

Appendix 1, Exhibit 3, Plate 7

HEC-RAS River: Primrose Creek Reach: Quarry-Deleware

Reach	River Sta	Profile	Plan	Q Total (cfs)	Min Ch El (ft)	W.S. Elev (ft)	Crit W.S. (ft)	E.G. Elev (ft)	E.G. Slope (ft/ft)	Vel Chnl (ft/s)	Flow Area (sq ft)	Top Width (ft)	Froude # Chl
Quarry-Deleware	6264.55	10 yr	Pre-Existing	533.00	92.61	95.59	97.10	100.55	0.060065	18.84	41.34	26.81	2.11
Quarry-Deleware	6264.55	10 yr	Current	5.00	92.61	93.06	93.14	93.33	0.060047	4.20	1.19	4.54	1.45
Quarry-Deleware	6264.55	10 yr	Proposed	159.00	92.61	94.36	95.03	96.52	0.060048	11.97	15.50	16.61	1.88
Quarry-Deleware	6264.55	50 yr	Pre-Existing	1068.00	92.61	96.69	99.76	104.17	0.060065	24.07	77.53	38.59	2.24
Quarry-Deleware	6264.55	50 yr	Current	5.00	92.61	93.06	93.14	93.33	0.060047	4.20	1.19	4.54	1.45
Quarry-Deleware	6264.55	50 yr	Proposed	523.00	92.61	95.56	97.05	100.46	0.060066	18.71	40.65	26.53	2.10
Quarry-Deleware	6264.55	100 yr	Pre-Existing	1358.00	92.61	97.16	100.14	105.65	0.060078	26.11	96.63	43.38	2.29
Quarry-Deleware	6264.55	100 yr	Current	5.00	92.61	93.06	93.14	93.33	0.060047	4.20	1.19	4.54	1.45
Quarry-Deleware	6264.55	100 yr	Proposed	762.00	92.61	96.11	97.95	102.29	0.060078	21.41	56.97	32.62	2.18
Quarry-Deleware	6089.52	10 yr	Pre-Existing	533.00	90.40	94.90	94.90	96.11	0.009808	10.11	107.82	54.53	0.90
Quarry-Deleware	6089.52	10 yr	Current	5.00	90.40	92.28	90.90	92.28	0.000061	0.38	14.80	17.47	0.06
Quarry-Deleware	6089.52	10 yr	Proposed	159.00	90.40	93.47	92.97	93.89	0.005477	5.57	45.08	33.65	0.63
Quarry-Deleware	6089.52	50 yr	Pre-Existing	1068.00	90.40	95.97	96.82	98.11	0.013964	14.19	174.99	70.68	1.12
Quarry-Deleware	6089.52	50 yr	Current	5.00	90.40	92.91	90.90	92.91	0.000014	0.24	28.47	25.91	0.03
Quarry-Deleware	6089.52	50 yr	Proposed	523.00	90.40	94.86	94.86	96.06	0.009803	10.05	105.93	54.01	0.90
Quarry-Deleware	6089.52	100 yr	Pre-Existing	1358.00	90.40	96.22	97.08	98.83	0.016938	16.14	205.44	137.44	1.25
Quarry-Deleware	6089.52	100 yr	Current	5.00	90.40	93.13	90.90	93.13	0.000010	0.21	34.52	28.97	0.03
Quarry-Deleware	6089.52	100 yr	Proposed	762.00	90.40	95.46	95.64	97.04	0.011402	11.92	140.51	62.88	1.00
Quarry-Deleware	5901.71	10 yr	Pre-Existing	533.00	89.88	93.64	93.38	94.18	0.008503	8.20	181.06	111.71	0.81
Quarry-Deleware	5901.71	10 yr	Current	5.00	89.88	92.28	92.28	92.28	0.000011	0.20	55.74	71.77	0.03
Quarry-Deleware	5901.71	10 yr	Proposed	159.00	89.88	92.56	92.82	92.82	0.005427	4.96	77.37	80.18	0.61
Quarry-Deleware	5901.71	50 yr	Pre-Existing	1068.00	89.88	94.54	94.32	95.36	0.010671	10.85	290.48	131.66	0.95
Quarry-Deleware	5901.71	50 yr	Current	5.00	89.88	92.91	92.91	92.91	0.000003	0.12	107.13	90.55	0.01
Quarry-Deleware	5901.71	50 yr	Proposed	523.00	89.88	93.62	94.15	94.15	0.008473	8.15	178.49	111.05	0.81
Quarry-Deleware	5901.71	100 yr	Pre-Existing	1358.00	89.88	94.86	94.71	95.85	0.012181	12.19	333.65	138.57	1.03
Quarry-Deleware	5901.71	100 yr	Current	5.00	89.88	93.13	93.13	93.13	0.000002	0.10	127.83	97.06	0.01
Quarry-Deleware	5901.71	100 yr	Proposed	762.00	89.88	94.07	93.87	94.74	0.009484	9.44	231.81	121.50	0.88
Quarry-Deleware	5698.96	10 yr	Pre-Existing	533.00	88.72	93.20	93.34	93.34	0.001956	4.54	413.41	255.69	0.41
Quarry-Deleware	5698.96	10 yr	Current	5.00	88.72	92.28	92.28	92.28	0.000001	0.08	199.55	208.19	0.01
Quarry-Deleware	5698.96	10 yr	Proposed	159.00	88.72	92.42	92.46	92.46	0.000655	2.26	229.28	215.03	0.23
Quarry-Deleware	5698.96	50 yr	Pre-Existing	1068.00	88.72	94.05	94.24	94.24	0.002533	5.90	647.91	294.55	0.48
Quarry-Deleware	5698.96	50 yr	Current	5.00	88.72	92.91	92.91	92.91	0.000000	0.05	341.65	240.91	0.00
Quarry-Deleware	5698.96	50 yr	Proposed	523.00	88.72	93.17	93.31	93.31	0.001956	4.52	406.87	254.28	0.41
Quarry-Deleware	5698.96	100 yr	Pre-Existing	1358.00	88.72	94.39	94.60	94.60	0.002708	6.39	749.20	296.96	0.50
Quarry-Deleware	5698.96	100 yr	Current	5.00	88.72	93.13	93.13	93.13	0.000000	0.04	396.05	252.11	0.00
Quarry-Deleware	5698.96	100 yr	Proposed	762.00	88.72	93.49	93.68	93.68	0.002621	5.52	490.71	269.95	0.48
Quarry-Deleware	5456.04	10 yr	Pre-Existing	700.00	88.04	92.35	92.02	92.64	0.003948	5.99	351.71	287.33	0.57
Quarry-Deleware	5456.04	10 yr	Current	381.00	88.04	91.69	91.31	91.97	0.004018	5.25	189.90	160.78	0.55
Quarry-Deleware	5456.04	10 yr	Proposed	379.00	88.04	91.69	91.30	91.97	0.004019	5.25	188.94	160.43	0.55
Quarry-Deleware	5456.04	50 yr	Pre-Existing	1360.00	88.04	92.99	93.35	93.35	0.005000	7.53	543.15	315.79	0.65
Quarry-Deleware	5456.04	50 yr	Current	680.00	88.04	92.34	91.96	92.61	0.003826	5.88	347.72	286.80	0.56
Quarry-Deleware	5456.04	50 yr	Proposed	685.00	88.04	92.35	91.97	92.62	0.003839	5.90	349.41	287.02	0.56
Quarry-Deleware	5456.04	100 yr	Pre-Existing	1717.00	88.04	93.24	93.64	93.64	0.005456	8.19	624.09	325.86	0.69
Quarry-Deleware	5456.04	100 yr	Current	835.00	88.04	92.53	92.25	92.82	0.004081	6.29	401.61	294.11	0.58
Quarry-Deleware	5456.04	100 yr	Proposed	879.00	88.04	92.57	92.28	92.87	0.004151	6.40	416.00	296.59	0.59
Quarry-Deleware	5227.35	10 yr	Pre-Existing	700.00	87.62	91.44	91.69	91.69	0.004233	6.20	281.94	275.85	0.59
Quarry-Deleware	5227.35	10 yr	Current	381.00	87.62	90.87	91.08	91.08	0.003653	5.09	155.89	149.32	0.53
Quarry-Deleware	5227.35	10 yr	Proposed	379.00	87.62	90.87	91.07	91.07	0.003615	5.06	155.89	149.31	0.53
Quarry-Deleware	5227.35	50 yr	Pre-Existing	1360.00	87.62	92.26	92.43	92.43	0.002944	5.96	589.81	440.21	0.51
Quarry-Deleware	5227.35	50 yr	Current	680.00	87.62	91.38	91.66	91.66	0.004603	6.38	265.56	264.01	0.61
Quarry-Deleware	5227.35	50 yr	Proposed	685.00	87.62	91.39	91.66	91.66	0.004592	6.39	267.47	265.42	0.61
Quarry-Deleware	5227.35	100 yr	Pre-Existing	1717.00	87.62	92.61	92.76	92.76	0.002452	5.74	746.18	446.93	0.47
Quarry-Deleware	5227.35	100 yr	Current	835.00	87.62	91.62	91.87	91.87	0.004114	6.32	336.68	324.48	0.59
Quarry-Deleware	5227.35	100 yr	Proposed	879.00	87.62	91.69	91.92	91.92	0.004014	6.32	356.75	338.57	0.58
Quarry-Deleware	4983.42	10 yr	Pre-Existing	700.00	87.44	91.42	91.43	91.43	0.000318	1.75	835.91	451.02	0.16
Quarry-Deleware	4983.42	10 yr	Current	381.00	87.44	90.86	90.86	90.86	0.000247	1.37	595.65	405.73	0.14
Quarry-Deleware	4983.42	10 yr	Proposed	379.00	87.44	90.86	90.86	90.86	0.000244	1.37	595.69	405.74	0.14
Quarry-Deleware	4983.42	50 yr	Pre-Existing	1360.00	87.44	92.13	92.16	92.16	0.000456	2.37	1178.96	508.47	0.20
Quarry-Deleware	4983.42	50 yr	Current	680.00	87.44	91.36	91.38	91.38	0.000326	1.75	811.97	446.59	0.16
Quarry-Deleware	4983.42	50 yr	Proposed	685.00	87.44	91.37	91.38	91.38	0.000327	1.76	814.66	447.09	0.17
Quarry-Deleware	4983.42	100 yr	Pre-Existing	1717.00	87.44	92.47	92.50	92.50	0.000479	2.55	1352.51	520.72	0.21
Quarry-Deleware	4983.42	100 yr	Current	835.00	87.44	91.57	91.59	91.59	0.000358	1.91	907.97	463.73	0.17
Quarry-Deleware	4983.42	100 yr	Proposed	879.00	87.44	91.63	91.64	91.64	0.000368	1.95	932.32	467.78	0.18
Quarry-Deleware	4736.47	10 yr	Pre-Existing	700.00	86.90	91.35	91.36	91.36	0.000241	1.66	846.56	379.41	0.15
Quarry-Deleware	4736.47	10 yr	Current	381.00	86.90	90.81	90.81	90.81	0.000165	1.25	644.05	367.45	0.12
Quarry-Deleware	4736.47	10 yr	Proposed	379.00	86.90	90.81	90.81	90.81	0.000164	1.24	644.29	367.46	0.12
Quarry-Deleware	4736.47	50 yr	Pre-Existing	1360.00	86.90	92.02	92.05	92.05	0.000399	2.36	1108.05	395.53	0.19
Quarry-Deleware	4736.47	50 yr	Current	680.00	86.90	91.29	91.31	91.31	0.000245	1.66	825.83	378.23	0.15
Quarry-Deleware	4736.47	50 yr	Proposed	685.00	86.90	91.30	91.31	91.31	0.000247	1.66	827.94	378.35	0.15
Quarry-Deleware	4736.47	100 yr	Pre-Existing	1717.00	86.90	92.35	92.39	92.39	0.000446	2.61	1237.51	399.31	0.20
Quarry-Deleware	4736.47	100 yr	Current	835.00	86.90	91.50	91.51	91.51	0.000281	1.83	902.58	382.57	0.16
Quarry-Deleware	4736.47	100 yr	Proposed	879.00	86.90	91.55	91.56	91.56	0.000292	1.88	921.51	383.63	0.16
Quarry-Deleware	4509.12	10 yr	Pre-Existing	700.00	86.35	91.30	91.31	91.31	0.000200	1.62	817.49	302.58	0.13
Quarry-Deleware	4509.12	10 yr	Current	381.00	86.35	90.78	90.78	90.78	0.000112	1.11	662.64	291.05	0.10
Quarry-Deleware	4509.12	10 yr	Proposed	379.00	86.35	90.78	90.78	90.78	0.000110	1.11	662.94	291.07	0.10

Reach	River Sta	Profile	Plan	Q Total (cfs)	Min Ch El (ft)	W.S. Elev (ft)	Crit W.S. (ft)	E.G. Elev (ft)	E.G. Slope (ft/ft)	Vel Chnl (ft/s)	Flow Area (sq ft)	Top Width (ft)	Froude # Chl
Quarry-Deleware	4509.12	50 yr	Pre-Existing	1360.00	86.35	91.93		91.96	0.000401	2.50	1012.36	318.23	0.19
Quarry-Deleware	4509.12	50 yr	Current	680.00	86.35	91.24		91.26	0.000201	1.61	800.85	301.36	0.13
Quarry-Deleware	4509.12	50 yr	Proposed	685.00	86.35	91.25		91.26	0.000203	1.61	802.41	301.47	0.13
Quarry-Deleware	4509.12	100 yr	Pre-Existing	1717.00	86.35	92.24		92.28	0.000480	2.84	1111.50	325.16	0.21
Quarry-Deleware	4509.12	100 yr	Current	835.00	86.35	91.43		91.45	0.000245	1.83	858.94	305.61	0.15
Quarry-Deleware	4509.12	100 yr	Proposed	879.00	86.35	91.48		91.50	0.000259	1.89	873.10	306.64	0.15
Quarry-Deleware	4299.48	10 yr	Pre-Existing	700.00	86.14	91.25		91.27	0.000239	1.81	732.40	290.80	0.15
Quarry-Deleware	4299.48	10 yr	Current	381.00	86.14	90.75		90.76	0.000135	1.26	592.33	271.85	0.11
Quarry-Deleware	4299.48	10 yr	Proposed	379.00	86.14	90.75		90.76	0.000134	1.25	592.70	271.89	0.11
Quarry-Deleware	4299.48	50 yr	Pre-Existing	1360.00	86.14	91.83		91.87	0.000473	2.75	904.62	304.84	0.21
Quarry-Deleware	4299.48	50 yr	Current	680.00	86.14	91.19		91.21	0.000241	1.80	716.31	289.46	0.15
Quarry-Deleware	4299.48	50 yr	Proposed	685.00	86.14	91.20		91.22	0.000243	1.81	717.68	289.57	0.15
Quarry-Deleware	4299.48	100 yr	Pre-Existing	1717.00	86.14	92.11		92.17	0.000565	3.12	993.10	310.44	0.23
Quarry-Deleware	4299.48	100 yr	Current	835.00	86.14	91.37		91.40	0.000293	2.04	768.88	293.83	0.16
Quarry-Deleware	4299.48	100 yr	Proposed	879.00	86.14	91.42		91.44	0.000309	2.11	781.49	294.87	0.17
Quarry-Deleware	4135.8	10 yr	Pre-Existing	700.00	84.52	91.19	89.72	91.22	0.000300	2.00	621.89	314.34	0.17
Quarry-Deleware	4135.8	10 yr	Current	381.00	84.52	90.71	88.01	90.73	0.000198	1.51	474.73	298.64	0.13
Quarry-Deleware	4135.8	10 yr	Proposed	379.00	84.52	90.72	88.00	90.73	0.000195	1.50	475.27	298.71	0.13
Quarry-Deleware	4135.8	50 yr	Pre-Existing	1360.00	84.52	91.73	90.25	91.78	0.000543	2.90	794.27	333.03	0.23
Quarry-Deleware	4135.8	50 yr	Current	680.00	84.52	91.14	89.69	91.17	0.000309	2.01	604.07	312.43	0.17
Quarry-Deleware	4135.8	50 yr	Proposed	685.00	84.52	91.14	89.70	91.17	0.000312	2.02	605.40	312.57	0.17
Quarry-Deleware	4135.8	100 yr	Pre-Existing	1717.00	84.52	92.00	90.45	92.07	0.000622	3.21	885.99	342.87	0.24
Quarry-Deleware	4135.8	100 yr	Current	835.00	84.52	91.31	89.85	91.34	0.000361	2.23	657.79	318.37	0.18
Quarry-Deleware	4135.8	100 yr	Proposed	879.00	84.52	91.35	89.89	91.38	0.000378	2.29	670.45	319.78	0.19
Quarry-Deleware	4101.25			Culvert									
Quarry-Deleware	4066.65	10 yr	Pre-Existing	700.00	84.82	91.05	88.06	91.06	0.000046	0.92	1113.75	325.32	0.07
Quarry-Deleware	4066.65	10 yr	Current	381.00	84.82	90.56	88.00	90.56	0.000022	0.60	956.74	318.08	0.05
Quarry-Deleware	4066.65	10 yr	Proposed	379.00	84.82	90.56	88.00	90.56	0.000022	0.60	956.71	318.08	0.05
Quarry-Deleware	4066.65	50 yr	Pre-Existing	1360.00	84.82	91.64	88.41	91.66	0.000104	1.47	1308.24	333.75	0.10
Quarry-Deleware	4066.65	50 yr	Current	680.00	84.82	91.05	88.05	91.05	0.000044	0.89	1112.46	325.26	0.06
Quarry-Deleware	4066.65	50 yr	Proposed	685.00	84.82	91.05	88.06	91.06	0.000044	0.90	1114.13	325.34	0.07
Quarry-Deleware	4066.65	100 yr	Pre-Existing	1717.00	84.82	91.88	88.56	91.91	0.000136	1.72	1389.55	337.13	0.12
Quarry-Deleware	4066.65	100 yr	Current	835.00	84.82	91.22	88.15	91.23	0.000056	1.03	1168.89	327.79	0.07
Quarry-Deleware	4066.65	100 yr	Proposed	879.00	84.82	91.22	88.18	91.23	0.000062	1.08	1168.22	327.76	0.08
Quarry-Deleware	3908.3	10 yr	Pre-Existing	700.00	83.97	91.03		91.05	0.000083	1.30	869.00	227.33	0.09
Quarry-Deleware	3908.3	10 yr	Current	381.00	83.97	90.56		90.56	0.000037	0.82	761.34	221.84	0.06
Quarry-Deleware	3908.3	10 yr	Proposed	379.00	83.97	90.56		90.56	0.000037	0.82	761.33	221.84	0.06
Quarry-Deleware	3908.3	50 yr	Pre-Existing	1360.00	83.97	91.60		91.63	0.000203	2.14	999.39	233.52	0.14
Quarry-Deleware	3908.3	50 yr	Current	680.00	83.97	91.03		91.04	0.000078	1.26	868.29	227.30	0.09
Quarry-Deleware	3908.3	50 yr	Proposed	685.00	83.97	91.04		91.05	0.000079	1.27	869.41	227.35	0.09
Quarry-Deleware	3908.3	100 yr	Pre-Existing	1717.00	83.97	91.83		91.87	0.000275	2.55	1052.69	235.97	0.17
Quarry-Deleware	3908.3	100 yr	Current	835.00	83.97	91.20		91.21	0.000103	1.47	906.61	229.14	0.10
Quarry-Deleware	3908.3	100 yr	Proposed	879.00	83.97	91.19		91.21	0.000115	1.55	905.64	229.09	0.11
Quarry-Deleware	3738.33	10 yr	Pre-Existing	700.00	83.74	91.01	89.21	91.03	0.000190	1.89	839.98	385.25	0.13
Quarry-Deleware	3738.33	10 yr	Current	381.00	83.74	90.54	88.79	90.55	0.000114	1.39	661.06	378.71	0.10
Quarry-Deleware	3738.33	10 yr	Proposed	379.00	83.74	90.54	88.79	90.55	0.000113	1.38	661.11	378.71	0.10
Quarry-Deleware	3738.33	50 yr	Pre-Existing	1360.00	83.74	91.55	89.72	91.59	0.000363	2.77	1050.96	392.81	0.19
Quarry-Deleware	3738.33	50 yr	Current	680.00	83.74	91.01	89.18	91.02	0.000179	1.84	839.33	385.22	0.13
Quarry-Deleware	3738.33	50 yr	Proposed	685.00	83.74	91.01	89.18	91.03	0.000181	1.85	841.17	385.29	0.13
Quarry-Deleware	3738.33	100 yr	Pre-Existing	1717.00	83.74	91.76	89.82	91.81	0.000455	3.17	1135.81	395.74	0.21
Quarry-Deleware	3738.33	100 yr	Current	835.00	83.74	91.17	89.31	91.19	0.000218	2.06	902.14	387.49	0.15
Quarry-Deleware	3738.33	100 yr	Proposed	879.00	83.74	91.16	89.31	91.18	0.000244	2.18	899.07	387.38	0.15
Quarry-Deleware	3713.575			Culvert									
Quarry-Deleware	3688.82	10 yr	Pre-Existing	700.00	82.84	88.39	88.00	88.43	0.000503	2.66	561.25	266.69	0.21
Quarry-Deleware	3688.82	10 yr	Current	381.00	82.84	87.11	87.11	89.11	0.011590	11.36	33.52	231.22	1.00
Quarry-Deleware	3688.82	10 yr	Proposed	379.00	82.84	87.08	87.08	89.09	0.011739	11.38	33.29	230.36	1.00
Quarry-Deleware	3688.82	50 yr	Pre-Existing	1360.00	82.84	89.82	88.01	89.86	0.000387	2.78	955.75	284.55	0.19
Quarry-Deleware	3688.82	50 yr	Current	680.00	82.84	88.90	88.00	88.92	0.000246	1.99	700.11	273.04	0.15
Quarry-Deleware	3688.82	50 yr	Proposed	685.00	82.84	88.91	88.00	88.93	0.000249	2.00	701.53	273.10	0.15
Quarry-Deleware	3688.82	100 yr	Pre-Existing	1717.00	82.84	90.39	88.01	90.44	0.000432	3.11	1154.87	375.20	0.21
Quarry-Deleware	3688.82	100 yr	Current	835.00	82.84	89.38	88.00	89.40	0.000222	2.00	831.05	278.90	0.15
Quarry-Deleware	3688.82	100 yr	Proposed	879.00	82.84	89.40	88.00	89.42	0.000240	2.09	837.97	279.20	0.15
Quarry-Deleware	3607.24	10 yr	Pre-Existing	700.00	83.66	88.37	86.33	88.39	0.000282	1.77	698.12	280.22	0.16
Quarry-Deleware	3607.24	10 yr	Current	381.00	83.66	87.73	86.06	87.74	0.000194	1.31	524.62	264.09	0.12
Quarry-Deleware	3607.24	10 yr	Proposed	379.00	83.66	87.73	86.06	87.74	0.000194	1.31	522.45	263.82	0.13
Quarry-Deleware	3607.24	50 yr	Pre-Existing	1360.00	83.66	89.80	86.75	89.83	0.000258	2.07	1119.45	309.36	0.16
Quarry-Deleware	3607.24	50 yr	Current	680.00	83.66	88.89	86.32	88.90	0.000149	1.39	847.17	290.01	0.12
Quarry-Deleware	3607.24	50 yr	Proposed	685.00	83.66	88.90	86.32	88.91	0.000151	1.40	848.64	290.10	0.12
Quarry-Deleware	3607.24	100 yr	Pre-Existing	1717.00	83.66	90.38	86.94	90.41	0.000267	2.25	1302.51	325.31	0.16
Quarry-Deleware	3607.24	100 yr	Current	835.00	83.66	89.37	86.43	89.38	0.000143	1.46	986.99	299.25	0.11
Quarry-Deleware	3607.24	100 yr	Proposed	879.00	83.66	89.39	86.46	89.40	0.000155	1.52	994.19	299.80	0.12
Quarry-Deleware	3405.18	10 yr	Pre-Existing	700.00	83.64	88.25		88.30	0.000763	2.82	479.55	230.09	0.25
Quarry-Deleware	3405.18	10 yr	Current	381.00	83.64	87.66		87.68	0.000552	2.15	350.24	203.15	0.21

Reach	River Sta	Profile	Plan	Q Total (cfs)	Min Ch El (ft)	W.S. Elev (ft)	Crit W.S. (ft)	E.G. Elev (ft)	E.G. Slope (ft/ft)	Vel Chnl (ft/s)	Flow Area (sq ft)	Top Width (ft)	Froude # Chl
Quarry-Deleware	3405.18	10 yr	Proposed	379.00	83.64	87.65		87.67	0.000554	2.15	348.54	202.82	0.21
Quarry-Deleware	3405.18	50 yr	Pre-Existing	1360.00	83.64	89.71		89.75	0.000534	2.90	843.62	268.59	0.22
Quarry-Deleware	3405.18	50 yr	Current	680.00	83.64	88.84		88.86	0.000333	2.04	618.18	246.52	0.17
Quarry-Deleware	3405.18	50 yr	Proposed	685.00	83.64	88.84		88.86	0.000336	2.05	619.30	246.65	0.17
Quarry-Deleware	3405.18	100 yr	Pre-Existing	1717.00	83.64	90.28		90.33	0.000517	3.05	1000.57	277.75	0.22
Quarry-Deleware	3405.18	100 yr	Current	835.00	83.64	89.31		89.34	0.000295	2.05	739.65	262.22	0.16
Quarry-Deleware	3405.18	100 yr	Proposed	879.00	83.64	89.33		89.36	0.000321	2.14	744.79	262.54	0.17
Quarry-Deleware	3336.91	10 yr	Pre-Existing	700.00	83.25	88.14		88.22	0.001358	3.89	374.28	217.60	0.33
Quarry-Deleware	3336.91	10 yr	Current	381.00	83.25	87.60		87.64	0.000650	2.46	286.85	142.44	0.22
Quarry-Deleware	3336.91	10 yr	Proposed	379.00	83.25	87.59		87.63	0.000651	2.46	285.65	142.31	0.22
Quarry-Deleware	3336.91	50 yr	Pre-Existing	1360.00	83.25	89.64		89.71	0.000806	3.66	735.49	261.18	0.27
Quarry-Deleware	3336.91	50 yr	Current	680.00	83.25	88.79		88.83	0.000512	2.63	524.25	238.53	0.21
Quarry-Deleware	3336.91	50 yr	Proposed	685.00	83.25	88.80		88.83	0.000517	2.64	525.23	238.64	0.21
Quarry-Deleware	3336.91	100 yr	Pre-Existing	1717.00	83.25	90.21		90.29	0.000757	3.78	890.52	272.79	0.26
Quarry-Deleware	3336.91	100 yr	Current	835.00	83.25	89.28		89.31	0.000440	2.59	643.18	252.16	0.20
Quarry-Deleware	3336.91	100 yr	Proposed	879.00	83.25	89.29		89.33	0.000479	2.71	647.26	252.61	0.21
Quarry-Deleware	3262.29	10 yr	Pre-Existing	700.00	83.42	88.12		88.15	0.000521	2.34	606.58	266.82	0.20
Quarry-Deleware	3262.29	10 yr	Current	381.00	83.42	87.58		87.60	0.000330	1.69	466.52	254.61	0.16
Quarry-Deleware	3262.29	10 yr	Proposed	379.00	83.42	87.58		87.59	0.000331	1.69	464.35	254.39	0.16
Quarry-Deleware	3262.29	50 yr	Pre-Existing	1360.00	83.42	89.62		89.65	0.000420	2.58	1021.61	285.17	0.19
Quarry-Deleware	3262.29	50 yr	Current	680.00	83.42	88.78		88.80	0.000228	1.71	786.68	276.06	0.14
Quarry-Deleware	3262.29	50 yr	Proposed	685.00	83.42	88.79		88.80	0.000231	1.72	787.79	276.12	0.14
Quarry-Deleware	3262.29	100 yr	Pre-Existing	1717.00	83.42	90.20		90.24	0.000426	2.78	1188.19	291.38	0.20
Quarry-Deleware	3262.29	100 yr	Current	835.00	83.42	89.27		89.28	0.000215	1.77	921.96	281.52	0.14
Quarry-Deleware	3262.29	100 yr	Proposed	879.00	83.42	89.28		89.30	0.000235	1.85	926.30	281.68	0.14
Quarry-Deleware	2985.61	10 yr	Pre-Existing	700.00	82.34	88.10		88.10	0.000064	0.95	1059.87	329.07	0.07
Quarry-Deleware	2985.61	10 yr	Current	381.00	82.34	87.57		87.57	0.000036	0.66	888.13	324.46	0.05
Quarry-Deleware	2985.61	10 yr	Proposed	379.00	82.34	87.56		87.56	0.000036	0.66	885.35	324.38	0.05
Quarry-Deleware	2985.61	50 yr	Pre-Existing	1360.00	82.34	89.60		89.61	0.000062	1.12	1564.16	341.84	0.08
Quarry-Deleware	2985.61	50 yr	Current	680.00	82.34	88.77		88.78	0.000031	0.72	1284.66	334.79	0.05
Quarry-Deleware	2985.61	50 yr	Proposed	685.00	82.34	88.78		88.78	0.000031	0.72	1285.96	334.83	0.05
Quarry-Deleware	2985.61	100 yr	Pre-Existing	1717.00	82.34	90.18		90.19	0.000066	1.21	1762.97	346.46	0.08
Quarry-Deleware	2985.61	100 yr	Current	835.00	82.34	89.26		89.26	0.000031	0.75	1448.17	338.92	0.05
Quarry-Deleware	2985.61	100 yr	Proposed	879.00	82.34	89.27		89.28	0.000033	0.79	1453.05	339.04	0.06
Quarry-Deleware	2774.82	10 yr	Pre-Existing	753.00	82.11	87.97	86.24	88.06	0.000992	4.10	568.76	185.89	0.31
Quarry-Deleware	2774.82	10 yr	Current	568.00	82.11	87.46	85.93	87.54	0.000937	3.73	474.68	181.99	0.29
Quarry-Deleware	2774.82	10 yr	Proposed	566.00	82.11	87.45	85.93	87.53	0.000939	3.73	473.09	181.93	0.29
Quarry-Deleware	2774.82	50 yr	Pre-Existing	1455.00	82.11	89.43	86.96	89.56	0.001215	5.30	856.95	208.56	0.35
Quarry-Deleware	2774.82	50 yr	Current	1040.00	82.11	88.63	86.57	88.74	0.001095	4.64	695.44	196.02	0.33
Quarry-Deleware	2774.82	50 yr	Proposed	1042.00	82.11	88.64	86.57	88.74	0.001096	4.65	696.16	196.08	0.33
Quarry-Deleware	2774.82	100 yr	Pre-Existing	1832.00	82.11	90.00	87.28	90.14	0.001266	5.70	1066.61	311.30	0.36
Quarry-Deleware	2774.82	100 yr	Current	1289.00	82.11	89.10	86.81	89.23	0.001195	5.09	788.72	203.35	0.35
Quarry-Deleware	2774.82	100 yr	Proposed	1296.00	82.11	89.11	86.82	89.24	0.001196	5.10	791.50	203.57	0.35
Quarry-Deleware	2570.63	10 yr	Pre-Existing	753.00	82.07	87.66		87.82	0.001240	4.38	283.35	93.33	0.34
Quarry-Deleware	2570.63	10 yr	Current	568.00	82.07	87.19		87.32	0.001119	3.90	240.16	89.49	0.32
Quarry-Deleware	2570.63	10 yr	Proposed	566.00	82.07	87.18		87.31	0.001122	3.90	239.34	89.42	0.32
Quarry-Deleware	2570.63	50 yr	Pre-Existing	1455.00	82.07	89.00		89.27	0.001598	5.79	416.11	106.08	0.40
Quarry-Deleware	2570.63	50 yr	Current	1040.00	82.07	88.27		88.48	0.001404	5.02	341.66	98.78	0.37
Quarry-Deleware	2570.63	50 yr	Proposed	1042.00	82.07	88.27		88.48	0.001406	5.02	341.96	98.81	0.37
Quarry-Deleware	2570.63	100 yr	Pre-Existing	1832.00	82.07	89.48		89.81	0.001840	6.52	468.32	110.91	0.43
Quarry-Deleware	2570.63	100 yr	Current	1289.00	82.07	88.68		88.93	0.001570	5.55	383.27	102.92	0.39
Quarry-Deleware	2570.63	100 yr	Proposed	1296.00	82.07	88.69		88.95	0.001573	5.57	384.57	103.05	0.39
Quarry-Deleware	2363.44	10 yr	Pre-Existing	753.00	82.39	86.37	86.37	87.22	0.008421	8.83	139.12	82.49	0.83
Quarry-Deleware	2363.44	10 yr	Current	568.00	82.39	85.90	85.90	86.74	0.009348	8.45	102.84	68.90	0.86
Quarry-Deleware	2363.44	10 yr	Proposed	566.00	82.39	85.90	85.89	86.73	0.009199	8.40	103.27	69.08	0.85
Quarry-Deleware	2363.44	50 yr	Pre-Existing	1455.00	82.39	88.09	87.39	88.71	0.004481	8.41	309.90	114.79	0.65
Quarry-Deleware	2363.44	50 yr	Current	1040.00	82.39	86.83	86.83	87.81	0.008763	9.79	179.62	91.49	0.87
Quarry-Deleware	2363.44	50 yr	Proposed	1042.00	82.39	86.84	86.84	87.81	0.008734	9.79	180.15	91.60	0.86
Quarry-Deleware	2363.44	100 yr	Pre-Existing	1832.00	82.39	88.37	87.83	89.16	0.005455	9.61	342.09	117.47	0.72
Quarry-Deleware	2363.44	100 yr	Current	1289.00	82.39	87.54	87.19	88.31	0.006052	9.08	249.49	105.21	0.74
Quarry-Deleware	2363.44	100 yr	Proposed	1296.00	82.39	87.57	87.19	88.33	0.005969	9.05	252.01	105.68	0.74
Quarry-Deleware	2134.4	10 yr	Pre-Existing	753.00	81.07	86.40	84.90	86.44	0.000285	2.02	485.12	260.85	0.16
Quarry-Deleware	2134.4	10 yr	Current	568.00	81.07	86.00	84.54	86.04	0.000297	1.95	383.00	258.19	0.16
Quarry-Deleware	2134.4	10 yr	Proposed	566.00	81.07	85.98	84.54	86.07	0.000803	3.19	249.95	129.71	0.27
Quarry-Deleware	2134.4	50 yr	Pre-Existing	1455.00	81.07	88.42	85.75	88.45	0.000125	1.69	1025.45	274.49	0.11
Quarry-Deleware	2134.4	50 yr	Current	1040.00	81.07	87.25	85.35	87.29	0.000188	1.83	710.57	266.61	0.13
Quarry-Deleware	2134.4	50 yr	Proposed	1042.00	81.07	87.26	85.35	87.29	0.000188	1.83	712.10	266.65	0.13
Quarry-Deleware	2134.4	100 yr	Pre-Existing	1832.00	81.07	88.79	86.00	88.83	0.000149	1.91	1128.91	277.02	0.12
Quarry-Deleware	2134.4	100 yr	Current	1289.00	81.07	87.96	85.60	87.99	0.000145	1.73	900.41	271.37	0.12
Quarry-Deleware	2134.4	100 yr	Proposed	1296.00	81.07	87.98	85.60	88.01	0.000144	1.73	905.72	271.51	0.12
Quarry-Deleware	2065.67	10 yr	Pre-Existing	753.00	81.48	86.31	85.47	86.39	0.000763	2.84	357.56	278.52	0.26
Quarry-Deleware	2065.67	10 yr	Current	568.00	81.48	85.48	84.61	85.88	0.003658	5.29	126.82	109.05	0.54
Quarry-Deleware	2065.67	10 yr	Proposed	566.00	81.48	85.48	84.61	85.88	0.003649	5.28	126.50	108.77	0.54
Quarry-Deleware	2065.67	50 yr	Pre-Existing	1455.00	81.48	88.40	86.11	88.44	0.000151	1.69	971.68	309.03	0.12
Quarry-Deleware	2065.67	50 yr	Current	1040.00	81.48	87.22	86.00	87.27	0.000305	2.07	616.80	291.77	0.17

Reach	River Sta	Profile	Plan	Q Total (cfs)	Min Ch El (ft)	W.S. Elev (ft)	Crit W.S. (ft)	E.G. Elev (ft)	E.G. Slope (ft/ft)	Vel Chnl (ft/s)	Flow Area (sq ft)	Top Width (ft)	Froude # Chl
Quarry-Deleware	2065.67	50 yr	Proposed	1042.00	81.48	87.23	86.00	87.27	0.000303	2.07	618.52	291.86	0.17
Quarry-Deleware	2065.67	100 yr	Pre-Existing	1832.00	81.48	88.77	86.27	88.82	0.000170	1.87	1088.17	314.57	0.13
Quarry-Deleware	2065.67	100 yr	Current	1289.00	81.48	87.94	86.03	87.98	0.000191	1.80	830.26	302.19	0.14
Quarry-Deleware	2065.67	100 yr	Proposed	1296.00	81.48	87.96	86.03	88.00	0.000189	1.80	836.25	302.48	0.14
Quarry-Deleware	2029.145		Culvert										
Quarry-Deleware	1992.62	10 yr	Pre-Existing	753.00	82.25	85.68	85.51	86.03	0.004372	5.53	192.13	162.28	0.59
Quarry-Deleware	1992.62	10 yr	Current	568.00	82.25	85.26	85.19	85.73	0.006382	5.99	127.06	146.28	0.69
Quarry-Deleware	1992.62	10 yr	Proposed	566.00	82.25	85.25	85.19	85.73	0.006415	5.99	126.32	146.06	0.69
Quarry-Deleware	1992.62	50 yr	Pre-Existing	1455.00	82.25	86.78	86.08	87.05	0.002511	5.23	385.71	185.46	0.47
Quarry-Deleware	1992.62	50 yr	Current	1040.00	82.25	86.19	85.96	86.48	0.003195	5.29	278.08	175.53	0.51
Quarry-Deleware	1992.62	50 yr	Proposed	1042.00	82.25	86.19	85.96	86.48	0.003190	5.28	278.63	175.61	0.51
Quarry-Deleware	1992.62	100 yr	Pre-Existing	1832.00	82.25	87.23	86.32	87.51	0.002244	5.32	470.11	190.76	0.45
Quarry-Deleware	1992.62	100 yr	Current	1289.00	82.25	86.56	85.96	86.83	0.002720	5.24	344.51	182.95	0.48
Quarry-Deleware	1992.62	100 yr	Proposed	1296.00	82.25	86.57	85.97	86.84	0.002709	5.24	346.33	183.06	0.48
Quarry-Deleware	1800.95	10 yr	Pre-Existing	753.00	80.66	85.29		85.44	0.001685	4.39	326.66	155.61	0.38
Quarry-Deleware	1800.95	10 yr	Current	568.00	80.66	84.87		85.01	0.001647	4.04	264.60	143.20	0.37
Quarry-Deleware	1800.95	10 yr	Proposed	566.00	80.66	84.87		85.00	0.001647	4.04	263.90	143.05	0.37
Quarry-Deleware	1800.95	50 yr	Pre-Existing	1455.00	80.66	86.45		86.63	0.001619	5.07	528.79	189.71	0.39
Quarry-Deleware	1800.95	50 yr	Current	1040.00	80.66	85.81		85.98	0.001724	4.80	412.00	171.08	0.39
Quarry-Deleware	1800.95	50 yr	Proposed	1042.00	80.66	85.81		85.98	0.001723	4.81	412.58	171.18	0.39
Quarry-Deleware	1800.95	100 yr	Pre-Existing	1832.00	80.66	86.91		87.11	0.001586	5.31	618.43	193.86	0.39
Quarry-Deleware	1800.95	100 yr	Current	1289.00	80.66	86.21		86.38	0.001659	4.98	483.75	187.50	0.39
Quarry-Deleware	1800.95	100 yr	Proposed	1296.00	80.66	86.22		86.39	0.001657	4.98	485.77	187.60	0.39
Quarry-Deleware	1620.89	10 yr	Pre-Existing	753.00	80.53	85.05		85.17	0.001246	3.74	333.21	137.50	0.33
Quarry-Deleware	1620.89	10 yr	Current	568.00	80.53	84.65		84.75	0.001181	3.39	278.64	133.09	0.31
Quarry-Deleware	1620.89	10 yr	Proposed	566.00	80.53	84.64		84.74	0.001181	3.39	277.99	133.04	0.31
Quarry-Deleware	1620.89	50 yr	Pre-Existing	1455.00	80.53	86.16		86.35	0.001487	4.81	502.04	203.69	0.37
Quarry-Deleware	1620.89	50 yr	Current	1040.00	80.53	85.55		85.70	0.001377	4.25	403.09	143.22	0.35
Quarry-Deleware	1620.89	50 yr	Proposed	1042.00	80.53	85.55		85.70	0.001377	4.25	403.56	143.26	0.35
Quarry-Deleware	1620.89	100 yr	Pre-Existing	1832.00	80.53	86.63		86.83	0.001467	5.06	599.69	208.01	0.38
Quarry-Deleware	1620.89	100 yr	Current	1289.00	80.53	85.93		86.10	0.001460	4.62	458.52	147.61	0.37
Quarry-Deleware	1620.89	100 yr	Proposed	1296.00	80.53	85.94		86.11	0.001462	4.63	460.02	147.73	0.37
Quarry-Deleware	1403.39	10 yr	Pre-Existing	753.00	80.29	83.78	83.78	84.52	0.009687	8.68	161.74	108.03	0.88
Quarry-Deleware	1403.39	10 yr	Current	568.00	80.29	83.44	83.44	84.13	0.009809	8.07	126.78	96.54	0.86
Quarry-Deleware	1403.39	10 yr	Proposed	566.00	80.29	83.44	83.44	84.12	0.009805	8.06	126.42	96.41	0.86
Quarry-Deleware	1403.39	50 yr	Pre-Existing	1455.00	80.29	84.64	84.64	85.60	0.010274	10.54	262.94	125.19	0.94
Quarry-Deleware	1403.39	50 yr	Current	1040.00	80.29	84.22	84.22	85.02	0.009412	9.35	211.49	118.55	0.88
Quarry-Deleware	1403.39	50 yr	Proposed	1042.00	80.29	84.22	84.22	85.02	0.009416	9.36	211.76	118.58	0.88
Quarry-Deleware	1403.39	100 yr	Pre-Existing	1832.00	80.29	84.96	84.96	86.07	0.011023	11.51	303.77	130.46	0.99
Quarry-Deleware	1403.39	100 yr	Current	1289.00	80.29	84.48	84.48	85.38	0.009921	10.08	243.48	122.72	0.92
Quarry-Deleware	1403.39	100 yr	Proposed	1296.00	80.29	84.49	84.49	85.39	0.009935	10.10	244.33	122.83	0.92
Quarry-Deleware	1386.22	10 yr	Pre-Existing	753.00	80.18	82.28	82.70	83.74	0.064254	12.87	81.54	87.18	1.91
Quarry-Deleware	1386.22	10 yr	Current	568.00	80.18	82.01	82.48	83.63	0.093703	13.51	58.56	85.24	2.23
Quarry-Deleware	1386.22	10 yr	Proposed	566.00	80.18	82.09	82.48	83.39	0.069182	12.13	65.13	85.80	1.94
Quarry-Deleware	1386.22	50 yr	Pre-Existing	1455.00	80.18	82.94	83.46	84.75	0.047014	14.23	140.75	92.15	1.74
Quarry-Deleware	1386.22	50 yr	Current	1040.00	80.18	82.42	83.03	84.51	0.081199	15.41	93.79	88.20	2.18
Quarry-Deleware	1386.22	50 yr	Proposed	1042.00	80.18	82.56	83.03	84.18	0.055497	13.53	106.71	89.27	1.83
Quarry-Deleware	1386.22	100 yr	Pre-Existing	1832.00	80.18	83.26	83.79	85.22	0.041311	14.70	171.04	94.63	1.68
Quarry-Deleware	1386.22	100 yr	Current	1289.00	80.18	82.63	83.30	84.86	0.072700	15.87	112.39	89.76	2.11
Quarry-Deleware	1386.22	100 yr	Proposed	1296.00	80.18	82.80	83.30	84.54	0.049636	13.96	128.05	91.09	1.77
Quarry-Deleware	1336.83	10 yr	Pre-Existing	753.00	70.14	75.39	74.26	75.89	0.003860	7.55	204.89	68.36	0.60
Quarry-Deleware	1336.83	10 yr	Current	568.00	70.14	72.54	73.78	77.34	0.084602	20.19	46.43	40.04	2.42
Quarry-Deleware	1336.83	10 yr	Proposed	566.00	70.14	72.39	73.77	78.56	0.116397	22.55	40.45	38.18	2.81
Quarry-Deleware	1336.83	50 yr	Pre-Existing	1455.00	70.14	77.76	75.62	78.28	0.002751	8.26	384.74	81.38	0.54
Quarry-Deleware	1336.83	50 yr	Current	1040.00	70.14	76.62	74.85	77.09	0.002865	7.54	295.18	76.54	0.53
Quarry-Deleware	1336.83	50 yr	Proposed	1042.00	70.14	76.62	74.86	77.09	0.002879	7.55	295.05	76.53	0.53
Quarry-Deleware	1336.83	100 yr	Pre-Existing	1832.00	70.14	78.37	76.25	79.02	0.003137	9.30	435.65	84.99	0.58
Quarry-Deleware	1336.83	100 yr	Current	1289.00	70.14	77.37	75.33	77.86	0.002720	7.92	353.28	79.76	0.53
Quarry-Deleware	1336.83	100 yr	Proposed	1296.00	70.14	77.38	75.34	77.88	0.002721	7.93	354.64	79.84	0.53
Quarry-Deleware	1227.91	10 yr	Pre-Existing	753.00	68.71	73.57	73.57	75.13	0.010263	11.54	125.03	44.57	0.95
Quarry-Deleware	1227.91	10 yr	Current	568.00	68.71	72.92	72.92	74.31	0.010730	10.64	97.21	40.77	0.95
Quarry-Deleware	1227.91	10 yr	Proposed	566.00	68.71	72.87	72.91	74.30	0.011174	10.77	95.30	40.49	0.97
Quarry-Deleware	1227.91	50 yr	Pre-Existing	1455.00	68.71	75.88	75.88	77.68	0.007709	13.15	279.58	96.98	0.89
Quarry-Deleware	1227.91	50 yr	Current	1040.00	68.71	73.98	73.98	76.31	0.014023	14.28	143.43	46.91	1.13
Quarry-Deleware	1227.91	50 yr	Proposed	1042.00	68.71	73.99	73.99	76.31	0.013869	14.23	144.30	47.02	1.13
Quarry-Deleware	1227.91	100 yr	Pre-Existing	1832.00	68.71	76.74	76.74	78.43	0.006746	13.32	368.05	104.79	0.85
Quarry-Deleware	1227.91	100 yr	Current	1289.00	68.71	75.36	75.36	77.23	0.008568	13.15	232.52	83.11	0.92
Quarry-Deleware	1227.91	100 yr	Proposed	1296.00	68.71	75.38	75.38	77.25	0.008511	13.14	234.69	83.80	0.92
Quarry-Deleware	1042.18	10 yr	Pre-Existing	753.00	66.96	71.67	71.22	72.42	0.006291	8.87	149.61	63.38	0.74
Quarry-Deleware	1042.18	10 yr	Current	568.00	66.96	70.91	70.75	71.75	0.008479	9.07	105.03	53.67	0.84
Quarry-Deleware	1042.18	10 yr	Proposed	566.00	66.96	70.90	70.75	71.74	0.008506	9.07	104.59	53.56	0.84
Quarry-Deleware	1042.18	50 yr	Pre-Existing	1455.00	66.96	73.50	72.53	74.29	0.004970	9.93	295.01	97.87	0.70
Quarry-Deleware	1042.18	50 yr	Current	1040.00	66.96	72.97	71.82	73.55	0.003895	8.29	246.22	86.81	0.61
Quarry-Deleware	1042.18	50 yr	Proposed	1042.00	66.96	72.99	71.82	73.56	0.003871	8.27	247.30	87.05	0.61

Reach	River Sta	Profile	Plan	Q Total (cfs)	Min Ch El (ft)	W.S. Elev (ft)	Crit W.S. (ft)	E.G. Elev (ft)	E.G. Slope (ft/ft)	Vel Chnl (ft/s)	Flow Area (sq ft)	Top Width (ft)	Froude # Chl
Quarry-Deleware	1042.18	100 yr	Pre-Existing	1832.00	66.96	75.15	73.16	75.57	0.002187	7.70	475.89	117.23	0.48
Quarry-Deleware	1042.18	100 yr	Current	1289.00	66.96	74.38	72.10	74.71	0.001874	6.65	387.88	110.75	0.44
Quarry-Deleware	1042.18	100 yr	Proposed	1296.00	66.96	74.81	72.13	75.07	0.001381	5.94	436.44	114.65	0.38
Quarry-Deleware	812.65	10 yr	Pre-Existing	753.00	64.50	71.19		71.57	0.001931	6.22	301.84	97.82	0.43
Quarry-Deleware	812.65	10 yr	Current	568.00	64.50	70.18		70.65	0.002586	6.42	206.03	92.86	0.49
Quarry-Deleware	812.65	10 yr	Proposed	566.00	64.50	70.17		70.64	0.002606	6.43	204.60	92.78	0.49
Quarry-Deleware	812.65	50 yr	Pre-Existing	1455.00	64.50	72.93		73.48	0.002276	7.94	479.83	106.34	0.49
Quarry-Deleware	812.65	50 yr	Current	1040.00	64.50	72.86		72.98	0.001359	6.00	451.43	104.94	0.38
Quarry-Deleware	812.65	50 yr	Proposed	1042.00	64.50	72.68		72.99	0.001353	5.99	452.88	105.01	0.38
Quarry-Deleware	812.65	100 yr	Pre-Existing	1832.00	64.50	74.76		75.17	0.001434	7.22	683.00	115.57	0.40
Quarry-Deleware	812.65	100 yr	Current	1289.00	64.50	74.14		74.39	0.000950	5.63	611.65	112.57	0.33
Quarry-Deleware	812.65	100 yr	Proposed	1296.00	64.50	74.61		74.82	0.000769	5.23	665.42	114.84	0.29
Quarry-Deleware	599.88	10 yr	Pre-Existing	753.00	62.81	70.98	67.66	71.26	0.000985	5.12	316.03	67.28	0.32
Quarry-Deleware	599.88	10 yr	Current	568.00	62.81	70.02	66.99	70.27	0.000972	4.66	253.00	64.76	0.31
Quarry-Deleware	599.88	10 yr	Proposed	566.00	62.81	70.01	66.99	70.25	0.000975	4.66	252.04	64.72	0.31
Quarry-Deleware	599.88	50 yr	Pre-Existing	1455.00	62.81	72.43	69.53	73.04	0.001812	7.78	416.48	70.92	0.45
Quarry-Deleware	599.88	50 yr	Current	1040.00	62.81	72.43	68.55	72.74	0.000926	5.56	416.51	70.92	0.32
Quarry-Deleware	599.88	50 yr	Proposed	1042.00	62.81	72.44	68.55	72.75	0.000924	5.56	417.51	70.95	0.32
Quarry-Deleware	599.88	100 yr	Pre-Existing	1832.00	62.81	74.30	70.36	74.85	0.001365	7.63	553.66	75.82	0.40
Quarry-Deleware	599.88	100 yr	Current	1289.00	62.81	73.90	69.14	74.20	0.000784	5.64	523.20	74.59	0.30
Quarry-Deleware	599.88	100 yr	Proposed	1296.00	62.81	74.40	69.16	74.67	0.000661	5.34	560.82	76.13	0.28
Quarry-Deleware	395.85	10 yr	Pre-Existing	753.00	61.33	71.06		71.12	0.000177	2.53	811.83	159.70	0.14
Quarry-Deleware	395.85	10 yr	Current	568.00	61.33	70.09		70.14	0.000170	2.31	659.09	154.39	0.14
Quarry-Deleware	395.85	10 yr	Proposed	566.00	61.33	70.07		70.12	0.000171	2.31	656.80	154.31	0.14
Quarry-Deleware	395.85	50 yr	Pre-Existing	1455.00	61.33	72.65		72.76	0.000321	3.77	1072.35	168.58	0.20
Quarry-Deleware	395.85	50 yr	Current	1040.00	61.33	72.54		72.60	0.000172	2.74	1053.80	168.05	0.15
Quarry-Deleware	395.85	50 yr	Proposed	1042.00	61.33	72.55		72.61	0.000172	2.74	1056.17	168.12	0.15
Quarry-Deleware	395.85	100 yr	Pre-Existing	1832.00	61.33	74.52		74.62	0.000251	3.70	1396.32	177.57	0.18
Quarry-Deleware	395.85	100 yr	Current	1289.00	61.33	74.01		74.07	0.000149	2.77	1306.82	175.18	0.14
Quarry-Deleware	395.85	100 yr	Proposed	1296.00	61.33	74.50		74.55	0.000126	2.62	1392.98	177.48	0.13
Quarry-Deleware	293.36	10 yr	Pre-Existing	753.00	59.39	71.09		71.10	0.000013	0.76	1116.95	185.88	0.04
Quarry-Deleware	293.36	10 yr	Current	568.00	59.39	70.11		70.12	0.000013	0.72	937.42	182.39	0.04
Quarry-Deleware	293.36	10 yr	Proposed	566.00	59.39	70.10		70.11	0.000013	0.72	934.72	182.33	0.04
Quarry-Deleware	293.36	50 yr	Pre-Existing	1455.00	59.39	72.70		72.73	0.000022	1.09	1421.18	192.22	0.05
Quarry-Deleware	293.36	50 yr	Current	1040.00	59.39	72.56		72.58	0.000012	0.80	1395.30	191.62	0.04
Quarry-Deleware	293.36	50 yr	Proposed	1042.00	59.39	72.58		72.59	0.000012	0.80	1398.00	191.68	0.04
Quarry-Deleware	293.36	100 yr	Pre-Existing	1832.00	59.39	74.56		74.59	0.000017	1.05	1787.47	201.72	0.05
Quarry-Deleware	293.36	100 yr	Current	1289.00	59.39	74.04		74.05	0.000010	0.79	1682.23	198.29	0.04
Quarry-Deleware	293.36	100 yr	Proposed	1296.00	59.39	74.52		74.54	0.000009	0.75	1779.20	201.45	0.03
Quarry-Deleware	201.09	10 yr	Pre-Existing	753.00	57.25	71.06	60.96	71.10	0.000053	1.74	770.74	222.19	0.08
Quarry-Deleware	201.09	10 yr	Current	568.00	57.25	70.08	60.41	70.12	0.000065	1.84	554.89	215.10	0.09
Quarry-Deleware	201.09	10 yr	Proposed	566.00	57.25	70.06	60.41	70.10	0.000066	1.85	551.63	215.01	0.09
Quarry-Deleware	201.09	50 yr	Pre-Existing	1455.00	57.25	72.67	62.67	72.72	0.000066	2.09	1143.19	247.98	0.09
Quarry-Deleware	201.09	50 yr	Current	1040.00	57.25	72.55	61.72	72.58	0.000036	1.55	1112.75	244.51	0.07
Quarry-Deleware	201.09	50 yr	Proposed	1042.00	57.25	72.56	61.72	72.59	0.000036	1.54	1116.22	244.89	0.07
Quarry-Deleware	201.09	100 yr	Pre-Existing	1832.00	57.25	74.55	63.48	74.59	0.000037	1.71	1661.10	307.30	0.07
Quarry-Deleware	201.09	100 yr	Current	1289.00	57.25	74.03	62.29	74.05	0.000024	1.34	1505.39	286.87	0.06
Quarry-Deleware	201.09	100 yr	Proposed	1296.00	57.25	74.52	62.31	74.54	0.000019	1.22	1649.89	305.86	0.05
Quarry-Deleware	165.41			Culvert									
Quarry-Deleware	0	10 yr	Pre-Existing	753.00	54.00	68.00	57.00	68.05	0.000059	1.84	410.92	210.98	0.09
Quarry-Deleware	0	10 yr	Current	568.00	54.00	68.00	56.52	68.03	0.000034	1.39	410.92	210.98	0.07
Quarry-Deleware	0	10 yr	Proposed	566.00	54.00	68.00	56.51	68.03	0.000033	1.39	410.92	210.98	0.07
Quarry-Deleware	0	50 yr	Pre-Existing	1455.00	54.00	72.50	58.51	72.52	0.000022	1.35	2429.13	225.57	0.06
Quarry-Deleware	0	50 yr	Current	1040.00	54.00	72.50	57.66	72.51	0.000011	0.96	2429.13	225.57	0.04
Quarry-Deleware	0	50 yr	Proposed	1042.00	54.00	72.50	57.66	72.51	0.000011	0.97	2429.13	225.57	0.04
Quarry-Deleware	0	100 yr	Pre-Existing	1832.00	54.00	74.50	59.20	74.52	0.000022	1.45	2885.97	231.37	0.06
Quarry-Deleware	0	100 yr	Current	1289.00	54.00	74.00	58.18	74.01	0.000012	1.06	2770.68	229.78	0.04
Quarry-Deleware	0	100 yr	Proposed	1296.00	54.00	74.50	58.20	74.51	0.000011	1.03	2885.97	231.37	0.04