



Appendix D

Peak Discharges



**US Army Corps
of Engineers**
Norfolk District

Chesapeake
VIRGINIA

Department of Public Works

URS

Table D-1. Existing Conditions Peak Discharges (Scenario 1)

Notes: Peak discharges usually occur at times other than the time of maximum computed water surface elevation. Peak discharges can occur in the upstream direction.

Conduit Number	Maximum Computed Discharge					
	2-Yr (cfs)	5-Yr (cfs)	10-Yr (cfs)	25-Yr (cfs)	50-Yr (cfs)	100-Yr (cfs)
11041	16.23	25.71	31.30	37.07	43.18	45.70
11051	7.27	11.26	13.08	12.81	12.02	11.83
11052	7.27	11.26	13.08	12.81	12.02	11.83
11061	34.12	54.71	64.69	74.36	83.46	90.86
11071	25.94	41.65	50.08	59.43	69.76	75.78
11111	22.01	23.86	23.86	59.41	86.51	91.00
11112	22.01	23.86	23.86	59.41	86.51	91.00
11131	44.45	48.01	47.79	77.91	123.20	140.08
11151	21.73	23.65	23.75	37.69	42.74	41.15
11152	21.73	23.65	23.75	37.69	42.74	41.15
11171	40.24	46.53	47.97	62.90	75.02	83.00
11191	19.00	28.52	43.91	54.91	71.04	83.44
11201	15.19	22.13	25.00	25.58	26.39	28.10
11231	24.50	33.40	40.86	53.69	59.35	63.09
11232	24.71	34.97	40.86	53.69	59.35	63.09
11251	47.17	65.90	76.92	105.59	116.83	122.76
11271	45.66	76.07	95.34	133.30	154.94	171.13
11311	22.41	35.30	42.27	47.74	53.35	58.49
11331	67.36	113.52	139.64	178.11	206.71	232.48
11371	37.05	57.12	69.10	89.39	109.49	125.10
11372	30.56	57.04	70.95	89.39	109.49	125.10
11391	59.23	100.29	125.20	163.88	217.32	247.38
11411	53.89	99.22	128.40	168.25	242.21	281.16
11431	25.16	42.62	53.60	66.74	82.31	97.30
11451	53.81	109.75	145.04	188.11	281.79	328.93
11491	33.17	67.61	90.54	117.96	128.32	140.15
11492	22.61	49.39	66.14	86.17	93.73	102.37
11511	59.62	126.78	170.99	222.78	244.13	265.81
11551	21.33	34.45	43.92	55.40	66.36	73.74
11571	18.64	31.84	40.45	50.95	60.66	63.20
11591	16.85	28.41	36.06	45.42	53.80	54.79
11611	12.72	27.33	37.75	49.24	55.49	55.18
11621	17.66	30.50	39.46	50.17	62.98	74.08
11631	8.18	12.65	15.29	17.41	20.49	23.23
11632	8.18	12.65	15.29	17.41	20.49	23.23
11671	11.45	18.62	23.03	28.24	34.38	40.31
11691	10.47	17.44	21.73	26.74	32.57	38.10
11701	11.24	17.69	21.46	25.79	30.64	35.03
11711	19.31	43.21	59.96	76.65	89.08	94.37
11721	5.80	9.05	10.65	12.09	13.92	18.55
11731	34.08	66.29	89.25	113.61	134.92	145.17
11751	35.17	66.31	88.20	110.83	134.43	142.46
11811	16.01	30.76	41.36	50.32	82.46	91.85

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Conduit Number	Maximum Computed Discharge					
	2-Yr (cfs)	5-Yr (cfs)	10-Yr (cfs)	25-Yr (cfs)	50-Yr (cfs)	100-Yr (cfs)
11812	14.89	30.76	41.36	50.32	82.46	91.85
11831	92.09	195.39	262.52	340.46	360.32	403.66
11851	91.97	195.27	262.43	340.39	360.47	416.55
11871	91.59	194.74	262.06	340.13	361.30	396.05
11951	8.50	17.06	23.15	31.20	33.15	33.13
12031	18.02	35.50	46.34	57.78	67.67	76.71
12091	15.40	29.03	37.25	45.33	56.90	64.48
12111	105.92	223.83	302.63	393.91	416.01	427.91
12131	14.11	24.24	27.57	31.32	37.64	40.47
12151	114.24	248.83	338.76	443.03	474.19	490.06
12171	113.66	247.93	338.08	442.37	472.73	485.34
12271	9.58	13.75	13.75	13.76	13.76	13.76
12281	9.61	13.76	13.76	13.76	13.76	13.76
12291	7.37	10.81	11.84	11.84	11.83	11.82
12321	12.16	20.73	21.25	21.75	22.13	22.54
12351	3.54	5.70	6.88	8.13	9.75	11.32
12371	2.45	3.48	4.43	5.25	5.55	6.73
12401	3.07	5.68	7.55	9.42	11.15	12.46
12411	4.80	8.05	9.76	11.90	14.14	15.95
12421	6.02	10.13	12.22	14.72	17.37	19.68
12431	10.36	17.63	21.80	26.31	31.31	35.93
12451	10.56	18.01	23.21	29.72	37.81	46.33
12491	10.09	17.92	23.17	29.65	37.79	46.29
12511	10.83	19.54	25.06	31.67	39.77	48.00
12611	19.53	30.33	34.74	39.92	45.47	50.83
12651	15.92	26.80	29.14	32.09	35.62	38.70
12671	16.71	27.27	33.59	41.03	49.57	51.97
12681	8.37	14.10	14.12	14.61	15.06	15.22
12691	26.63	45.33	51.24	58.45	66.19	69.40
12711	26.68	45.39	51.27	58.46	66.19	69.34
12751	26.37	45.12	51.05	58.13	65.67	69.53
12771	28.11	50.48	61.07	73.21	86.56	96.43
12791	28.04	50.40	60.98	72.39	84.99	93.39
12811	28.03	50.41	60.96	72.29	84.65	92.76
12851	38.44	67.19	85.63	104.59	126.82	146.82
12861	6.86	11.35	13.24	15.37	17.40	21.30
12871	23.89	36.24	41.81	50.89	55.87	63.91
12881	15.19	42.72	51.30	53.53	55.98	56.09
12901	12.45	24.55	38.42	50.70	56.05	56.22
12911	147.21	308.39	413.52	535.12	605.24	652.16
12951	42.68	75.57	93.61	104.58	114.49	121.92
12971	44.75	80.53	104.61	118.10	132.44	146.55
12991	47.64	89.95	119.33	141.96	164.08	183.13

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Conduit Number	Maximum Computed Discharge					
	2-Yr (cfs)	5-Yr (cfs)	10-Yr (cfs)	25-Yr (cfs)	50-Yr (cfs)	100-Yr (cfs)
13031	47.90	93.29	125.20	151.61	178.95	205.18
13041	152.80	320.32	433.64	561.35	667.50	719.14
13051	183.57	387.84	529.23	705.48	839.00	921.69
13111	36.93	59.08	72.15	87.12	104.28	120.45
13131	35.08	56.34	68.74	82.79	98.73	113.61
13141	12.56	20.41	25.35	31.19	38.01	44.02
13151	8.85	17.23	21.27	25.92	30.74	31.96
13161	6.48	12.54	16.64	21.72	28.28	41.84
13171	16.45	25.01	29.86	37.23	45.47	51.49
13191	12.87	21.48	27.84	35.62	44.03	46.08
13211	41.37	70.24	88.06	108.53	131.81	146.91
13221	13.66	22.08	27.03	32.02	35.56	40.39
13231	21.33	40.92	53.63	68.13	84.76	100.75
13251	17.16	30.21	38.23	46.81	63.98	82.91
13271	43.89	75.19	86.86	105.33	122.21	126.01
13291	65.86	107.46	136.78	173.22	192.73	194.87
13301	6.91	11.67	14.90	18.86	23.63	28.29
13311	66.91	107.45	136.75	173.18	192.07	192.97
13321	9.03	16.04	20.56	26.41	33.78	40.82
13331	65.01	114.46	147.62	187.00	212.12	219.16
13341	10.66	51.07	52.57	60.13	70.94	108.02
13351	16.70	27.90	34.14	41.97	51.34	60.14
13411	227.39	467.20	639.34	857.11	1017.16	1103.08
13421	221.41	451.76	616.99	830.16	975.89	1057.02
13431	216.25	443.74	609.72	816.67	963.40	1054.07
13451	215.22	440.96	605.67	810.63	955.72	1046.34
13471	212.67	434.33	596.56	798.80	944.49	1034.21
13491	9.69	15.72	19.35	23.67	28.92	34.04
13501	18.18	32.28	41.69	52.93	64.50	74.05
13511	16.87	30.03	31.75	85.40	93.62	94.49
13531	23.15	40.37	36.00	72.14	106.34	115.72
13591	12.90	21.75	27.43	34.37	43.47	52.51
13611	10.76	18.57	23.96	30.65	38.88	47.03
13621	15.30	26.82	34.59	44.34	56.49	68.39
13651	25.79	40.42	48.74	54.58	61.74	70.37
13661	20.90	38.67	50.75	65.59	83.70	99.79
13671	39.48	62.01	74.46	84.54	85.96	85.30
13691	32.24	53.56	61.63	60.32	63.74	66.89
13711	19.27	30.78	37.28	44.72	59.45	70.14
13751	19.14	29.26	33.63	37.83	45.30	44.74
13771	27.71	44.57	52.76	61.23	77.40	81.43
13791	25.76	37.75	43.48	49.31	54.83	60.46
13811	25.11	36.12	40.85	46.30	51.16	55.52

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Conduit Number	Maximum Computed Discharge					
	2-Yr (cfs)	5-Yr (cfs)	10-Yr (cfs)	25-Yr (cfs)	50-Yr (cfs)	100-Yr (cfs)
13851	36.67	64.49	83.13	106.03	133.56	158.67
13871	36.11	67.42	82.49	100.51	125.29	147.34
13891	32.52	106.73	137.02	155.79	168.64	169.96
13901	32.66	82.07	108.10	130.50	149.09	162.29
13911	27.25	41.18	45.50	47.35	47.26	47.48
13931	31.90	46.37	49.73	50.42	50.89	51.32
13951	19.96	34.34	39.83	41.18	41.13	41.04
14011	6.54	9.76	11.41	16.41	21.94	29.82
14091	28.91	41.10	50.61	52.55	55.12	57.61
14111	28.86	39.84	50.62	52.58	55.14	57.64
14131	31.83	48.90	69.06	73.91	76.18	77.16
14151	28.87	38.66	50.85	52.72	55.14	57.63
14231	10.64	18.34	22.94	28.94	37.61	46.76
14232	11.47	17.27	20.84	24.61	27.29	28.92
14251	21.59	30.84	36.86	44.22	53.88	63.17
14271	6.66	10.14	12.14	14.35	16.39	18.34
14272	4.62	8.03	10.21	12.89	16.59	19.90
14291	11.18	18.02	22.18	27.05	30.74	34.68
14301	28.79	46.44	54.59	58.54	58.86	57.92
14311	50.50	75.63	86.44	93.31	96.92	97.83
14321	41.44	54.21	55.61	56.36	56.72	56.48
14331	23.76	46.61	49.86	51.19	52.51	53.50
14351	12.95	20.31	24.59	30.36	37.75	44.52
14352	13.07	20.31	25.26	30.36	37.75	44.52
14371	25.60	40.75	49.92	61.12	76.12	90.08
14391	26.56	42.59	52.69	64.45	79.16	93.13
14392	26.83	42.59	52.69	64.45	79.16	93.13
14411	51.00	81.83	100.31	121.94	148.93	174.09
14451	27.68	55.01	61.80	67.08	73.10	78.98
14471	27.79	55.10	61.89	67.13	73.04	78.61
14511	64.36	107.38	132.06	147.36	176.50	204.87
14531	95.84	164.76	208.89	256.81	314.42	367.38
14611	93.69	161.13	204.31	250.83	305.89	356.74
14631	78.49	135.66	173.04	213.66	258.98	304.20
14671	25.95	40.23	45.16	47.92	47.03	44.82
14681	21.10	32.60	33.75	33.92	33.98	34.01
14691	18.73	28.90	31.11	30.96	30.72	30.69
14711	8.25	26.20	40.51	42.46	44.86	47.36
14721	1.59	10.22	9.75	9.61	9.86	10.01
14731	1.58	11.19	11.55	12.17	11.80	11.84
14741	1.47	8.92	9.31	9.65	9.87	10.02
14751	5.96	9.61	11.48	12.39	12.53	12.48
14761	5.92	9.92	10.37	11.12	11.64	10.34

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Conduit Number	Maximum Computed Discharge					
	2-Yr (cfs)	5-Yr (cfs)	10-Yr (cfs)	25-Yr (cfs)	50-Yr (cfs)	100-Yr (cfs)
14781	9.82	15.74	19.26	23.34	27.95	32.98
14791	10.07	15.84	19.09	23.11	27.79	32.29
14801	13.24	20.34	24.97	29.56	34.72	39.39
14831	11.00	19.87	25.72	33.41	43.06	52.46
14851	11.04	22.69	32.03	44.89	66.51	93.25
15031	31.29	49.64	61.36	67.06	66.76	66.58
15041	31.15	49.18	59.58	66.32	66.07	65.82
15051	17.23	27.43	33.46	40.38	48.27	55.73
15061	6.04	8.08	9.07	10.10	11.15	12.08
15071	5.55	7.25	8.35	9.75	11.26	12.51
15091	5.52	7.43	8.48	9.69	10.82	11.92
15111	4.66	6.76	7.79	8.89	10.02	10.94
15131	5.69	7.15	7.96	9.39	11.13	12.61
15151	7.05	9.50	10.78	12.11	13.54	14.79
15171	14.28	20.96	24.45	28.12	32.02	35.31
15181	23.01	36.75	44.85	54.12	64.67	74.43
15191	4.78	9.92	13.39	17.40	21.35	23.52
15201	4.78	9.94	13.41	17.42	21.36	23.52
15211	13.87	20.43	24.08	28.16	32.81	37.77
15221	13.31	21.27	26.04	31.57	37.98	44.01
15241	25.97	39.55	47.64	57.14	68.29	79.00
15251	5.08	10.88	14.55	19.96	25.74	31.28
15261	6.35	12.18	16.07	21.06	28.08	33.53
15271	9.99	16.92	22.22	26.45	30.03	33.07
15272	14.44	20.18	22.03	25.67	31.04	34.19
15281	24.41	37.13	44.53	49.65	60.01	65.21
15291	10.64	13.46	14.74	15.90	16.90	19.04
15311	12.85	18.02	20.82	23.91	27.31	30.38
15321	1.58	2.14	2.40	2.42	2.43	2.44
15331	1.58	2.10	2.34	2.97	3.17	3.14
15351	6.26	7.87	8.57	9.51	11.12	12.60
15352	8.30	10.65	11.65	12.46	13.25	14.27
15353	9.44	12.37	13.67	14.82	15.73	16.30
15354	10.62	14.16	15.76	17.17	18.36	18.95
15355	12.66	17.45	19.71	21.79	23.48	24.50
15371	10.73	27.36	32.15	32.16	32.16	32.32
15381	35.10	58.21	71.41	78.66	82.97	85.03
15411	2.43	8.19	14.17	17.79	22.19	23.87
15421	8.97	18.20	27.02	31.99	34.90	36.74
15431	13.50	18.90	21.61	24.19	26.26	27.70
15441	13.68	19.18	21.96	24.63	26.81	28.32
15451	8.41	17.74	24.91	35.43	50.19	65.72
15452	17.58	27.41	31.89	35.39	37.18	37.79

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	2-Yr (cfs)	5-Yr (cfs)	10-Yr (cfs)	25-Yr (cfs)	50-Yr (cfs)	100-Yr (cfs)
15461	2.37	8.18	13.57	18.45	24.37	30.35
15462	8.52	14.41	17.83	23.73	32.99	43.19
15471	2.45	8.34	14.21	17.69	23.28	28.82
15481	9.23	15.89	23.72	28.37	31.20	33.47
15491	50.35	80.19	101.19	121.31	130.24	134.40
15511	50.48	81.32	97.34	110.07	116.63	119.82
15521	50.39	79.70	96.38	109.17	115.73	119.23
15531	9.67	19.97	25.64	33.68	45.27	52.19
15541	9.21	15.91	19.38	23.72	29.01	34.01
15551	24.22	33.64	42.26	49.39	64.56	77.04
15561	11.59	16.78	21.06	24.02	24.20	24.21
15562	11.59	16.78	21.06	24.02	24.20	24.21
15571	7.70	12.58	13.99	14.60	16.35	17.18
15572	7.70	12.58	13.99	14.60	16.35	17.18
15573	7.70	12.58	13.99	14.60	16.35	17.18
15581	29.70	45.51	49.90	53.04	53.12	52.58
15591	28.78	44.24	48.61	51.78	51.88	51.48
15611	1.50	5.85	8.49	11.12	13.61	15.38
15621	1.50	5.86	8.53	11.17	13.67	15.50
15631	4.74	8.35	10.70	13.56	17.01	20.38
15651	7.64	14.01	18.19	23.17	28.91	34.12
15661	7.03	13.20	17.16	21.58	25.84	28.16
15671	6.98	13.16	17.04	21.24	25.00	26.26
15681	3.49	6.54	8.45	10.55	12.44	13.10
15682	3.49	6.54	8.45	10.55	12.44	13.10
15691	12.15	21.43	27.17	33.84	41.32	47.87
15701	11.14	19.25	24.75	31.21	38.28	44.57
15711	4.48	5.80	6.74	7.42	9.15	10.54
15721	9.55	16.37	19.44	23.60	25.00	25.96
15731	1.74	6.21	8.77	11.33	13.85	15.70
15751	2.56	6.50	9.57	12.18	14.32	16.14
15761	14.27	19.51	22.10	25.16	26.78	28.11
15771	45.60	73.88	90.13	104.80	117.54	122.57
15791	65.35	102.47	113.74	123.16	128.02	129.06
15811	71.78	109.91	121.32	131.30	139.08	141.27
15821	11.70	13.07	13.06	13.06	13.07	13.07
15831	12.00	12.92	12.65	12.57	12.45	12.51
15841	2.85	2.87	2.88	2.89	2.91	2.93
15851	70.30	106.85	116.31	125.47	134.03	138.59
15861	3.10	3.09	3.13	3.18	3.21	3.24
15871	22.69	35.61	38.64	40.99	43.59	45.93
15872	22.31	35.61	38.55	40.74	43.59	45.93
15873	24.39	34.81	37.59	40.74	43.59	45.93

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	2-Yr (cfs)	5-Yr (cfs)	10-Yr (cfs)	25-Yr (cfs)	50-Yr (cfs)	100-Yr (cfs)
15881	18.91	29.96	36.85	44.89	51.51	51.52
15891	68.20	102.19	109.47	118.55	131.23	137.92
15901	16.09	30.84	30.88	31.14	31.54	31.90
15911	15.58	22.28	22.40	22.44	22.44	22.44
15921	15.50	21.82	22.48	22.94	22.87	22.92
15931	22.44	32.20	36.24	40.73	44.05	44.64
15941	5.37	5.57	5.57	5.57	5.58	5.58
15951	24.59	42.99	55.83	67.34	74.12	75.48
15961	5.13	4.90	4.86	4.85	4.84	4.97
15971	2.70	2.71	2.71	2.72	2.74	2.75
15981	2.76	2.77	2.78	2.79	2.80	2.81
15991	20.39	27.88	29.42	31.24	35.19	37.73
15992	11.21	23.96	29.17	33.06	35.59	37.73
15993	17.41	26.74	28.98	31.63	35.19	37.73
15994	18.74	27.35	29.10	31.24	35.19	37.73
16001	3.07	3.09	3.14	3.54	4.81	5.13
16011	84.40	136.72	155.48	171.41	196.84	206.77
16071	11.12	19.02	23.92	29.69	34.40	37.27
16091	13.41	24.54	31.76	43.03	55.61	71.66
16131	90.10	149.49	171.88	201.22	233.93	255.36
16141	92.31	157.75	183.02	212.81	248.95	272.81
16151	10.51	15.68	19.14	20.71	23.38	24.93
16161	14.70	22.41	25.61	30.99	33.09	32.72
16171	15.12	26.16	33.18	39.93	43.06	42.84
16191	18.62	35.29	45.42	47.96	49.37	50.51
16211	28.80	57.68	75.97	91.72	101.01	101.21
16271	14.84	24.30	30.05	35.01	37.65	37.67
16291	11.18	16.28	18.08	19.33	19.45	19.23
16311	10.37	14.06	16.81	18.65	19.80	20.51
16351	15.27	29.19	36.92	43.27	48.97	49.06
16411	42.61	78.09	100.63	114.40	121.35	123.82
16421	13.85	24.89	32.22	32.23	32.23	32.25
16431	42.34	52.45	52.48	52.46	51.95	52.27
16441	29.06	47.11	50.10	49.10	49.03	48.02
16451	28.61	49.42	50.57	50.98	50.20	49.51
16471	19.76	38.57	37.88	36.38	34.95	37.79
16491	17.04	28.32	35.11	46.26	73.38	82.36
16511	62.84	123.13	159.25	185.81	188.69	191.73
16531	30.81	61.57	79.61	92.85	93.98	95.91
16532	32.16	61.57	79.61	92.85	93.98	95.91
16541	79.14	138.87	167.55	205.23	255.11	284.46
16551	65.33	128.28	166.19	195.31	202.47	207.08
16561	11.05	12.33	12.69	12.91	12.93	12.99

Table D-1. Existing Conditions Peak Discharges (Scenario 1)

Notes: Peak discharges usually occur at times other than the time of maximum computed water surface elevation. Peak discharges can occur in the upstream direction.

Conduit Number	Maximum Computed Discharge					
	2-Yr (cfs)	5-Yr (cfs)	10-Yr (cfs)	25-Yr (cfs)	50-Yr (cfs)	100-Yr (cfs)
16571	5.36	9.68	12.58	15.66	18.96	22.06
16572	7.84	14.69	18.61	22.81	27.51	31.73
16581	65.14	130.16	168.70	198.22	205.50	211.62
16591	129.94	256.44	331.04	407.78	468.32	508.12
16651	152.29	303.94	397.31	500.25	590.19	656.78
16711	29.78	53.18	65.67	84.76	101.54	117.47
16731	42.60	77.24	96.96	122.44	139.80	150.82
16751	21.27	37.10	45.95	56.61	68.78	68.96
16791	36.84	63.91	79.01	99.84	121.81	140.39
16811	35.30	61.52	77.79	97.71	117.67	140.50
16831	34.28	66.50	85.90	108.67	136.25	163.98
16851	8.75	16.00	20.90	27.05	34.75	44.88
16871	42.50	83.78	110.22	141.45	179.30	216.39
16891	37.34	68.11	87.83	109.70	135.73	162.89
16892	11.86	28.24	39.19	51.29	70.12	91.70
16921	7.15	10.65	11.08	10.83	9.78	11.66
16931	5.76	9.05	9.25	5.05	4.72	4.60
16941	15.24	26.71	26.79	26.99	27.24	27.52
16951	20.66	20.66	20.67	20.66	20.66	20.66
16961	15.52	16.05	15.83	15.56	15.25	14.96
16971	10.43	10.79	10.89	11.00	11.16	11.26
16991	10.38	10.80	10.96	12.71	13.51	14.36
17001	12.93	21.72	27.12	29.86	29.82	29.60
17011	15.50	28.46	37.08	43.88	49.16	54.69
17021	19.37	38.15	50.73	57.24	59.43	61.40
17031	30.12	45.71	61.99	62.77	96.47	96.72
17041	22.58	46.61	62.33	69.28	75.10	83.77
17051	23.11	39.10	48.11	50.23	61.31	75.77
17071	49.48	86.27	110.46	136.21	167.26	204.27
17131	8.69	18.27	24.61	27.16	28.69	30.58
17132	13.37	27.54	37.13	40.97	43.27	46.13
17151	21.93	45.64	61.77	68.53	72.52	76.86
17161	23.68	53.00	74.30	89.39	103.62	114.05
17171	11.70	26.35	37.49	45.20	52.40	57.75
17172	11.70	26.35	37.49	45.20	52.40	57.75
17191	23.14	53.47	75.95	91.72	106.33	117.31
17211	170.61	349.06	463.45	582.06	687.28	766.99
17231	183.18	376.13	507.82	652.72	785.40	888.19
17241	8.72	15.61	21.01	26.12	33.22	40.22
17251	10.05	18.24	23.54	33.45	35.80	35.71
17261	4.51	8.57	14.36	18.08	20.33	20.99
17271	179.78	365.39	494.53	637.94	763.14	874.49
17291	179.13	363.29	491.42	631.33	757.38	869.32

Table D-1. Existing Conditions Peak Discharges (Scenario 1)

Notes: Peak discharges usually occur at times other than the time of maximum computed water surface elevation. Peak discharges can occur in the upstream direction.

Conduit Number	Maximum Computed Discharge					
	2-Yr (cfs)	5-Yr (cfs)	10-Yr (cfs)	25-Yr (cfs)	50-Yr (cfs)	100-Yr (cfs)
17301	13.57	26.24	32.76	36.11	39.60	41.97
17311	10.21	20.42	31.24	37.71	41.79	44.04
17331	45.24	71.76	87.42	105.08	125.21	144.85
17351	22.46	35.70	43.59	52.30	62.40	71.79
17352	22.46	35.70	43.59	52.30	62.40	71.79
17371	41.24	66.33	81.21	98.15	117.54	136.07
17391	28.73	41.25	46.71	50.77	54.08	55.20
17411	28.50	40.52	45.72	49.56	52.47	53.17
17431	178.04	359.34	484.28	621.06	746.58	854.96
17471	41.47	62.77	69.64	103.05	126.79	154.87
17491	39.32	44.90	214.90	334.83	344.62	352.50
17511	38.97	43.30	65.29	162.15	201.70	239.03
17521	8.93	16.49	21.67	24.50	24.60	24.84
17531	174.91	354.76	478.40	614.10	740.70	851.10
17541	10.84	19.07	22.15	22.12	22.16	22.28
17551	19.15	34.13	42.76	50.60	60.42	70.05
17561	26.62	48.23	61.59	72.78	80.17	87.76
17571	20.80	20.57	20.41	19.97	20.15	20.03
17591	15.75	15.84	15.91	15.99	16.13	16.32
17611	156.20	312.96	420.91	551.11	662.53	762.98
17621	13.14	23.91	30.50	36.59	40.40	44.30
17622	13.14	23.91	30.50	36.59	40.40	44.30
17631	30.53	56.00	74.34	91.13	105.20	118.18
17651	14.56	27.53	34.34	42.09	47.09	52.13
17652	14.56	27.53	34.34	42.09	47.09	52.13
17661	28.92	51.64	67.10	83.91	93.59	102.59
17671	32.06	53.01	65.84	80.90	98.60	115.56
17691	34.10	63.04	82.50	106.54	136.16	163.17
17711	40.80	77.52	102.63	133.56	161.43	193.91
17731	6.87	23.20	36.80	55.74	67.25	81.30
17732	39.69	63.81	78.78	94.67	121.06	147.41
17751	76.86	147.16	195.97	255.57	311.30	368.81
17771	84.21	161.10	214.57	280.17	344.71	409.24
17791	42.09	80.58	107.26	140.08	172.57	204.74
17792	41.76	80.15	106.78	139.54	171.97	204.09
17811	93.20	178.62	242.93	315.09	383.80	449.74
17851	12.14	18.53	20.38	22.48	23.12	23.13
17871	10.51	17.11	20.51	22.65	23.16	23.24
17891	94.92	183.08	249.27	324.19	397.46	468.62
17911	16.53	27.55	33.73	41.51	50.71	59.43
17931	104.70	203.89	278.51	363.41	452.82	535.31
17951	96.81	184.34	250.81	327.79	406.71	481.60
17991	248.90	500.60	685.01	923.83	1159.49	1321.56

Table D-1. Existing Conditions Peak Discharges (Scenario 1)

Notes: Peak discharges usually occur at times other than the time of maximum computed water surface elevation. Peak discharges can occur in the upstream direction.

Conduit Number	Maximum Computed Discharge					
	2-Yr (cfs)	5-Yr (cfs)	10-Yr (cfs)	25-Yr (cfs)	50-Yr (cfs)	100-Yr (cfs)
18011	245.47	493.02	674.63	908.51	1141.68	1304.43
18031	242.28	486.78	666.77	897.71	1128.65	1290.76
18051	219.86	438.92	609.11	835.23	1055.98	1207.57
18071	201.10	405.86	565.44	769.62	980.35	1123.49
18091	196.31	396.51	554.22	754.94	965.00	1110.13
18111	191.54	394.10	546.53	764.14	970.35	1117.18
18151	162.98	345.72	507.25	715.77	933.02	1099.43
18171	256.27	512.98	730.53	1024.49	1338.22	1592.25
18181	26.50	43.14	52.67	63.56	75.83	86.11
18201	22.11	33.86	36.11	69.58	104.42	116.28
18211	17.77	29.94	34.33	37.90	51.66	63.75
18221	12.80	22.55	28.66	35.38	41.75	46.96
18251	32.75	51.01	58.38	72.59	95.00	113.73
18271	32.67	51.21	58.31	72.59	94.95	113.63
18281	23.14	23.43	23.42	23.42	23.81	24.68
18291	10.32	19.46	19.63	21.74	24.34	25.53
18311	39.54	61.10	70.80	76.49	78.44	81.50
18331	50.16	81.01	95.01	113.40	126.29	135.60
18371	49.43	79.37	93.15	110.65	124.27	133.91
18391	49.38	79.05	92.70	109.91	123.77	133.52
18411	49.33	78.99	92.60	109.69	123.61	133.38
18431	49.40	78.59	91.82	108.31	121.68	131.40
18451	6.90	9.79	12.12	21.20	33.47	38.32
18452	6.90	9.79	12.12	21.20	33.47	38.32
18461	18.67	20.95	20.22	31.25	43.35	55.75
18471	243.40	479.26	684.27	972.88	1319.25	1586.04
18481	237.39	464.45	664.36	948.24	1292.01	1567.32
18491	232.32	443.95	633.12	903.63	1239.57	1518.16
18511	214.53	394.16	544.65	767.40	1091.14	1364.91
18531	28.09	47.81	58.95	65.04	66.04	65.29
18551	21.71	37.71	47.98	53.17	53.11	53.04
18591	13.05	21.99	28.21	36.13	45.79	53.20
18631	24.26	41.44	52.13	64.83	75.21	83.78
18651	41.49	73.44	94.25	118.72	142.96	153.91
18661	41.00	72.47	92.97	117.64	141.21	150.09
18671	13.16	26.00	33.98	41.83	48.44	55.53
18672	15.59	29.21	38.36	51.95	56.81	53.95
18711	13.07	21.82	25.49	28.80	30.15	30.99
18731	11.90	21.24	24.88	28.21	29.72	31.31
18751	27.11	48.95	62.34	78.64	97.59	101.01
18771	32.38	64.70	85.69	111.53	141.65	157.46
18791	32.45	65.36	87.90	116.03	150.00	175.89
18811	39.42	70.60	90.54	116.10	138.91	146.48

Table D-1. Existing Conditions Peak Discharges (Scenario 1)

Notes: Peak discharges usually occur at times other than the time of maximum computed water surface elevation. Peak discharges can occur in the upstream direction.

Conduit Number	Maximum Computed Discharge					
	2-Yr (cfs)	5-Yr (cfs)	10-Yr (cfs)	25-Yr (cfs)	50-Yr (cfs)	100-Yr (cfs)
18831	38.11	69.06	88.92	114.92	137.10	144.03
18841	35.86	66.49	86.48	113.35	134.43	139.69
18851	57.83	114.48	157.99	214.03	265.74	283.47
18911	65.43	127.93	178.98	245.31	311.75	342.62
18931	60.27	127.01	180.54	248.32	315.78	347.11
18971	74.64	126.78	181.41	251.37	321.95	354.50
19031	15.90	25.49	31.54	38.55	46.82	54.65
19051	39.30	44.96	45.03	45.11	45.17	45.22
19071	15.22	25.17	32.42	40.08	42.86	43.56
19111	11.77	20.55	26.39	33.79	43.05	51.87
19131	25.86	41.61	51.34	63.36	76.94	88.11
19151	20.95	44.18	54.38	68.49	77.29	87.26
19171	23.91	40.57	40.38	40.48	40.55	40.51
19191	22.78	32.77	33.01	33.35	33.91	34.42
19211	39.84	60.09	68.60	77.99	88.79	94.88
19231	8.27	22.12	32.03	38.92	44.60	49.68
19411	62.69	126.39	179.83	248.49	309.15	342.03
19431	61.29	125.79	178.78	246.83	307.41	339.95
19491	213.85	386.88	524.30	721.64	1003.98	1284.35
19511	213.94	386.66	523.25	718.40	996.59	1277.93
19551	228.54	407.17	547.43	746.92	1028.95	1316.57
19611	231.17	409.73	549.00	745.15	1016.20	1284.44

Table D-2. Future Conditions Peak Discharges (Scenario 3)

Notes: Peak discharges usually occur at times other than the time of maximum computed water surface elevation. Peak discharges can occur in the upstream direction.

Conduit Number	Maximum Computed Dischagre					
	2-Yr (cfs)	5-Yr (cfs)	10-Yr (cfs)	25-Yr (cfs)	50-Yr (cfs)	100-Yr (cfs)
11041	20.24	31.51	37.94	44.47	47.41	49.87
11051	9.03	13.25	13.31	12.61	12.37	12.80
11052	9.03	13.25	13.31	12.61	12.37	12.80
11061	40.67	62.11	71.62	80.45	88.77	95.27
11071	32.24	50.97	60.83	71.83	76.04	76.10
11111	23.86	23.86	56.92	85.04	90.38	90.49
11112	23.86	23.86	56.92	85.04	90.38	90.49
11131	47.96	47.68	76.69	119.53	138.00	144.86
11151	23.62	23.67	37.32	42.85	39.68	42.41
11152	23.62	23.67	37.32	42.85	39.68	42.41
11171	44.96	47.08	64.94	70.09	80.01	85.55
11191	19.05	28.63	43.39	54.85	70.84	83.44
11201	15.37	22.39	25.42	30.91	31.07	27.30
11231	27.88	41.28	50.78	58.66	64.21	69.79
11232	28.61	41.28	50.78	58.66	64.21	69.79
11251	54.58	76.19	99.08	113.28	122.31	128.39
11271	54.98	82.86	113.59	135.87	152.72	169.24
11311	22.76	35.73	42.77	48.22	53.70	58.65
11331	75.15	125.40	161.70	190.08	214.10	233.67
11371	41.13	64.88	80.34	96.17	109.03	122.31
11372	33.49	61.33	83.56	96.17	109.03	122.31
11391	71.31	117.14	151.18	180.72	205.86	243.67
11411	69.07	114.76	151.32	191.23	225.33	276.31
11431	25.38	43.21	54.38	67.63	83.53	98.93
11451	69.42	118.30	160.06	214.55	261.50	325.50
11491	48.94	92.53	124.51	169.43	209.56	264.66
11492	20.49	33.82	45.48	61.88	76.54	96.66
11511	72.36	134.72	182.46	249.81	312.26	395.76
11551	21.33	34.45	43.92	55.40	66.36	73.74
11571	18.64	31.83	40.45	50.95	60.66	63.21
11591	16.84	28.41	36.05	45.41	53.79	54.80
11611	12.65	27.34	37.75	49.23	55.46	55.08
11621	16.92	28.86	37.19	48.85	62.41	75.47
11631	10.24	17.56	19.22	19.84	22.26	25.57
11632	5.96	10.03	12.87	18.24	22.27	25.57
11671	11.45	18.62	23.03	28.25	34.38	40.31
11691	10.48	17.45	21.74	26.75	32.56	38.05
11701	11.29	17.69	21.43	25.70	30.46	34.75
11711	19.44	43.22	60.08	78.31	92.48	97.43
11721	5.58	8.85	10.44	11.87	13.71	18.11
11731	33.76	67.54	91.51	118.12	142.55	158.22
11751	35.14	68.37	91.60	117.19	140.60	155.28
11811	31.38	63.74	85.93	110.72	150.13	231.48

Table D-2. Future Conditions Peak Discharges (Scenario 3)

Notes: Peak discharges usually occur at times other than the time of maximum computed water surface elevation. Peak discharges can occur in the upstream direction.

Conduit Number	Maximum Computed Dischagre					
	2-Yr (cfs)	5-Yr (cfs)	10-Yr (cfs)	25-Yr (cfs)	50-Yr (cfs)	100-Yr (cfs)
11831	104.92	204.69	279.46	375.65	459.52	585.76
11851	104.41	204.38	279.07	375.41	459.11	719.98
11871	102.08	203.15	277.30	374.30	456.99	521.84
11951	8.61	17.36	23.37	30.92	33.14	33.10
12031	17.84	36.35	47.58	59.56	69.73	78.76
12091	16.21	29.32	37.38	45.48	54.70	63.25
12111	115.68	232.41	318.81	429.07	526.86	548.56
12131	15.81	26.63	30.21	34.23	39.90	41.60
12151	125.28	258.01	355.74	478.92	584.32	613.69
12171	123.34	256.95	354.58	477.82	582.71	609.39
12271	13.29	13.76	13.76	13.76	13.76	13.76
12281	13.32	13.76	13.77	13.76	13.76	13.76
12291	9.58	11.86	11.86	11.85	11.85	11.85
12321	13.68	20.92	21.37	21.80	22.18	22.60
12351	3.53	5.70	6.88	8.17	9.75	11.32
12371	2.45	3.48	4.43	5.25	5.55	6.73
12401	3.07	5.68	7.55	9.42	11.15	12.46
12411	4.80	8.05	9.76	11.90	14.14	15.95
12421	6.02	10.13	12.22	14.72	17.38	19.68
12431	10.35	17.63	21.80	26.32	31.31	35.93
12451	10.56	18.00	23.21	29.71	37.80	46.32
12491	10.10	17.92	23.16	29.64	37.78	46.28
12511	10.90	19.63	25.14	31.72	39.78	47.93
12611	23.03	33.73	38.85	44.13	50.43	54.54
12651	18.53	27.72	30.46	33.73	37.49	39.93
12671	16.63	27.08	33.35	40.73	49.19	51.47
12681	8.17	14.05	14.13	14.56	15.00	15.22
12691	29.12	46.61	52.99	60.32	67.72	69.40
12711	29.18	46.66	53.01	60.33	67.73	69.53
12751	28.84	46.31	52.68	59.87	67.09	69.18
12771	30.50	52.09	63.13	75.27	88.23	96.71
12791	30.39	51.99	62.88	74.15	86.29	92.89
12811	30.38	52.00	62.84	73.90	85.85	92.02
12851	40.08	69.07	87.12	105.69	126.69	141.83
12861	6.86	11.35	13.24	15.37	17.39	21.28
12871	23.89	36.24	41.81	50.86	55.89	63.93
12881	14.38	41.63	51.34	53.53	55.99	56.07
12901	12.79	24.99	38.84	51.15	56.09	56.29
12911	158.22	319.36	433.16	572.55	705.42	765.25
12951	42.66	75.53	93.56	104.54	114.46	121.91
12971	44.80	80.60	104.41	118.14	132.49	146.61
12991	47.64	89.93	118.98	141.78	163.86	182.88
13031	47.30	92.50	123.90	150.25	177.41	202.19

Table D-2. Future Conditions Peak Discharges (Scenario 3)

Notes: Peak discharges usually occur at times other than the time of maximum computed water surface elevation. Peak discharges can occur in the upstream direction.

Conduit Number	Maximum Computed Dischagre					
	2-Yr (cfs)	5-Yr (cfs)	10-Yr (cfs)	25-Yr (cfs)	50-Yr (cfs)	100-Yr (cfs)
13041	164.91	331.03	455.01	599.58	764.32	829.84
13051	193.20	398.36	549.71	741.73	933.85	1023.86
13111	55.27	89.50	109.76	132.91	159.34	184.08
13131	55.62	89.50	108.95	130.60	154.55	173.68
13141	21.17	33.70	40.93	49.67	61.47	80.69
13151	14.92	20.72	25.18	28.16	35.45	37.40
13161	11.30	20.46	30.55	53.60	68.97	73.75
13171	26.50	43.90	52.24	61.99	66.97	67.72
13191	22.95	38.07	46.17	46.98	47.31	47.71
13211	65.47	108.43	133.01	149.76	155.67	155.77
13221	13.93	22.52	27.60	32.90	36.59	41.33
13231	21.97	41.57	53.95	68.01	83.82	98.97
13251	16.69	28.46	37.69	46.52	65.10	83.90
13271	65.32	99.48	117.69	131.30	132.13	131.42
13291	83.18	129.04	160.10	183.52	192.84	194.93
13301	6.92	11.72	15.03	19.03	23.82	28.45
13311	83.96	128.97	160.06	183.46	192.14	192.75
13321	9.03	16.04	20.56	26.41	33.78	40.83
13331	82.13	136.22	171.38	198.08	213.82	220.27
13341	10.65	50.72	52.29	59.81	71.68	106.34
13351	16.71	27.49	33.78	41.60	51.06	60.08
13411	247.70	492.26	675.79	907.82	1107.54	1200.42
13421	239.59	474.22	648.61	877.82	1064.98	1150.99
13431	231.24	464.67	638.30	858.37	1047.48	1141.67
13451	229.71	461.39	633.22	851.27	1039.47	1132.84
13471	226.01	453.90	622.04	837.01	1026.44	1119.48
13491	9.69	15.72	19.35	23.67	28.92	34.04
13501	18.18	32.28	41.69	52.93	64.50	74.05
13511	16.87	30.03	31.74	86.07	93.71	94.45
13531	22.16	38.95	34.59	71.83	105.47	114.62
13591	12.90	21.75	27.43	34.37	43.47	52.51
13611	10.76	18.57	23.96	30.65	38.88	47.03
13621	15.30	26.82	34.59	44.34	56.49	68.38
13651	25.79	40.42	48.73	54.59	62.00	70.72
13661	20.90	38.67	50.75	65.59	83.70	99.89
13671	39.48	62.01	74.46	84.56	85.98	85.32
13691	32.24	53.55	61.62	60.31	63.78	67.02
13711	19.27	30.86	37.75	45.63	57.44	70.03
13751	19.16	30.28	36.53	43.08	47.39	47.03
13771	27.72	45.71	56.40	68.13	80.22	83.29
13791	26.89	43.48	52.96	62.80	87.00	97.04
13811	26.71	42.79	52.01	61.59	89.72	99.04
13851	36.67	64.49	83.13	106.03	133.56	158.66

Table D-2. Future Conditions Peak Discharges (Scenario 3)

Notes: Peak discharges usually occur at times other than the time of maximum computed water surface elevation. Peak discharges can occur in the upstream direction.

Conduit Number	Maximum Computed Dischagre					
	2-Yr (cfs)	5-Yr (cfs)	10-Yr (cfs)	25-Yr (cfs)	50-Yr (cfs)	100-Yr (cfs)
13871	36.10	67.42	82.49	100.51	125.31	147.31
13891	32.52	104.60	137.32	157.21	168.60	169.83
13901	32.63	82.10	108.12	131.55	152.37	161.98
13911	25.99	40.58	49.05	58.08	77.25	81.22
13931	27.35	39.07	46.11	54.97	74.74	78.52
13951	19.31	32.98	41.34	50.58	62.28	62.58
14011	7.18	11.45	13.74	15.99	20.33	26.21
14091	31.29	53.48	67.87	84.72	99.56	103.64
14111	31.23	53.42	67.82	84.67	99.63	103.67
14131	31.13	53.42	67.73	84.60	100.04	103.91
14151	31.18	53.58	67.69	84.56	100.38	104.15
14231	10.64	18.34	22.84	29.01	37.61	46.87
14232	11.47	17.27	20.87	24.55	27.17	28.77
14251	20.95	30.76	36.74	44.25	53.97	63.21
14271	6.66	10.14	12.14	14.35	16.38	18.34
14272	4.62	8.03	10.21	12.89	16.60	19.90
14291	11.18	18.02	22.18	27.05	30.52	34.59
14301	28.79	46.44	54.59	58.54	58.86	57.92
14311	50.50	75.62	86.43	93.31	96.84	97.77
14321	41.65	54.26	55.70	56.47	56.88	56.65
14331	23.75	46.62	49.87	51.56	52.77	53.64
14351	13.94	20.27	24.51	30.39	37.84	44.62
14352	14.12	20.28	25.19	30.39	37.84	44.62
14371	25.82	40.86	50.00	61.31	76.33	90.30
14391	26.61	42.71	52.78	64.61	79.40	93.32
14392	26.81	42.71	52.78	64.61	79.40	93.32
14411	51.10	82.05	100.54	122.34	149.30	174.41
14451	27.67	55.02	61.81	67.10	73.14	78.99
14471	27.77	55.10	61.90	67.13	73.04	78.62
14511	64.56	107.67	132.44	147.77	177.11	205.76
14531	96.07	164.73	208.94	256.64	314.14	366.65
14611	93.77	160.72	203.94	249.82	304.36	354.55
14631	76.69	130.89	168.25	205.17	251.20	294.94
14671	25.94	40.11	45.15	47.81	46.94	44.68
14681	20.81	31.60	33.38	33.49	33.34	33.17
14691	17.34	27.88	31.16	31.29	31.37	31.43
14711	16.64	25.79	28.49	34.87	38.15	41.23
14721	14.80	20.79	24.84	29.35	33.54	34.65
14731	14.72	20.77	24.83	29.34	33.54	34.65
14741	12.17	20.00	24.49	29.17	33.66	34.67
14751	5.98	9.61	11.50	12.38	12.49	12.45
14761	5.92	9.52	10.49	11.23	11.67	10.28
14781	9.82	15.74	19.26	23.34	27.97	32.53

Table D-2. Future Conditions Peak Discharges (Scenario 3)

Notes: Peak discharges usually occur at times other than the time of maximum computed water surface elevation. Peak discharges can occur in the upstream direction.

Conduit Number	Maximum Computed Dischagre					
	2-Yr (cfs)	5-Yr (cfs)	10-Yr (cfs)	25-Yr (cfs)	50-Yr (cfs)	100-Yr (cfs)
14791	10.07	15.85	19.10	23.11	27.79	32.27
14801	13.28	21.80	25.00	29.66	34.78	39.44
14831	11.01	19.90	25.75	33.45	43.13	52.57
14851	10.97	22.69	32.09	44.76	66.15	92.94
15031	31.68	50.29	61.58	67.01	66.65	66.51
15041	31.54	49.82	60.31	66.26	65.99	65.73
15051	46.94	75.02	91.21	109.39	129.75	148.53
15061	11.25	14.20	15.52	16.64	16.54	16.41
15071	5.65	7.39	8.54	9.96	11.47	12.71
15091	5.20	7.10	8.12	9.24	10.39	11.53
15111	6.74	9.23	10.52	11.84	13.06	13.70
15131	6.82	9.07	10.31	11.89	13.47	14.97
15151	7.05	9.50	10.78	12.11	13.54	14.79
15171	14.28	20.97	24.45	28.13	32.02	35.32
15181	23.01	36.75	44.85	54.12	64.67	74.43
15191	4.78	9.92	13.38	17.39	21.32	23.43
15201	4.78	9.94	13.41	17.40	21.33	23.44
15211	13.87	20.42	24.07	28.15	32.79	37.76
15221	13.33	21.31	26.08	31.62	38.05	44.09
15241	25.99	39.59	47.67	57.18	68.34	79.06
15251	5.03	10.63	14.04	19.78	25.64	31.24
15261	6.29	12.17	15.02	21.10	28.27	33.58
15271	9.91	17.04	22.36	26.27	29.92	32.92
15272	14.52	20.33	22.73	25.68	31.19	34.33
15281	24.28	37.76	44.48	51.65	60.00	65.16
15291	10.64	13.46	14.74	15.90	16.90	19.04
15311	12.85	18.02	20.82	23.91	27.30	30.38
15321	1.73	2.30	2.42	2.42	2.43	2.44
15331	1.76	2.38	2.63	3.10	3.16	3.14
15351	6.83	9.07	10.31	11.88	13.47	14.97
15352	6.85	9.08	10.30	11.88	13.48	20.26
15353	6.93	9.22	10.30	11.88	13.48	18.69
15354	8.30	11.19	12.30	12.87	13.48	24.50
15355	10.67	14.83	16.49	17.54	18.02	26.85
15371	10.73	33.02	33.11	33.17	33.24	32.95
15381	34.41	65.01	74.77	77.01	81.87	84.25
15411	4.32	13.28	19.81	24.82	25.53	26.18
15421	10.35	22.31	30.72	34.05	35.93	36.80
15431	11.71	16.66	18.77	20.30	21.15	43.64
15441	11.91	16.99	19.20	20.84	21.78	42.41
15451	12.85	26.73	38.24	54.97	72.53	78.74
15452	22.62	33.60	37.10	38.43	39.89	41.33
15461	4.31	13.14	19.54	24.26	31.24	34.48

Table D-2. Future Conditions Peak Discharges (Scenario 3)

Notes: Peak discharges usually occur at times other than the time of maximum computed water surface elevation. Peak discharges can occur in the upstream direction.

Conduit Number	Maximum Computed Dischagre					
	2-Yr (cfs)	5-Yr (cfs)	10-Yr (cfs)	25-Yr (cfs)	50-Yr (cfs)	100-Yr (cfs)
15462	11.06	18.36	23.95	34.43	47.96	60.79
15471	4.40	13.19	19.68	23.36	29.81	32.27
15481	9.79	20.10	28.66	33.74	34.24	34.33
15491	59.30	103.02	127.26	141.05	148.20	152.97
15511	54.59	91.99	106.61	112.89	118.39	122.72
15521	54.15	90.73	106.13	112.25	117.92	122.37
15531	12.71	22.43	29.40	41.49	50.76	52.36
15541	8.73	15.83	20.63	26.35	32.94	38.93
15551	22.49	42.36	56.42	74.05	93.70	106.47
15561	22.49	42.63	56.80	81.40	93.68	106.40
15571	22.53	42.82	57.04	81.58	91.25	138.35
15581	30.09	55.79	72.36	105.69	114.18	119.66
15591	30.43	55.99	72.13	97.20	113.69	119.36
15611	1.79	6.41	9.36	12.02	14.60	15.91
15621	1.79	6.70	9.99	12.24	14.67	16.09
15631	4.74	8.35	10.71	13.56	17.03	20.48
15651	7.64	14.01	18.20	23.28	29.31	35.07
15661	7.00	13.11	17.00	21.19	27.86	31.45
15671	6.94	13.06	16.90	21.05	28.75	31.70
15681	3.47	6.54	8.47	10.58	14.29	16.11
15682	3.47	6.54	8.47	10.58	14.29	16.11
15691	12.19	21.59	27.56	34.54	42.64	50.18
15701	12.37	21.91	27.89	34.83	43.06	50.63
15711	8.69	18.39	30.25	41.45	53.88	60.95
15721	5.80	24.26	37.01	50.28	61.26	68.12
15731	2.08	6.96	10.65	13.39	15.79	16.45
15751	2.53	7.71	12.70	16.98	20.41	21.78
15761	8.32	32.37	49.88	66.10	81.78	91.95
15771	60.49	107.65	129.85	144.41	148.15	152.06
15791	81.73	147.73	184.36	219.10	242.73	243.59
15811	66.26	104.26	128.13	158.54	192.66	197.28
15821	11.71	13.04	13.08	13.08	13.11	13.13
15831	11.31	13.29	13.74	13.91	14.01	14.06
15841	9.64	9.66	9.66	9.68	9.70	9.72
15851	56.04	89.39	112.26	153.33	188.45	199.19
15861	9.64	10.17	10.25	10.27	10.26	10.41
15871	17.84	29.05	37.57	51.11	62.64	66.32
15872	17.63	28.80	37.57	51.11	62.64	66.32
15873	18.74	28.42	37.57	51.11	62.64	66.32
15881	23.96	38.05	46.20	51.52	51.53	51.54
15891	52.63	84.30	113.32	153.66	187.41	198.94
15901	24.07	30.92	31.17	31.78	32.22	32.60
15911	21.83	22.44	22.44	22.44	22.44	22.44

Table D-2. Future Conditions Peak Discharges (Scenario 3)

Notes: Peak discharges usually occur at times other than the time of maximum computed water surface elevation. Peak discharges can occur in the upstream direction.

Conduit Number	Maximum Computed Dischagre					
	2-Yr (cfs)	5-Yr (cfs)	10-Yr (cfs)	25-Yr (cfs)	50-Yr (cfs)	100-Yr (cfs)
15921	19.83	22.28	22.74	22.89	22.97	22.96
15931	24.78	36.79	40.85	45.21	47.41	48.09
15941	5.23	5.23	5.23	5.58	5.59	5.59
15951	27.94	47.04	54.38	59.25	63.48	66.96
15961	5.66	6.46	6.27	6.22	6.32	6.27
15971	9.06	9.07	9.09	9.11	9.13	9.18
15981	9.01	9.31	9.68	9.91	10.05	10.11
15991	14.68	21.11	29.41	40.33	49.81	53.34
15992	10.56	22.64	29.82	40.33	49.81	53.34
15993	13.50	22.42	29.41	40.33	49.81	53.34
15994	14.03	22.03	29.41	40.33	49.81	53.34
16001	8.19	8.63	8.55	8.43	11.93	17.57
16011	72.27	118.73	149.94	205.03	251.85	262.91
16071	11.25	19.25	24.19	30.03	34.74	37.61
16091	13.50	26.46	37.45	49.10	61.19	74.59
16131	79.10	135.57	171.60	227.97	279.84	299.32
16141	83.37	143.32	182.16	243.36	295.44	315.19
16151	10.70	15.68	19.14	22.25	24.93	24.95
16161	12.49	22.77	27.45	31.70	30.92	30.26
16171	15.12	26.16	33.18	39.93	43.06	42.84
16191	18.62	35.27	45.39	47.96	49.19	50.37
16211	28.72	57.99	75.89	91.88	100.98	101.15
16271	14.84	24.30	30.05	35.01	37.66	37.67
16291	11.18	16.29	18.10	19.34	19.46	19.24
16311	10.37	14.09	16.75	19.01	20.07	20.92
16351	15.27	29.39	36.88	43.30	48.96	49.03
16411	42.33	78.61	100.70	114.99	117.85	123.44
16421	13.86	24.89	32.22	32.23	32.23	32.25
16431	41.89	52.44	52.47	52.48	51.54	52.39
16441	28.97	47.39	50.09	50.03	49.22	48.30
16451	28.59	49.60	50.45	51.12	50.35	49.73
16471	20.05	37.88	36.28	34.15	32.79	31.81
16491	17.60	29.41	36.20	58.44	81.50	90.82
16511	65.21	125.07	160.47	181.06	184.76	190.36
16531	32.05	62.52	80.21	90.22	92.47	95.26
16532	33.32	62.52	80.21	90.22	92.47	95.26
16541	75.77	135.93	184.24	251.67	309.79	334.47
16551	71.85	134.81	171.67	195.15	206.84	213.73
16561	11.22	12.85	12.85	12.88	12.94	13.00
16571	8.08	13.37	16.55	21.85	28.46	34.43
16572	11.76	19.75	24.68	31.90	40.65	48.50
16581	71.83	136.02	173.68	195.52	207.70	216.91
16591	142.05	273.75	366.71	461.78	523.67	551.60

Table D-2. Future Conditions Peak Discharges (Scenario 3)

Notes: Peak discharges usually occur at times other than the time of maximum computed water surface elevation. Peak discharges can occur in the upstream direction.

Conduit Number	Maximum Computed Dischagre					
	2-Yr (cfs)	5-Yr (cfs)	10-Yr (cfs)	25-Yr (cfs)	50-Yr (cfs)	100-Yr (cfs)
16651	173.42	335.03	445.37	557.17	645.35	706.19
16711	29.91	53.25	65.55	84.64	101.39	117.35
16731	42.19	77.17	96.96	121.48	142.41	151.19
16751	21.38	37.09	46.13	56.10	68.65	68.52
16791	36.96	63.95	78.79	99.15	120.80	139.66
16811	35.33	61.21	77.41	96.91	116.32	139.68
16831	34.92	66.17	85.04	107.26	134.93	162.62
16851	14.24	24.64	31.30	39.37	48.84	58.11
16871	46.81	86.15	112.75	143.52	179.67	216.14
16891	45.95	86.71	112.95	141.25	167.28	187.54
16892	21.84	31.48	44.13	64.44	88.97	111.88
16921	69.83	112.53	133.02	144.92	152.86	154.25
16931	67.52	109.61	134.13	145.94	153.59	154.81
16941	143.54	234.52	277.59	296.64	310.32	316.03
16951	137.66	225.00	265.06	273.04	282.32	288.80
16961	136.29	220.32	258.76	268.75	277.34	282.96
16971	122.20	200.36	233.75	240.74	247.10	252.03
16991	105.48	174.17	214.12	226.38	231.61	235.37
17001	13.04	21.89	27.32	29.91	29.85	29.63
17011	15.56	28.55	37.09	43.79	49.15	54.63
17021	19.45	37.63	50.77	57.15	59.78	61.81
17031	119.95	198.94	245.70	274.43	297.26	318.52
17041	24.08	48.69	64.45	70.17	76.28	77.64
17051	117.34	194.48	240.25	270.54	291.50	309.54
17071	131.05	215.41	267.51	322.24	372.05	419.80
17131	9.73	19.72	26.01	28.29	30.47	31.00
17132	14.81	29.74	39.24	42.67	45.96	46.76
17151	25.13	50.40	66.19	72.16	76.61	77.90
17161	68.63	107.99	130.66	157.42	189.05	218.06
17171	30.03	47.83	58.37	70.79	85.27	98.57
17172	30.03	47.83	58.37	70.79	85.27	98.57
17191	54.65	89.84	111.30	135.76	161.37	181.02
17211	210.55	407.89	541.46	665.21	767.49	835.80
17231	289.55	528.46	689.12	846.86	999.92	1125.11
17241	41.98	42.74	43.36	44.25	45.30	46.33
17251	34.50	26.65	25.81	25.10	23.19	23.46
17261	20.54	27.42	27.49	27.58	27.73	27.88
17271	288.34	520.81	675.54	826.21	981.82	1109.17
17291	287.40	518.09	670.05	821.66	979.28	1102.20
17301	36.12	40.88	41.21	45.93	49.52	50.60
17311	30.73	37.46	42.86	46.78	50.17	51.74
17331	88.26	147.63	183.31	224.54	271.94	315.97
17351	43.88	73.46	91.36	112.04	135.78	157.95

Table D-2. Future Conditions Peak Discharges (Scenario 3)

Notes: Peak discharges usually occur at times other than the time of maximum computed water surface elevation. Peak discharges can occur in the upstream direction.

Conduit Number	Maximum Computed Dischagre					
	2-Yr (cfs)	5-Yr (cfs)	10-Yr (cfs)	25-Yr (cfs)	50-Yr (cfs)	100-Yr (cfs)
17352	43.88	73.46	91.36	112.04	135.78	157.95
17371	83.68	137.50	169.97	206.79	248.28	286.50
17391	51.59	61.67	65.20	69.28	73.28	76.41
17411	51.04	60.41	63.04	66.24	69.11	71.46
17431	301.14	539.36	693.09	844.77	1000.32	1110.21
17471	41.47	62.77	69.64	103.01	126.84	154.87
17491	39.32	44.90	226.58	332.94	352.77	354.78
17511	38.98	43.27	68.79	169.49	206.90	248.65
17521	8.93	16.49	21.67	24.50	24.60	24.85
17531	297.20	533.93	686.29	837.88	994.21	1105.25
17541	10.84	19.07	22.15	22.12	22.15	22.28
17551	19.15	34.13	42.76	50.60	60.47	70.17
17561	26.62	48.23	61.54	72.91	80.33	87.96
17571	20.80	20.56	20.41	19.97	20.15	20.03
17591	15.73	15.84	15.91	15.98	16.13	16.72
17611	270.68	485.37	633.36	775.93	917.04	1003.96
17621	13.14	23.91	30.50	36.67	40.48	44.41
17622	13.14	23.91	30.50	36.67	40.48	44.41
17631	30.53	56.13	74.65	91.49	105.56	118.59
17651	14.55	26.70	34.28	42.23	47.08	52.14
17652	14.55	26.70	34.28	42.23	47.08	52.14
17661	28.87	51.20	66.85	84.24	93.79	102.62
17671	37.07	60.88	75.27	92.02	111.54	130.10
17691	37.56	68.78	89.60	115.19	146.58	170.00
17711	43.89	82.45	108.51	140.55	167.95	200.57
17731	7.76	25.12	39.46	57.96	68.84	83.58
17732	41.21	66.49	81.54	98.07	124.81	151.54
17751	79.25	151.94	201.80	260.71	316.82	375.00
17771	86.67	165.97	220.91	286.20	349.56	415.39
17791	43.36	82.94	110.44	143.29	175.12	207.80
17792	43.05	82.52	109.96	142.75	174.53	207.15
17811	114.51	196.77	255.72	326.73	399.70	464.59
17851	12.23	18.53	20.38	22.63	23.12	23.13
17871	10.51	17.11	20.75	22.80	23.17	23.27
17891	116.33	201.34	262.32	335.87	415.82	483.06
17911	16.45	27.05	33.31	41.14	50.55	59.46
17931	126.20	222.39	291.90	376.32	470.03	549.78
17951	117.53	202.48	264.13	338.51	420.60	493.50
17991	278.48	531.34	724.48	969.68	1224.51	1389.93
18011	274.08	522.66	712.44	953.07	1205.41	1370.59
18031	270.04	515.61	703.41	941.11	1190.96	1354.90
18051	241.02	461.29	634.32	867.30	1102.29	1260.88
18071	217.85	423.94	585.56	808.08	1044.08	1203.93

Table D-2. Future Conditions Peak Discharges (Scenario 3)

Notes: Peak discharges usually occur at times other than the time of maximum computed water surface elevation. Peak discharges can occur in the upstream direction.

Conduit Number	Maximum Computed Dischagre					
	2-Yr (cfs)	5-Yr (cfs)	10-Yr (cfs)	25-Yr (cfs)	50-Yr (cfs)	100-Yr (cfs)
18091	211.62	414.03	572.78	792.13	1028.25	1192.59
18111	202.27	402.80	562.03	784.97	1030.37	1217.73
18151	170.16	361.30	536.68	738.54	996.93	1194.05
18171	321.70	606.68	860.74	1189.61	1557.06	1814.40
18181	26.50	43.14	52.67	63.56	75.83	86.11
18201	22.11	33.86	36.11	74.34	101.48	118.16
18211	17.79	29.95	34.33	37.90	51.66	64.06
18221	12.80	22.55	28.66	35.38	41.75	46.96
18251	32.75	51.02	58.39	72.59	95.00	113.88
18271	32.68	51.23	58.31	72.59	94.95	113.78
18281	23.14	23.42	23.41	23.42	24.05	24.75
18291	10.32	19.41	19.62	22.96	24.84	25.86
18311	39.53	61.10	70.81	76.49	78.44	81.51
18331	50.12	81.02	95.01	113.41	126.30	135.61
18371	49.40	79.39	93.16	110.66	124.28	133.93
18391	49.35	79.07	92.71	109.92	123.78	133.53
18411	49.30	79.01	92.61	109.70	123.62	133.39
18431	49.34	78.59	91.81	108.34	121.72	131.43
18451	6.90	9.79	13.02	21.94	33.78	38.36
18452	6.90	9.79	13.02	21.94	33.78	38.36
18461	18.62	19.61	21.07	31.17	43.26	55.64
18471	299.88	566.45	804.45	1131.57	1532.78	1798.93
18481	291.21	548.43	779.90	1103.10	1503.91	1776.34
18491	278.92	520.47	739.64	1051.47	1438.25	1721.86
18511	255.24	455.34	627.36	884.73	1258.35	1504.77
18531	28.09	47.81	58.95	65.04	66.04	65.29
18551	21.71	37.71	47.98	53.17	53.10	53.04
18591	13.05	21.99	28.21	36.13	45.79	53.20
18631	24.26	41.44	52.13	64.83	75.21	83.78
18651	41.49	73.44	94.25	118.77	142.96	153.91
18661	41.00	72.47	92.97	117.68	141.21	150.09
18671	13.16	26.00	33.98	41.83	48.42	55.47
18672	15.59	29.21	38.36	52.01	56.81	53.95
18711	13.07	21.82	25.49	28.83	30.15	30.99
18731	11.90	21.24	24.88	28.23	29.72	31.31
18751	27.11	48.95	62.34	78.60	97.59	101.01
18771	32.38	64.70	85.69	111.49	141.65	157.46
18791	32.44	65.36	87.90	116.03	150.11	175.89
18811	39.42	70.60	90.54	116.15	138.91	146.48
18831	38.10	69.06	88.92	114.96	137.10	144.03
18841	35.86	66.49	86.48	113.39	134.43	139.69
18851	57.81	114.49	157.99	214.04	265.77	283.47
18911	65.44	127.93	178.98	245.31	311.77	342.61

Table D-2. Future Conditions Peak Discharges (Scenario 3)

Notes: Peak discharges usually occur at times other than the time of maximum computed water surface elevation. Peak discharges can occur in the upstream direction.

Conduit Number	Maximum Computed Dischagre					
	2-Yr (cfs)	5-Yr (cfs)	10-Yr (cfs)	25-Yr (cfs)	50-Yr (cfs)	100-Yr (cfs)
18931	60.32	126.99	180.53	248.33	315.83	347.15
18971	74.89	126.76	181.41	251.37	321.93	354.38
19031	15.88	25.50	31.54	38.55	46.82	54.66
19051	39.10	44.96	45.03	45.11	45.17	45.21
19071	15.24	25.04	32.24	40.02	42.87	43.55
19111	11.77	20.55	26.39	33.79	43.05	51.87
19131	25.86	41.61	51.34	63.36	76.94	88.12
19151	20.95	44.18	54.38	68.49	77.28	87.27
19171	23.91	40.57	40.39	40.47	40.53	40.51
19191	22.78	32.77	33.01	33.32	33.87	34.51
19211	39.84	60.09	68.61	77.99	88.78	94.88
19231	8.28	22.10	32.11	38.92	44.60	49.68
19411	63.28	126.28	179.73	248.40	308.68	341.87
19431	61.32	125.56	178.56	246.59	306.71	339.48
19491	252.74	442.56	597.95	820.25	1146.24	1423.98
19511	252.61	441.85	595.97	814.90	1136.25	1416.56
19551	264.21	459.48	618.36	841.24	1165.82	1458.06
19611	266.24	461.51	618.73	836.24	1146.93	1418.14



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