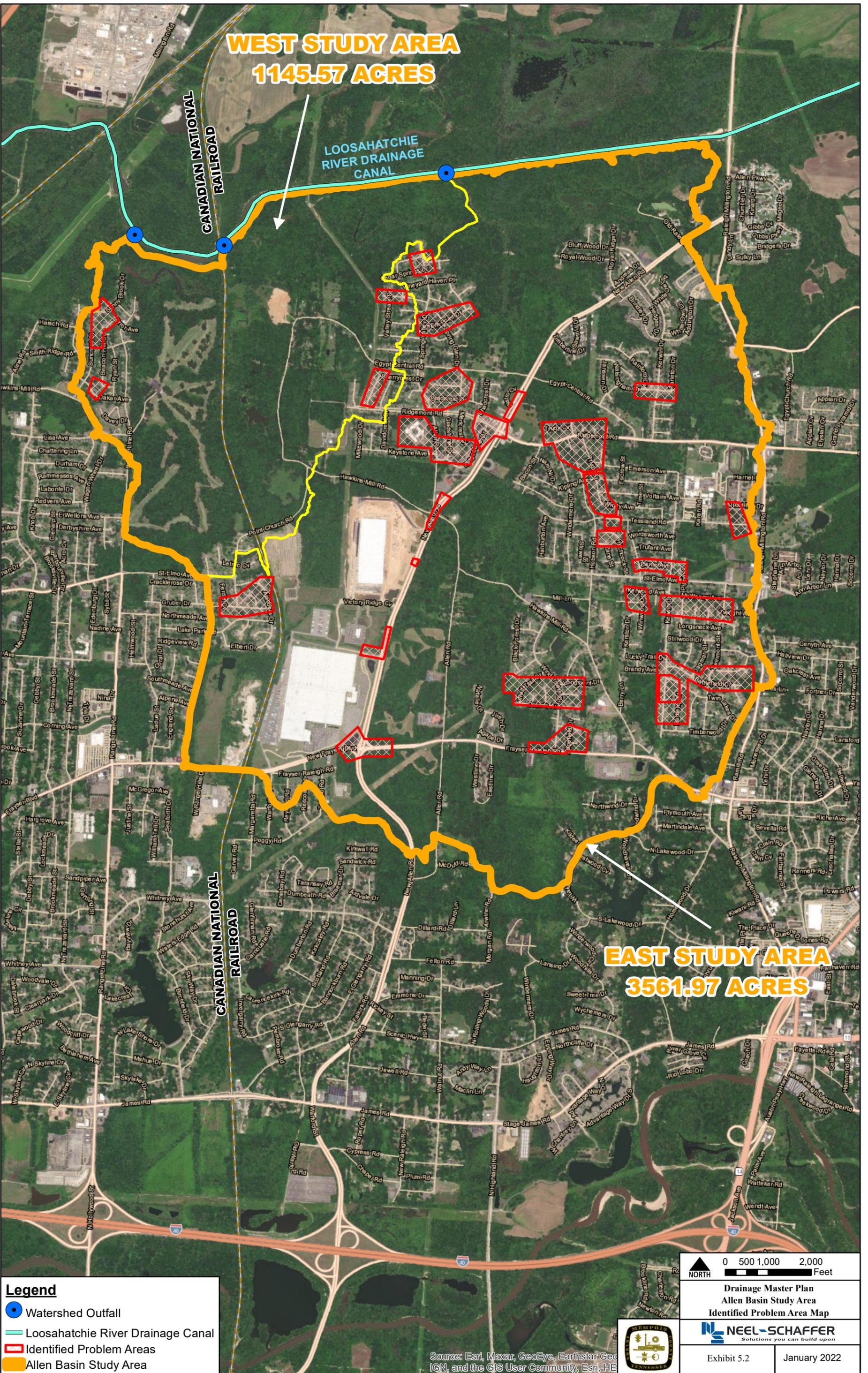
January 2022

Source: Esri, Maxar, GeoEye, Earthstar Geographics, CNES/Airbus, OpenStreetMap contributors



**WEST STUDY AREA
1145.57 ACRES**

**EAST STUDY AREA
3561.97 ACRES**



Legend

- Watershed Outfall
- Loosahatchie River Drainage Canal
- Identified Problem Areas
- Allen Basin Study Area



**Drainage Master Plan
Allen Basin Study Area
Identified Problem Area Map**



Exhibit 5.2 | January 2022

Source: Esri, Maxar, GeoEye, Earthstar Geo, IGN, and the GIS User Community, Esri, HE



WEST STUDY AREA
1145.57 ACRES

LOOSAHATCHIE RIVER DRAINAGE CANAL

CANADIAN NATIONAL RAILROAD

EAST STUDY AREA
3561.97 ACRES

ALLEN BASIN STUDY AREA AREAS OF RECOMMENDED DRAINAGE IMPROVEMENTS	
Map Label	Improvement Area Location
A-1	Sunny Hill Drive & Beacon Hill Drive
D-9	Gruber Drive
D-12	Ridgemont Road & Trudy Street
D-17	Kerwin Drive & Pippin Street
D-19	Pippin Street
D-21	Battlefield Drive, Kerwin Drive & Twinmont Street
D-23	Dorado Avenue
D-29	Frayser Raleigh Road

Legend

- Watershed Outfall
- Allen Basin Study Area
- Streams and Conduits
- Existing 5 ft. Contours

NORTH

0 500 1,000 2,000 Feet

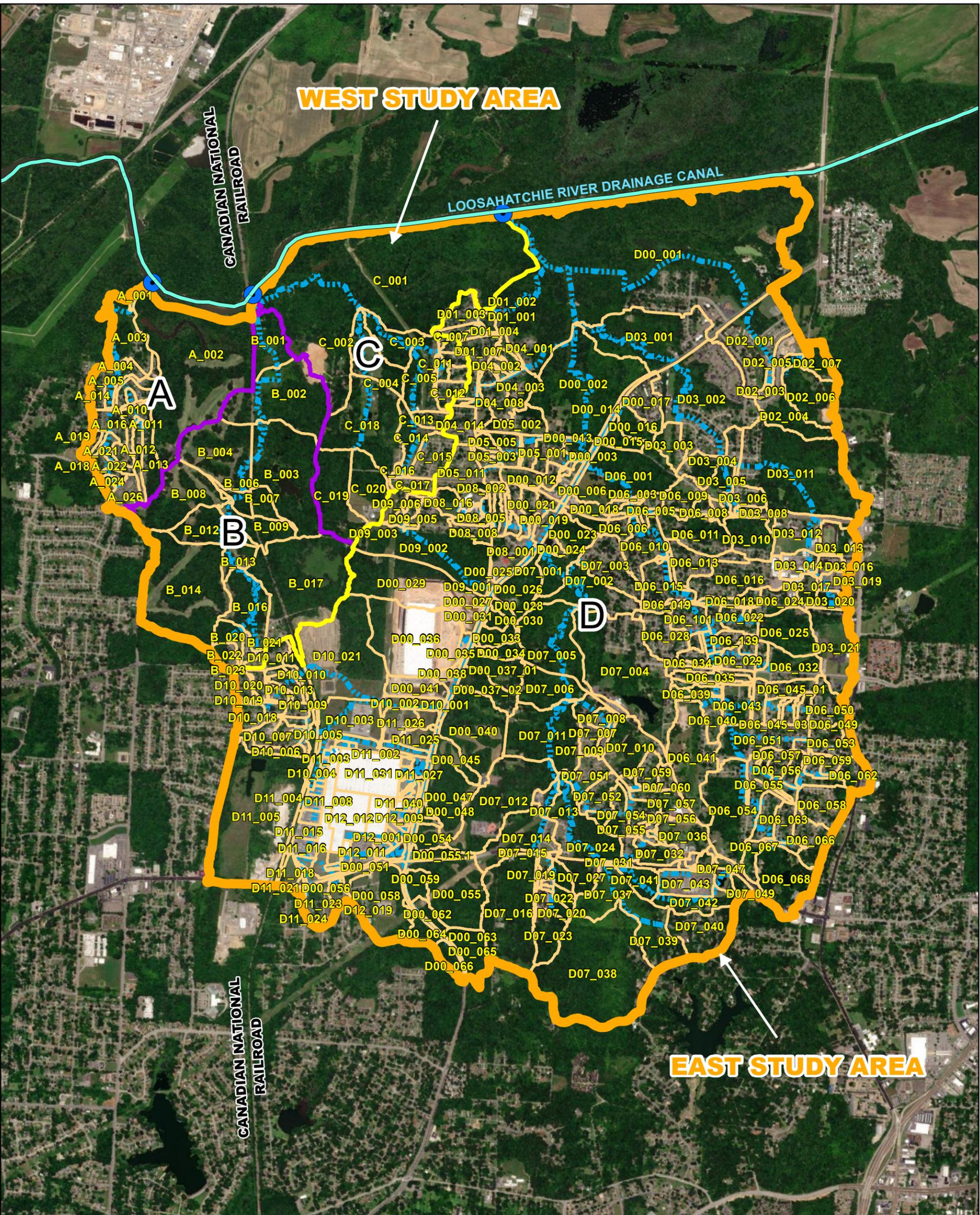
Drainage Master Plan
Allen Basin Study Area
Watershed Map



Exhibit 5.3 January 2022

Source: Esri, Maxar, GeoEye, Earthstar Geographics, CNR Aero, IGN, and the GIS User Community, Esri, HEP

WEST STUDY AREA



EAST STUDY AREA

Study Area	Number of Sub-Basins	Watershed Area (acres)	Minimum Sub-Basin Size (acres)	Maximum Sub-Basin Size (acres)	Average Sub-Basin Size (acres)
West	63	1145.57	0.25	249.52	18.18
East	367	3561.97	0.02	347.45	9.71
Total	430	4707.55	0.02	347.45	10.95

Legend

- Watershed Outfall
- Allen Basin Study Area
- Major Drainage Basins
- Sub-Basins
- Streams and Conduits

0 500 1,000 2,000 Feet

NORTH

Drainage Master Plan
Allen Basin Study Area
Watershed Sub-Basin Delineation Map

NEEL-SCHAFFER
Solutions you can build upon

Exhibit 5.4 January 2022

Source: Esri, Maxar, GeoEye, Earthstar Geographics, CNR Aero, IGN, and the GIS User Community



WEST STUDY AREA

LOOSAHATCHIE RIVER DRAINAGE CANAL

CANADIAN NATIONAL RAILROAD

CANADIAN NATIONAL RAILROAD

EAST STUDY AREA

Legend

- Watershed Outfall
- Allen Basin Study Area
- Hydrological Map Unit Symbol**
- Ca
- Co
- Fm
- Fs
- GaB
- GaB2
- GaC3
- GaD2
- GgD3
- Gr
- Gs
- He
- LoB
- LoC2
- LoD2
- LoD3
- MP
- MeB
- MeB2
- MeC2
- MeD2
- MeD3
- MeE
- MeF3
- MeG
- W
- Wv

Study Area Soil Type Breakdown		
Study Area	Soil Type	% Coverage of Watershed
West	Silt Loam	98.35%
	Water	1.65%
East	Silt Loam	99.32%
	Water	0.68%
Total	Silt Loam	99.09%
	Water	0.91%

0 500 1,000 2,000
Feet

Drainage Master Plan
Allen Basin Study Area
Watershed Soils Map

NEEL-SCHAFFER
Solutions you can build upon

Exhibit 5.5 January 2022

Source: Esri, Maxar, GeoEye, Earthstar Geog, IGN, and the GIS User Community, Esri, HEF

WEST STUDY AREA

LOOSAHATCHIE RIVER DRAINAGE CANAL

CANADIAN NATIONAL RAILROAD

CANADIAN NATIONAL RAILROAD

EAST STUDY AREA

Allen Basin Study Area Land Use Breakdown

Study Area	Grid Code	Land Cover	Area (acres)	% Coverage of Watershed
West	1	Water Bodies	32.66	2.85%
	2	Tree Canopy	769.24	67.15%
	3	Other Vegetation - Bare Soil	250.20	21.84%
	4	Impervious	93.47	8.16%
East	1	Water Bodies	43.31	1.22%
	2	Tree Canopy	1883.51	52.88%
	3	Other Vegetation - Bare Soil	702.15	19.71%
	4	Impervious	933.00	26.19%
West	1	Water Bodies	75.97	1.61%
	2	Tree Canopy	2652.75	56.35%
	3	Other Vegetation - Bare Soil	952.35	20.23%
	4	Impervious	1026.47	21.80%

Legend

-  Watershed Outfall
-  Allen Basin Study Area
- Allen Landuse Basin Land Cover**
-  IMPERVIOUS
-  OTHER VEGETATION
-  TREE CANOPY
-  WATER BODIES



Drainage Master Plan
Allen Basin Study Area
Watershed Land Use Map



Exhibit 5.6 January 2022

Source: Esri, Maxar, GeoEye, Earthstar Geographics, CNR Aero, IGN, and the GIS User Community, Esri, HEP

