

## **APPENDIX B**

### **Anticipated Populations and Flow Volumes at each POC**

#### **Methodology**

##### ***Defining Points of Connection***

- The Point of Connections (POCs) represents the physical connections that routes flow between the Municipal Collection System and ALCOSAN’s Conveyance and Treatment System. This typically occurs near a regional regulating structure or near a direct hydraulic connection to the regional interceptor system.
- A Point of Connection Sewershed (POC Shed) was defined as the sewer and overland runoff drainage area tributary to the POC. When an area was tributary to multiple POCs, the preferred hydraulic dry weather flow path was used to delineate the POC Shed.
- The Chartiers Creek Basin Planner identified several future developments with sewer expansion areas. A subset of these areas are not associated with any specific existing POCs and were grouped into a single representative line item in the table labeled “CC Growth Areas”.
- For ALCOSAN POC T-09, rather than one total flow rate the flow rates are provided for the municipal points of connection to the Thompson Run interceptor that connect to the ALCOSAN system at T-09.

##### ***Estimating Future Service Population by Point of Connection***

- The future service population represents the residential population projections into the year 2046.
- For the purposes of Appendix B, the POC future service populations were predicted by first establishing the 2010 POC population estimates using Census Block level GIS data. Annual population growth factors, provided by the Basin Planners by modeling sub-sewershed, were then applied to the intersecting POC Shed areas in order to estimate the population in the year 2046.
- POCs with zero population are generally commercial or industrial areas, where the 2010 Census Block did not report a population.

##### ***Estimating Public Sewer Lengths by Point of Connection***

- The “one overall” regional sewer pipeline GIS dataset, developed by ALCOSAN and 83 municipalities and maintained by 3 Rivers Wet Weather Demonstration Program, was used to identify the pipeline reaches within each POC Shed.

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- The “one overall” dataset does not include laterals; therefore, these sewers are not included in this analysis.
- The sewers tributary to the POCs were quantified in inch-miles, which were calculated by multiplying a pipeline’s length in miles by its diameter in inches, and then summing this product for all pipeline reaches within a POC.
- If a sewer diameter was not included in the GIS, the diameter was assumed. An 8-inch diameter pipe was assumed in sanitary areas and a 12-inch diameter pipe was assumed in combined sewer areas.

***Predicting Municipal Flows by Point of Connection***

- The Hydrologic and Hydraulic Model of the Selected Plan was used to calculate the annual average dry weather and wet weather flows contributed by the POCs to the Conveyance and Treatment System, upon implementation of the Wet Weather Plan.
- The model simulations used future inflows (2046), typical year precipitation, and assumed free discharges at the model system boundaries and outfalls.
- For each POC, the annual average dry and wet weather flows were divided by the corresponding POC sewer inch-mile values, and were reported in terms of gallons per day per inch-mile of sewer.

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Planning Basin	ALCOSAN Point of Connection	Estimated Future Service Population	Estimated Public Sewers (inch-miles)	Predicted Flow Upon Implementation of the WWP	
				Average Daily Flow (gpd)	(gpd/inch-mile of sewer)
CC	C-02 <sup>1</sup>	8	1.63	8,570	5,260
CC	C-03	70	4.85	16,800	3,460
CC	C-04	391	22.8	106,000	4,650
CC	C-05	1,493	88.1	320,000	3,630
CC	C-05A	12	0.230	67,600	294,000
CC	C-06	1	1.89	17,200	9,100
CC	C-07	1,167	89.4	215,000	2,400
CC	C-08	493	23.2	96,300	4,150
CC	C-09	8,061	472	1,680,000	3,560
CC	C-10	0	5.5	62,800	11,400
CC	C-11	2,072	157	649,000	4,130
CC	C-12	704	47	190,000	4,040
CC	C-13	81	21.1	24,000	1,140
CC	C-13-02	135	11.5	60,200	5,230
CC	C-13-06	3	0	13,100	NA
CC	C-13-12	5,934	237	587,000	2,480
CC	C-13A-02	values presented with adjacent C-14			
CC	C-13A-04	values presented with adjacent C-14			
CC	C-14 <sup>1</sup>	4	11.2	28,700	2,560

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				Average Daily Flow (gpd)	(gpd/inch-mile of sewer)
CC	C-14-06	0	0	35,300	NA
CC	C-15	1,194	81.9	260,000	3,170
CC	C-15-04	24	4.39	23,200	5,280
CC	C-19	3,762	153	857,000	5,600
CC	C-20	1,502	53	272,000	5,130
CC	C-20-02	2,471	69.5	570,000	8,200
CC	C-21	990	35.1	183,000	5,210
CC	C-22	3,653	152	867,000	5,700
CC	C-23	293	6.72	39,100	5,820
CC	C-23-08	17	1.41	3,410	2,420
CC	C-23-14	34	1.88	9,640	5,130
CC	C-24	955	36.6	200,000	5,460
CC	C-25	4,195	249	1,140,000	4,580
CC	C-26	1,611	67.7	272,000	4,020
CC	C-26A	17	1.14	11,500	10,100
CC	C-27	89	11.5	86,000	7,480
CC	C-28	279	31.1	244,000	7,850
CC	C-29	448	22.1	139,000	6,290
CC	C-30	4,200	186	738,000	3,970

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				Average Daily Flow (gpd)	(gpd/inch-mile of sewer)
CC	C-31	39	6.93	57,100	8,240
CC	C-33	1	0.374	937	2,510
CC	C-34	121	2.69	33,900	12,600
CC	C-34A	612	71	210,000	2,960
CC	C-35	2,176	118	320,000	2,710
CC	C-36	0	0.632	3,030	4,790
CC	C-37	1	6.75	11,200	1,660
CC	C-38	0	0.413	714	1,730
CC	C-38A	2,924	64.2	722,000	11,200
CC	C-38B	446	14.9	88,700	5,950
CC	C-39	15	0.773	61,382	79,400
CC	C-40 <sup>1</sup>	315	35.4	75,900	2,140
CC	C-41	716	4.86	42,600	8,770
CC	C-42	1,180	32	139,000	4,340
CC	C-43	52	3.42	7,260	2,120
CC	C-44	53	4.41	6,780	1,540
CC	C-44-08	1,063	37.4	336,000	8,980
CC	C-44-12	4	0.761	2,980	3,920
CC	C-45	603	18.7	67,500	3,610

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				Average Daily Flow (gpd)	(gpd/inch-mile of sewer)
CC	C-45A	2,647	135	204,000	1,510
CC	C-45B-04	36,819	664	2,090,000	3,150
CC	C-45B-08	7,029	316	550,000	1,740
CC	C-46	1,282	48.4	169,000	3,490
CC	C-47	380	12.7	33,300	2,620
CC	C-48	9,316	256	1,370,000	5,350
CC	C-49	6,934	254	1,270,000	5,000
CC	C-50	101	21.3	34,000	1,600
CC	C-50A	34	1.28	5,300	4,140
CC	C-50A-06	166	11.1	238,000	21,400
CC	C-50A-12	151	10.2	29,900	2,930
CC	C-50B	285	10.8	327,000	30,300
CC	C-51PS	816	2.03	101,000	49,800
CC	C-51TS	0	0	0	0
CC	C-52	260	19.4	116,000	5,980
CC	C-53	24,355	927	4,400,000	4,750
CC	C-53-06	0	1.09	24,000	22,000
CC	C-53-08	185	8.38	14,600	1,740
CC	C-53-10	20,204	1,160	3,540,000	3,050

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				Average Daily Flow (gpd)	(gpd/inch-mile of sewer)
CC	C-54	2,196	83.8	233,000	2,780
CC	C-54-06	10	6.67	17,900	2,680
CC	C-54-07	1	5.61	16,900	3,010
CC	C-54-12	5,290	262	637,000	2,430
CC	C-54-16	27,657	1,120	4,050,000	3,620
CC	C-54-18	80	4.56	11,200	2,460
CC	C-54-20	0	0.446	24,600	55,200
CC	C-55	303	14.9	134,000	8,990
CC	C-55-02	11,927	552	1,800,000	3,260
CC	O-06PS	2,493	172	2,730,000	15,900
CC	O-06TS	270	20.3	79,100	3,900
CC	O-08 <sup>2</sup>	138	22.1	38,400	1,740
CC	O-09 <sup>1</sup>	52	7	24,900	3,560
CC	O-10 <sup>1</sup>	13	3.73	12,600	3,380
CC	O-11 <sup>1</sup>	15	17.2	60,200	3,500
CC	O-13 <sup>2</sup>	5,157	446	1,880,000	4,220
CC	CC Growth Areas	1,217	NA	346,727	NA
LOGR	A-62PS	180	6.28	57,900	9,220
LOGR	A-62TS	26	8.91	18,500	2,080

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				Average Daily Flow (gpd)	(gpd/inch-mile of sewer)
LOGR	A-63	0	0	0	NA
LOGR	A-64	1,154	46.9	158,000	3,370
LOGR	A-65	679	24.7	209,000	8,460
LOGR	A-66 <sup>3</sup>	0	0	0	NA
LOGR	A-67	39,122	1,600	7,680,000	4,800
LOGR	O-01	1,195	52.6	247,000	4,690
LOGR	O-01-08	1,113	114	415,000	3,640
LOGR	O-02	253	9.25	60,800	6,570
LOGR	O-03	257	12.6	233,000	18,500
LOGR	O-03-02	1,768	81.8	456,000	5,570
LOGR	O-04	1,349	132	450,000	3,410
LOGR	O-05A	101	2.78	17,800	6,400
LOGR	O-05B	294	5.84	99,600	17,100
LOGR	O-15	27,146	1,500	4,230,000	2,820
LOGR	O-16	263	10.3	38,000	3,690
LOGR	O-16Z	747	24.1	103,000	4,270
LOGR	O-17	94	2.55	19,200	7,530
LOGR	O-18	8,475	287	3,150,000	11,000
LOGR	O-18Y	205	3	23,100	7,700



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				Average Daily Flow (gpd)	(gpd/inch-mile of sewer)
LOGR	O-18Z	384	11.4	61,500	5,390
LOGR	O-19	1,376	37.4	185,000	4,950
LOGR	O-20	1,184	26.2	275,000	10,500
LOGR	O-21	801	29.7	316,000	10,600
LOGR	O-22	378	8.09	63,000	7,790
LOGR	O-23	1,410	23.1	326,000	14,100
LOGR	O-24	918	14.3	306,000	21,400
LOGR	O-25PS	6,725	226	995,000	4,400
LOGR	O-25TS	3,673	190	1,190,000	6,260
LOGR	O-26	844	45.3	132,000	2,910
LOGR	O-26A	0	0	29,900	NA
MR	A-01	136	11.7	117,000	10,000
MR	A-02	68	0.915	14,100	15,400
MR	A-03	68	0	21,700	NA
MR	A-04	134	30.2	739,000	24,500
MR	A-05	36	5.88	269,000	45,700
MR	A-06	134	20.9	327,000	15,600
MR	A-07	165	8.39	275,000	32,800
MR	A-08	242	1.78	20,900	11,700

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				Average Daily Flow (gpd)	(gpd/inch-mile of sewer)
MR	A-09	33	31	2,010,000	64,800
MR	A-10	0	20	114,000	5,700
MR	A-11	13	6.88	61,300	8,910
MR	A-12	814	67.6	890,000	13,200
MR	A-13	0	9.66	211,000	21,800
MR	A-14	538	60.2	964,000	16,000
MR	A-14Z	12	15.8	118,000	7,470
MR	A-15	0	17.1	105,000	6,140
MR	A-16	0	15.6	81,100	5,200
MR	A-17	4	20.7	98,900	4,780
MR	A-18	183	20.1	173,000	8,610
MR	A-18X	114	7.68	100,000	13,000
MR	A-18Y	0	2.05	27,100	13,200
MR	A-18Z	1	1.57	16,700	10,600
MR	A-19X	223	66.6	460,000	6,910
MR	A-19Y	147	17.2	77,100	4,480
MR	A-19Z	13	4.67	28,700	6,150
MR	A-20	87	35.4	198,000	5,590
MR	A-20Z	0	0.0237	7,390	312,000

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				Average Daily Flow (gpd)	(gpd/inch-mile of sewer)
MR	A-21	428	46.3	159,000	3,430
MR	A-22	33,366	1,760	11,500,000	6,530
MR	A-23	4,496	294	864,000	2,940
MR	A-25	427	25.4	145,000	5,710
MR	A-26	406	19.4	163,000	8,400
MR	A-27	954	25	86,300	3,450
MR	A-27Z	2	14.8	345,000	23,300
MR	A-28	2,508	112	948,000	8,460
MR	A-29	846	66.7	831,000	12,500
MR	A-29Z	4,002	336	1,400,000	4,170
MR	A-30	0	6.64	138,000	20,800
MR	A-31	52	13.1	59,900	4,570
MR	A-32	1,932	86.7	738,000	8,510
MR	A-33	638	37.1	176,000	4,740
MR	A-34	220	22.2	124,000	5,590
MR	A-46	0	11.9	93,300	7,840
MR	A-47	193	36.2	593,000	16,400
MR	A-48	5,916	602	4,580,000	7,610
MR	A-49	0	7.3	38,400	5,260

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				Average Daily Flow (gpd)	(gpd/inch-mile of sewer)
MR	A-50	246	35.1	249,000	7,090
MR	A-51	1,742	143	811,000	5,670
MR	A-55	0	NA	44,606	NA
MR	A-56	312	7.87	100,000	12,700
MR	A-58	6,213	469	5,210,000	11,100
MR	A-59	7	10	43,800	4,380
MR	A-59Z	10	4.52	26,600	5,880
MR	A-60	8,914	744	6,000,000	8,060
MR	A-61	0	3.05	59,300	19,400
MR	M-01	8	4.94	104,000	21,100
MR	M-02	94	2.83	24,500	8,660
MR	M-03	1,298	65.3	1,200,000	18,400
MR	M-04	0	11.8	54,400	4,610
MR	M-04A	16	7.78	26,400	3,390
MR	M-04B	0	0.606	5,730	9,460
MR	M-04D	0	1.68	7,800	4,640
MR	M-05	9,709	423	3,710,000	8,770
MR	M-06	548	87.6	835,000	9,530
MR	M-07	26	4.9	57,300	11,700

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MR	M-08	64	5.06	33,400	6,600
MR	M-10	2,140	156	498,000	3,190
MR	M-11	136	11.2	213,000	19,000
MR	M-12	212	14.7	92,400	6,290
MR	M-12Z	2	0.769	6,710	8,730
MR	M-13	188	8.53	55,200	6,470
MR	M-14	479	15.6	56,400	3,620
MR	M-15	180	7.64	44,300	5,800
MR	M-15Z	300	13.6	67,000	4,930
MR	M-16	3,520	264	2,370,000	8,980
MR	M-17	195	7.06	36,200	5,130
MR	M-18	271	11.1	37,800	3,410
MR	M-19	6,769	534	1,890,000	3,540
MR	M-19-10	0	3.27	69,400	21,200
MR	M-19B	1,947	49.1	419,000	8,530
MR	M-19B-06	0	0.955	36,500	38,200
MR	M-19B-10	0	3.67	81,600	22,200
MR	M-19W	2,359	123	1,470,000	12,000
MR	M-19X	1,137	22	124,000	5,640

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MR	M-19Y	2,579	79.7	988,000	12,400
MR	M-20	255	14.6	85,600	5,860
MR	M-21	1,586	85.4	447,000	5,230
MR	M-22	1,534	122	665,000	5,450
MR	M-23	403	27.2	120,000	4,410
MR	M-24	18	8.03	14,100	1,760
MR	M-26	299	38.7	137,000	3,540
MR	M-27	1,353	111	233,000	2,100
MR	M-28	188	16.3	85,300	5,230
MR	M-29	42,427	1,840	9,160,000	4,980
MR	O-27	8,800	719	3,560,000	4,950
MR	O-28	1,881	11.6	106,000	9,140
MR	O-29PS	1,181	69.6	360,000	5,170
MR	O-29TS	0	5.21	32,000	6,140
MR	O-30PS	913	69.2	351,000	5,070
MR	O-30TS	0	0	1,300	NA
MR	O-31	1	0.8	24,600	30,800
MR	O-32	232	71.7	192,000	2,680
MR	O-33	5,429	457	3,180,000	6,960

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				Average Daily Flow (gpd)	(gpd/inch-mile of sewer)
MR	O-34	1,055	107	751,000	7,020
MR	O-35	0	2.32	13,600	5,860
MR	O-36	0	8.97	68,800	7,670
MR	O-37	0	3.06	34,700	11,300
MR	O-38	1,070	80.4	261,000	3,250
MR	O-39	103	26.3	137,000	5,210
MR	O-40	0	1.89	18,700	9,890
MR	O-41	3	19.6	127,000	6,480
MR	O-43	1	36.6	456,000	12,500
SMR	MH-03A	5	2.33	7,340	3,150
SMR	MH-08	1	1.33	8,100	6,090
SMR	MH-09B	94	3.23	53,700	16,600
SMR	MH-11	3,055	193	750,000	3,890
SMR	MH-18	16,750	604	2,700,000	4,470
SMR	MH-21	49	2.93	96,200	32,800
SMR	MH-47	165	5.95	108,000	18,200
SMR	MH-55	91	10.7	124,000	11,600
SMR	MH-66	665	29.1	243,000	8,350
SMR	MH-68	1,875	65.9	689,000	10,500

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SMR	MH-70	253	12.5	93,700	7,500
SMR	MH-77	1,996	72.8	417,000	5,730
SMR	MH-80	537	22.7	126,000	5,550
SMR	MH-88	791	28.1	194,000	6,900
SMR	MH-89	13,945	570	2,550,000	4,470
SMR	MH-99A	166	5.1	73,200	14,400
SMR	MH-N02	0	15.1	108,000	7,150
SMR	MH-N03	63	11.6	47,700	4,110
SMR	O-14Z	63	11.1	44,700	4,030
SMR	S-15	12,717	433	1,690,000	3,900
SMR	S-16LC	9	0.386	17,800	46,100
SMR	S-18	3,128	105	568,000	5,410
SMR	S-23	1,883	80.2	409,000	5,100
SMR	S-24	3,483	213	1,860,000	8,730
SMR	S-28	419	22.6	190,000	8,410
SMR	S-29	3,865	237	829,000	3,500
SMR	S-30	2	1.67	11,800	7,070
SMR	S-31	488	35.5	94,700	2,670
SMR	S-32	6,297	401	1,400,000	3,490



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				Average Daily Flow (gpd)	(gpd/inch-mile of sewer)
SMR	S-33	372	21.7	223,000	10,300
SMR	S-34	183	5.88	66,200	11,300
SMR	S-35	709	26.8	174,000	6,490
SMR	S-36	647	35.5	226,000	6,370
SMR	S-37	8	2.37	33,900	14,300
SMR	S-38	2,611	130	386,000	2,970
SMR	S-39	1,255	78	345,000	4,420
SMR	S-40	1,183	72.8	361,000	4,960
SMR	S-41	840	64	518,000	8,090
SMR	S-42	54	6.55	36,100	5,510
SMR	S-42A	704	53.3	190,000	3,560
SMR	S-46	1,210	93.2	284,000	3,050
SMR	SMR83	469	14.7	169,000	11,500
SMR	SMR-CS-02	927	36.4	99,900	2,740
SMR	SMR-CS-03	487	16.7	114,000	6,830
SMR	SMR-CS-06	422	15.1	72,700	4,810
SMR	SMR-CS-08	122	7.49	101,000	13,500
SMR	SMR-CS-14	2,492	98.4	428,000	4,350
SMR	SMR-CS-16	965	41.1	172,000	4,180

**ALCOSAN Clean Water Plan**  
**Appendix B – Anticipated Populations and Flow Volumes at each POC**

Planning Basin	ALCOSAN Point of Connection	Estimated Future Service Population	Estimated Public Sewers (inch-miles)	Predicted Flow Upon Implementation of the WWP	
				Average Daily Flow (gpd)	(gpd/inch-mile of sewer)
SMR	SMR-CS-20	789	32.5	198,000	6,090
SMR	SMR-CS-27	420	19	87,500	4,610
SMR	SMR-CS-31	568	20.4	211,000	10,300
SMR	SMR-CS-33	values presented under adjacent SMR-CS-31			
SMR	SMR-CS-34	8,919	256	1,930,000	7,540
SMR	SMR-CS-37	843	14.5	162,000	11,200
SMR	SMR-CS-39A	values presented with adjacent SMR-CS-37			
SMR	SMR-CS-42	1,348	36.1	185,000	5,120
SMR	SMR-CS-43	136	4.47	30,200	6,760
SMR	SMR-CS-46	656	21.5	101,000	4,700
SMR	SMR-CS-50	175	4.31	50,300	11,700
SMR	SMR-CS-52	720	22.5	83,500	3,710
SMR	SMR-CS-54	2,581	128	496,000	3,880
SMR	SMRE-40	8,054	287	2,250,000	7,840
SMR	SMRE-61	22	2.77	56,900	20,500
TC	T-01	3,115	137	837,000	6,110
TC	T-02	1,018	46.6	185,000	3,970
TC	T-03	209	20.1	42,900	2,130
TC	T-04	8,566	510	2,150,000	4,220

**ALCOSAN Clean Water Plan**  
**Appendix B – Anticipated Populations and Flow Volumes at each POC**

Planning Basin	ALCOSAN Point of Connection	Estimated Future Service Population	Estimated Public Sewers (inch-miles)	Predicted Flow Upon Implementation of the WWP	
				Average Daily Flow (gpd)	(gpd/inch-mile of sewer)
TC	T-04-02	13,196	549	1,940,000	3,530
TC	T-05-02	3,011	115	430,000	3,740
TC	T-07	3,883	248	705,000	2,840
TC	T-08	498	16.7	59,800	3,580
TC	T-09	Values presented below by upstream municipal points of connection along the Thompson Run interceptor.			
TC	T-10	9,935	220	711,000	3,230
TC	T-11	17	2.24	10,900	4,870
TC	T-12	388	9.69	35,000	3,610
TC	T-13	66	4.2	12,400	2,950
TC	T-14	198	4.65	32,900	7,080
TC	T-15	50	5.02	16,300	3,250
TC	T-16	661	27.1	95,700	3,530
TC	T-16A	79	2.6	16,100	6,190
TC	T-16-02	values presented with adjacent T-18			
TC	T-17	85	4.23	18,200	4,300
TC	T-18	665	11.2	111,000	9,910
TC	T-19	75	2.64	9,290	3,520
TC	T-21	47	2.2	3,790	1,720
TC	T-22	1,181	79.3	131,000	1,650

**ALCOSAN Clean Water Plan**  
**Appendix B – Anticipated Populations and Flow Volumes at each POC**

Planning Basin	ALCOSAN Point of Connection	Estimated Future Service Population	Estimated Public Sewers (inch-miles)	Predicted Flow Upon Implementation of the WWP	
				Average Daily Flow (gpd)	(gpd/inch-mile of sewer)
TC	T-23	198	6.28	17,600	2,800
TC	T-24	1,222	54.4	157,000	2,890
TC	T-25	3,889	216	909,000	4,210
TC	T-25-10	939	19.4	75,800	3,910
TC	T-26	2,676	119	886,000	7,450
TC	T-26A	2,767	179	416,000	2,320
TC	T-26A-10	13,458	81.5	1,310,000	16,100
TC	T-26B	5,287	216	814,000	3,770
TC	T-27	483	42.7	209,000	4,890
TC	T-27-02	0	0.9	33,000	36,700
TC	T-27-12	Values presented with adjacent T-27-02			
TC	T-29	176	10.3	34,100	3,310
TC	T-29A-02	2,184	83.7	230,000	2,750
TC	T-29A-08	41	2.67	26,500	9,930
TC	T-29A-10	19,011	784	3,470,000	4,430
TC	T-31	556	41.7	214,000	5,130
TC	T-32	54	9.24	12,000	1,300
TC	T-33	791	19.5	66,000	3,380
The TR-## rows which follow are municipal points of connection to the Thompson Run interceptor which ties into ALCOSAN POC T-09					

**ALCOSAN Clean Water Plan**  
**Appendix B – Anticipated Populations and Flow Volumes at each POC**

Planning Basin	ALCOSAN Point of Connection	Estimated Future Service Population	Estimated Public Sewers (inch-miles)	Predicted Flow Upon Implementation of the WWP	
				Average Daily Flow (gpd)	(gpd/inch-mile of sewer)
TC	TR-01	320	21.3	76,500	3,590
TC	TR-01-06z	514	30.2	84,600	2,800
TC	TR-01-16	151	6.10	39,200	6,430
TC	TR-02	644	22.1	54,900	2,480
TC	TR-02-04	values presented with adjacent TR-03			
TC	TR-03 <sup>2</sup>	361	15.7	68,900	4,390
TC	TR-03-08	457	33.5	84,100	2,510
TC	TR-04	3,066	195	598,000	3,070
TC	TR-04-14	515	28.9	179,000	6,190
TC	TR-04-22	607	22.9	110,000	4,800
TC	TR-04-32	1,892	51.8	613,000	11,800
TC	TR-05	1,078	69.5	161,000	2,320
TC	TR-05-04	77	4.78	15,700	3,280
TC	TR-06	9,721	375	1,550,000	4,130
UA	A-35	1,044	68.5	361,000	5,270
UA	A-36	55	10.4	62,900	6,050
UA	A-37	26	5.85	24,000	4,100
UA	A-37Z	407	30.9	104,000	3,370
UA	A-38	42	6.81	27,400	4,020

**ALCOSAN Clean Water Plan**  
**Appendix B – Anticipated Populations and Flow Volumes at each POC**

Planning Basin	ALCOSAN Point of Connection	Estimated Future Service Population	Estimated Public Sewers (inch-miles)	Predicted Flow Upon Implementation of the WWP	
				Average Daily Flow (gpd)	(gpd/inch-mile of sewer)
UA	A-40	221	16.1	44,900	2,790
UA	A-41	10,924	569	2,200,000	3,870
UA	A-42-02	0	5.86	14,800	2,530
UA	A-42A	17,308	756	3,180,000	4,210
UA	A-42A-30	2,655	127	586,000	4,610
UA	A-42L	19,432	1,880	5,850,000	3,110
UA	A-42U	8,113	768	2,980,000	3,880
UA	A-44-02	114	4.36	27,800	6,380
UA	A-45	3,340	123	665,000	5,410
UA	A-68	29,147	1,461	6,930,000	4,750
UA	A-69	1,037	35.5	221,000	6,230
UA	A-70	887	68.9	488,000	7,080
UA	A-71	498	19.1	114,000	5,970
UA	A-72	3,541	243	1,420,000	5,840
UA	A-73	654	26.8	114,000	4,250
UA	A-74	113	5.5	40,500	7,360
UA	A-74A	900	81.6	201,000	2,460
UA	A-75	1,062	45.5	373,000	8,200
UA	A-76	532	19.2	208,000	10,800

**ALCOSAN Clean Water Plan**  
**Appendix B – Anticipated Populations and Flow Volumes at each POC**

Planning Basin	ALCOSAN Point of Connection	Estimated Future Service Population	Estimated Public Sewers (inch-miles)	Predicted Flow Upon Implementation of the WWP	
				Average Daily Flow (gpd)	(gpd/inch-mile of sewer)
UA	A-77	506	13.4	80,600	6,010
UA	A-78	2,097	118	743,000	6,300
UA	A-78-02	4,901	564	1,130,000	2,000
UA	A-78-14	568	27.2	232,000	8,530
UA	A-80	1,359	86.9	713,000	8,200
UA	A-81-10	22	13.6	142,000	10,400
UA	A-82	1,525	57.1	321,000	5,620
UA	A-83-02	163	8.89	99,000	11,100
UA	A-84-08	288	13.5	87,100	6,450
UA	A-85	1,836	119	335,000	2,820
UM	M-31	428	46.7	790,000	16,900
UM	M-31Z	0	2.35	3,560	1,510
UM	M-32 <sup>2</sup>	0	13.7	26,300	1,920
UM	M-33	0	4.31	9,500	2,200
UM	M-34	12,393	544	2,610,000	4,800
UM	M-35	1,127	137	1,500,000	10,900
UM	M-36	1,935	133	927,000	6,970
UM	M-37	333	15.8	77,800	4,920
UM	M-38	34	7.1	27,600	3,890

**ALCOSAN Clean Water Plan**  
**Appendix B – Anticipated Populations and Flow Volumes at each POC**

Planning Basin	ALCOSAN Point of Connection	Estimated Future Service Population	Estimated Public Sewers (inch-miles)	Predicted Flow Upon Implementation of the WWP	
				Average Daily Flow (gpd)	(gpd/inch-mile of sewer)
UM	M-39	10	7.53	26,900	3,570
UM	M-40	1,776	112	452,000	4,040
UM	M-42	30,690	1,320	6,850,000	5,190
UM	M-43	119	14.1	194,000	13,800
UM	M-44	7,954	340	2,290,000	6,740
UM	M-44-02	77	56	125,000	2,230
UM	M-45	5,770	299	1,770,000	5,920
UM	M-47	36,714	1,480	7,100,000	4,800
UM	M-48	1,444	39.9	586,000	14,700
UM	M-49	13,169	552	2,410,000	4,370
UM	M-50	4,825	205	292,000	1,420
UM	M-51	3,542	227	2,660,000	11,700
UM	M-52	403	26.3	436,000	16,600
UM	M-53	221	19.2	210,000	10,900
UM	M-54	2,332	117	365,000	3,120
UM	M-55	1,711	99.3	921,000	9,270
UM	M-56	83	15.8	55,600	3,520
UM	M-57	695	48.7	303,000	6,220
UM	M-58	336	27.1	196,000	7,230
UM	M-60	443	40.8	188,000	4,610



**ALCOSAN Clean Water Plan**  
**Appendix B – Anticipated Populations and Flow Volumes at each POC**

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Planning Basin	ALCOSAN Point of Connection	Estimated Future Service Population	Estimated Public Sewers (inch-miles)	Predicted Flow Upon Implementation of the WWP	
				Average Daily Flow (gpd)	(gpd/inch-mile of sewer)
UM	M-61	0	0.574	31,200	54,400

Footnotes

1. This POC has been eliminated since the 2013 submission of the Wet Weather Plan.
2. The tributary area for this Point of Connection has changed since the reported flows were generated for the 2013 submission of the Wet Weather Plan.
3. Some of the area formerly tributary to A-66 is now tributary to a small new direct connection POC called A-66-02.