



**Regulatory Floodplain Hydraulic Report
Barrie Creeks – Bunkers, Dyments,
Hotchkiss, Kidds, Whiskey and Sophia**

City of Barrie, Ontario

Figures and Appendix Document Only

D.M. Wills Project Number 23-5611



D.M. Wills Associates Limited

Partners in Engineering
Peterborough

March 2024

**Prepared for:
Lake Simcoe Region
Conservation Authority**



Figures



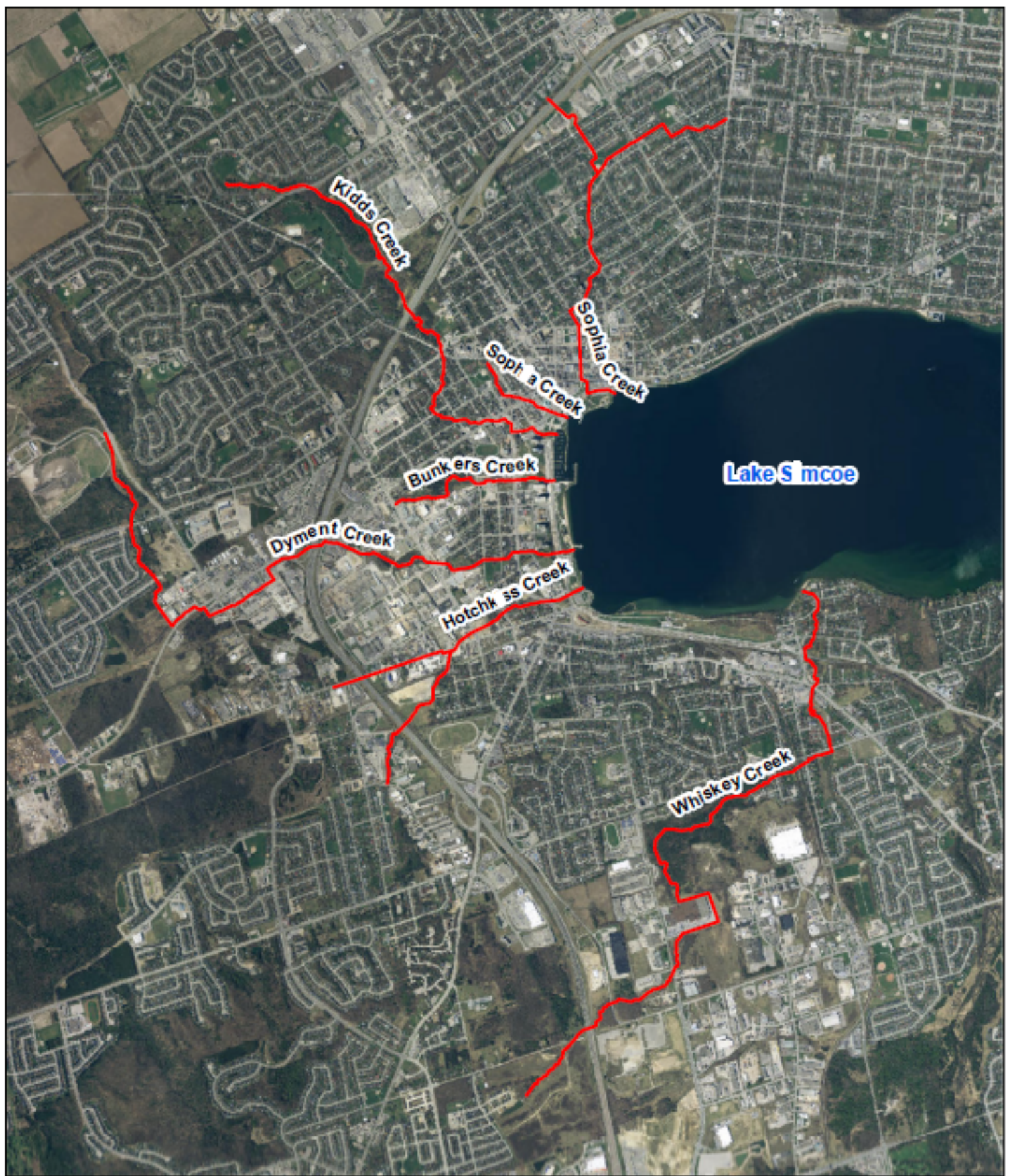


Figure 2
Floodplain Mapping
Modelling Extents

Legend

— Model Extent

Data Sources:
LIO Basemap, GEOHUB 2024

NAD 1983 UTM Zone 17N
1:25,000

Meters
0 500 1,000



Drawn By: SO

Checked By: KS

Map Date: 2/08/24

Project Number: 5611

Map File Number: 24-5611



D.M. Wills Associates Limited
150 Jameson Drive
Peterborough, Ontario
K9J 0B9

P. 705.742.2297

F. 705.748.9944

E. wills@dmwills.com


Copy Right D.M.Wills 2024



Lake Simcoe

Figure 3
Hydraulic Structure
Survey Locations

Legend

 Survey Location

Data Sources:
SCOOP2013, GEOHUB 2024

NAD 1983 UTM Zone 17N
1:35,000

Meters
0 500 1,000



Drawn By: SO

Checked By: KS

Map Date: 2/08/24

Project Number: 5611

Map File Number: 24-5611



D.M. Wills Associates Limited
150 Jameson Drive
Peterborough, Ontario
K9J 0B9

P: 705.742.2297

F: 705.748.9944

E: wills@dmwills.com

Copy Right D.M.Wills 2024

Appendix A

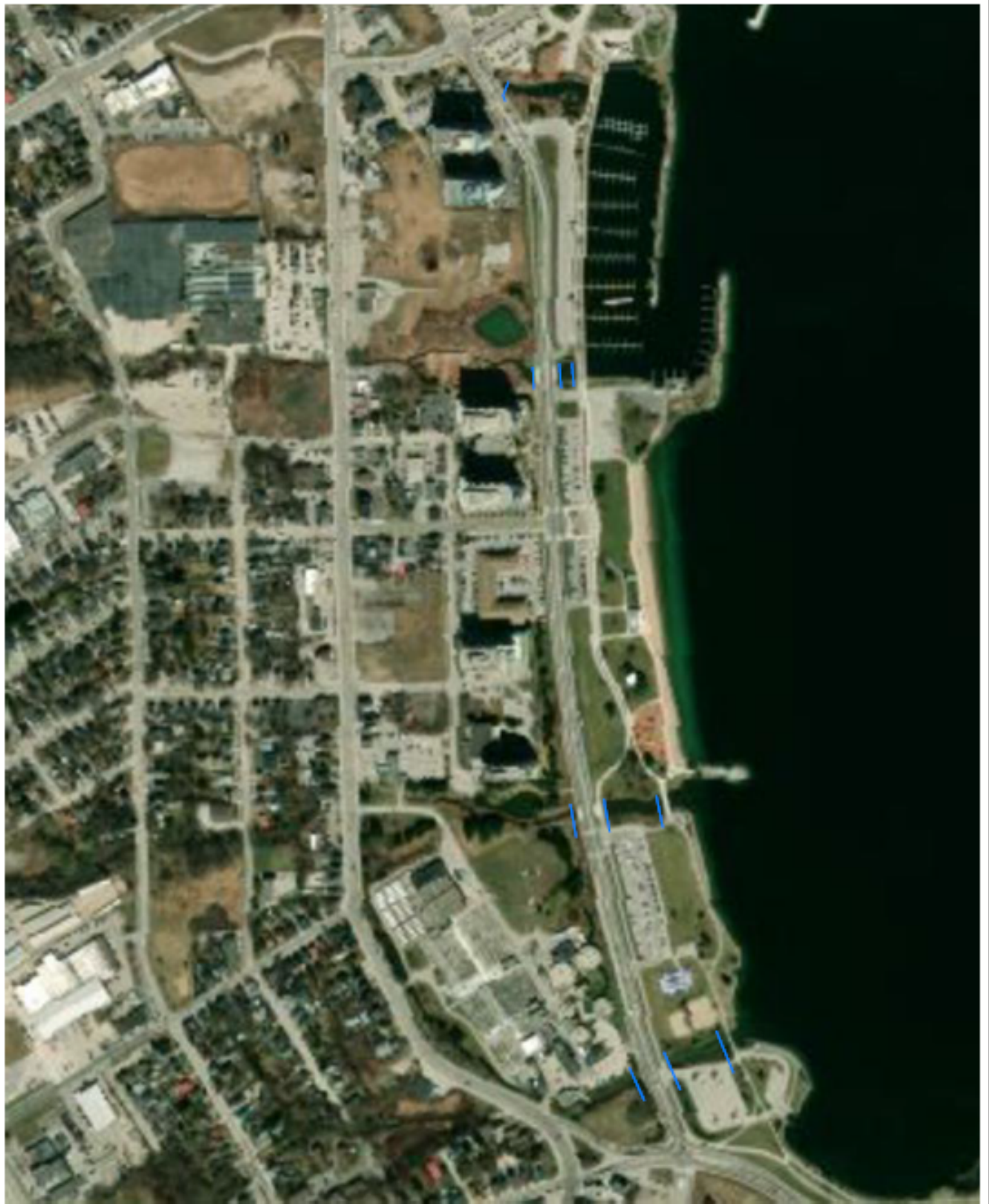
Hydraulic Structure and Bathymetric Survey Data




Summary of Existing Drawing Information				
Creek	Dwg_No.	Street_Crossing	Available_Info	U/S Invert_Elevation (CGVD 28:78)
Bunkers	2022-214-002	Innisfil Street Crossing	Existing 19m long 1520mm dia CSP twin culvert	219.82
Bunkers		Driveway Crossing north of Vespra Street		
Bunkers	1978-024-002	Bradford Crossing	Benchmark, proposed 2, 8'0" 5'9" SPPA 12ga 80' long culverts	218.79
Bunkers	2014-001-023	Lakeshore Drive crossing	Benchmark	218.2
Bunkers	2014-01-023	Lakeshore Road pedestrian crossing	BM, four 3.0x1.5m concrete box culvert	
Dyments	1999-014-014	Highway 400 Ramp at Cedar Point Drive	1800mmX1200mm Concrete box (open culvert), benchmark	
Dyments		Highway 400 near Hart Road crossing		
Dyments	1980-103-001	Hart Drive crossing	Existing 1600 dia Culvert	225.66
Dyments	1980-103-001	George Street crossing	18.5 1725x2690mm horizontal elliptical concrete pipe CL III	225
Dyments	1990-031-009	Victoria Street Crossing 1	21.5m, 700mm CSP, benchmark	223.22
Dyments	1972-051-001	Anne Street South Crossing at John Street	Prop. twin 280' 8'11"X5'8" pipe arch, benchmark	
Dyments		Innisfil Street crossing		220.98
Dyments	1997-069-001	Sandford Street crossing	Double plate culvert, benchmark	
Dyments	2003-002-010	Bradford Street Crossing	2000X5500mm CSPA Multi-Plate Culvert. (Dwg 2006-100-001, refurb of culvert)	231.15
Dyments	1998.080-001	Sarjeant Drive crossing	Some measurement data, two 1.5m dia culverts that go to Ex.TBM(1200mm dia.)	231.85
Dyments	2016-030-016	Ferndale Drive North crossing	Proposed 19.2m and 9.6m 2400X1200 mm concrete box culvert, benchmarks (Dwg 2016-030-018)	
Dyments	2001-081-058	Dunlop Street West crossing	Existing 2235mmX1625mm CSP A., benchmark	
Dyments	2001-081-059	Driveway crossing	Existing 1630mmX1120mm CSP Arch, benchmark	
Dyments	2001-081-059	Driveway crossing	Existing 2250mmX1140mm CSP Arch, benchmark	238.02
Dyments	2003-071-009	Sproule Drive crossing	Five, 1.8m wideX0.9m high by 18m long concrete culverts, benchmark	263.4
Dyments	2001-001-014	Driveway crossing at landfill	Proposed 3000mmX1500mm concrete box culvert, benchmark	
Dyments	1992-515-001	Edgehill Drive crossing	Drawings, benchmark	
Dyments		Culvert under parking area		
Dyments	1990-031-009	Victoria Street Crossing 2	Proposed 21m 420mm CSP, benchmark	
Dyments	2016-037-015	Lakeshore Road Crossing		223.67
Dyments	2016-037-022	Pedestrian bridge crossing near Lakeshore Rd	As-built drawing, proposed 5.0m pedestrian bridge, benchmarks	222.45
Dyments	1990-031-009	Victoria Street Crossing	18.7m, 600mm CSP, BM, invert Elevation,	221.68
Hotchkiss	2017-127-004	Morrow Road crossing	Benchmarks, existing twin 1200mmX1800mm CSP(?), Prop 4000X1800 precast box culvert	218.75
Hotchkiss		Highway 400 crossing		217.95
Hotchkiss		Wood Street crossing		
Hotchkiss	1994-015-008	Tiffin Street crossing	Prop. 49m 1500mm concrete storm sewer, benchmarks	262.94
Hotchkiss	2008-014-009	Anne Street South crossing	24m, 4270mmX2440mm concrete box	
Hotchkiss	2019-091-009	Innisfil Street crossing	Proposed 4267X2438 precast rigid portal frame culvert, 37.15m, benchmark	236.16
Hotchkiss	2007-009-005	Bradford Street crossing	145.4m, 9754mmX1829mm precast box culvert, BM	
Hotchkiss	2014-001-020	Lakeshore Drive crossing	Benchmarks	232.1
Hotchkiss		Pedestrian bridge crossing		
Hotchkiss		Railway crossing near Jacobs Terrace		223.3
Kidds	1982-026-017	Cundles Road West crossing	190', 84" corrugated steel culvert	
Kidds		Highway 400 crossing		
Kidds	1992-014-011	Wellington Street West crossing	Dwg incl elev of DS portion of culvert/receiving channel. Existing 1.2m x 2.2 concrete culvert.	
Kidds	1992-014-012	Thomson Street crossing	Benchmark	
Kidds	1999-010-007	Eccles Street North crossing	Proposed 20.8m, 3.0X1.5m concrete box culvert, benchmark and bearing note.	
Kidds	2010-001-008	Donald Street Crossing	Partial drawing, proposed concrete culvert	272.23
Kidds	1999-010-009	Eccles Street North at Henry Street crossing	Prop. 24.75m twin 2.4X1.2m concrete box culvert, benchmark, bearing note	242.57
Kidds	2002-051-007	Pedestrian bridge crossing	Drawing has old configuration of Lakeshore road (construction done after 2006)	
Sophia	1967-001-003	Howard Crescent crossing	50"x30" C.M.P. Culvert	
Sophia	1963-307-001	Grove Street East crossing	Proposed 72"x44" culvert.	
Sophia	1963-307-001	St. Vincent Street crossing	Existing 72"x44" culvert	233
Sophia	1965-097-001	Bothwell Crescent crossing	5' dia concrete culvert	
Sophia	1965-002-003	Grove Street East Crossing 2	42"x65" calvanized culvert	223.25
Sophia	1965-002-003	Parkdale Crescent crossing	two, 4' diameter culvert	
Sophia	1965-002-003	Davidson St and Gunn St Crossing?	6'X5' concrete culvert, replaced with 182 ft, 6'X5' precast conc box culvert (dwg 1978-017-001), BM	218.86
Sophia	1965-002-003	Davidson Creek Crossing	2, 5'6"x3'6" galvanized culvert	288.47
Sophia	1994-051-008	Laurie Cres.	3000x1500 box culvert, benchmark	
Whiskey	2018-002-038	Harvie Road crossing	Dwg is possibly for this crossing.	226.8
Whiskey	2018-002-039	Highway 400 crossing	2018 Hatch drawing. Not sure if as-built or not.	218.05
Whiskey	2007-039-004	Fairview Road crossing	Ex. 1800mmX1200mm box culvert, benchmark (2018-002-043 dwg 2.7x1.5m conc. box culvert)	
Whiskey		Railway crossing		
Whiskey	2011-308-002	Bayview Drive crossing	85', 54" C.M.P., 2011 dwg says 32.7m Twin 1.63X1.12m CSPA	256.85
Whiskey	1991-001-010	McConkey Place crossing	84' - 12'X6' pre-cast box culvert, benchmark	
Whiskey	1994-061-005	Railway crossing near Little Avenue	ex, 1400x1200 conc culvert (dwg 1991-001-010 indicates ex. 54"x48" HI-HED Culvert)	
Whiskey	1994-061-005	Huron Road crossing	Existing 1800mm SPCSP culvert, notes on culvert extension, benchmark	249.1
Whiskey	1991-013-005	Little Avenue crossing	Benchmark	247.59
Whiskey	1987-001-008	Yonge Street crossing	Prop. 39.9m 2400X1800mm Box Culvert (ex. 0.86X1.6m oval CSP and ex. conc culvert to be removed)	245.76
Whiskey		Railway crossing near Minets Point Road		244.57
Whiskey	1987-029-003	Hurst Drive crossing (formerly Tollendale Rd)	31.0m - 1800mm dia CSP, benchmarks	245.2
Whiskey	1985-503-016	The Boulevard crossing	Existing 2.0X1.2 C.S.P., benchmark	249.7
Whiskey	1985-503-018	Brennan Avenue crossing	Existing 3.65X1.5m concrete box culvert, benchmarks	217.74
Whiskey		Berm, near Harvie Road and Megan Crescent	Drawing from project 5486, 33m, 2100mm concrete	226.97

Structure Survey Inventory

Culvert Name	Culvert ID	Measured Size (mm)	U/S Invert (CGVD 2013)	Material
Bunkers Vespra Parking Lot	BC02	2500 x 1500 Twin	219.10	SPCSPA
Dyments Edgehill Drive	DC02	3000 x 1200 Twin	245.22	Concrete
Dyments Dunlop Driveway 2	DC04	2400 x 1000	234.00	SPCSPA
Dyments Dunlop Driveway	DC05	1600 x 900 Twin	233.84	SPCSPA
Dyments Highway 400 & Cedar Point	DC09	1850 x (1400 - 1250)	228.67	Concrete
Dyments Highway 400	DC10	1850 x 1250	227.85	Concrete
Dyments Hart Drive	DC11	1600	227.11	U/S CSP, D/S Smooth
Dyments Hart Road & St. Onge Recreation	DC12	1500 Triple	227.30	SPCSP-AC
Dyments Dunlop Street West	DC16	2400 x 1400	233.86	SPCSPA
Dyments Innisfil Street	DC18	2200 x 900	220.97	Concrete
Dyments Bradford Street	DC20	5400 x 1950	219.33	SPCSPA
Hotchkiss Morrow Road	HC01	4000 x 1600	-	Concrete
Hotchkiss Highway 400	HC02	2200 and 1050	229.36	HDPE
Hotchkiss Wood Street	HC03	1200	228.78	SPCSP-AC
Hotchkiss Railway Crossing Jacobs Terrace	HC04	U/S 1800x1400, D/S 1200	229.02	Concrete
Kidds Highway 400	KC02	3000 x 1300	242.59	Concrete
Kidds Thomson Street	KC04	U/S 3200 x 1000, D/S 1800 x 1200	234.63	Concrete
Kidds Donald Street	KC06	6600 x (1200 - 600)	226.36	Concrete
Kidds Rail Trail	KC09	1800 x 1200	238.92	SPCSPA-AC
Sophia Grove Street East	SC02	1800 x 1200	247.52	SPCSPA
Sophia St Vincent street	SC03	1800 x 1200 Twin	250.45	Concrete
Whiskey Harview Road	WC02	1800	283.89	Concrete
Whiskey Highway 400	WC03	3000 x 2250	283.63	Concrete
Whiskey Fairview Road	WC04	2700 x 1500	278.59	Concrete
Whiskey Railway Crossing	WC05	1500 Twin	276.74	CSP
Whiskey Railway Crossing by Little Ave	WC08	1200	240.22	Concrete
Whiskey Huronia Road	WC09	1800 Twin	238.50	SPCSP
Whiskey Little Avenue	WC10	6100 x 1100	236.60	Concrete
Whiskey Railway Crossing	WC12	U/S 1600, D/S 1750	226.72	Concrete/CSP
Whiskey The Boulevard	WC14	1800 x 950	219.39	SPCSPA



BATHYMETRIC SURVEY LOCATIONS	 MEASURED SECTION FROM STRUCTURE	Drawn By KS	Scale 1: 6000
		Designed By SO	Plot Date 03/25/24
		Checked By KS	Project No. 5611
		Engineer KS	Drawing File No. 5611 BATHY



Reach 1.1 - Hotchkiss Lakeshore - U/S

Project No.: 5611

Date: 11/07/23

Watercourse: Hotchkiss

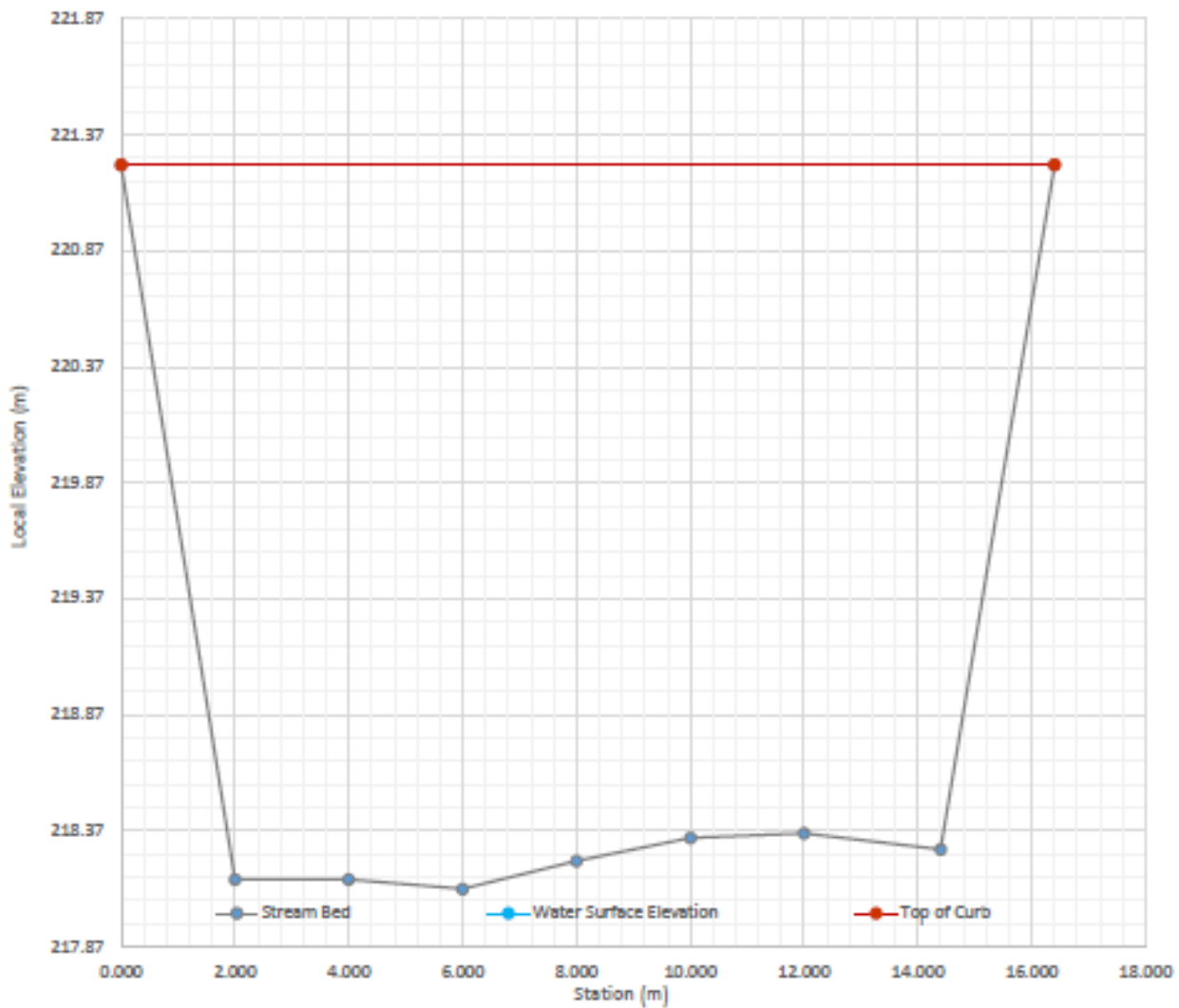
Weather: Dry

Project Limits: Barrie

Inspectors: SO / DG

Channel Geometry Parameters

Cross Section Data





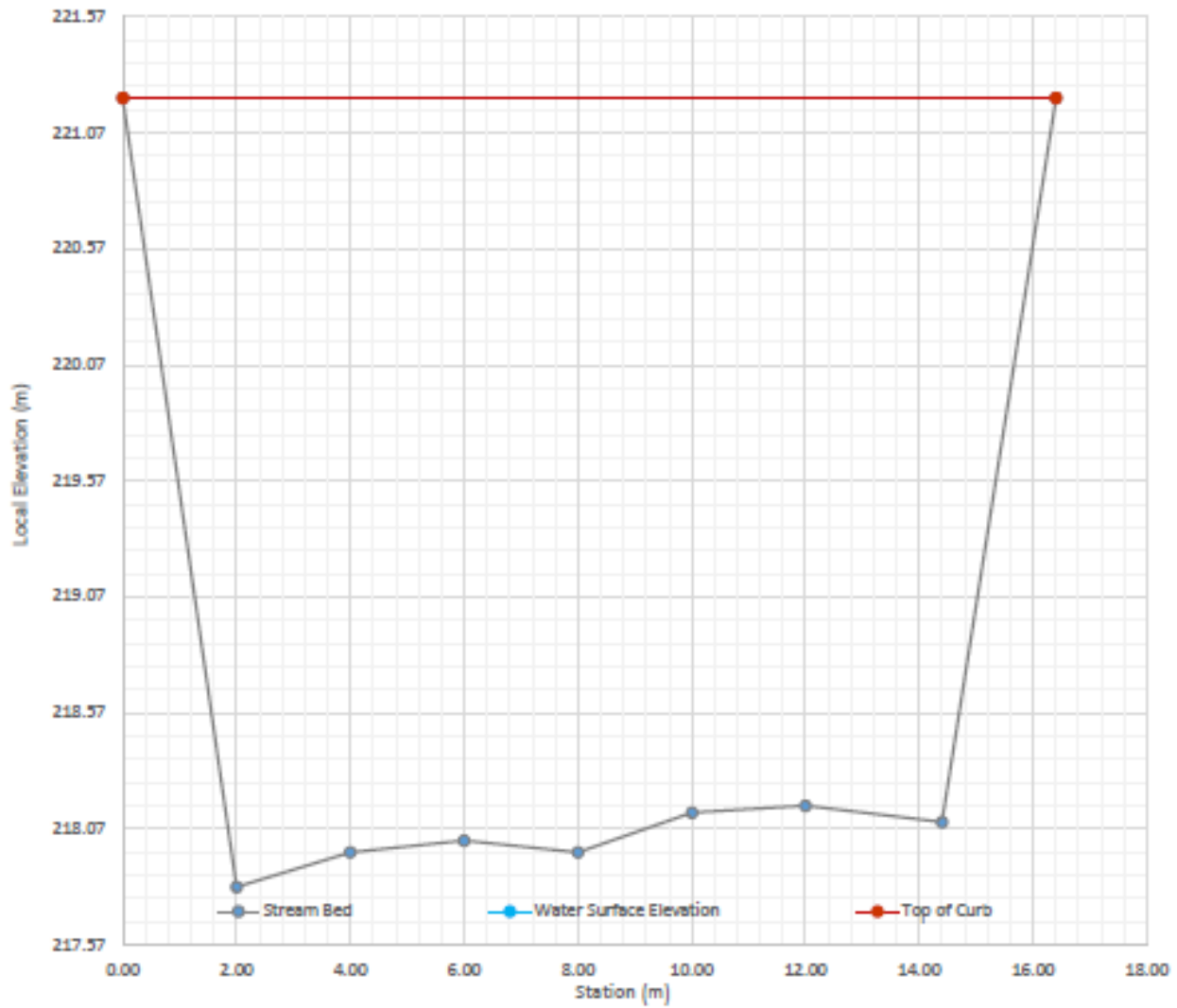
Reach 1.2 - Hotchkiss Lakeshore - D/S

Project No.: 5611
Watercourse: Hotchkiss
Project Limits: Barrie

Date: 11/07/23
Weather: Dry
Inspectors: SO / DG

Channel Geometry Parameters

Cross Section Data





Reach 1.3 - Hotchkiss Pedestrian - U/S

Project No.: 5611

Date: 11/07/23

Watercourse: Hotchkiss

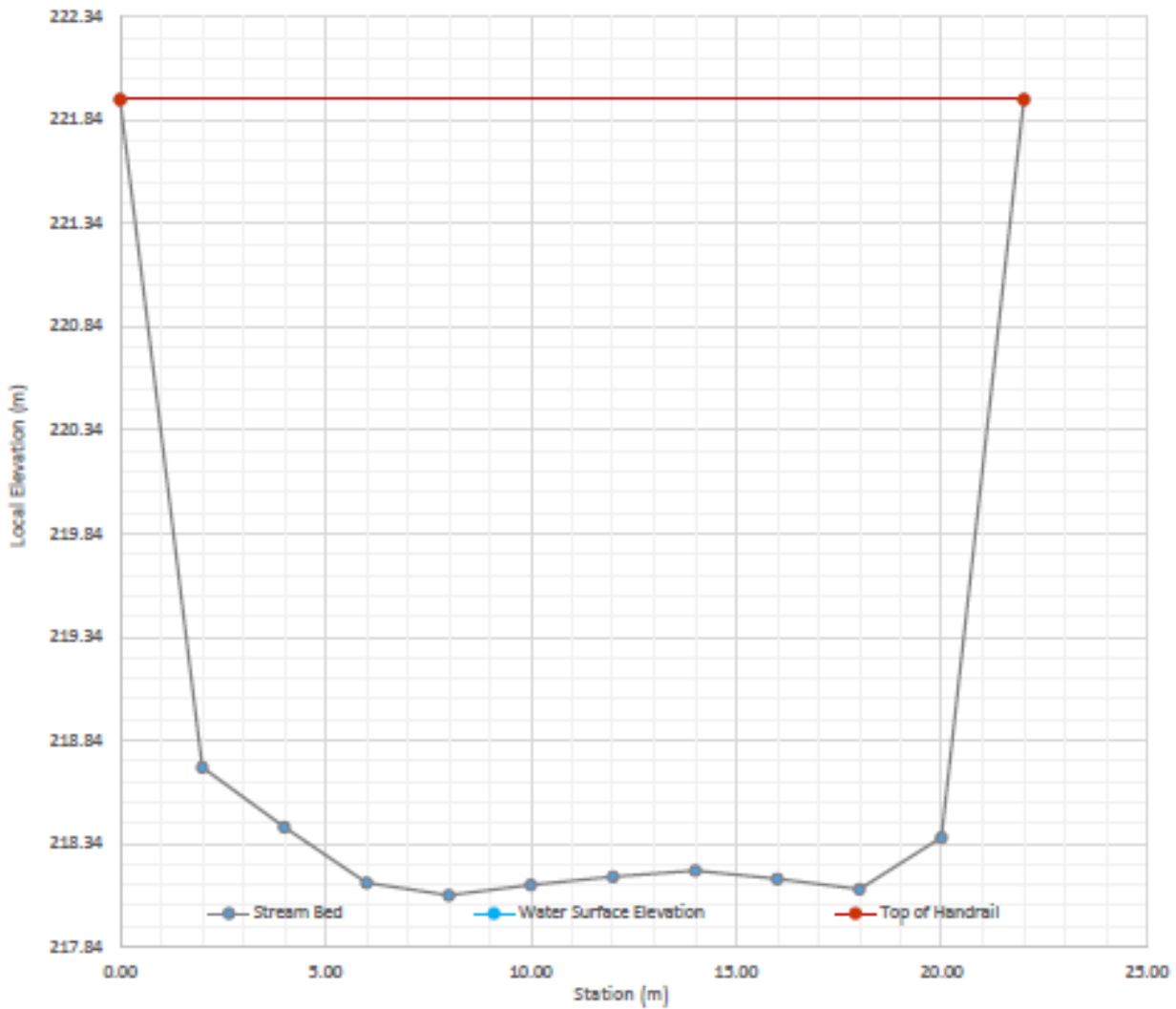
Weather: Dry

Project Limits: Barrie

Inspectors: SO / DG

Channel Geometry Parameters

Cross Section Data





Reach 2.1 - Dyments Lakeshore - U/S

Project No.: 5611

Date: 11/07/23

Watercourse: Hotchkiss

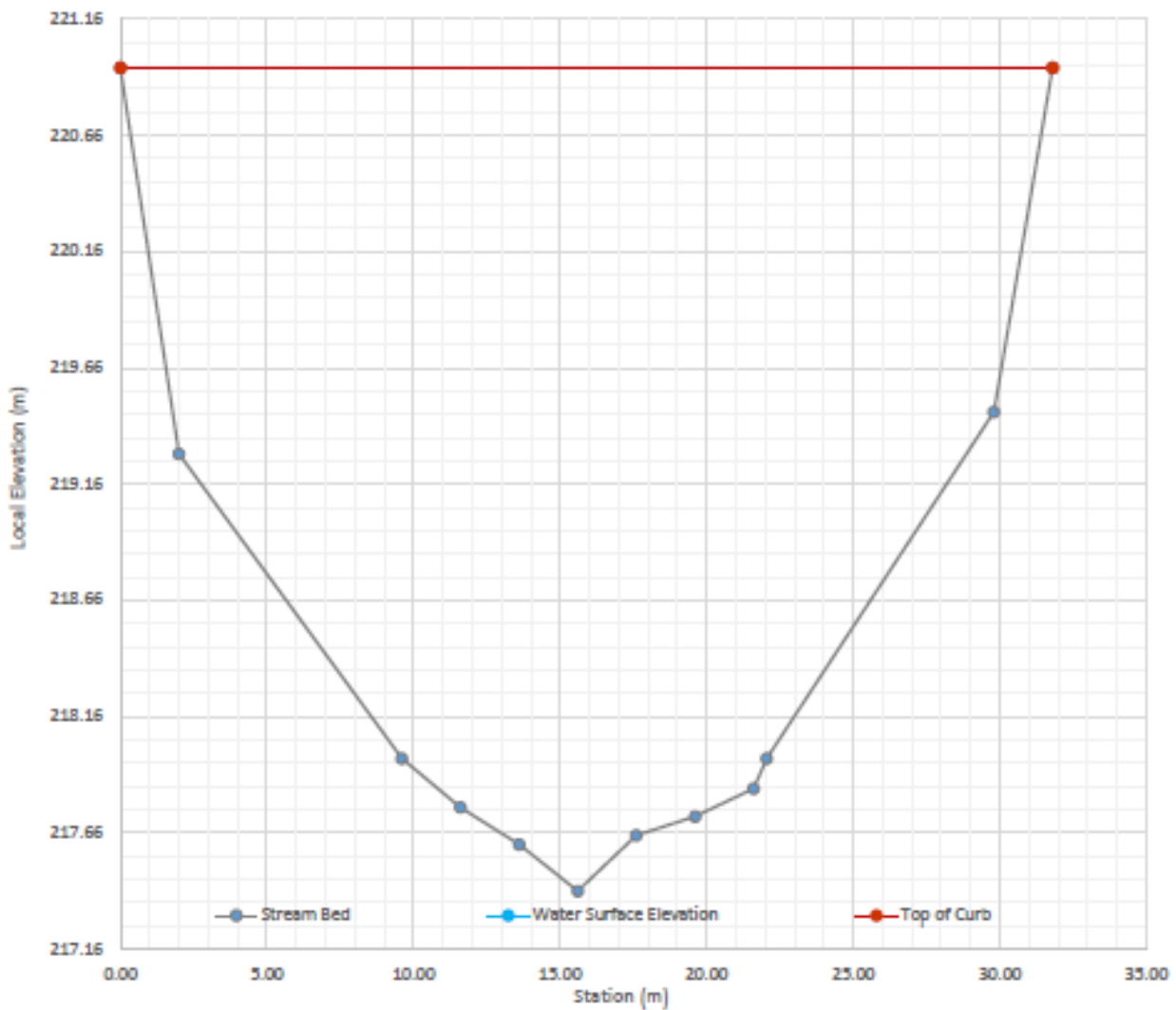
Weather: Dry

Project Limits: Barrie

Inspectors: SO / DG

Channel Geometry Parameters

Cross Section Data





Reach 2.2 - Dyments Lakeshore - D/S

Project No.: 5611

Date: 11/07/23

Watercourse: Hotchkiss

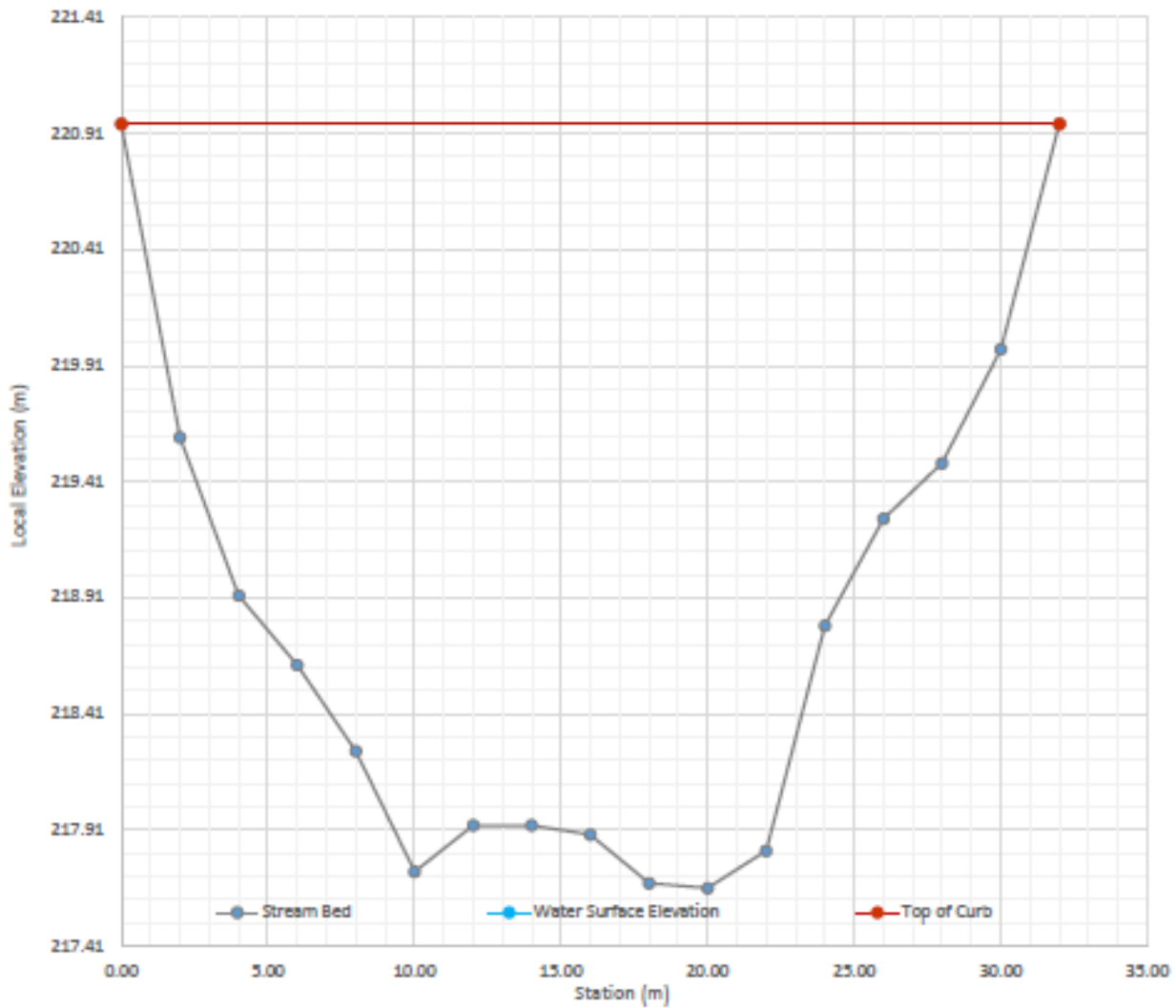
Weather: Dry

Project Limits: Barrie

Inspectors: SO / DG

Channel Geometry Parameters

Cross Section Data





Reach 2.3 - Dyments Pedestrian - U/S

Project No.: 5611

Date: 11/07/23

Watercourse: Hotchkiss

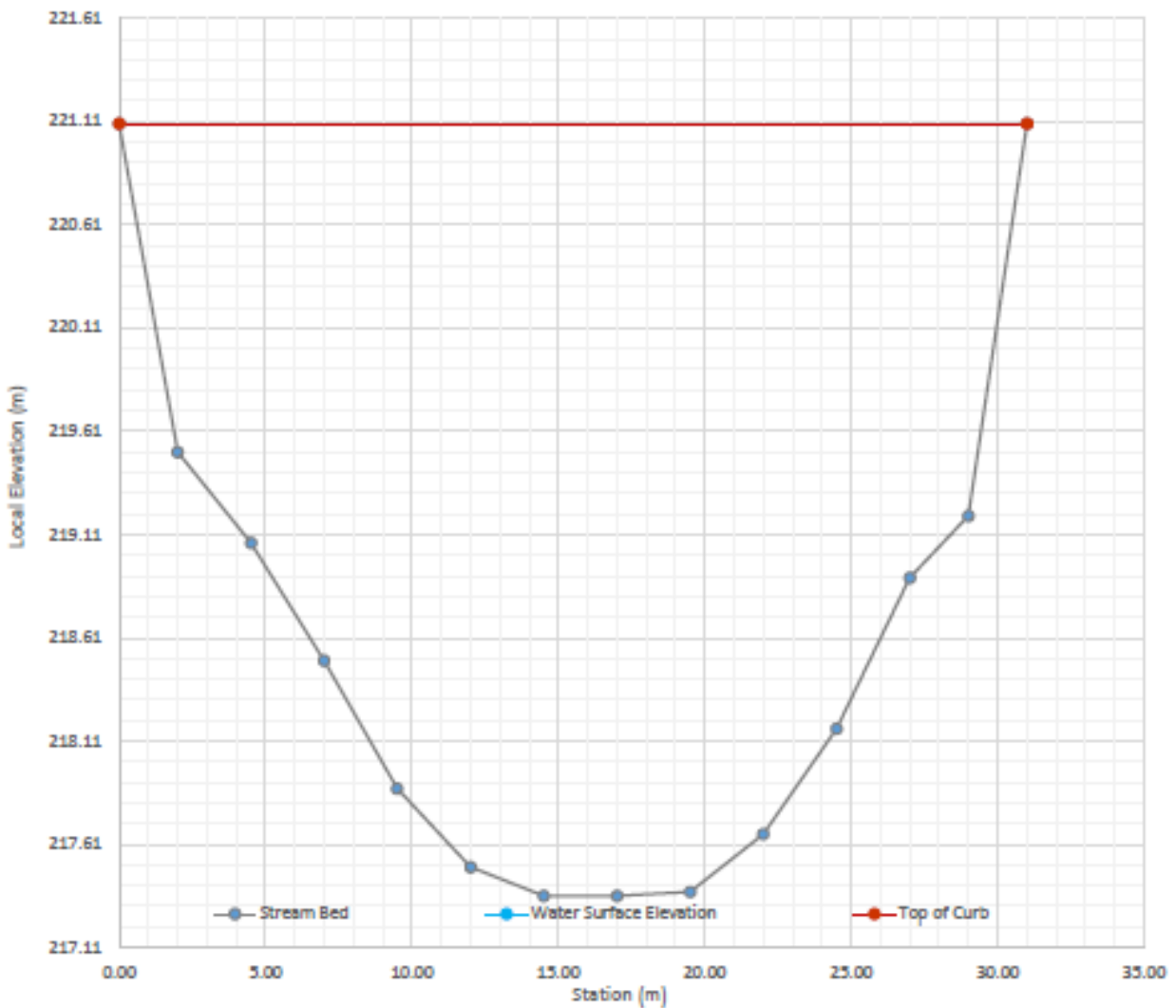
Weather: Dry

Project Limits: Barrie

Inspectors: SO / DG

Channel Geometry Parameters

Cross Section Data





Reach 3.1 - Bunkers Lakeshore - U/S

Project No.: 5611

Date: 11/07/23

Watercourse: Hotchkiss

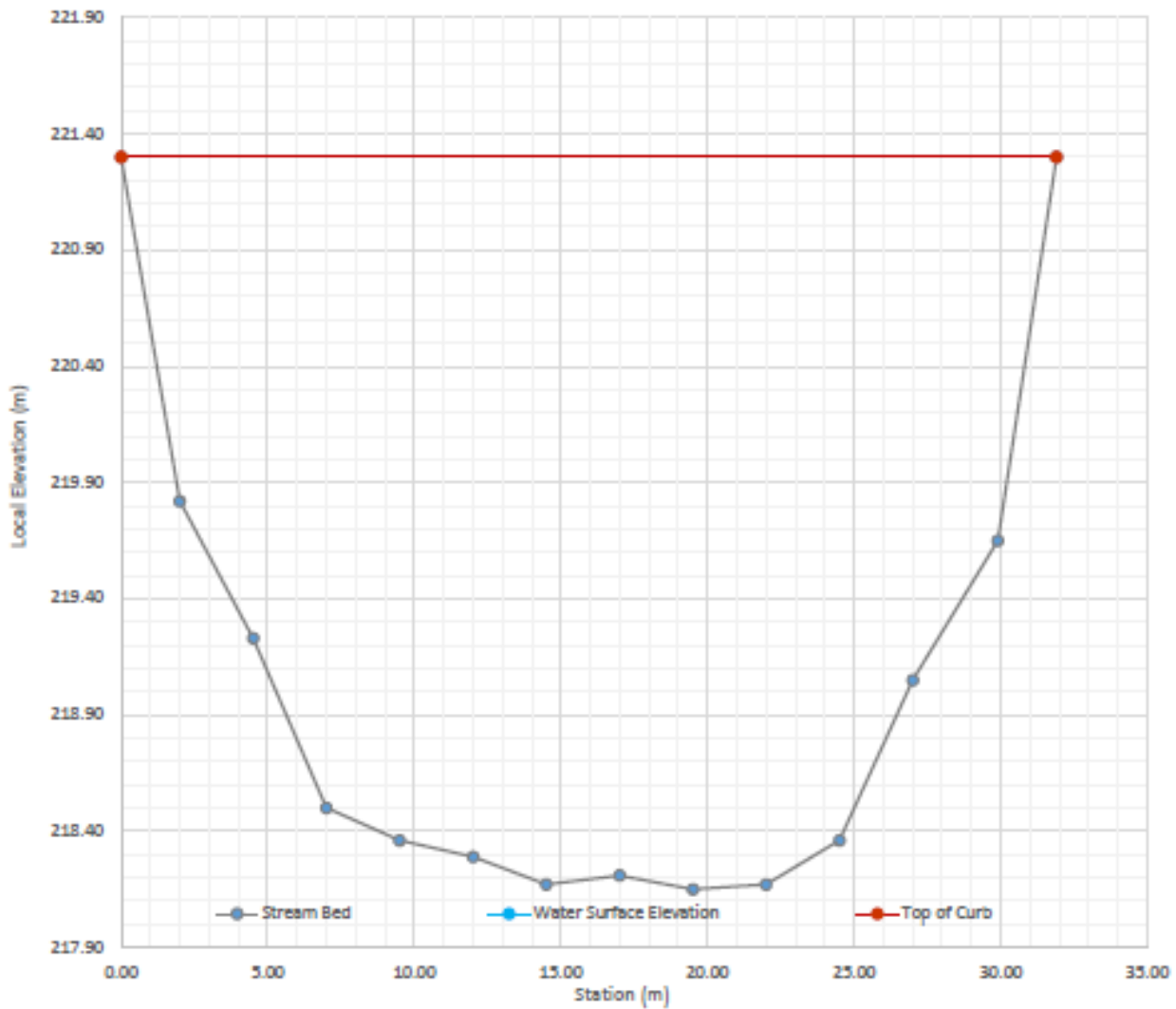
Weather: Dry

Project Limits: Barrie

Inspectors: SO / DG

Channel Geometry Parameters

Cross Section Data





Reach 3.2 - Bunkers Lakeshore - D/S

Project No.: 5611

Date: 11/07/23

Watercourse: Hotchkiss

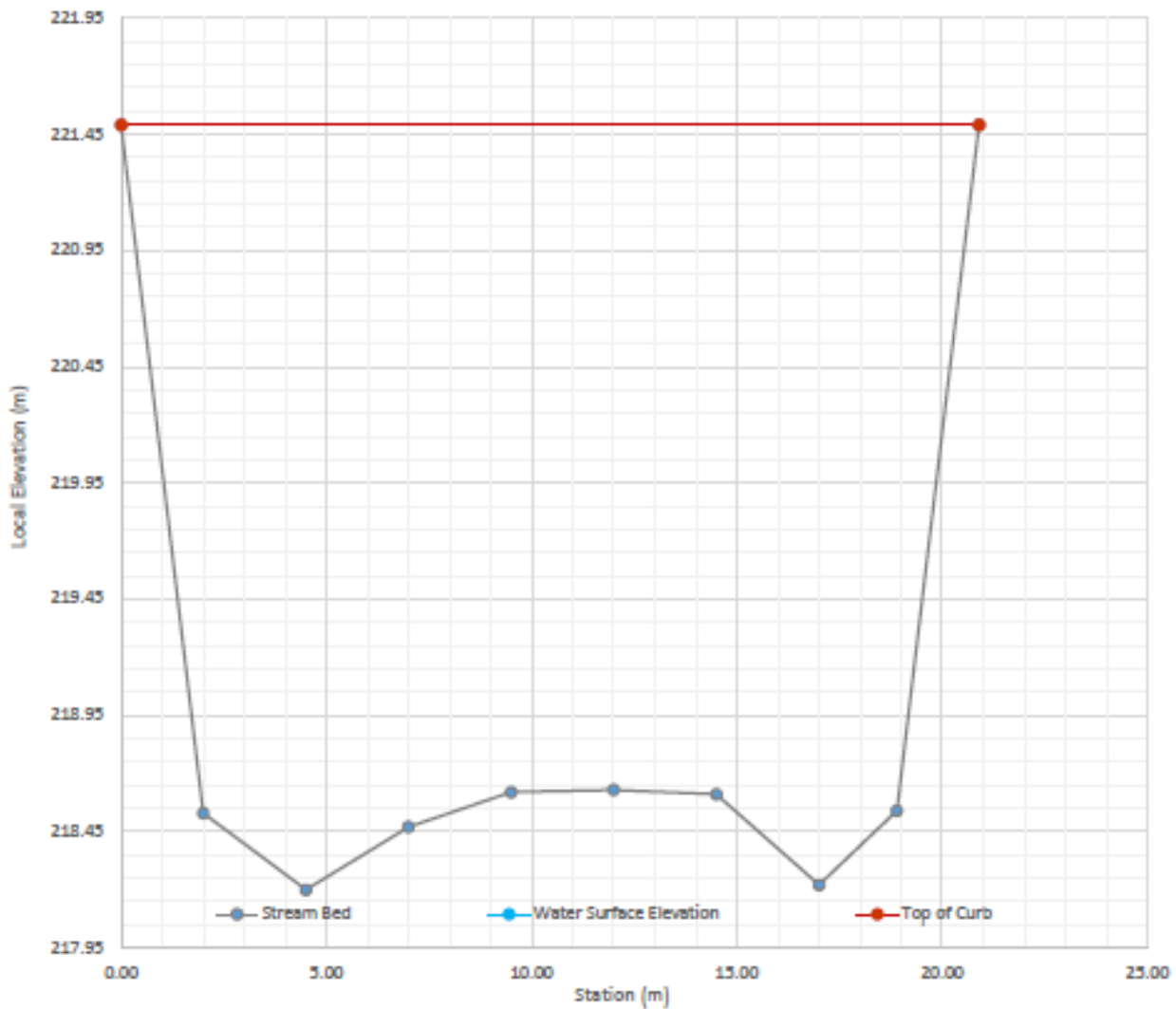
Weather: Dry

Project Limits: Barrie

Inspectors: SO / DG

Channel Geometry Parameters

Cross Section Data





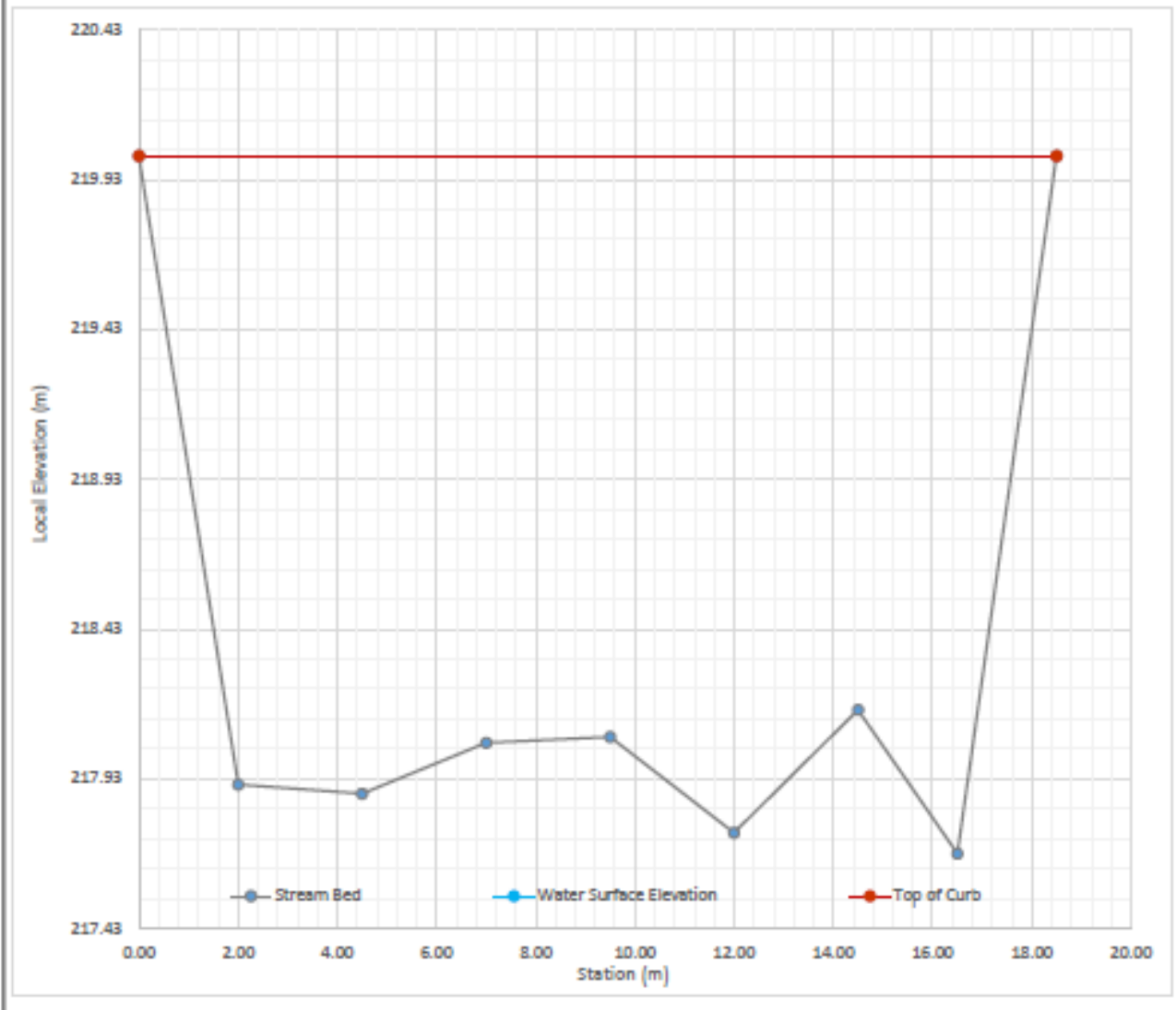
Reach 3.3 - Bunkers Pedestrian - U/S

Project No.: 5611
Watercourse: Hotchkiss
Project Limits: Barrie

Date: 11/07/23
Weather: Dry
Inspectors: SO / DG

Channel Geometry Parameters

Cross Section Data





Reach 4.1 - Kidds Toronto - U/S

Project No.: 5611

Date: 11/07/23

Watercourse: Hotchkiss

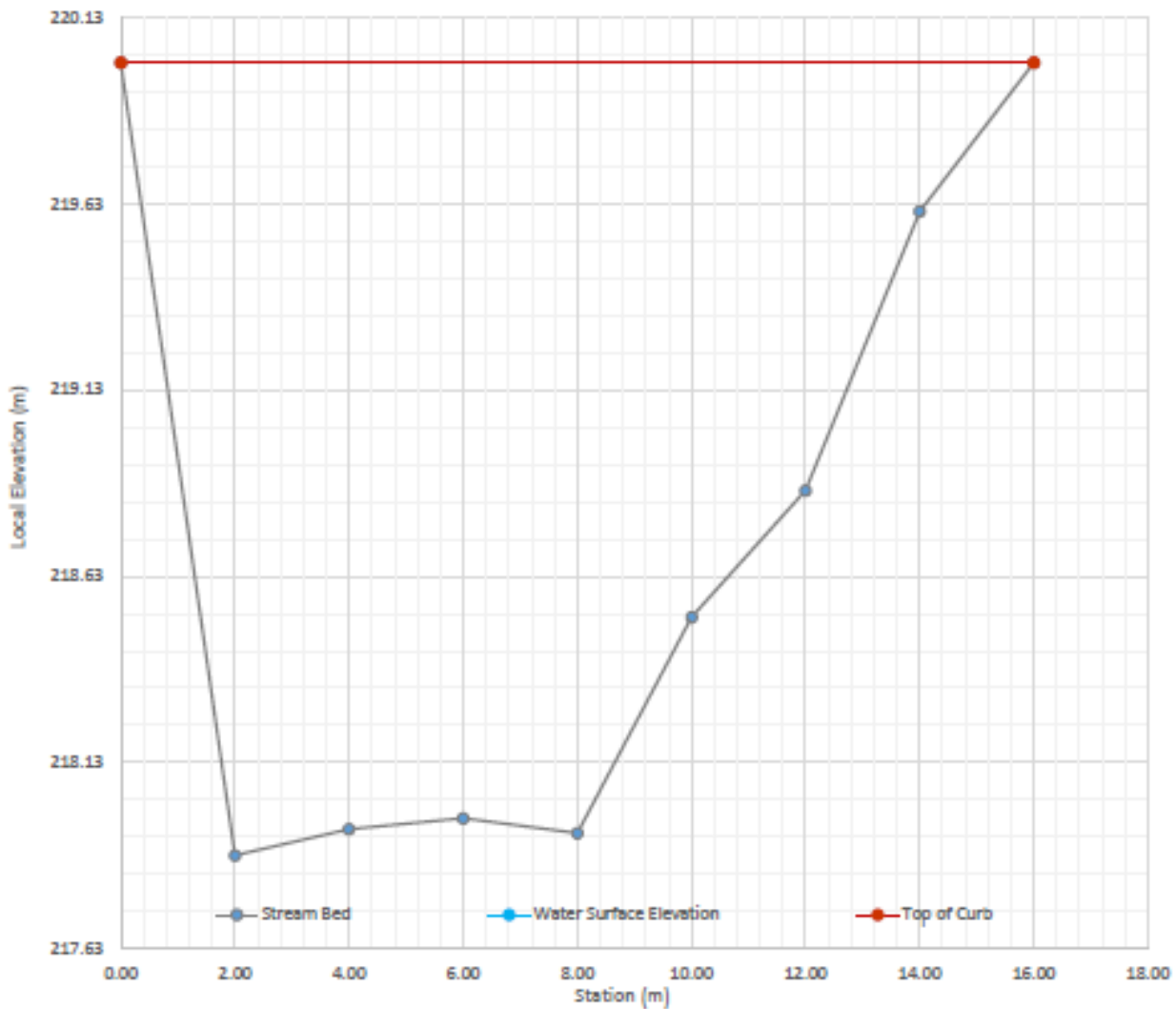
Weather: Dry

Project Limits: Barrie

Inspectors: SO / DG

Channel Geometry Parameters

Cross Section Data





BC02_DS_04_Bunkers_Driveway



BC02_US_01_Bunkers_Driveway



DC02_US_01_Dyments_Edgehill



DC02_US_03_Dyments_Edgehill



DC02_US_05_Dyments_Edgehill



DC02I_US_02_Dyments_Edgehil



DC04_US_01_Dyments_Driveway1



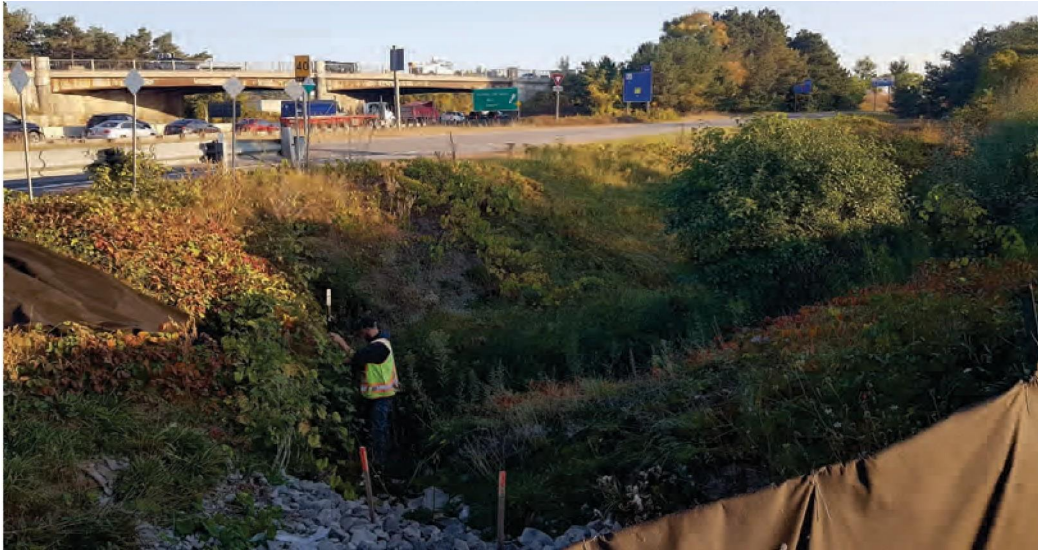
DC04_US_05_Dyments_Driveway1



DC09_DS_01_Dyments_Hwy400



DC09_US_01_Dyments_Hwy400



DC10_DS_03_Dyments_Hwy400Hart



DC1 0_US_01 _Dyments_Hwy400Hart



DC11_DS_01_Dyments_Hart



DC11_OS_03_Oyments_Hart



DC11_US_01_Dyments_Hart



DC12_DS_02_Dyments_Parking



DC12_US_01_Dyments_Parking



DC16_US_01_Dyments_Dunlop



DC18_US_01_Dyments_Innifil



DC18_US_02_Dyments_Innifil



DC20_DS_01_Dyments_Bradford



DC20_DS_02_Dyments_Bradford



DC20_US_01_Dyments_Bradford



HC01_DS_01_Hotchkiss_Morrow



HC01 US_01 Hotchkiss_Morrow



HC02_DS_01_Hotchkiss_Hwy400



HC02_DS_05_Hotchkiss_Hwy400



HC02_US_01_Hotchkiss_Hwy400



HC02_US_02_Hotchkiss_Hwy400



HC02_US_03_Hotchkiss_Hwy400



HC02_US_04_Hotchkiss_Hwy400



HC02_US_07_Hotchkiss_Hwy400



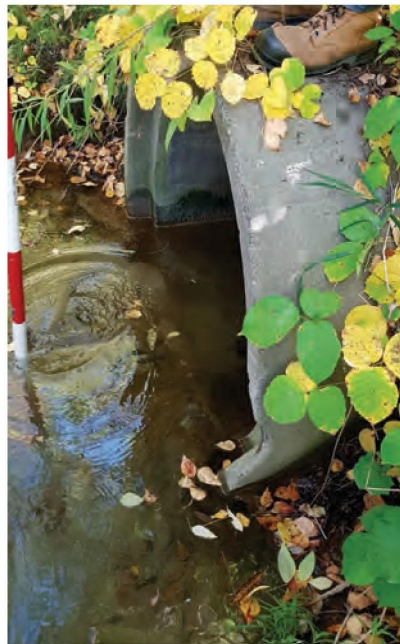
HC02_US_09_Hotchkiss_Hwy400



HC03_DS_01_Hotchkiss_Wood



HC03_US_01_Hotchkiss_Wood



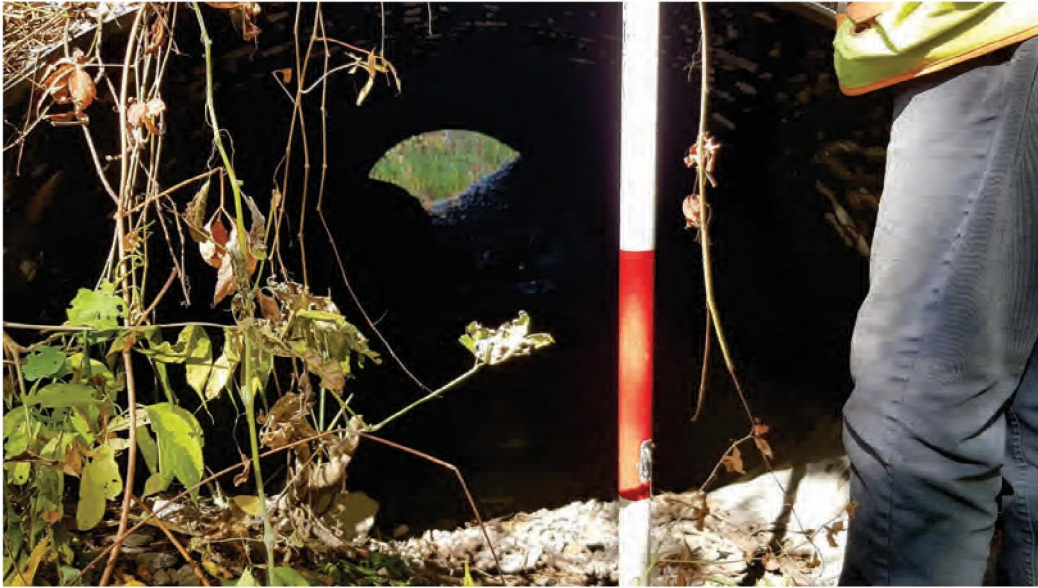
HC04_DS_01 Hotchkiss_Rail



HC04_US_01 Hotchkiss_Rail



HC04_US_05_Hotchkiss_Rail



HC04_US_06_Hotchkiss_Rail



KC02_US_01_Kidds_Hwy400



KC02_US_02_Kidds_Hwy400



KC02_US_03_Kidds_Hwy400



KC02_US_04_Kidds_Hwy400



KC02_US_05_Kidds_Hwy400



KC02_US_06_Kidds_Hwy400



KC04_DS_04_Kidds_Thomson



KC04_US_03_Kidds_Thomson



KC06_DS_03_Kidds_Donald



KC06_DS_04_Kidds_Donald



KC06_DS_05_Kidds_Donald



KC06_US_01_Kidds_Donald



KC06_US_02_Kidds_Donald



KC06_US_03_Kidds_Donald



KC06_US_04_Kidds_Donald



KC09_US_01_Kidds_Davidson



KC09_US_02_Kidds_Davidson



KC09_US_03_Kidds_Davidson



SC02_DS_01_Sophia_Grove



SC02_US_01_Sophia_Grove



SC03_DS_01_Sophia_Vincent



SC03_US_01_Sophia_Vincent



WC02_DS_01_Whiskey_Harvie



WC02_US_02_Whiskey_Harvie



WC03_DS_02_Whiskey_Hwy400



WC03_DS_03_Whiskey_Hwy400



WC03_DS_04_Whiskey_Hwy400



WC04_DS_01_Whiskey_Fairview



WC04_DS_02_Whiskey_Fairview



WC04_US_01_Whiskey_Fairview



WC04_US_02_Whiskey_Fairview



WC04_US_03_Whiskey_Fairview



WC04_US_04_Whiskey_Fairview



WC05_US_01_Whiskey_Rail



WC08_US_01_Whiskey_Rail_Little



WC09_01_Whiskey_Huronia



WC09_DS_01_Whiskey_Huronia



WC10_DS_01_Whiskey_Little



WC10_DS_04_Whiskey_Little



WC10_US_01_Whiskey_Little



WC10_US_02_Whiskey_Little



WC12_DS_01_Whiskey_Rail_Minets



WC14_US_01_Whiskey_Boulevard



WC14_US_02_Whiskey_Boulevard

[This Page Intentionally Left Blank]
Detailed Structure Data Sheets and Photos
Attached to the Digital Submission



Appendix B

Hydrology



Barrie Creeks Watershed: Regulatory Peak Flow Summary


Watershed	HEC RAS		Willis HEC RAS		2023 UPDATE (FUTURE CONDITIONS)			
	River	River Reach	River Station	V06 Hydrograph	1:100 Year (uncontrolled)	Regional (Hazel)	Regional with Climate Change (Hazel + 19%)	Regulatory
Bunkers Creek (6 Hour SCS Type II Design Storm)	Bunkers			17913	16.22	11.69	14.21	16.22
	Bunkers		1305	179172	36.79	27.84	33.77	36.79
	Bunkers		1065	17918	39.38	29.71	36.02	39.38
	Bunkers		858	17923	52.31	42.22	51.23	52.31
	Bunkers		803	17924	54.24	43.95	53.38	54.24
	Bunkers		621	17933	56.17	47.22	57.38	56.17
	Bunkers		443	17934	55.96	47.46	57.68	55.96
	Bunkers		328	17935	57.61	49.11	59.81	57.61
	Bunkers		184	17936	55.53	49.29	60.08	55.53
Bunkers		86.8	17937	55.83	50.08	60.96	55.83	
Dyments Creek (6 Hour SCS Type II Design Storm)	Dyments		4973	18909	14.52	18.09	22.11	18.09
	Dyments		4531	18911	15.92	22.63	27.68	22.63
	Dyments		4287	18913	16.39	25.46	31.13	25.46
	Dyments		3837	189142	14.79	25.63	31.38	25.63
	Dyments		3535	189143	13.06	26.17	32.07	26.17
	Dyments		3453.03	18916	14.84	29.36	35.93	29.36
	Dyments		2933.1	18919	37.12	49.85	64.97	49.85
	Dyments		2600	18922	41.07	53.18	64.66	53.18
	Dyments		2236	189232	43.98	55.02	67.05	55.02
	Dyments		2101	18925	43.24	56.35	67.97	56.35
	Dyments		1959	18926	43.37	56.57	68.30	56.57
	Dyments		1678	18928	44.10	58.70	70.86	58.70
	Dyments		1431	18929	44.28	58.89	71.13	58.89
	Dyments		1153	18931	45.43	61.04	73.74	61.04
	Dyments		698	18933	44.61	61.69	74.79	61.69
	Dyments		601	18934	44.48	61.78	74.88	61.78
	Dyments		474	18937	45.00	63.02	76.34	63.02
Dyments		170	18938	45.60	64.16	77.69	64.16	
Hotchkiss Creek (6 Hour SCS Type II Storm)	Hotchkiss		2233	19929	19.33	13.21	15.92	13.21
	Hotchkiss		1962	19909	20.21	14.15	17.06	14.15
	Hotchkiss		1886	199102	43.17	33.69	39.93	33.69
	Hotchkiss		1606	19917	43.76	34.63	41.05	34.63
	Hotchkiss		1233.7	19918	52.30	40.12	48.09	40.12
	Hotchkiss		1067	19919	55.14	42.03	50.35	42.03
	Hotchkiss		1053	19920	55.18	42.06	50.46	42.06
	Hotchkiss		882	199202	72.18	51.81	62.24	51.81
	Hotchkiss		711	199203	72.83	52.29	62.82	52.29
	Hotchkiss		648	19922	75.07	54.60	65.64	54.60
	Hotchkiss		485	19923	75.27	55.16	66.14	55.16
	Hotchkiss		385	19925	76.69	56.25	67.58	56.25
	Hotchkiss		162	19927	76.26	56.53	67.77	56.53
	Kidds		3898	16924	31.38	27.72	33.41	27.72
	Kidds		3834	169242	31.58	28.02	33.78	28.02
	Kidds		3615	16905	30.84	29.01	34.98	29.01
	Kidds		3419	16906	32.06	30.38	36.64	30.38
	Kidds		3302	16908	39.51	38.51	46.54	38.51
	Kidds		2641	16909	39.69	41.37	50.07	41.37
	Kidds		2242	16910	46.38	48.83	59.13	48.83
Kidds		2113	169122	50.22	54.47	65.99	54.47	
Kidds		1509	169132	49.41	55.57	67.28	55.57	
Kidds		1114	169152	49.67	55.96	67.76	55.96	
Kidds		953	169262	50.67	58.03	70.30	58.03	
Kidds		788	16918	50.84	58.66	71.02	58.66	
Kidds		311	16921	51.60	60.23	72.86	60.23	
Kidds		80	16923	51.75	60.69	73.53	60.69	

Barrie Creeks Watershed: Regulatory Peak Flow Summary

Watershed	HEC RAS	Willis HEC RAS			2023 UPDATE (FUTURE CONDITIONS)			
	River	River Reach	River Station	V06 Hydrograph	1:100 Year (uncontrolled)	Regional (Hazel)	Regional with Climate Change (Hazel + 19%)	Regulatory
Sophia Creek (6 Hour SCS Type II Storm)	Sophia	West	729	15952	3.70	2.26	2.72	3.70
	Sophia	West	618	159532	1.10	1.00	1.22	1.10
	Sophia	West	436	159533	1.44	1.18	1.43	1.44
	Sophia	West	396	159542	6.17	3.87	4.67	6.17
	Sophia	West	307	15955	7.33	4.38	5.28	7.33
	Sophia	West	191	15956	11.27	6.23	7.50	11.27
	Sophia	West	123	159562	12.17	6.62	7.96	12.17
	Sophia	East 1	675.3	15901	13.03	7.93	9.50	13.03
	Sophia	East 1	155.5	15903	18.12	11.15	13.36	18.12
	Sophia	East 1	81.8	159072	23.92	15.19	18.21	23.92
	Sophia	East 2	3041.4	15121	13.11	8.39	10.08	13.11
	Sophia	East 2	2966.5	159082	13.32	8.62	10.38	13.32
	Sophia	East 2	2862	15910	15.97	10.27	12.36	15.97
	Sophia	East 2	2647	15911	17.71	11.35	13.64	17.71
	Sophia	East 2	2519	15913	20.72	13.32	15.97	20.72
	Sophia	East 2	2319	15915	29.85	19.42	23.27	29.85
	Sophia	East 2	2038.4	15916	29.09	19.79	23.98	29.09
	Sophia	East 2	1921	15917	51.77	34.98	42.31	51.77
	Sophia	East 2	1820	159192	55.40	37.94	45.66	55.40
	Sophia	East 2	1568.2	159202	55.39	38.42	46.27	55.39
Sophia	East 2	1225.2	15923	61.95	44.02	53.16	61.95	
Sophia	East 2	1206.2	15924	65.17	47.73	57.68	65.17	
Sophia	East 2	973	159252	66.88	50.03	60.49	66.88	
Sophia	East 2	584.7	15929	70.57	54.37	65.83	70.57	
Sophia	East 2	334.5	15934	73.11	57.50	69.67	73.11	
Sophia	East 2	236	15935	73.37	57.76	70.00	73.37	
Whiskey Creek (6 Hour SCS Type II Storm)	Whiskey		6450	23901	14.25	12.15	14.70	12.15
	Whiskey		5704	23905	25.59	20.14	24.34	20.14
	Whiskey		5579	23908	32.58	24.37	29.41	24.37
	Whiskey		4631	23912	32.66	27.16	32.93	27.16
	Whiskey		3392	23915	55.85	43.65	51.91	43.65
	Whiskey		2026	23919	50.34	47.91	57.40	47.91
	Whiskey		1789	23940	59.73	56.69	67.96	56.69
	Whiskey		1544	23928	79.27	73.53	88.45	73.53
	Whiskey		966	23930	76.06	75.64	91.39	75.64
	Whiskey		677	23932	77.30	77.76	94.03	77.76
	Whiskey		487	23935	78.35	79.58	96.33	79.58
	Whiskey		183	23938	78.32	80.29	97.25	80.29



Figure 4
LSRCA Surface Water
Monitoring Station
Locations

Legend
 LSRCA Water Station

Data Sources:
 LIO Basemap, GEOHUB 2004

NAD 1983 UTM Zone 17N
 1:10,000

Meters
 0 125 250



Drawn By:	SO
Checked By:	KS
Map Date:	2/08/24
Project Number:	5611
Map File Number	24-5611



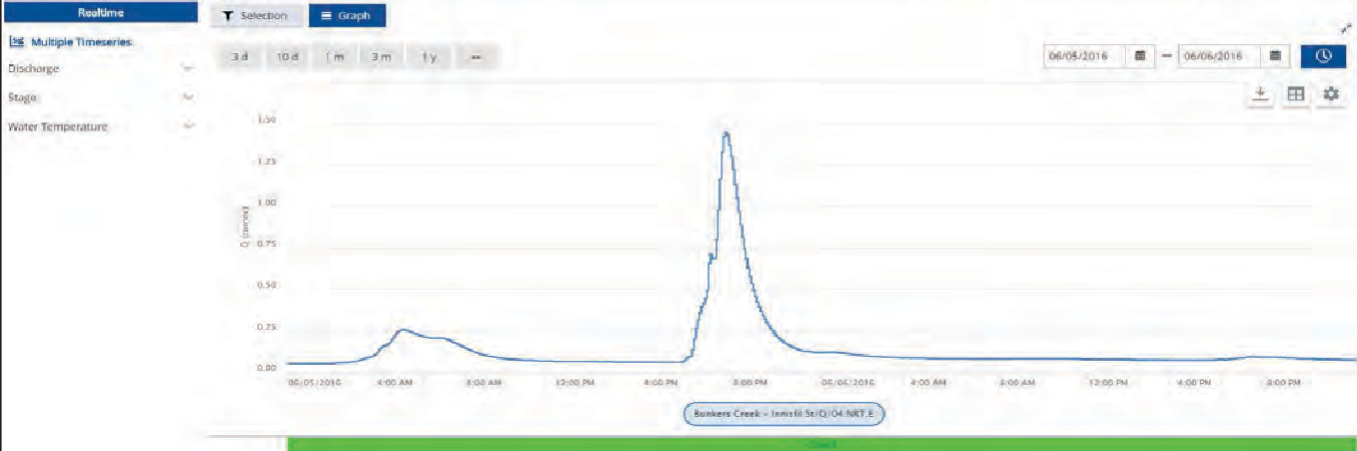
D.M. Wills Associates Limited
 150 Jameson Drive
 Peterborough, Ontario
 K9J 0B9

P. 705.742.2297
 F. 705.748.9944
 E. wills@dmwills.com
 Copy Right D.M.Wills 2004

Bunkers Creek Flow Gauge Data

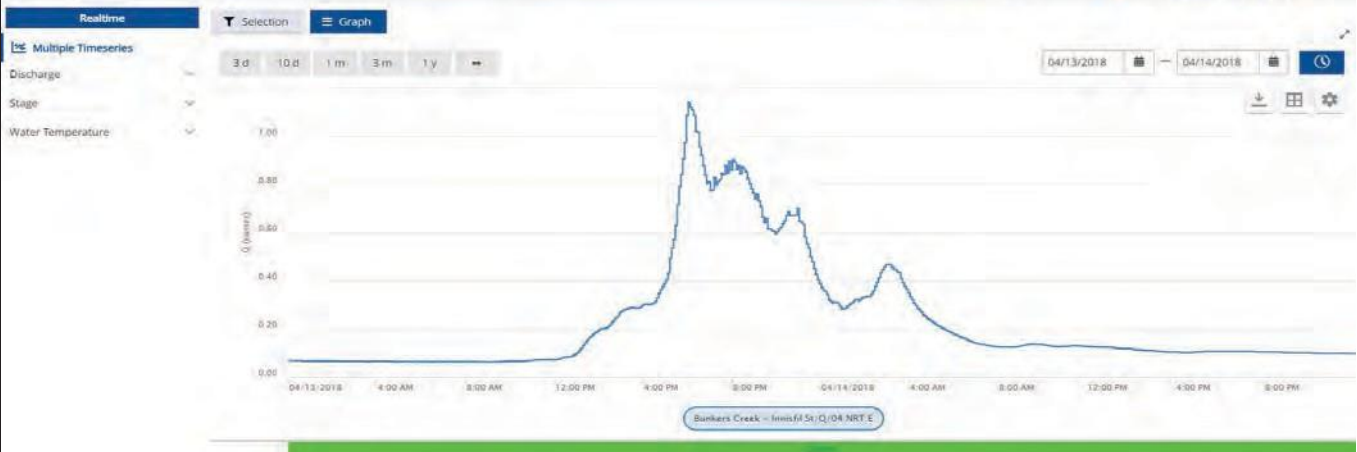
Bunkers Creek - Innisfil St

Station Type: Surface water
Site Name: LSRCA
Station Number: LS0112
Latitude: 44.38294
Longitude: -79.69731



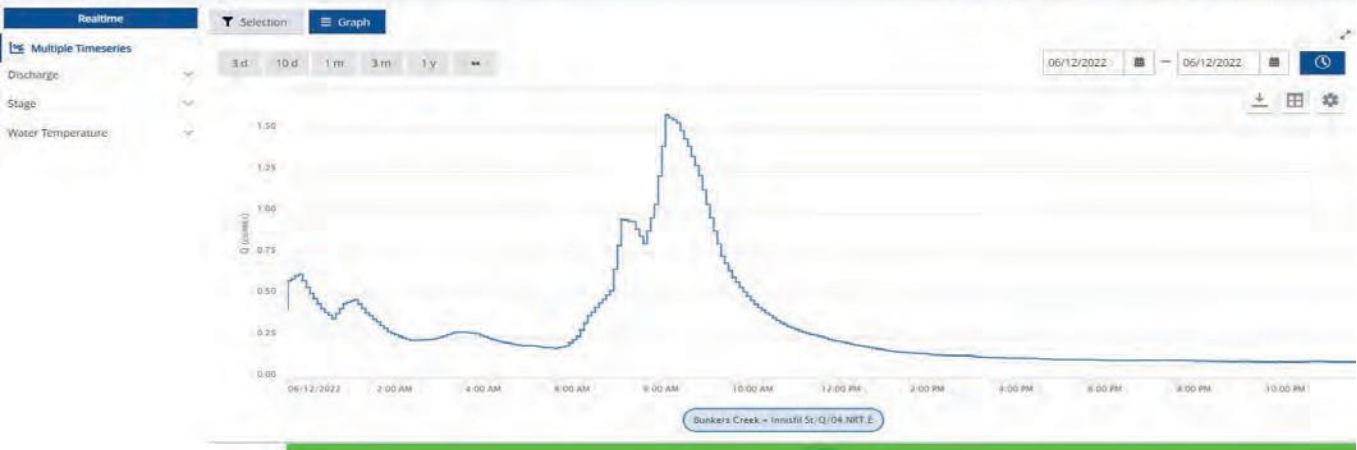
Bunkers Creek - Innisfil St

Station Type: Surface water
Site Name: LSRCA
Station Number: LS0112
Latitude: 44.38294
Longitude: -79.69731



Bunkers Creek - Innisfil St

Station Type: Surface water
Site Name: LSRCA
Station Number: LS0112
Latitude: 44.38294
Longitude: -79.69731

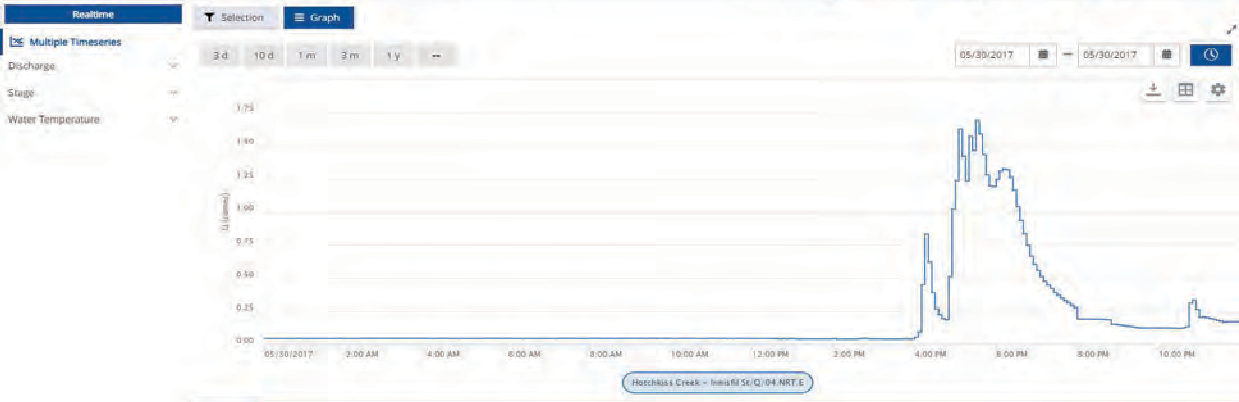


Hotchkiss Creek Flow Gauge Data

Hotchkiss Creek - Innisfil St

Station Type: Surface water
Site Name: LSRCA
Station Number: LS0203

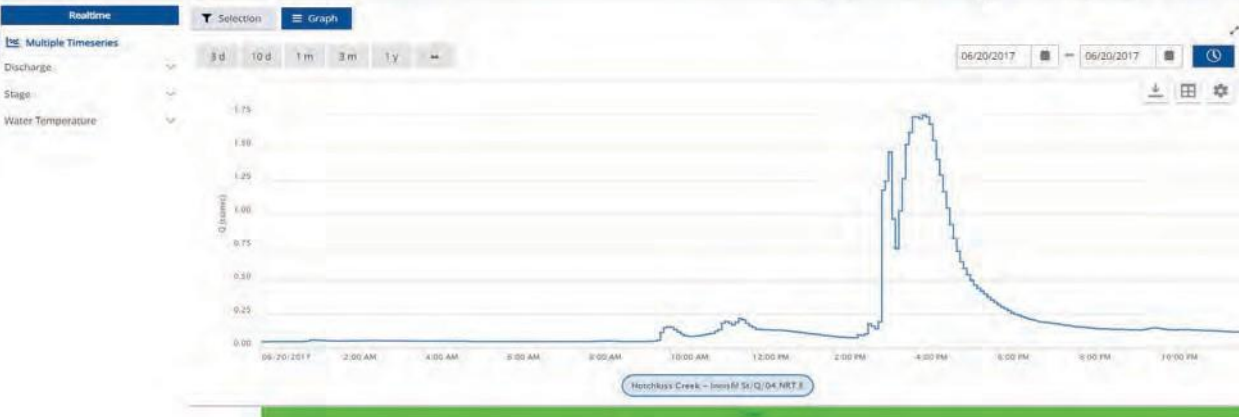
Latitude: 44.37492
Longitude: -79.6946



Hotchkiss Creek - Innisfil St

Station Type: Surface water
Site Name: LSRCA
Station Number: LS0203

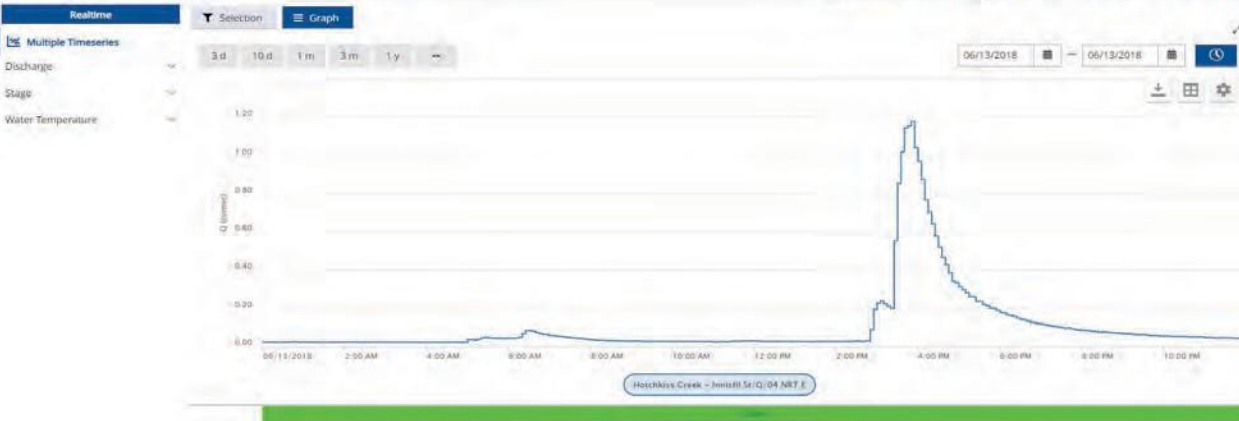
Latitude: 44.37492
Longitude: -79.6946



Hotchkiss Creek - Innisfil St

Station Type: Surface water
Site Name: LSRCA
Station Number: LS0203

Latitude: 44.37492
Longitude: -79.6946



Kidds Creek Flow Gauge Data

Kidds Creek - Eccles St N

Station Type: Surface water
Site Name: LSRCA
Station Number: LS0113

Latitude: 44.38703
Longitude: -79.69928



Realtime

Selection Graph

Multiple Timeseries

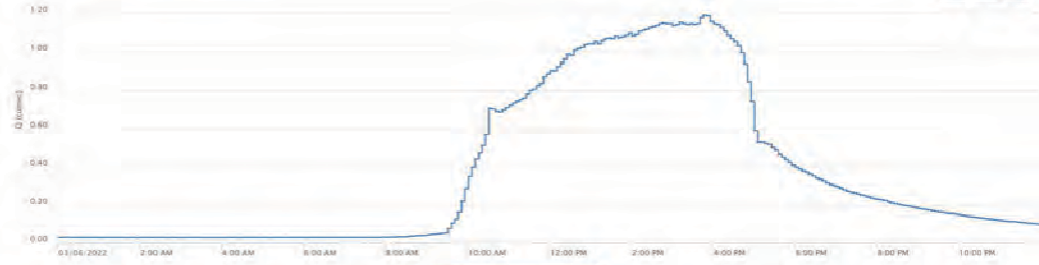
Discharge

Stage

Water Temperature

3 d 10 d 1 m 3 m 1 y

03/06/2022 03/06/2022



Kidds Creek - Eccles St N: Q: 04 NRT.E

Unchecked

Kidds Creek - Eccles St N

Station Type: Surface water
Site Name: LSRCA
Station Number: LS0113

Latitude: 44.38703
Longitude: -79.69928



Realtime

Selection Graph

Multiple Timeseries

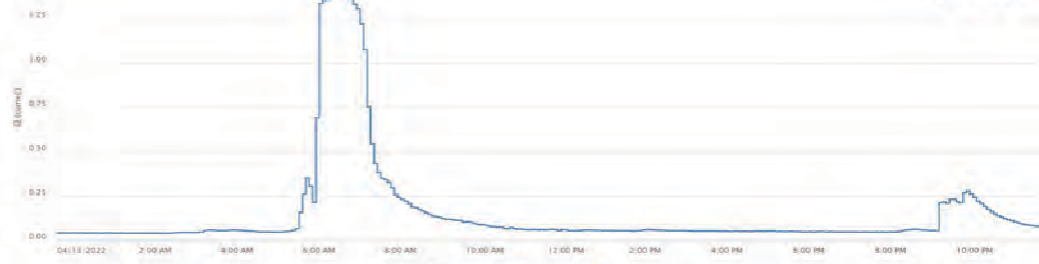
Discharge

Stage

Water Temperature

3 d 10 d 1 m 3 m 1 y

04/13/2022 04/13/2022



Kidds Creek - Eccles St N: Q: 04 NRT.E

Unchecked

Kidds Creek - Eccles St N

Station Type: Surface water
Site Name: LSRCA
Station Number: LS0113

Latitude: 44.38703
Longitude: -79.69928



Realtime

Selection Graph

Multiple Timeseries

Discharge

Stage

Water Temperature

3 d 10 d 1 m 3 m 1 y

06/12/2022 06/12/2022



Kidds Creek - Eccles St N: Q: 04 NRT.E

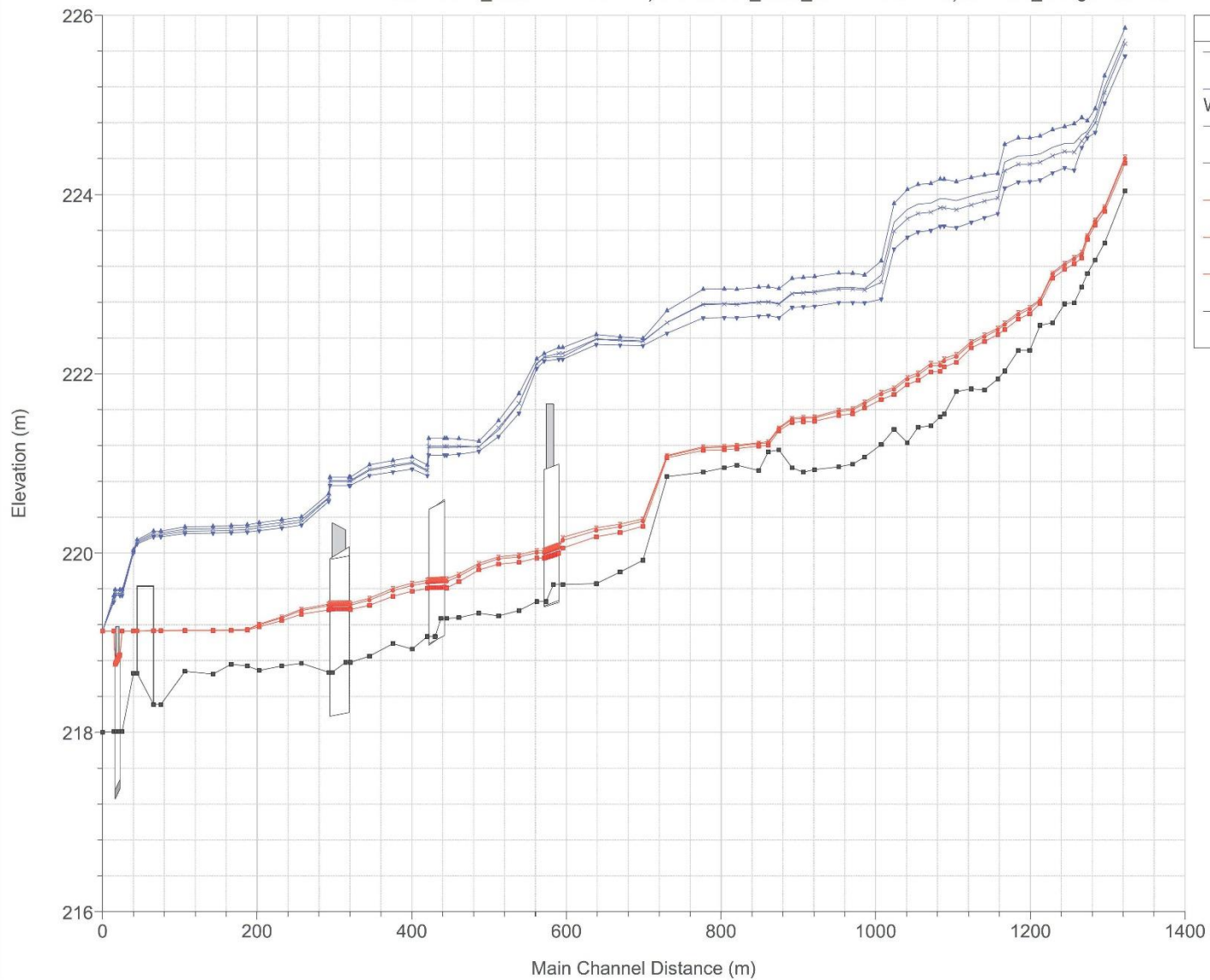
Unchecked

Appendix C

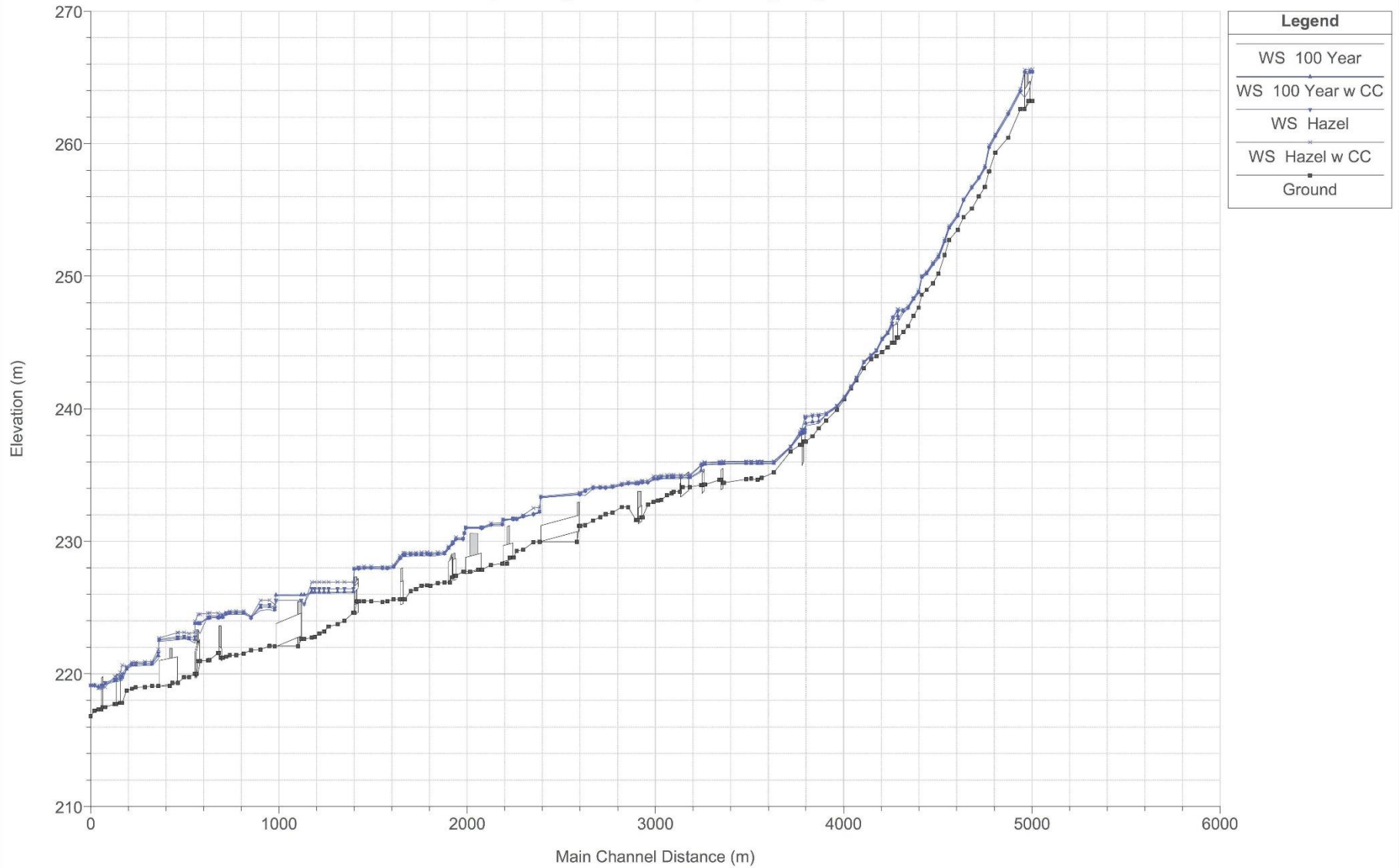
Hydraulic Modelling



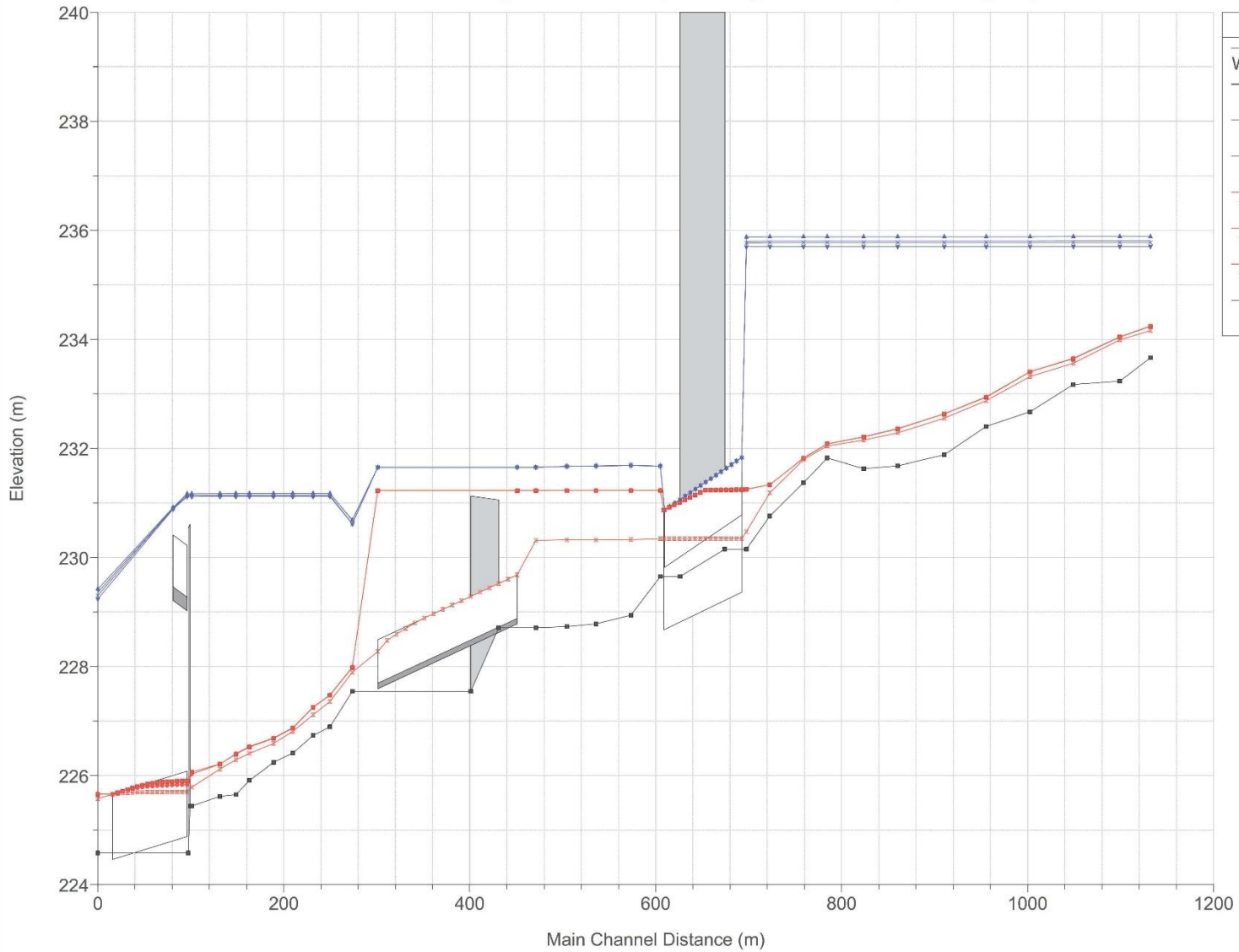
BunkersCk_2023 Plan: 1) BunkersCk_2023_Ex 4/05/24 2) Bunkers_Gauge 2/14/24



Legend	
WS 100 Year - BunkersCk_2023_Ex	▲
WS 100 Year w CC - BunkersCk_2023_Ex	▲
WS Hazel - BunkersCk_2023_Ex	▲
WS Hazel w CC - BunkersCk_2023_Ex	▲
WS 06-05-16 - Bunkers_Gauge	■
WS 04-13-18 - Bunkers_Gauge	●
WS 06-12-22 - Bunkers_Gauge	■
Ground	■

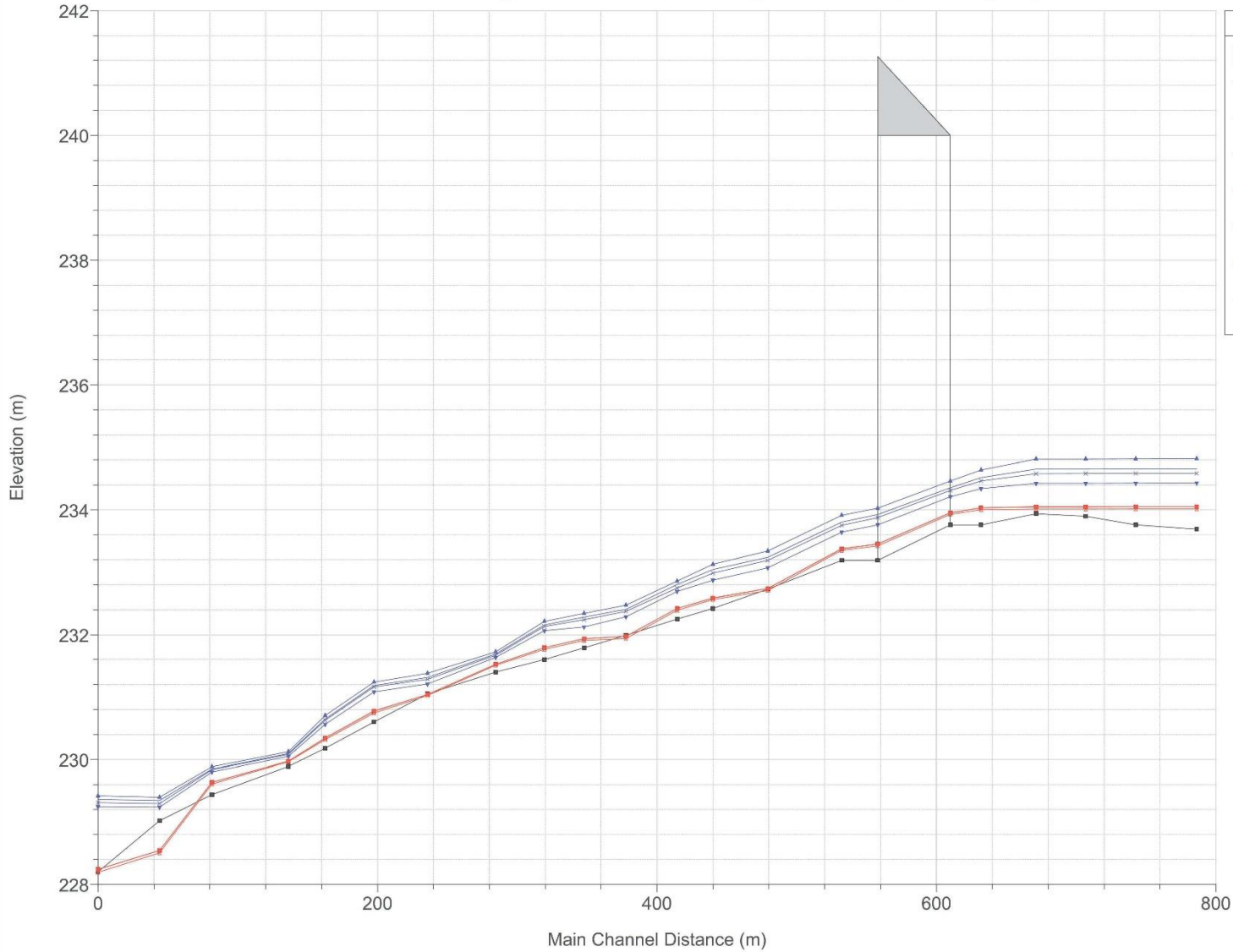


HotchkissCk_2023 Plan: 1) Hotchkiss_ks 4/05/24 2) Hotchkiss_Gauge 2/14/24



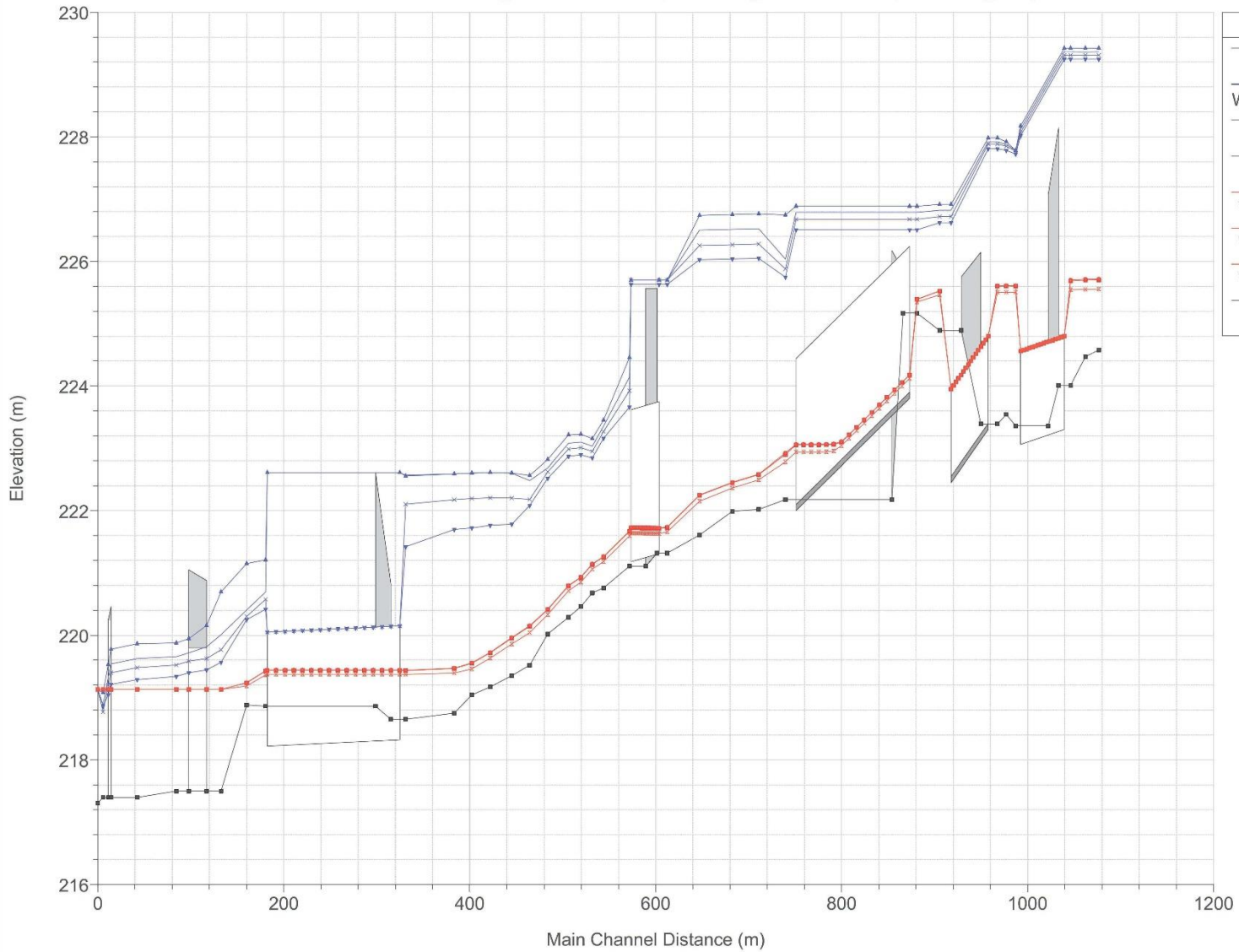
Legend	
WS 100 Year w CC - Hotchkiss_ks	▲
WS 100 Year - Hotchkiss_ks	■
WS Hazel w CC - Hotchkiss_ks	×
WS Hazel - Hotchkiss_ks	◆
WS 06-20-17 - Hotchkiss_Gauge	■
WS 05-30-17 - Hotchkiss_Gauge	■
WS 06-13-18 - Hotchkiss_Gauge	■
Ground	■

HotchkissCk_2023 Plan: 1) Hotchkiss_ks 4/05/24 2) Hotchkiss_Gauge 2/14/24

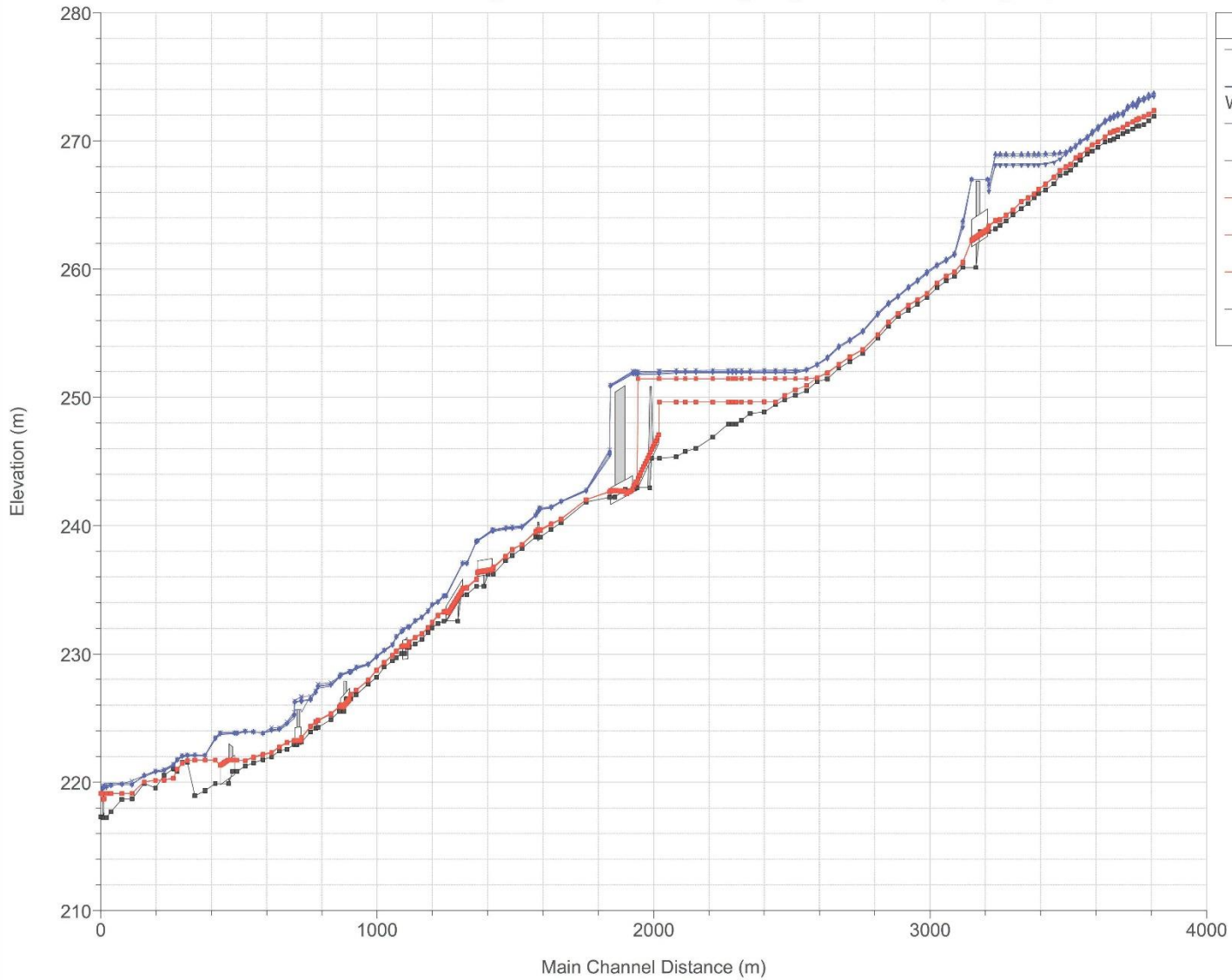


Legend	
WS 100 Year w CC - Hotchkiss_ks	▲
WS 100 Year - Hotchkiss_ks	×
WS Hazel w CC - Hotchkiss_ks	▼
WS Hazel - Hotchkiss_ks	◆
WS 06-20-17 - Hotchkiss_Gauge	●
WS 05-30-17 - Hotchkiss_Gauge	■
WS 06-13-18 - Hotchkiss_Gauge	▲
Ground	■

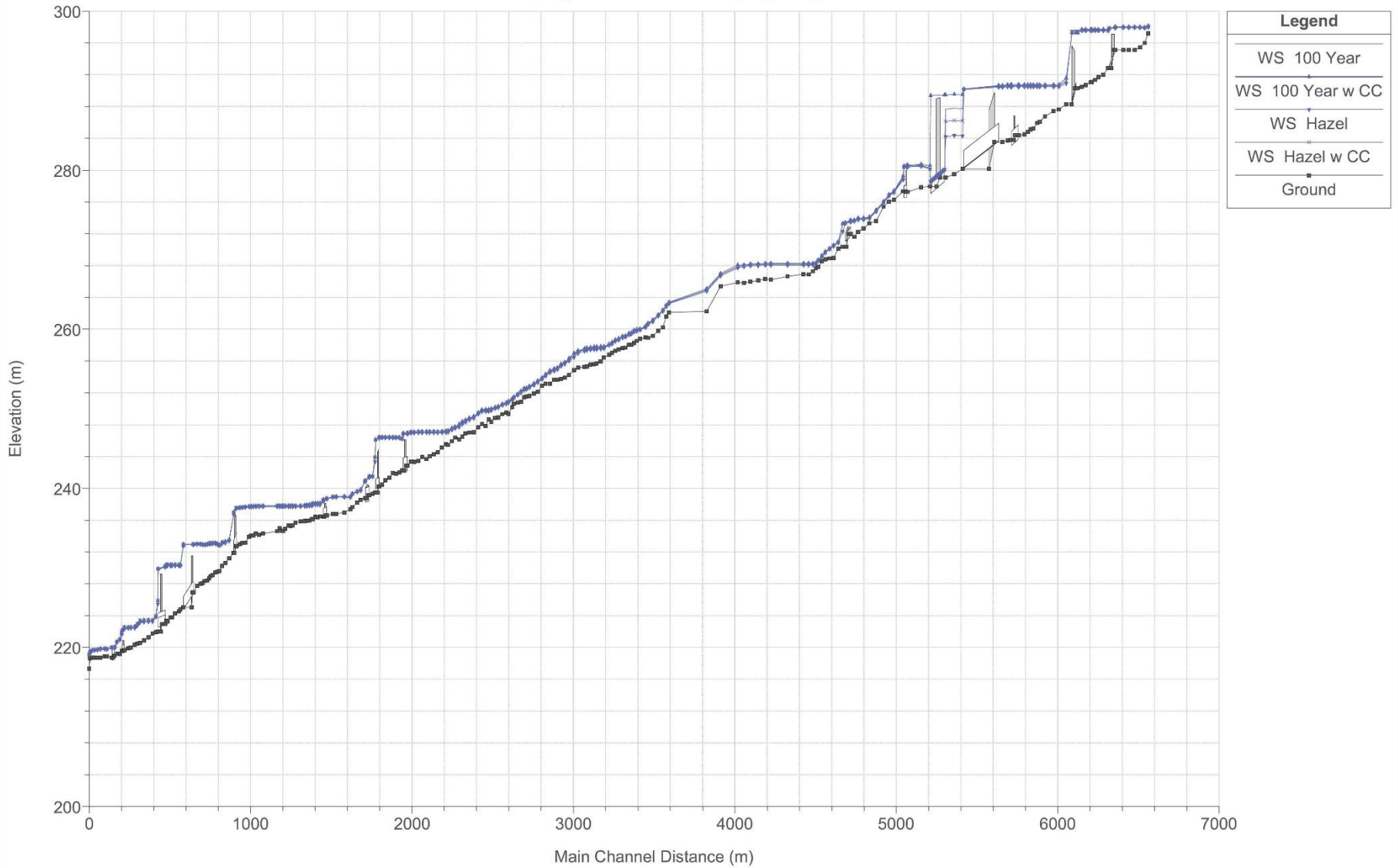
HotchkissCk_2023 Plan: 1) Hotchkiss_ks 4/05/24 2) Hotchkiss_Gauge 2/14/24

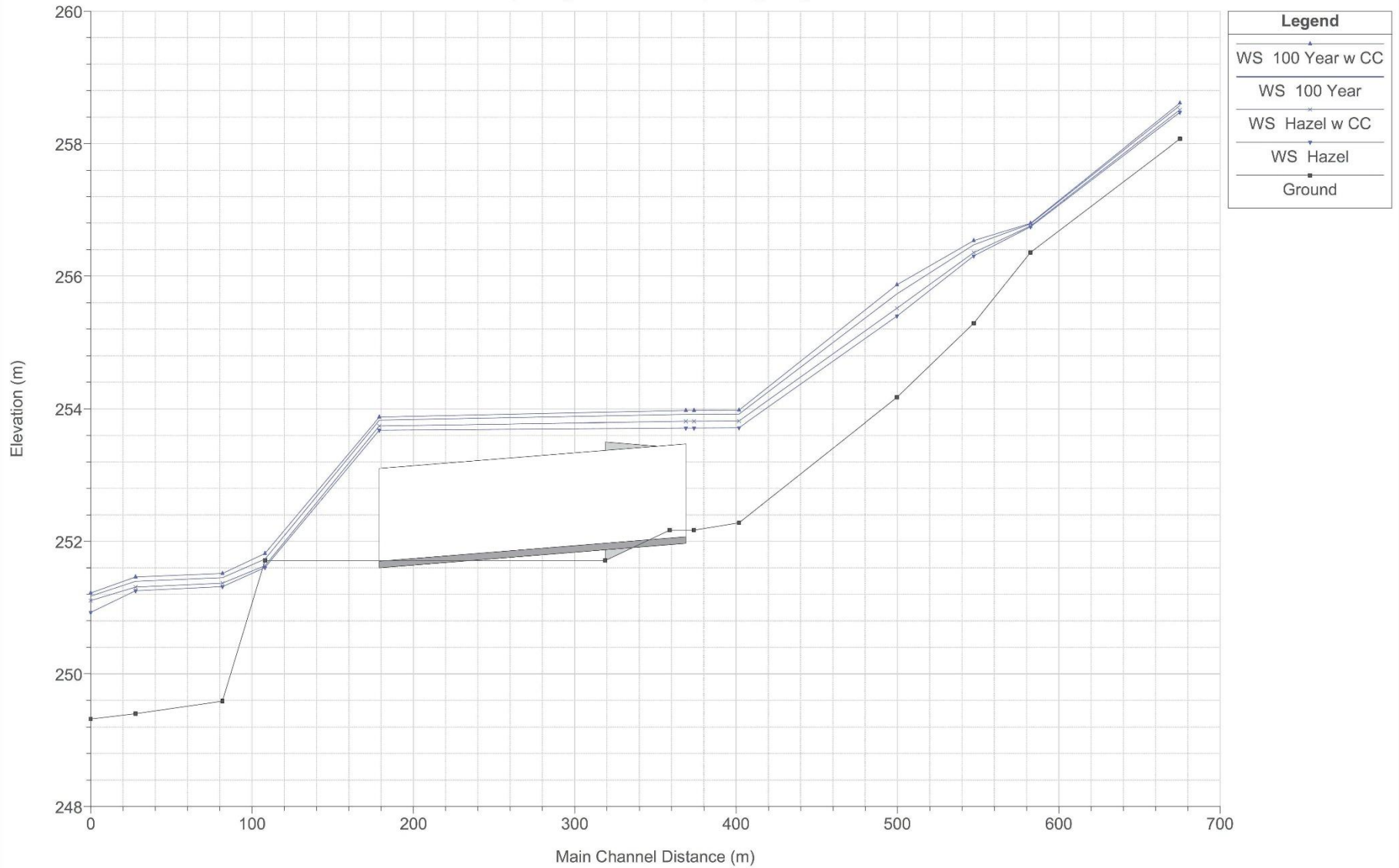


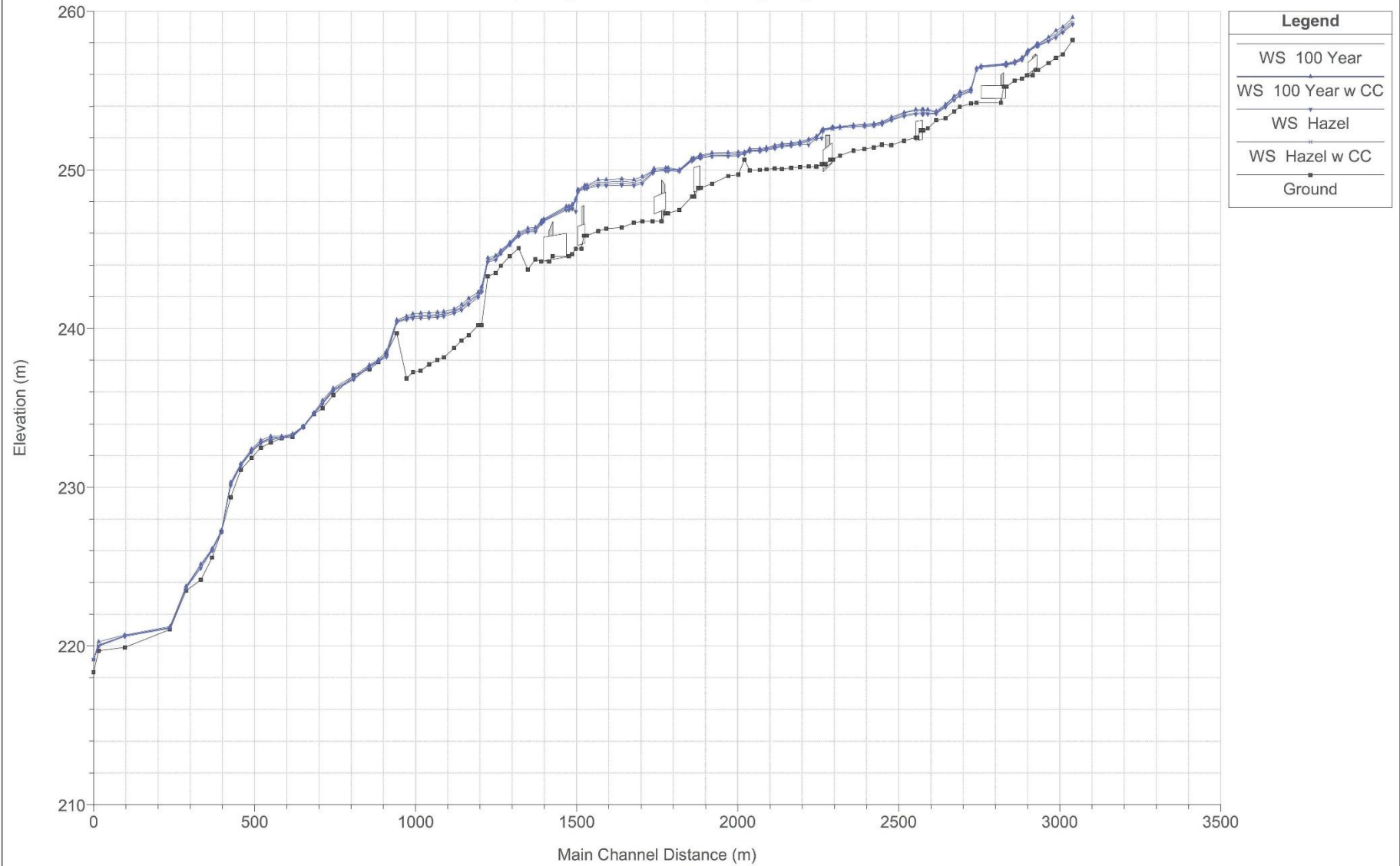
Legend	
WS 100 Year - Hotchkiss_ks	▲
WS 100 Year w CC - Hotchkiss_ks	▲
WS Hazel - Hotchkiss_ks	▲
WS Hazel w CC - Hotchkiss_ks	▲
WS 05-30-17 - Hotchkiss_Gauge	■
WS 06-20-17 - Hotchkiss_Gauge	●
WS 06-13-18 - Hotchkiss_Gauge	▲
Ground	■

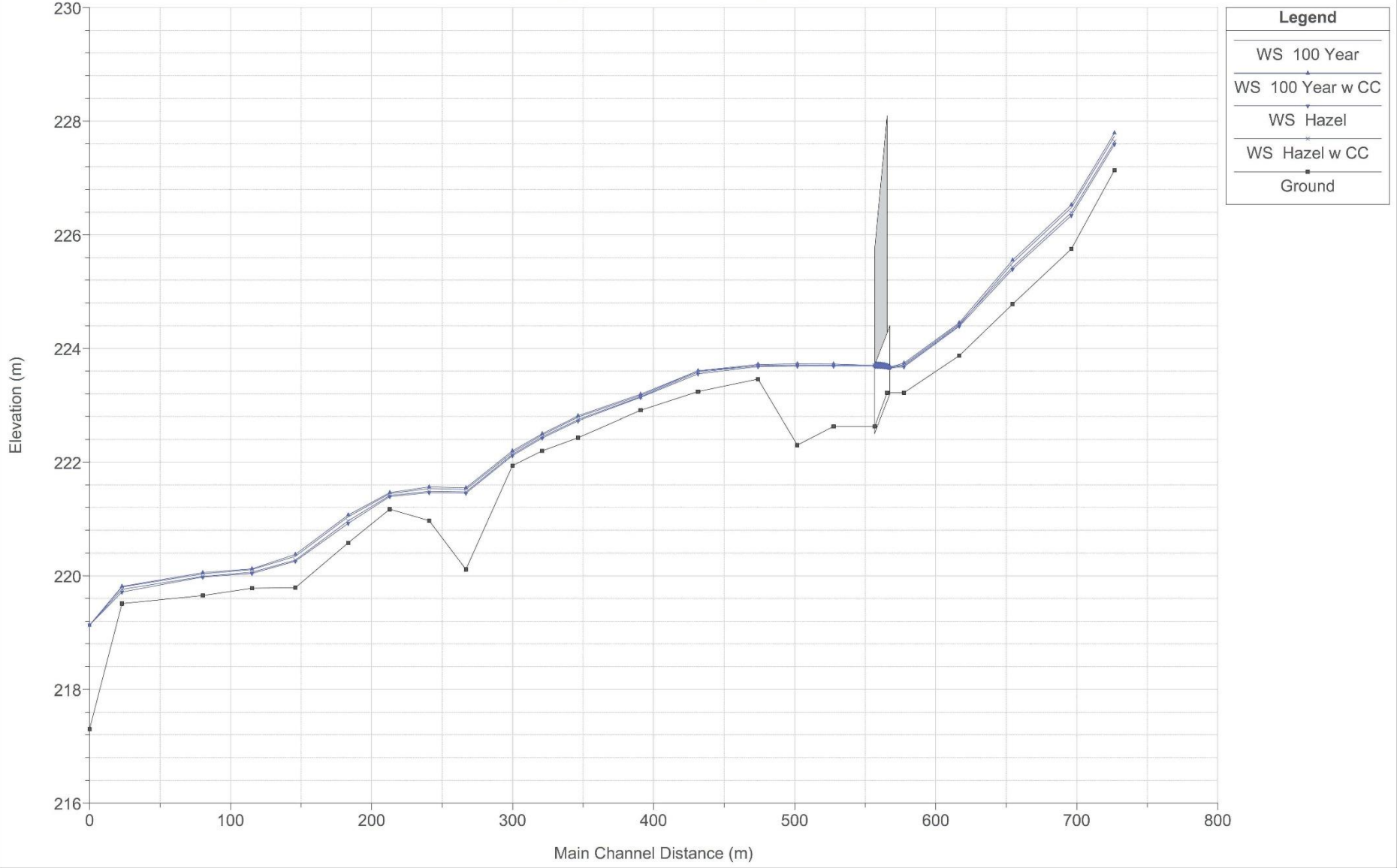


Legend	
WS 100 Year - KiddsCk_2023_Ex	Blue line with diamond markers
WS 100 Year w CC - KiddsCk_2023_Ex	Blue line with diamond markers
WS Hazel - KiddsCk_2023_Ex	Blue line with diamond markers
WS Hazel w CC - KiddsCk_2023_Ex	Blue line with diamond markers
WS 03-06-22 - Kidds_Gauge	Red line with square markers
WS 04-13-22 - Kidds_Gauge	Red line with square markers
WS 06-12-22 - Kidds_Gauge	Red line with square markers
Ground	Black line with square markers









Bunkers Creek - Flood Flow Scenarios

Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
			(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
1	1305	100 Year	36.79	224.04	225.74		226.07	0.013565	3.28	16.67	12.47	0.81
1	1305	100 Year w C	43.5	224.04	225.86		226.25	0.014588	3.56	18.16	12.7	0.85
1	1305	Hazel	27.84	224.04	225.54		225.8	0.012551	2.9	14.26	12.15	0.77
1	1305	Hazel w CC	33.77	224.04	225.68		225.99	0.013079	3.14	15.95	12.38	0.79
1	1279	100 Year	36.79	223.46	225.2	225.2	225.68	0.015307	3.91	15.22	14.98	0.96
1	1279	100 Year w C	43.5	223.46	225.32	225.32	225.84	0.015166	4.08	17.15	15.49	0.97
1	1279	Hazel	27.84	223.46	225.02	225.02	225.43	0.014841	3.58	12.59	14.29	0.93
1	1279	Hazel w CC	33.77	223.46	225.13	225.13	225.6	0.015459	3.83	14.25	14.71	0.96
1	1267	100 Year	36.79	223.27	224.85	224.85	225.28	0.016675	3.31	13.83	16.53	0.87
1	1267	100 Year w C	43.5	223.27	224.96	224.96	225.43	0.017036	3.51	15.58	16.91	0.89
1	1267	Hazel	27.84	223.27	224.69	224.69	225.06	0.016335	3.03	11.22	15.74	0.85
1	1267	Hazel w CC	33.77	223.27	224.8	224.8	225.21	0.01684	3.24	12.9	16.29	0.87
1	1257	100 Year	36.79	223.12	224.7	224.63	225.01	0.015907	2.88	17.37	21.27	0.77
1	1257	100 Year w C	43.5	223.12	224.82		225.14	0.015533	3	19.88	21.96	0.77
1	1257	Hazel	27.84	223.12	224.63		224.84	0.011706	2.38	15.79	20.93	0.66
1	1257	Hazel w CC	33.77	223.12	224.67		224.95	0.014772	2.74	16.74	21.13	0.74
1	1250	100 Year	36.79	222.97	224.67	224.63	224.89	0.011346	2.65	24.64	41.13	0.68
1	1250	100 Year w C	43.5	222.97	224.86		225.02	0.007787	2.37	32.61	42.21	0.58
1	1250	Hazel	27.84	222.97	224.52	224.52	224.76	0.01192	2.54	18.88	39.99	0.69
1	1250	Hazel w CC	33.77	222.97	224.6	224.6	224.85	0.012788	2.72	21.79	40.77	0.72
1	1240	100 Year	36.79	222.79	224.57		224.79	0.008855	2.51	24.48	37.39	0.62
1	1240	100 Year w C	43.5	222.79	224.79		224.95	0.006208	2.28	32.9	39.68	0.53
1	1240	Hazel	27.84	222.79	224.27	224.26	224.57	0.013562	2.72	15.14	23.96	0.74
1	1240	Hazel w CC	33.77	222.79	224.47	224.32	224.72	0.010305	2.6	20.81	34.93	0.66
1	1228	100 Year	36.79	222.78	224.57		224.69	0.004409	1.92	29.12	25.79	0.47
1	1228	100 Year w C	43.5	222.78	224.76		224.88	0.004029	1.97	34.33	28.74	0.46
1	1228	Hazel	27.84	222.78	224.3		224.41	0.005199	1.86	22.49	23.87	0.5
1	1228	Hazel w CC	33.77	222.78	224.48		224.6	0.004623	1.89	26.89	24.91	0.48
1	1212	100 Year	36.79	222.57	224.52		224.61	0.004011	1.61	31.16	25.3	0.38
1	1212	100 Year w C	43.5	222.57	224.72		224.81	0.003568	1.63	36.21	25.92	0.37
1	1212	Hazel	27.84	222.57	224.24		224.33	0.004968	1.6	24.12	24.34	0.41
1	1212	Hazel w CC	33.77	222.57	224.43		224.52	0.004275	1.6	28.83	25.02	0.39
1	1196	100 Year	36.79	222.54	224.45		224.56	0.002805	1.81	30.71	23.83	0.43
1	1196	100 Year w C	43.5	222.54	224.65		224.76	0.002602	1.87	35.55	24.79	0.42
1	1196	Hazel	27.84	222.54	224.16		224.26	0.003206	1.73	24.03	22.46	0.44
1	1196	Hazel w CC	33.77	222.54	224.36		224.46	0.002921	1.78	28.48	23.39	0.43
1	1183	100 Year	36.79	222.26	224.43		224.52	0.001634	1.66	35.49	23.29	0.37
1	1183	100 Year w C	43.5	222.26	224.63		224.73	0.001615	1.75	40.15	23.92	0.37
1	1183	Hazel	27.84	222.26	224.14		224.22	0.001663	1.52	28.94	22.53	0.36
1	1183	Hazel w CC	33.77	222.26	224.34		224.43	0.001645	1.61	33.33	23.04	0.37
1	1168	100 Year	36.79	222.26	224.43		224.49	0.001368	1.49	42.46	26.83	0.33
1	1168	100 Year w C	43.5	222.26	224.63		224.7	0.001335	1.56	47.89	27.43	0.33
1	1168	Hazel	27.84	222.26	224.14		224.19	0.001423	1.38	34.81	25.98	0.32
1	1168	Hazel w CC	33.77	222.26	224.33		224.4	0.001386	1.45	39.94	26.56	0.33
1	1150	100 Year	36.79	222.03	224.36		224.45	0.003224	1.74	31.16	20.47	0.37
1	1150	100 Year w C	43.5	222.03	224.56		224.66	0.003127	1.81	35.3	21.26	0.37
1	1150	Hazel	27.84	222.03	224.07		224.16	0.003366	1.62	25.42	19.48	0.37
1	1150	Hazel w CC	33.77	222.03	224.27		224.36	0.003269	1.7	29.25	20.11	0.37
1	1141	100 Year	36.79	221.94	224.05		224.38	0.008994	3.05	17.27	13.24	0.69
1	1141	100 Year w C	43.5	221.94	224.24		224.59	0.008554	3.16	19.82	13.89	0.68
1	1141	Hazel	27.84	221.94	223.79		224.09	0.009362	2.84	13.92	12.34	0.68
1	1141	Hazel w CC	33.77	221.94	223.96		224.29	0.009165	2.99	16.13	12.94	0.69

Bunkers Creek - Flood Flow Scenarios												
1	1124	100 Year	36.79	221.82	224.02		224.24	0.00499	2.33	20.85	15.72	0.53
1	1124	100 Year w C	43.5	221.82	224.22		224.45	0.004717	2.41	24.06	16.54	0.52
1	1124	Hazel	27.84	221.82	223.74		223.94	0.00535	2.17	16.6	14.79	0.53
1	1124	Hazel w CC	33.77	221.82	223.93		224.14	0.005124	2.28	19.41	15.42	0.53
1	1107	100 Year	36.79	221.83	223.98		224.14	0.004227	2.05	22.99	17.28	0.45
1	1107	100 Year w C	43.5	221.83	224.19		224.35	0.003937	2.11	26.64	17.9	0.44
1	1107	Hazel	27.84	221.83	223.69		223.84	0.004649	1.95	18.11	16.17	0.46
1	1107	Hazel w CC	33.77	221.83	223.88		224.04	0.004373	2.02	21.34	16.94	0.46
1	1088	100 Year	36.79	221.8	223.93		224.07	0.0029	1.98	27.02	19.71	0.45
1	1088	100 Year w C	43.5	221.8	224.14		224.28	0.002701	2.04	31.28	20.42	0.44
1	1088	Hazel	27.84	221.8	223.63		223.76	0.00325	1.89	21.21	18.76	0.46
1	1088	Hazel w CC	33.77	221.8	223.83		223.96	0.003014	1.95	25.06	19.39	0.45
1	1072	100 Year	36.79	221.55	223.95		224.01	0.001638	1.26	39.13	25.97	0.26
1	1072	100 Year w C	43.5	221.55	224.17		224.23	0.001552	1.3	44.82	26.64	0.26
1	1072	Hazel	27.84	221.55	223.65		223.69	0.001763	1.19	31.32	24.83	0.27
1	1072	Hazel w CC	33.77	221.55	223.85		223.9	0.001683	1.24	36.49	25.62	0.27
1	1067	100 Year	36.79	221.52	223.96		224	0.001395	1.09	43.68	28.59	0.23
1	1067	100 Year w C	43.5	221.52	224.17		224.22	0.001319	1.13	49.97	29.29	0.23
1	1067	Hazel	27.84	221.52	223.65		223.68	0.001525	1.03	35	27.67	0.23
1	1067	Hazel w CC	33.77	221.52	223.85		223.89	0.001439	1.07	40.76	28.28	0.23
1	1055	100 Year	39.38	221.42	223.91		223.98	0.001363	1.55	44.13	33.57	0.32
1	1055	100 Year w C	46.88	221.42	224.12		224.2	0.001294	1.61	52.2	38.76	0.32
1	1055	Hazel	29.71	221.42	223.6		223.66	0.001399	1.44	35.18	27.04	0.32
1	1055	Hazel w CC	36.02	221.42	223.8		223.87	0.001387	1.52	40.85	29.71	0.32
1	1038	100 Year	39.38	221.4	223.89		223.94	0.001897	1.18	44.26	32.33	0.25
1	1038	100 Year w C	46.88	221.4	224.11		224.17	0.001748	1.2	51.53	33.91	0.24
1	1038	Hazel	29.71	221.4	223.58		223.63	0.002221	1.15	34.48	30.51	0.26
1	1038	Hazel w CC	36.02	221.4	223.79		223.84	0.001979	1.16	40.94	31.58	0.25
1	1024	100 Year	39.38	221.23	223.84		223.91	0.002363	1.48	35.45	25.02	0.3
1	1024	100 Year w C	46.88	221.23	224.06		224.14	0.002238	1.52	41.04	25.75	0.3
1	1024	Hazel	29.71	221.23	223.52		223.59	0.002595	1.41	27.77	23.8	0.31
1	1024	Hazel w CC	36.02	221.23	223.73		223.81	0.002431	1.45	32.86	24.7	0.3
1	1007	100 Year	39.38	221.38	223.69		223.85	0.003506	2.31	28.12	17.91	0.49
1	1007	100 Year w C	46.88	221.38	223.9		224.08	0.00346	2.44	31.94	18.59	0.5
1	1007	Hazel	29.71	221.38	223.39		223.53	0.003591	2.13	22.9	17.05	0.49
1	1007	Hazel w CC	36.02	221.38	223.59		223.75	0.003526	2.25	26.36	17.61	0.49
1	990	100 Year	39.38	221.21	223.1	223.1	223.71	0.014723	3.78	13.25	11.13	0.9
1	990	100 Year w C	46.88	221.21	223.26	223.26	223.93	0.014682	3.99	15.04	11.7	0.91
1	990	Hazel	29.71	221.21	222.83	222.83	223.38	0.016357	3.58	10.39	9.97	0.92
1	990	Hazel w CC	36.02	221.21	223.02	223.02	223.6	0.014875	3.69	12.38	10.81	0.89
1	968	100 Year	39.38	221.07	222.95		223.11	0.010225	2.27	25.65	24.19	0.55
1	968	100 Year w C	46.88	221.07	223.1		223.27	0.009656	2.33	29.39	24.76	0.54
1	968	Hazel	29.71	221.07	222.79		222.92	0.009332	2.03	21.85	23.5	0.52
1	968	Hazel w CC	36.02	221.07	222.94		223.07	0.008915	2.1	25.3	24.13	0.51
1	953	100 Year	39.38	220.99	222.96		223	0.002449	1.21	49.51	41.35	0.29
1	953	100 Year w C	46.88	220.99	223.12		223.17	0.002333	1.25	56.14	41.83	0.28
1	953	Hazel	29.71	220.99	222.8		222.83	0.00223	1.09	42.6	40.86	0.27
1	953	Hazel w CC	36.02	220.99	222.95		222.98	0.002145	1.13	48.79	41.3	0.27
1	935	100 Year	39.38	220.96	222.96		222.98	0.000568	0.77	77.72	116.76	0.18
1	935	100 Year w C	46.88	220.96	223.12		223.14	0.000574	0.82	86.6	122.29	0.18
1	935	Hazel	29.71	220.96	222.79		222.8	0.000482	0.67	68.58	113.22	0.16
1	935	Hazel w CC	36.02	220.96	222.95		222.96	0.000494	0.71	76.77	116.44	0.17
1	904	100 Year	39.38	220.93	222.92		222.95	0.001079	1.28	68.01	115.01	0.31

Bunkers Creek - Flood Flow Scenarios												
1	904	100 Year w C	46.88	220.93	223.08		223.12	0.000985	1.3	79.17	119.03	0.3
1	904	Hazel	29.71	220.93	222.75		222.78	0.001018	1.17	56.83	109.24	0.29
1	904	Hazel w CC	36.02	220.93	222.91		222.94	0.000933	1.19	67.23	114.66	0.29
1	890	100 Year	39.38	220.9	222.91		222.94	0.000806	1.06	66.44	83.62	0.25
1	890	100 Year w C	46.88	220.9	223.07		223.1	0.000774	1.1	75.98	85.07	0.25
1	890	Hazel	29.71	220.9	222.75		222.77	0.0007	0.93	57.04	81.37	0.23
1	890	Hazel w CC	36.02	220.9	222.9		222.92	0.000692	0.98	65.86	83.55	0.23
1	875	100 Year	39.38	220.95	222.9		222.93	0.00066	0.97	66.49	60.03	0.23
1	875	100 Year w C	46.88	220.95	223.06		223.09	0.000664	1.03	74.65	61.87	0.23
1	875	Hazel	29.71	220.95	222.74		222.76	0.000548	0.84	58.56	58.4	0.21
1	875	Hazel w CC	36.02	220.95	222.89		222.91	0.000563	0.89	66.06	59.91	0.21
1	858	100 Year	52.31	221.15	222.78		222.89	0.00755	1.92	41.99	43.96	0.49
1	858	100 Year w C	62.56	221.15	222.95		223.05	0.006805	1.95	49.37	45.32	0.47
1	858	Hazel	42.22	221.15	222.63		222.72	0.00779	1.81	35.21	41.35	0.49
1	858	Hazel w CC	51.23	221.15	222.78		222.88	0.007413	1.9	41.65	43.89	0.48
1	844	100 Year	52.31	221.13	222.81		222.84	0.000935	1.05	78.4	222.06	0.27
1	844	100 Year w C	62.56	221.13	222.97		223	0.000951	1.13	87.67	227.41	0.28
1	844	Hazel	42.22	221.13	222.65		222.67	0.00087	0.94	69.58	214.98	0.25
1	844	Hazel w CC	51.23	221.13	222.8		222.83	0.000913	1.03	77.93	221.78	0.26
1	832	100 Year	52.31	220.92	222.8		222.83	0.0005	0.95	93.06	149.66	0.23
1	832	100 Year w C	62.56	220.92	222.97		222.99	0.000527	1.04	103.17	151.32	0.23
1	832	Hazel	42.22	220.92	222.65		222.66	0.00045	0.85	83.5	148.14	0.21
1	832	Hazel w CC	51.23	220.92	222.79		222.82	0.000487	0.94	92.56	149.53	0.22
1	803	100 Year	54.24	220.98	222.78		222.81	0.000818	0.92	77.22	53.74	0.22
1	803	100 Year w C	64.9	220.98	222.94		222.97	0.000855	1	86.09	55.94	0.23
1	803	Hazel	43.95	220.98	222.62		222.65	0.00075	0.83	68.96	52.26	0.21
1	803	Hazel w CC	53.38	220.98	222.77		222.8	0.000806	0.91	76.79	53.66	0.22
1	787	100 Year	54.24	220.95	222.78		222.8	0.000283	0.64	119.39	75.62	0.15
1	787	100 Year w C	64.9	220.95	222.95		222.96	0.000299	0.69	131.88	77.14	0.16
1	787	Hazel	43.95	220.95	222.63		222.64	0.000255	0.57	107.64	74.02	0.14
1	787	Hazel w CC	53.38	220.95	222.78		222.79	0.000278	0.63	118.78	75.52	0.15
1	760	100 Year	54.24	220.9	222.78		222.79	0.000196	0.56	139.33	92.02	0.13
1	760	100 Year w C	64.9	220.9	222.94		222.95	0.00021	0.61	154.62	94.69	0.14
1	760	Hazel	43.95	220.9	222.62		222.63	0.000175	0.5	125.74	83.32	0.12
1	760	Hazel w CC	53.38	220.9	222.77		222.78	0.000193	0.55	138.59	91.68	0.13
1	713	100 Year	54.24	220.85	222.57		222.75	0.003192	2.11	34.58	37.45	0.53
1	713	100 Year w C	64.9	220.85	222.71		222.91	0.003382	2.29	40.03	42.25	0.56
1	713	Hazel	43.95	220.85	222.45		222.6	0.002841	1.89	30.46	31.34	0.5
1	713	Hazel w CC	53.38	220.85	222.57		222.74	0.003112	2.08	34.48	37.37	0.53
1	682	100 Year	54.24	219.92	222.36		222.62	0.004759	2.39	26.89	22.03	0.5
1	682	100 Year w C	64.9	219.92	222.39		222.75	0.006408	2.81	27.7	22.85	0.58
1	682	Hazel	43.95	219.92	222.31		222.5	0.003374	1.99	25.92	21.47	0.42
1	682	Hazel w CC	53.38	219.92	222.37		222.62	0.004544	2.34	27.07	22.13	0.49
1	652	100 Year	54.24	219.79	222.37		222.49	0.002113	2.02	44.48	48.08	0.41
1	652	100 Year w C	64.9	219.79	222.41		222.57	0.002804	2.35	46.75	53.65	0.47
1	652	Hazel	43.95	219.79	222.32		222.4	0.00151	1.68	42.23	42.13	0.34
1	652	Hazel w CC	53.38	219.79	222.38		222.49	0.002014	1.98	44.9	49.05	0.4
1	621	100 Year	56.17	219.66	222.38		222.43	0.000735	1.43	83.08	79.46	0.28
1	621	100 Year w C	67.03	219.66	222.44		222.5	0.000944	1.64	87.44	85.29	0.32
1	621	Hazel	47.22	219.66	222.33		222.36	0.00058	1.25	78.49	72.4	0.25
1	621	Hazel w CC	57.38	219.66	222.39		222.43	0.000761	1.46	83.39	79.5	0.29
1	577	100 Year	56.17	219.65	222.19	222.16	222.34	0.002846	2.28	53.93	118.08	0.47
1	577	100 Year w C	67.03	219.65	222.29	222.21	222.42	0.002399	2.15	66.33	121.79	0.44
1	577	Hazel	47.22	219.65	222.16	222.1	222.29	0.002345	2.05	50.52	114.77	0.43

Bunkers Creek - Flood Flow Scenarios												
1	577	Hazel w CC	57.38	219.65	222.23	222.17	222.36	0.002465	2.14	58.37	120.63	0.44
1	Innisfil Street		Culvert									
1	543	100 Year	56.17	219.46	222.11	222.11	222.29	0.002667	2.42	42.16	106.51	0.53
1	543	100 Year w C	67.03	219.46	222.16	222.16	222.34	0.002798	2.51	48.21	108.91	0.54
1	543	Hazel	47.22	219.46	222.06	222.06	222.23	0.002497	2.32	36.9	103.5	0.51
1	543	Hazel w CC	57.38	219.46	222.11	222.11	222.29	0.002697	2.44	42.78	106.8	0.53
1	520	100 Year	56.17	219.36	221.67	221.67	221.91	0.005061	2.79	32.21	71.22	0.6
1	520	100 Year w C	67.03	219.36	221.78	221.78	221.98	0.004289	2.66	41.27	85.91	0.56
1	520	Hazel	47.22	219.36	221.56	221.56	221.82	0.005546	2.82	26.31	47.78	0.62
1	520	Hazel w CC	57.38	219.36	221.67	221.67	221.92	0.005247	2.84	32.32	71.85	0.61
1	494	100 Year	56.17	219.3	221.37	221.3	221.59	0.004699	2.54	32.18	58.32	0.57
1	494	100 Year w C	67.03	219.3	221.47	221.43	221.67	0.004146	2.47	38.4	61.71	0.54
1	494	Hazel	47.22	219.3	221.3	221.14	221.5	0.004353	2.38	28.18	50.71	0.55
1	494	Hazel w CC	57.38	219.3	221.4	221.33	221.6	0.004377	2.47	33.68	59.44	0.55
1	469	100 Year	56.17	219.33	221.19	221.19	221.43	0.007335	2.54	26.96	49.94	0.62
1	469	100 Year w C	67.03	219.33	221.25	221.25	221.53	0.007459	2.62	29.83	50.8	0.63
1	469	Hazel	47.22	219.33	221.13	221.13	221.35	0.007192	2.46	24.21	47.65	0.61
1	469	Hazel w CC	57.38	219.33	221.18	221.18	221.45	0.007913	2.63	26.68	49.76	0.65
1	443	100 Year	55.96	219.28	221.18		221.29	0.001855	1.25	39.11	60.03	0.29
1	443	100 Year w C	66.38	219.28	221.28		221.4	0.001644	1.22	44.92	61.81	0.28
1	443	Hazel	47.46	219.28	221.1		221.2	0.00188	1.22	34.48	54.7	0.29
1	443	Hazel w CC	57.68	219.28	221.19		221.31	0.001858	1.26	39.82	60.33	0.29
1	427	100 Year	55.96	219.27	221.18	220.86	221.25	0.001401	1.38	50.31	77.56	0.32
1	427	100 Year w C	66.38	219.27	221.28	220.93	221.35	0.001223	1.33	58.44	81.45	0.3
1	427	Hazel	47.46	219.27	221.09	220.8	221.16	0.001544	1.4	43.8	74.49	0.34
1	427	Hazel w CC	57.68	219.27	221.19	220.87	221.26	0.001392	1.38	51.3	77.76	0.32
1	Commercial Entra		Culvert									
1	402	100 Year	55.96	219.07	220.91	220.91	221.23	0.011739	3.27	28.25	39.18	0.79
1	402	100 Year w C	66.38	219.07	220.98	220.98	221.34	0.012995	3.53	31.01	40.2	0.84
1	402	Hazel	47.46	219.07	220.86	220.84	221.13	0.010115	2.98	26.37	38.81	0.73
1	402	Hazel w CC	57.68	219.07	220.92	220.92	221.25	0.01198	3.32	28.69	39.31	0.8
1	382	100 Year	55.96	218.93	221		221.03	0.001223	1.17	79.63	99.97	0.27
1	382	100 Year w C	66.38	218.93	221.07		221.1	0.001327	1.25	86.79	101.94	0.28
1	382	Hazel	47.46	218.93	220.93		220.96	0.001122	1.09	73.44	98.7	0.26
1	382	Hazel w CC	57.68	218.93	221.01		221.04	0.001228	1.18	81.14	100.37	0.27
1	358	100 Year	55.96	218.99	220.96	220.49	221	0.001353	1.19	76.98	97.68	0.28
1	358	100 Year w C	66.38	218.99	221.03	220.57	221.07	0.00148	1.27	83.6	98.63	0.3
1	358	Hazel	47.46	218.99	220.9	220.46	220.93	0.001228	1.11	71.26	96.25	0.27
1	358	Hazel w CC	57.68	218.99	220.98	220.54	221.01	0.001357	1.2	78.45	97.83	0.28
1	328	100 Year	57.61	218.85	220.92	220.48	220.95	0.001419	1.13	76.15	106.07	0.27
1	328	100 Year w C	68.41	218.85	220.98	220.53	221.02	0.001522	1.2	82.93	107.94	0.28
1	328	Hazel	49.11	218.85	220.86	220.44	220.89	0.001296	1.06	70.42	103.33	0.26
1	328	Hazel w CC	59.81	218.85	220.93	220.5	220.97	0.001438	1.15	77.64	106.46	0.27
1	303	100 Year	57.61	218.78	220.8	220.68	220.89	0.002402	1.68	56.5	110.25	0.4
1	303	100 Year w C	68.41	218.78	220.85	220.72	220.95	0.002589	1.78	61.91	111.39	0.41
1	303	Hazel	49.11	218.78	220.76	220.64	220.84	0.002198	1.58	52.03	108.28	0.38
1	303	Hazel w CC	59.81	218.78	220.81	220.68	220.9	0.002422	1.7	57.81	110.9	0.4
1	Bradford Street		Culvert									
1	274.9	100 Year	57.61	218.67	220.61	220.61	220.79	0.004544	2.22	31.68	91.91	0.54
1	274.9	100 Year w C	68.41	218.67	220.66	220.66	220.85	0.004257	2.19	36.37	96.06	0.52
1	274.9	Hazel	49.11	218.67	220.58	220.58	220.74	0.004393	2.15	28.56	87.25	0.53
1	274.9	Hazel w CC	59.81	218.67	220.62	220.62	220.8	0.004476	2.21	32.62	92.26	0.53

Bunkers Creek - Flood Flow Scenarios												
1	239.3	100 Year	57.61	218.77	220.35	219.99	220.38	0.000689	0.66	72.18	118.32	0.17
1	239.3	100 Year w C	68.41	218.77	220.4	220.03	220.44	0.000743	0.7	78.74	124.37	0.18
1	239.3	Hazel	49.11	218.77	220.31	219.95	220.34	0.000597	0.6	68.13	116.37	0.16
1	239.3	Hazel w CC	59.81	218.77	220.37	220	220.4	0.000664	0.65	74.89	120.04	0.17
1	214	100 Year	57.61	218.74	220.31	220.08	220.35	0.001681	1.01	69.22	163.98	0.27
1	214	100 Year w C	68.41	218.74	220.37	220.12	220.42	0.001586	1.01	78.93	172.22	0.26
1	214	Hazel	49.11	218.74	220.28	220.03	220.32	0.001551	0.96	63.94	159.42	0.26
1	214	Hazel w CC	59.81	218.74	220.34	220.08	220.38	0.001496	0.97	73.71	169.61	0.25
1	184	100 Year	55.53	218.69	220.28	219.59	220.3	0.001458	0.99	100.18	161.47	0.26
1	184	100 Year w C	66.28	218.69	220.34	219.71	220.36	0.001632	1.08	109.51	176.7	0.28
1	184	Hazel	49.29	218.69	220.25	219.61	220.27	0.001333	0.94	95.16	160.39	0.25
1	184	Hazel w CC	60.08	218.69	220.31	219.68	220.33	0.001507	1.02	104.54	165.22	0.26
1	168.01	100 Year	55.53	218.74	220.26	219.57	220.28	0.001324	0.91	100.31	158.37	0.24
1	168.01	100 Year w C	66.28	218.74	220.32	219.62	220.34	0.001513	0.99	107.92	167.3	0.26
1	168.01	Hazel	49.29	218.74	220.23	219.54	220.25	0.001099	0.82	96.43	150.27	0.22
1	168.01	Hazel w CC	60.08	218.74	220.29	219.58	220.31	0.001391	0.94	103.92	163.8	0.25
1	146.6	100 Year	55.53	218.76	220.26	219.34	220.26	0.000397	0.56	141.55	130.14	0.15
1	146.6	100 Year w C	66.28	218.76	220.31	219.37	220.32	0.000504	0.64	148.43	134.14	0.17
1	146.6	Hazel	49.29	218.76	220.23	219.31	220.24	0.000337	0.51	138.08	129.39	0.14
1	146.6	Hazel w CC	60.08	218.76	220.28	219.35	220.29	0.000435	0.59	144.83	130.98	0.16
1	123.1	100 Year	55.53	218.65	220.25		220.26	0.000233	0.47	148.4	133.23	0.12
1	123.1	100 Year w C	66.28	218.65	220.3		220.31	0.000301	0.54	155.16	135.97	0.14
1	123.1	Hazel	49.29	218.65	220.22		220.23	0.000196	0.42	145.01	130.73	0.11
1	123.1	Hazel w CC	60.08	218.65	220.27		220.28	0.000258	0.5	151.67	134.4	0.13
1	86.8	100 Year	55.83	218.68	220.24		220.25	0.000138	0.37	176.04	150.23	0.1
1	86.8	100 Year w C	66.52	218.68	220.29		220.3	0.000174	0.42	183.45	152.76	0.11
1	86.8	Hazel	50.08	218.68	220.22		220.22	0.000118	0.33	172.28	149.51	0.09
1	86.8	Hazel w CC	60.96	218.68	220.27		220.27	0.000155	0.39	179.61	151.01	0.1
1	55.6	100 Year	55.83	218.31	220.2	219.47	220.23	0.000839	1	112.33	281.2	0.28
1	55.6	100 Year w C	66.52	218.31	220.25	219.9	220.28	0.00097	1.1	124.72	292.86	0.3
1	55.6	Hazel	50.08	218.31	220.18	219.39	220.21	0.000746	0.93	106.67	266.08	0.26
1	55.6	Hazel w CC	60.96	218.31	220.22	219.86	220.26	0.000918	1.06	118	288.61	0.29
1	36	Lakeshore	Bridge									
1	19.9	100 Year	55.83	218.66	220	220	220.09	0.007584	1.66	51.55	286.02	0.57
1	19.9	100 Year w C	66.52	218.66	220.03	220.03	220.12	0.007109	1.65	60.79	296.82	0.56
1	19.9	Hazel	50.08	218.66	220	220	220.08	0.006054	1.48	51.72	286.12	0.51
1	19.9	Hazel w CC	60.96	218.66	220.01	220.01	220.11	0.007815	1.7	54.69	287.71	0.58
1	5	100 Year	55.83	218.01	219.55	219.55	219.7	0.004223	1.94	40.59	145.77	0.62
1	5	100 Year w C	66.52	218.01	219.59	219.59	219.76	0.004756	2.1	46.53	163.44	0.66
1	5	Hazel	50.08	218.01	219.53	219.53	219.67	0.00402	1.87	36.97	133.07	0.61
1	5	Hazel w CC	60.96	218.01	219.58	219.58	219.73	0.004352	1.99	43.9	155.95	0.63
1	2	Pedestrian Bridg	Culvert									
1	0	100 Year	55.83	218.01	219.47	219.47	219.6	0.006137	1.84	50.82	230.16	0.67
1	0	100 Year w C	66.52	218.01	219.52	219.52	219.64	0.0055	1.83	63.67	249.87	0.64
1	0	Hazel	50.08	218.01	219.45	219.45	219.57	0.005594	1.74	47.59	216.24	0.64
1	0	Hazel w CC	60.96	218.01	219.51	219.51	219.62	0.005385	1.78	59.3	241.71	0.63
1	-21	100 Year	55.83	218	219.13	218.18	219.13	0.000105	0.2	277.1	247.1	0.06
1	-21	100 Year w C	66.52	218	219.13	218.2	219.13	0.000149	0.24	277.1	247.1	0.07
1	-21	Hazel	50.08	218	219.13	218.16	219.13	0.000085	0.18	277.1	247.1	0.05
1	-21	Hazel w CC	60.96	218	219.13	218.18	219.13	0.000125	0.22	277.1	247.1	0.07

Bunkers Creek - Gauged Flow Scenarios

Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
			(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
1	1305	2016-06-05	1.14	224.04	224.35		224.4	0.017422	1.11	1.43	7.53	0.68
1	1305	2018-04-13	1.45	224.04	224.4		224.45	0.014839	1.14	1.81	8.13	0.65
1	1305	2022-06-12	1.59	224.04	224.42		224.47	0.014033	1.16	1.98	8.37	0.63
1	1279	2016-06-05	1.14	223.46	223.81		223.92	0.018908	1.46	0.83	3.23	0.83
1	1279	2018-04-13	1.45	223.46	223.85	223.83	223.98	0.020903	1.65	0.95	3.37	0.89
1	1279	2022-06-12	1.59	223.46	223.86	223.85	224.01	0.021659	1.72	1	3.43	0.91
1	1267	2016-06-05	1.14	223.27	223.66		223.71	0.013405	0.96	1.21	4.88	0.58
1	1267	2018-04-13	1.45	223.27	223.7		223.76	0.013356	1.05	1.41	5.08	0.59
1	1267	2022-06-12	1.59	223.27	223.72		223.78	0.013538	1.09	1.49	5.16	0.6
1	1257	2016-06-05	1.14	223.12	223.5	223.44	223.54	0.018922	0.94	1.21	5.49	0.63
1	1257	2018-04-13	1.45	223.12	223.53		223.59	0.020391	1.06	1.38	5.62	0.67
1	1257	2022-06-12	1.59	223.12	223.54		223.6	0.020646	1.1	1.46	5.68	0.68
1	1250	2016-06-05	1.14	222.97	223.29	223.27	223.37	0.033247	1.23	0.93	4.67	0.88
1	1250	2018-04-13	1.45	222.97	223.34		223.42	0.028057	1.25	1.16	4.87	0.82
1	1250	2022-06-12	1.59	222.97	223.36		223.44	0.026511	1.27	1.25	4.92	0.8
1	1240	2016-06-05	1.14	222.79	223.23		223.25	0.004789	0.63	1.81	5.51	0.35
1	1240	2018-04-13	1.45	222.79	223.28		223.3	0.00487	0.69	2.1	5.71	0.36
1	1240	2022-06-12	1.59	222.79	223.3		223.33	0.004964	0.72	2.21	5.79	0.37
1	1228	2016-06-05	1.14	222.78	223.16		223.19	0.005351	0.67	1.7	5.77	0.39
1	1228	2018-04-13	1.45	222.78	223.21		223.24	0.00547	0.73	2	6.03	0.4
1	1228	2022-06-12	1.59	222.78	223.23		223.26	0.005479	0.75	2.11	6.13	0.41
1	1212	2016-06-05	1.14	222.57	223.06	222.89	223.09	0.00708	0.71	1.66	6.7	0.39
1	1212	2018-04-13	1.45	222.57	223.11	222.93	223.14	0.007284	0.78	1.99	7.43	0.4
1	1212	2022-06-12	1.59	222.57	223.13	222.94	223.16	0.007374	0.81	2.13	7.64	0.4
1	1196	2016-06-05	1.14	222.54	222.78	222.78	222.87	0.031066	1.35	0.85	4.66	1.01
1	1196	2018-04-13	1.45	222.54	222.82	222.82	222.92	0.029896	1.44	1.01	4.85	1.01
1	1196	2022-06-12	1.59	222.54	222.83	222.83	222.94	0.029387	1.47	1.08	4.93	1.01
1	1183	2016-06-05	1.14	222.26	222.67		222.69	0.002013	0.55	2.24	8.41	0.31
1	1183	2018-04-13	1.45	222.26	222.72		222.74	0.001911	0.59	2.69	8.61	0.3
1	1183	2022-06-12	1.59	222.26	222.74		222.76	0.001877	0.6	2.88	8.69	0.3
1	1168	2016-06-05	1.14	222.26	222.61		222.64	0.004866	0.8	1.5	5.77	0.45
1	1168	2018-04-13	1.45	222.26	222.66		222.7	0.004546	0.85	1.87	8.76	0.45
1	1168	2022-06-12	1.59	222.26	222.68		222.72	0.004357	0.87	2.08	9.41	0.44
1	1150	2016-06-05	1.14	222.03	222.49		222.53	0.008643	0.82	1.39	4.3	0.45
1	1150	2018-04-13	1.45	222.03	222.55		222.59	0.008541	0.9	1.63	4.6	0.46
1	1150	2022-06-12	1.59	222.03	222.57		222.61	0.00851	0.94	1.74	4.81	0.46
1	1141	2016-06-05	1.14	221.94	222.44		222.47	0.004991	0.78	1.5	4.2	0.4
1	1141	2018-04-13	1.45	221.94	222.49		222.53	0.005331	0.88	1.72	4.36	0.42
1	1141	2022-06-12	1.59	221.94	222.51		222.55	0.005457	0.91	1.81	4.43	0.42
1	1124	2016-06-05	1.14	221.82	222.36		222.38	0.004843	0.65	1.76	5.43	0.35
1	1124	2018-04-13	1.45	221.82	222.41		222.44	0.00475	0.72	2.05	5.63	0.36
1	1124	2022-06-12	1.59	221.82	222.43		222.46	0.004709	0.74	2.18	5.72	0.37
1	1107	2016-06-05	1.14	221.83	222.29		222.31	0.003599	0.64	1.85	5.28	0.32
1	1107	2018-04-13	1.45	221.83	222.34		222.36	0.003895	0.72	2.12	5.51	0.34
1	1107	2022-06-12	1.59	221.83	222.36		222.39	0.003979	0.75	2.23	5.62	0.34
1	1088	2016-06-05	1.14	221.8	222.13		222.19	0.012041	1.1	1.03	4.75	0.76
1	1088	2018-04-13	1.45	221.8	222.19		222.25	0.009411	1.08	1.34	5.15	0.67
1	1088	2022-06-12	1.59	221.8	222.22		222.28	0.008555	1.08	1.48	5.27	0.63

Bunkers Creek - Gauged Flow Scenarios

1	1072	2016-06-05	1.14	221.55	222.08		222.09	0.002915	0.55	2.07	5	0.27
1	1072	2018-04-13	1.45	221.55	222.14		222.16	0.002939	0.61	2.43	6.5	0.27
1	1072	2022-06-12	1.59	221.55	222.17		222.19	0.002884	0.63	2.63	7.25	0.27
1	1067	2016-06-05	1.14	221.52	222.02		222.06	0.010992	0.89	1.32	4.52	0.47
1	1067	2018-04-13	1.45	221.52	222.09		222.13	0.009415	0.92	1.64	5.05	0.45
1	1067	2022-06-12	1.59	221.52	222.12		222.16	0.009513	0.96	1.8	7.13	0.46
1	1055	2016-06-05	1.14	221.42	222.02		222.03	0.000803	0.42	2.81	6.67	0.19
1	1055	2018-04-13	1.45	221.42	222.09		222.1	0.000827	0.47	3.27	6.94	0.2
1	1055	2022-06-12	1.59	221.42	222.12		222.13	0.00084	0.49	3.46	7.06	0.2
1	1038	2016-06-05	1.14	221.4	221.93		221.99	0.021406	1.11	1.04	3.22	0.6
1	1038	2018-04-13	1.45	221.4	221.98		222.06	0.020153	1.19	1.25	3.79	0.6
1	1038	2022-06-12	1.59	221.4	222.01		222.08	0.019684	1.22	1.35	3.93	0.6
1	1024	2016-06-05	1.14	221.23	221.88		221.89	0.002694	0.54	2.16	5.06	0.25
1	1024	2018-04-13	1.45	221.23	221.94		221.96	0.002834	0.6	2.53	6.58	0.26
1	1024	2022-06-12	1.59	221.23	221.96		221.98	0.00288	0.62	2.7	6.87	0.26
1	1007	2016-06-05	1.14	221.38	221.77		221.81	0.008024	0.98	1.2	4.13	0.55
1	1007	2018-04-13	1.45	221.38	221.82		221.88	0.007428	1.05	1.44	4.56	0.54
1	1007	2022-06-12	1.59	221.38	221.85		221.9	0.007224	1.07	1.57	5.89	0.54
1	990	2016-06-05	1.14	221.21	221.71		221.73	0.002856	0.63	1.84	4.73	0.31
1	990	2018-04-13	1.45	221.21	221.77		221.8	0.002965	0.7	2.12	4.9	0.32
1	990	2022-06-12	1.59	221.21	221.8		221.82	0.003017	0.73	2.24	5.07	0.33
1	968	2016-06-05	1.14	221.07	221.62		221.64	0.006684	0.7	1.63	4	0.35
1	968	2018-04-13	1.45	221.07	221.67		221.7	0.007479	0.8	1.83	4.15	0.37
1	968	2022-06-12	1.59	221.07	221.69		221.72	0.007821	0.84	1.91	4.21	0.39
1	953	2016-06-05	1.14	220.99	221.55		221.57	0.003415	0.55	2.29	8.02	0.27
1	953	2018-04-13	1.45	220.99	221.59		221.61	0.003957	0.62	2.64	8.71	0.29
1	953	2022-06-12	1.59	220.99	221.61		221.63	0.00413	0.65	2.8	8.96	0.3
1	935	2016-06-05	1.14	220.96	221.53		221.54	0.000793	0.36	4.82	34.1	0.17
1	935	2018-04-13	1.45	220.96	221.58		221.58	0.000789	0.38	6.29	46.25	0.17
1	935	2022-06-12	1.59	220.96	221.59		221.6	0.000804	0.39	7.03	49.02	0.17
1	904	2016-06-05	1.14	220.93	221.47		221.49	0.002779	0.71	1.78	11.95	0.38
1	904	2018-04-13	1.45	220.93	221.5		221.54	0.00329	0.79	2.14	15.31	0.41
1	904	2022-06-12	1.59	220.93	221.52		221.55	0.003449	0.82	2.29	16.2	0.43
1	890	2016-06-05	1.14	220.9	221.46		221.47	0.000667	0.39	4.37	32.51	0.19
1	890	2018-04-13	1.45	220.9	221.5		221.51	0.000751	0.42	5.13	35.81	0.2
1	890	2022-06-12	1.59	220.9	221.52		221.52	0.000786	0.44	5.44	36.39	0.2
1	875	2016-06-05	1.14	220.95	221.46		221.46	0.000525	0.35	4.14	19.45	0.17
1	875	2018-04-13	1.45	220.95	221.49		221.5	0.000619	0.39	4.93	26.21	0.19
1	875	2022-06-12	1.59	220.95	221.51		221.51	0.000658	0.41	5.31	29.52	0.2
1	858	2016-06-05	1.14	221.15	221.36	221.36	221.43	0.070098	1.17	1.13	9.69	0.93
1	858	2018-04-13	1.45	221.15	221.39	221.39	221.46	0.067737	1.26	1.35	10.23	0.94
1	858	2022-06-12	1.59	221.15	221.4	221.4	221.47	0.065369	1.28	1.46	10.5	0.93
1	844	2016-06-05	1.14	221.13	221.2		221.21	0.003589	0.13	3.25	114.9	0.24
1	844	2018-04-13	1.45	221.13	221.23		221.24	0.003611	0.17	3.79	119.78	0.27
1	844	2022-06-12	1.59	221.13	221.24		221.25	0.003614	0.19	4.03	121.02	0.28
1	832	2016-06-05	1.14	220.92	221.19		221.19	0.000474	0.22	6.6	111.29	0.15
1	832	2018-04-13	1.45	220.92	221.22		221.22	0.000512	0.25	7.67	112.46	0.16
1	832	2022-06-12	1.59	220.92	221.23		221.23	0.000525	0.26	8.14	112.94	0.17
1	803	2016-06-05	1.14	220.98	221.16		221.17	0.002163	0.32	4.36	28.41	0.28
1	803	2018-04-13	1.45	220.98	221.19		221.2	0.002108	0.35	5.14	29.29	0.28
1	803	2022-06-12	1.59	220.98	221.2		221.21	0.002087	0.36	5.47	29.69	0.28

Bunkers Creek - Gauged Flow Scenarios

1	787	2016-06-05	1.14	220.95	221.15		221.15	0.000488	0.17	8.98	58.75	0.13
1	787	2018-04-13	1.45	220.95	221.18		221.18	0.000462	0.18	10.64	59.5	0.13
1	787	2022-06-12	1.59	220.95	221.19		221.19	0.000453	0.19	11.34	59.8	0.13
1	760	2016-06-05	1.14	220.9	221.14		221.15	0.000159	0.11	13.19	65.32	0.08
1	760	2018-04-13	1.45	220.9	221.17		221.17	0.000168	0.13	15.03	66.23	0.09
1	760	2022-06-12	1.59	220.9	221.18		221.18	0.000171	0.13	15.81	66.61	0.09
1	713	2016-06-05	1.14	220.85	221.06	221.06	221.11	0.029682	1	1.14	11.45	1
1	713	2018-04-13	1.45	220.85	221.08	221.08	221.14	0.028931	1.08	1.35	11.98	1.02
1	713	2022-06-12	1.59	220.85	221.09	221.09	221.15	0.028273	1.12	1.44	12.04	1.02
1	682	2016-06-05	1.14	219.92	220.3		220.31	0.003106	0.5	2.26	7.82	0.3
1	682	2018-04-13	1.45	219.92	220.36		220.37	0.002928	0.53	2.71	8.02	0.29
1	682	2022-06-12	1.59	219.92	220.38		220.4	0.002843	0.55	2.92	8.11	0.29
1	652	2016-06-05	1.14	219.79	220.23		220.24	0.001889	0.54	2.54	10.09	0.28
1	652	2018-04-13	1.45	219.79	220.3		220.31	0.00162	0.56	3.22	10.65	0.27
1	652	2022-06-12	1.59	219.79	220.32		220.34	0.001515	0.56	3.53	10.85	0.26
1	621	2016-06-05	1.14	219.66	220.18		220.2	0.001224	0.54	2.63	9.26	0.27
1	621	2018-04-13	1.45	219.66	220.25		220.27	0.001137	0.56	3.32	10.95	0.27
1	621	2022-06-12	1.59	219.66	220.28		220.3	0.001097	0.57	3.7	13.99	0.26
1	577	2016-06-05	1.14	219.65	220.06	219.93	220.09	0.005815	0.81	1.4	5.44	0.47
1	577	2018-04-13	1.45	219.65	220.14	219.96	220.17	0.004221	0.8	1.8	9.07	0.42
1	577	2022-06-12	1.59	219.65	220.18	219.98	220.21	0.003809	0.81	1.97	10.58	0.4
1	Innisfil Street		Culvert									
1	543	2016-06-05	1.14	219.46	219.94		219.96	0.001417	0.57	2	6.24	0.27
1	543	2018-04-13	1.45	219.46	220.01		220.03	0.001491	0.64	2.28	6.35	0.29
1	543	2022-06-12	1.59	219.46	220.03		220.05	0.001523	0.66	2.39	6.4	0.29
1	520	2016-06-05	1.14	219.36	219.9		219.92	0.002393	0.63	1.83	4.79	0.31
1	520	2018-04-13	1.45	219.36	219.96		219.98	0.002461	0.7	2.12	5.05	0.32
1	520	2022-06-12	1.59	219.36	219.98		220.01	0.002489	0.73	2.25	5.15	0.33
1	494	2016-06-05	1.14	219.3	219.88		219.88	0.000647	0.38	3.08	6.49	0.17
1	494	2018-04-13	1.45	219.3	219.94		219.94	0.000724	0.43	3.46	6.66	0.18
1	494	2022-06-12	1.59	219.3	219.96		219.97	0.000755	0.45	3.62	6.73	0.19
1	469	2016-06-05	1.14	219.33	219.81		219.84	0.006964	0.79	1.47	5.6	0.44
1	469	2018-04-13	1.45	219.33	219.86		219.9	0.006606	0.86	1.79	6.45	0.45
1	469	2022-06-12	1.59	219.33	219.89		219.92	0.006425	0.88	1.93	6.78	0.44
1	443	2016-06-05	1.14	219.28	219.68		219.7	0.004283	0.64	1.82	5.89	0.34
1	443	2018-04-13	1.45	219.28	219.74		219.76	0.00401	0.69	2.19	6.25	0.34
1	443	2022-06-12	1.59	219.28	219.77		219.79	0.003873	0.71	2.36	6.39	0.33
1	427	2016-06-05	1.14	219.27	219.61	219.48	219.64	0.004063	0.71	1.69	7.05	0.41
1	427	2018-04-13	1.45	219.27	219.68	219.51	219.71	0.003186	0.72	2.12	7.45	0.38
1	427	2022-06-12	1.59	219.27	219.71	219.52	219.74	0.002958	0.73	2.29	7.61	0.37
1	Commercial Entra		Culvert									
1	402	2016-06-05	1.14	219.07	219.6		219.62	0.002061	0.54	2.11	6.2	0.26
1	402	2018-04-13	1.45	219.07	219.67		219.69	0.002049	0.59	2.44	9.45	0.27
1	402	2022-06-12	1.59	219.07	219.7		219.72	0.002053	0.61	2.58	9.87	0.27
1	382	2016-06-05	1.14	218.93	219.57		219.59	0.001272	0.48	2.38	5.06	0.22
1	382	2018-04-13	1.45	218.93	219.64		219.65	0.001362	0.54	2.71	5.31	0.23
1	382	2022-06-12	1.59	218.93	219.67		219.68	0.001399	0.57	2.86	5.41	0.24
1	358	2016-06-05	1.14	218.99	219.52	219.29	219.54	0.003023	0.63	1.82	4.94	0.33
1	358	2018-04-13	1.45	218.99	219.58	219.33	219.61	0.003019	0.68	2.14	5.21	0.33

Bunkers Creek - Gauged Flow Scenarios

1	358	2022-06-12	1.59	218.99	219.61	219.34	219.63	0.002982	0.71	2.27	5.32	0.33
1	328	2016-06-05	1.14	218.85	219.42	219.16	219.44	0.003715	0.64	1.79	4.56	0.32
1	328	2018-04-13	1.45	218.85	219.47	219.2	219.5	0.004088	0.7	2.07	5.8	0.35
1	328	2022-06-12	1.59	218.85	219.5	219.22	219.52	0.004335	0.73	2.22	6.81	0.36
1	303	2016-06-05	1.14	218.78	219.37	219.07	219.38	0.001301	0.49	2.31	5.49	0.24
1	303	2018-04-13	1.45	218.78	219.42	219.1	219.44	0.001541	0.56	2.59	5.74	0.27
1	303	2022-06-12	1.59	218.78	219.44	219.12	219.46	0.001626	0.59	2.71	5.85	0.27
1	Bradford Street		Culvert									
1	274.9	2016-06-05	1.14	218.67	219.37		219.38	0.001083	0.47	2.43	5	0.21
1	274.9	2018-04-13	1.45	218.67	219.41		219.43	0.001311	0.55	2.66	5.09	0.24
1	274.9	2022-06-12	1.59	218.67	219.43		219.45	0.001408	0.58	2.76	5.12	0.25
1	239.3	2016-06-05	1.14	218.77	219.32	219.09	219.33	0.001819	0.48	3	11.22	0.23
1	239.3	2018-04-13	1.45	218.77	219.36	219.14	219.37	0.00199	0.53	3.52	14.39	0.24
1	239.3	2022-06-12	1.59	218.77	219.38	219.15	219.39	0.002049	0.55	3.76	15.24	0.25
1	214	2016-06-05	1.14	218.74	219.25	219.03	219.26	0.003702	0.63	2.23	11.03	0.32
1	214	2018-04-13	1.45	218.74	219.28	219.07	219.3	0.004285	0.71	2.57	11.65	0.35
1	214	2022-06-12	1.59	218.74	219.29	219.09	219.31	0.004551	0.75	2.71	12.03	0.36
1	184	2016-06-05	1.14	218.69	219.18	219.03	219.19	0.001849	0.46	4.41	38.97	0.23
1	184	2018-04-13	1.45	218.69	219.2	219.08	219.21	0.002161	0.51	5.25	45.04	0.25
1	184	2022-06-12	1.59	218.69	219.21	219.09	219.22	0.002258	0.53	5.62	46.21	0.26
1	168.01	2016-06-05	1.14	218.74	219.14	219.02	219.15	0.003377	0.53	3.41	28.25	0.3
1	168.01	2018-04-13	1.45	218.74	219.14	219.05	219.16	0.004931	0.65	3.58	30.66	0.36
1	168.01	2022-06-12	1.59	218.74	219.15	219.06	219.16	0.005595	0.69	3.68	32.06	0.39
1	146.6	2016-06-05	1.14	218.76	219.14	218.89	219.14	0.000167	0.12	14.24	80.13	0.07
1	146.6	2018-04-13	1.45	218.76	219.14	218.9	219.14	0.000253	0.15	14.53	80.55	0.09
1	146.6	2022-06-12	1.59	218.76	219.14	218.91	219.14	0.000301	0.17	14.69	81.08	0.1
1	123.1	2016-06-05	1.14	218.65	219.13		219.14	0.000024	0.06	21.41	91.65	0.03
1	123.1	2018-04-13	1.45	218.65	219.14		219.14	0.000037	0.08	21.7	92.23	0.04
1	123.1	2022-06-12	1.59	218.65	219.14		219.14	0.000044	0.09	21.86	92.54	0.04
1	86.8	2016-06-05	1.14	218.68	219.13		219.13	0.000007	0.03	32.96	102.95	0.02
1	86.8	2018-04-13	1.45	218.68	219.14		219.14	0.000011	0.04	33.26	103.51	0.02
1	86.8	2022-06-12	1.59	218.68	219.14		219.14	0.000013	0.05	33.43	103.82	0.02
1	55.6	2016-06-05	1.14	218.31	219.13	218.43	219.13	0.000016	0.1	11.8	34.81	0.03
1	55.6	2018-04-13	1.45	218.31	219.14	218.44	219.14	0.000025	0.12	11.83	35.05	0.04
1	55.6	2022-06-12	1.59	218.31	219.14	218.45	219.14	0.00003	0.13	11.85	35.18	0.05
1	Lakeshore		Bridge									
1	19.9	2016-06-05	1.14	218.66	219.13		219.13	0.000256	0.2	5.72	19.97	0.1
1	19.9	2018-04-13	1.45	218.66	219.13		219.13	0.000416	0.25	5.71	19.97	0.12
1	19.9	2022-06-12	1.59	218.66	219.13		219.13	0.000501	0.28	5.71	19.97	0.13
1	5	2016-06-05	1.14	218.01	219.13	218.13	219.13	0.000008	0.09	13.11	21.74	0.03
1	5	2018-04-13	1.45	218.01	219.13	218.15	219.13	0.000013	0.11	13.11	21.74	0.03
1	5	2022-06-12	1.59	218.01	219.13	218.16	219.13	0.000016	0.12	13.11	21.74	0.04
1	Pedestrian Bridg		Culvert									
1	0	2016-06-05	1.14	218.01	219.13	218.13	219.13	0.000008	0.09	13.13	27.33	0.03
1	0	2018-04-13	1.45	218.01	219.13	218.15	219.13	0.000013	0.11	13.12	27.33	0.03
1	0	2022-06-12	1.59	218.01	219.13	218.16	219.13	0.000016	0.12	13.12	27.33	0.04
1	-21	2016-06-05	1.14	218	219.13	218.01	219.13	0	0	277.1	247.1	0
1	-21	2018-04-13	1.45	218	219.13	218.02	219.13	0	0.01	277.1	247.1	0
1	-21	2022-06-12	1.59	218	219.13	218.02	219.13	0	0.01	277.1	247.1	0

Bunkers Creek - Calibration +25% Mannings

Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
			(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
1	1305	100 Year	36.79	224.04	225.92		226.18	0.014242	2.88	18.98	12.86	0.68
1	1305	Hazel	27.84	224.04	225.7		225.9	0.01322	2.55	16.21	12.41	0.64
1	1305	Hazel w CC	33.77	224.04	225.86		226.09	0.013804	2.77	18.14	12.7	0.66
1	1279	100 Year	36.79	223.46	225.2	225.2	225.68	0.023963	3.91	15.21	14.98	0.96
1	1279	Hazel	27.84	223.46	225.02	225.02	225.43	0.02323	3.58	12.59	14.29	0.93
1	1279	Hazel w CC	33.77	223.46	225.13	225.13	225.6	0.024194	3.83	14.25	14.71	0.96
1	1267	100 Year	36.79	223.27	224.96		225.29	0.018978	2.96	15.61	16.92	0.75
1	1267	Hazel	27.84	223.27	224.79	224.69	225.07	0.018468	2.7	12.74	16.19	0.73
1	1267	Hazel w CC	33.77	223.27	224.9	224.8	225.22	0.019027	2.89	14.62	16.7	0.75
1	1257	100 Year	36.79	223.12	224.88		225.08	0.014589	2.38	21.21	22.27	0.6
1	1257	Hazel	27.84	223.12	224.69		224.87	0.015003	2.22	17.03	21.19	0.6
1	1257	Hazel w CC	33.77	223.12	224.81		225.01	0.014997	2.35	19.7	21.91	0.61
1	1250	100 Year	36.79	222.97	224.87		224.98	0.008466	1.98	32.96	42.25	0.48
1	1250	Hazel	27.84	222.97	224.59		224.77	0.013701	2.25	21.71	40.76	0.59
1	1250	Hazel w CC	33.77	222.97	224.78		224.91	0.009709	2.05	29.29	41.82	0.51
1	1240	100 Year	36.79	222.79	224.78		224.9	0.007047	1.94	32.7	39.65	0.45
1	1240	Hazel	27.84	222.79	224.49		224.64	0.010369	2.1	21.37	35.42	0.53
1	1240	Hazel w CC	33.77	222.79	224.69		224.82	0.008045	2	28.84	38.89	0.48
1	1228	100 Year	36.79	222.78	224.73		224.82	0.004755	1.7	33.63	28.42	0.4
1	1228	Hazel	27.84	222.78	224.45		224.53	0.005306	1.6	26.17	24.75	0.41
1	1228	Hazel w CC	33.77	222.78	224.64		224.73	0.004941	1.67	31.02	27.09	0.4
1	1212	100 Year	36.79	222.57	224.68		224.74	0.004392	1.42	35.07	25.77	0.32
1	1212	Hazel	27.84	222.57	224.38		224.45	0.005186	1.38	27.59	24.86	0.34
1	1212	Hazel w CC	33.77	222.57	224.58		224.65	0.004622	1.41	32.58	25.47	0.33
1	1196	100 Year	36.79	222.54	224.6		224.68	0.003219	1.63	34.31	24.58	0.37
1	1196	Hazel	27.84	222.54	224.3		224.38	0.003555	1.54	27.15	23.13	0.38
1	1196	Hazel w CC	33.77	222.54	224.5		224.58	0.003321	1.6	31.9	24.07	0.37
1	1183	100 Year	36.79	222.26	224.57		224.65	0.001994	1.53	38.76	23.71	0.33
1	1183	Hazel	27.84	222.26	224.27		224.34	0.001994	1.39	31.82	22.86	0.32
1	1183	Hazel w CC	33.77	222.26	224.47		224.55	0.001998	1.49	36.45	23.4	0.33
1	1168	100 Year	36.79	222.26	224.56		224.61	0.001685	1.37	45.99	27.22	0.29
1	1168	Hazel	27.84	222.26	224.26		224.3	0.001722	1.26	37.92	26.33	0.29
1	1168	Hazel w CC	33.77	222.26	224.46		224.51	0.0017	1.34	43.31	26.92	0.29
1	1150	100 Year	36.79	222.03	224.49		224.57	0.003968	1.6	33.81	20.97	0.33
1	1150	Hazel	27.84	222.03	224.19		224.26	0.004077	1.48	27.7	19.84	0.33
1	1150	Hazel w CC	33.77	222.03	224.39		224.47	0.004017	1.57	31.75	20.59	0.33
1	1141	100 Year	36.79	221.94	224.25		224.5	0.009338	2.65	20	13.93	0.57
1	1141	Hazel	27.84	221.94	223.97		224.19	0.009511	2.44	16.27	12.98	0.56
1	1141	Hazel w CC	33.77	221.94	224.16		224.4	0.009473	2.59	18.71	13.61	0.57
1	1124	100 Year	36.79	221.82	224.18		224.35	0.005674	2.09	23.43	16.38	0.45
1	1124	Hazel	27.84	221.82	223.89		224.04	0.005887	1.93	18.87	15.3	0.45
1	1124	Hazel w CC	33.77	221.82	224.08		224.25	0.005784	2.05	21.85	15.97	0.45
1	1107	100 Year	36.79	221.83	224.12		224.25	0.005036	1.87	25.38	17.69	0.4
1	1107	Hazel	27.84	221.83	223.82		223.94	0.005373	1.75	20.24	16.71	0.4
1	1107	Hazel w CC	33.77	221.83	224.02		224.14	0.005188	1.84	23.6	17.39	0.4
1	1088	100 Year	36.79	221.8	224.05		224.16	0.003615	1.83	29.33	20.09	0.4
1	1088	Hazel	27.84	221.8	223.74		223.84	0.003913	1.72	23.32	19.11	0.41
1	1088	Hazel w CC	33.77	221.8	223.94		224.05	0.003739	1.8	27.24	19.75	0.4

Bunkers Creek - Calibration +25% Mannings

1	1072	100 Year	36.79	221.55	224.05		224.1	0.002142	1.18	41.66	26.3	0.24
1	1072	Hazel	27.84	221.55	223.74		223.78	0.002262	1.11	33.59	25.19	0.24
1	1072	Hazel w CC	33.77	221.55	223.94		223.99	0.0022	1.16	38.87	25.93	0.24
1	1067	100 Year	36.79	221.52	224.05		224.08	0.001835	1.03	46.36	28.89	0.21
1	1067	Hazel	27.84	221.52	223.73		223.77	0.001962	0.97	37.43	27.94	0.21
1	1067	Hazel w CC	33.77	221.52	223.94		223.98	0.001889	1.01	43.28	28.54	0.21
1	1055	100 Year	39.38	221.42	224		224.06	0.001795	1.46	47.4	36.9	0.3
1	1055	Hazel	29.71	221.42	223.68		223.74	0.001842	1.35	37.52	27.48	0.29
1	1055	Hazel w CC	36.02	221.42	223.89		223.95	0.001835	1.44	43.63	33.15	0.3
1	1038	100 Year	39.38	221.4	223.98		224.02	0.002507	1.11	46.93	32.84	0.23
1	1038	Hazel	29.71	221.4	223.66		223.7	0.002877	1.08	36.8	30.94	0.24
1	1038	Hazel w CC	36.02	221.4	223.87		223.91	0.002626	1.1	43.38	32.12	0.23
1	1024	100 Year	39.38	221.23	223.91		223.98	0.003209	1.4	37.32	25.25	0.28
1	1024	Hazel	29.71	221.23	223.59		223.65	0.003498	1.34	29.37	24.15	0.29
1	1024	Hazel w CC	36.02	221.23	223.8		223.87	0.003317	1.39	34.55	24.91	0.28
1	1007	100 Year	39.38	221.38	223.75		223.9	0.004918	2.23	29.21	18.1	0.47
1	1007	Hazel	29.71	221.38	223.44		223.57	0.005055	2.05	23.76	17.19	0.46
1	1007	Hazel w CC	36.02	221.38	223.65		223.79	0.004995	2.18	27.29	17.76	0.47
1	990	100 Year	39.38	221.21	223.1	223.1	223.71	0.023047	3.78	13.25	11.13	0.9
1	990	Hazel	29.71	221.21	222.97	222.83	223.4	0.018002	3.18	11.83	10.59	0.78
1	990	Hazel w CC	36.02	221.21	223.07	223.02	223.6	0.020606	3.54	12.93	11.02	0.85
1	968	100 Year	39.38	221.07	223.11		223.22	0.010495	1.95	29.54	24.78	0.45
1	968	Hazel	29.71	221.07	222.93		223.02	0.009628	1.74	25.17	24.11	0.43
1	968	Hazel w CC	36.02	221.07	223.09		223.19	0.009263	1.81	29.02	24.71	0.42
1	953	100 Year	39.38	220.99	223.09		223.13	0.00277	1.08	54.86	41.73	0.25
1	953	Hazel	29.71	220.99	222.91		222.94	0.002516	0.96	47.29	41.19	0.23
1	953	Hazel w CC	36.02	220.99	223.07		223.1	0.00243	1.01	54.05	41.67	0.23
1	935	100 Year	39.38	220.96	223.08		223.1	0.000687	0.7	84.36	120.69	0.16
1	935	Hazel	29.71	220.96	222.9		222.91	0.000581	0.61	74.41	114.92	0.14
1	935	Hazel w CC	36.02	220.96	223.07		223.08	0.000597	0.65	83.33	119.74	0.15
1	904	100 Year	39.38	220.93	223.04		223.07	0.001207	1.13	76.39	118.33	0.26
1	904	Hazel	29.71	220.93	222.86		222.89	0.00113	1.03	64.24	113.55	0.25
1	904	Hazel w CC	36.02	220.93	223.03		223.05	0.001045	1.05	75.5	118.05	0.24
1	890	100 Year	39.38	220.9	223.03		223.05	0.000945	0.96	73.4	84.54	0.22
1	890	Hazel	29.71	220.9	222.85		222.87	0.000832	0.85	63.13	83.15	0.2
1	890	Hazel w CC	36.02	220.9	223.02		223.04	0.000811	0.89	72.75	84.45	0.2
1	875	100 Year	39.38	220.95	223.02		223.04	0.000806	0.89	72.31	61.45	0.2
1	875	Hazel	29.71	220.95	222.84		222.86	0.000669	0.77	63.64	59.33	0.18
1	875	Hazel w CC	36.02	220.95	223.01		223.03	0.000688	0.82	71.85	61.36	0.19
1	858	100 Year	52.31	221.15	222.92		223	0.00806	1.68	47.99	45.04	0.41
1	858	Hazel	42.22	221.15	222.75		222.82	0.00859	1.61	40.33	43.5	0.41
1	858	Hazel w CC	51.23	221.15	222.91		222.99	0.00789	1.65	47.64	44.97	0.4
1	844	100 Year	52.31	221.13	222.92		222.95	0.001148	0.97	84.87	226.42	0.24
1	844	Hazel	42.22	221.13	222.75		222.77	0.001082	0.88	75.17	220.57	0.23
1	844	Hazel w CC	51.23	221.13	222.91		222.94	0.001119	0.96	84.43	226.16	0.24
1	832	100 Year	52.31	220.92	222.91		222.94	0.000634	0.89	99.95	150.93	0.2
1	832	Hazel	42.22	220.92	222.74		222.76	0.000574	0.8	89.43	148.97	0.19
1	832	Hazel w CC	51.23	220.92	222.91		222.93	0.000617	0.88	99.48	150.89	0.2
1	803	100 Year	54.24	220.98	222.89		222.91	0.001035	0.86	83.06	55	0.2
1	803	Hazel	43.95	220.98	222.72		222.74	0.000955	0.78	73.93	53.16	0.19
1	803	Hazel w CC	53.38	220.98	222.88		222.9	0.001017	0.85	82.68	54.93	0.2

Bunkers Creek - Calibration +25% Mannings

1	787	100 Year	54.24	220.95	222.89		222.9	0.000364	0.6	127.31	76.69	0.14
1	787	Hazel	43.95	220.95	222.72		222.73	0.000331	0.54	114.43	74.93	0.13
1	787	Hazel w CC	53.38	220.95	222.88		222.89	0.000358	0.59	126.76	76.63	0.14
1	760	100 Year	54.24	220.9	222.88		222.89	0.000256	0.53	148.81	93.76	0.12
1	760	Hazel	43.95	220.9	222.71		222.72	0.000229	0.47	133.26	86.48	0.11
1	760	Hazel w CC	53.38	220.9	222.87		222.88	0.000251	0.52	148.16	93.7	0.12
1	713	100 Year	54.24	220.85	222.7		222.85	0.003718	1.92	39.93	42.23	0.46
1	713	Hazel	43.95	220.85	222.56		222.68	0.003357	1.72	34.24	37.16	0.44
1	713	Hazel w CC	53.38	220.85	222.7		222.84	0.003621	1.89	39.84	42.22	0.46
1	682	100 Year	54.24	219.92	222.46		222.69	0.006344	2.27	29.26	26.66	0.47
1	682	Hazel	43.95	219.92	222.39		222.55	0.004645	1.91	27.57	22.68	0.4
1	682	Hazel w CC	53.38	219.92	222.47		222.69	0.00604	2.22	29.53	26.86	0.46
1	652	100 Year	54.24	219.79	222.42		222.53	0.003052	1.96	46.88	54	0.39
1	652	Hazel	43.95	219.79	222.36		222.44	0.002207	1.64	43.99	46.02	0.33
1	652	Hazel w CC	53.38	219.79	222.43		222.53	0.002888	1.92	47.61	55.24	0.38
1	621	100 Year	56.17	219.66	222.41		222.45	0.001092	1.4	85.21	79.9	0.28
1	621	Hazel	47.22	219.66	222.35		222.38	0.000868	1.23	80.34	79.06	0.25
1	621	Hazel w CC	57.38	219.66	222.42		222.46	0.00112	1.42	85.95	83.28	0.28
1	577	100 Year	56.17	219.65	222.23	222.16	222.35	0.003675	2.09	58.52	120.66	0.43
1	577	Hazel	47.22	219.65	222.18	222.1	222.29	0.003383	1.98	52.32	116.28	0.41
1	577	Hazel w CC	57.38	219.65	222.22	222.17	222.35	0.004013	2.18	57.49	120.49	0.45
1	Innisfil Street	Culvert										
1	543	100 Year	56.17	219.46	222.1	222.1	222.29	0.004294	2.45	41.63	106.25	0.53
1	543	Hazel	47.22	219.46	222.06	222.06	222.23	0.003911	2.32	36.9	103.51	0.51
1	543	Hazel w CC	57.38	219.46	222.11	222.11	222.29	0.004223	2.44	42.8	106.81	0.53
1	520	100 Year	56.17	219.36	221.62	221.62	221.91	0.009513	3.01	29.49	52.87	0.66
1	520	Hazel	47.22	219.36	221.54	221.54	221.82	0.009312	2.91	25.49	46.74	0.65
1	520	Hazel w CC	57.38	219.36	221.66	221.66	221.92	0.008447	2.88	31.89	69.24	0.62
1	494	100 Year	56.17	219.3	221.46		221.61	0.004978	2.15	37.25	61.31	0.47
1	494	Hazel	47.22	219.3	221.38		221.52	0.00506	2.11	32.51	58.62	0.47
1	494	Hazel w CC	57.38	219.3	221.47		221.62	0.004961	2.15	37.86	61.52	0.47
1	469	100 Year	56.17	219.33	221.26		221.45	0.007798	2.15	30.29	50.93	0.52
1	469	Hazel	47.22	219.33	221.19		221.36	0.007969	2.12	27.12	50.01	0.52
1	469	Hazel w CC	57.38	219.33	221.28		221.46	0.007292	2.1	31.43	52.07	0.5
1	443	100 Year	55.96	219.28	221.21		221.31	0.002504	1.17	40.93	60.67	0.27
1	443	Hazel	47.46	219.28	221.14		221.23	0.002524	1.15	36.81	58.54	0.27
1	443	Hazel w CC	57.68	219.28	221.23		221.34	0.002372	1.15	42.43	61.41	0.27
1	427	100 Year	55.96	219.27	221.19	220.86	221.26	0.002026	1.33	51.65	78.41	0.31
1	427	Hazel	47.46	219.27	221.12	220.8	221.18	0.002135	1.33	45.97	76.32	0.32
1	427	Hazel w CC	57.68	219.27	221.22	220.87	221.28	0.001901	1.3	53.79	79.82	0.3
1	Commercial Entra	Culvert										
1	402	100 Year	55.96	219.07	221.01		221.25	0.012952	2.85	32.36	42.88	0.67
1	402	Hazel	47.46	219.07	220.96		221.16	0.011277	2.61	30.07	39.97	0.62
1	402	Hazel w CC	57.68	219.07	221.02		221.27	0.013622	2.94	32.82	44.04	0.69
1	382	100 Year	55.96	218.93	221.05		221.07	0.001582	1.08	84.83	101.4	0.25
1	382	Hazel	47.46	218.93	220.98		221.01	0.001451	1.01	78.26	99.68	0.23
1	382	Hazel w CC	57.68	218.93	221.06		221.09	0.001589	1.09	86.43	101.84	0.25
1	358	100 Year	55.96	218.99	221	220.49	221.03	0.001814	1.12	80.99	98.12	0.26
1	358	Hazel	47.46	218.99	220.94	220.46	220.97	0.001646	1.04	75.02	97.19	0.25

Bunkers Creek - Calibration +25% Mannings												
1	358	Hazel w CC	57.68	218.99	221.02	220.54	221.05	0.001821	1.12	82.52	98.42	0.26
1	328	100 Year	57.61	218.85	220.94	220.48	220.97	0.002	1.08	78.69	106.72	0.26
1	328	Hazel	49.11	218.85	220.89	220.44	220.91	0.001829	1.02	72.84	104.04	0.24
1	328	Hazel w CC	59.81	218.85	220.96	220.5	220.99	0.002025	1.1	80.24	107.09	0.26
1	303	100 Year	57.61	218.78	220.8	220.68	220.89	0.003784	1.69	56.39	110.17	0.4
1	303	Hazel	49.11	218.78	220.76	220.64	220.84	0.003379	1.57	52.38	108.33	0.38
1	303	Hazel w CC	59.81	218.78	220.81	220.68	220.9	0.00381	1.7	57.74	110.89	0.4
1	Bradford Street		Culvert									
1	274.9	100 Year	57.61	218.67	220.61	220.61	220.79	0.007111	2.22	31.71	91.92	0.54
1	274.9	Hazel	49.11	218.67	220.58	220.58	220.74	0.006884	2.16	28.57	87.26	0.53
1	274.9	Hazel w CC	59.81	218.67	220.62	220.62	220.8	0.007012	2.21	32.64	92.26	0.53
1	239.3	100 Year	57.61	218.77	220.39	219.99	220.42	0.000864	0.6	77.64	121.86	0.15
1	239.3	Hazel	49.11	218.77	220.36	219.95	220.38	0.000756	0.55	73.1	118.77	0.14
1	239.3	Hazel w CC	59.81	218.77	220.42	220	220.45	0.000826	0.59	80.71	129.29	0.15
1	214	100 Year	57.61	218.74	220.36	220.08	220.39	0.001941	0.89	76.51	171.11	0.23
1	214	Hazel	49.11	218.74	220.32	220.03	220.35	0.001805	0.84	70.59	167.71	0.22
1	214	Hazel w CC	59.81	218.74	220.39	220.08	220.42	0.001729	0.85	81.36	174.02	0.22
1	184	100 Year	55.53	218.69	220.31	219.65	220.33	0.001998	0.94	104.84	166.87	0.24
1	184	Hazel	49.29	218.69	220.28	219.6	220.29	0.001839	0.89	99.4	161.3	0.23
1	184	Hazel w CC	60.08	218.69	220.34	219.68	220.36	0.002093	0.98	109.62	176.83	0.25
1	168.01	100 Year	55.53	218.74	220.28	219.56	220.3	0.001908	0.88	103.05	161.76	0.23
1	168.01	Hazel	49.29	218.74	220.25	219.54	220.27	0.001713	0.82	98.76	157.21	0.22
1	168.01	Hazel w CC	60.08	218.74	220.31	219.58	220.33	0.001999	0.91	106.93	166.77	0.24
1	146.6	100 Year	55.53	218.76	220.27	219.34	220.28	0.000602	0.55	143.15	130.58	0.15
1	146.6	Hazel	49.29	218.76	220.24	219.31	220.25	0.000513	0.5	139.42	129.69	0.14
1	146.6	Hazel w CC	60.08	218.76	220.29	219.35	220.3	0.000662	0.58	146.6	132.2	0.16
1	123.1	100 Year	55.53	218.65	220.26		220.26	0.00036	0.47	149.53	133.72	0.12
1	123.1	Hazel	49.29	218.65	220.23		220.24	0.000301	0.42	145.96	131.01	0.11
1	123.1	Hazel w CC	60.08	218.65	220.28		220.29	0.000395	0.49	152.93	134.93	0.13
1	86.8	100 Year	55.83	218.68	220.25		220.25	0.000214	0.37	176.78	150.29	0.1
1	86.8	Hazel	50.08	218.68	220.22		220.23	0.000182	0.33	172.92	149.62	0.09
1	86.8	Hazel w CC	60.96	218.68	220.27		220.28	0.00024	0.39	180.44	151.39	0.1
1	55.6	100 Year	55.83	218.31	220.2	219.47	220.23	0.001314	1	112.36	281.22	0.28
1	55.6	Hazel	50.08	218.31	220.18	219.39	220.21	0.001168	0.93	106.68	266.11	0.26
1	55.6	Hazel w CC	60.96	218.31	220.22	219.86	220.26	0.001437	1.06	118.04	288.62	0.29
1	Lakeshore		Bridge									
1	19.9	100 Year	55.83	218.66	220	220	220.09	0.011869	1.66	51.57	286.03	0.57
1	19.9	Hazel	50.08	218.66	220	220	220.08	0.009479	1.48	51.73	286.12	0.51
1	19.9	Hazel w CC	60.96	218.66	220.01	220.01	220.11	0.012228	1.7	54.71	287.72	0.58
1	5	100 Year	55.83	218.01	219.55	219.55	219.7	0.006616	1.94	40.59	145.77	0.62
1	5	Hazel	50.08	218.01	219.53	219.53	219.67	0.006296	1.87	36.97	133.08	0.61
1	5	Hazel w CC	60.96	218.01	219.58	219.58	219.73	0.006816	1.99	43.91	155.98	0.63
1	Pedestrian Bridg		Culvert									
1	0	100 Year	55.83	218.01	219.47	219.47	219.6	0.009632	1.85	50.76	229.99	0.67
1	0	Hazel	50.08	218.01	219.45	219.45	219.57	0.008783	1.74	47.53	215.88	0.64
1	0	Hazel w CC	60.96	218.01	219.5	219.5	219.62	0.008602	1.79	58.75	241.35	0.64
1	-21	100 Year	55.83	218	219.13	218.18	219.13	0.000165	0.2	277.1	247.1	0.06
1	-21	Hazel	50.08	218	219.13	218.16	219.13	0.000133	0.18	277.1	247.1	0.05
1	-21	Hazel w CC	60.96	218	219.13	218.18	219.13	0.000196	0.22	277.1	247.1	0.07

Bunkers Creek - Calibration -25% Mannings

Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
			(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
1	1305	100 Year	36.79	224.04	225.46	225.45	225.99	0.015399	4.12	13.27	12.01	1.12
1	1305	Hazel	27.84	224.04	225.3	225.26	225.72	0.014386	3.66	11.32	11.72	1.06
1	1305	Hazel w CC	33.77	224.04	225.41	225.39	225.9	0.014947	3.96	12.67	11.93	1.09
1	1279	100 Year	36.79	223.46	225.2	225.2	225.68	0.008639	3.91	15.21	14.97	0.96
1	1279	Hazel	27.84	223.46	225.02	225.02	225.43	0.008375	3.58	12.59	14.29	0.93
1	1279	Hazel w CC	33.77	223.46	225.13	225.13	225.6	0.008722	3.83	14.25	14.71	0.96
1	1267	100 Year	36.79	223.27	224.85	224.85	225.28	0.009407	3.31	13.83	16.53	0.87
1	1267	Hazel	27.84	223.27	224.69	224.69	225.06	0.009212	3.03	11.22	15.74	0.85
1	1267	Hazel w CC	33.77	223.27	224.8	224.8	225.21	0.009496	3.24	12.9	16.3	0.87
1	1257	100 Year	36.79	223.12	224.63	224.63	225	0.011627	3.16	15.73	20.92	0.87
1	1257	Hazel	27.84	223.12	224.56		224.82	0.008558	2.62	14.28	20.52	0.74
1	1257	Hazel w CC	33.77	223.12	224.59	224.58	224.94	0.011194	3.04	14.95	20.71	0.85
1	1250	100 Year	36.79	222.97	224.63	224.63	224.89	0.007338	2.79	23.26	40.96	0.73
1	1250	Hazel	27.84	222.97	224.52	224.52	224.76	0.006714	2.54	18.88	39.99	0.69
1	1250	Hazel w CC	33.77	222.97	224.6	224.6	224.85	0.007202	2.72	21.79	40.77	0.72
1	1240	100 Year	36.79	222.79	224.41	224.41	224.76	0.008268	3.03	19.02	30.07	0.79
1	1240	Hazel	27.84	222.79	224.26	224.26	224.56	0.007955	2.76	14.88	23.87	0.76
1	1240	Hazel w CC	33.77	222.79	224.32	224.32	224.69	0.009336	3.08	16.38	25.7	0.83
1	1228	100 Year	36.79	222.78	224.42		224.58	0.003642	2.18	25.37	24.57	0.56
1	1228	Hazel	27.84	222.78	224.15		224.31	0.004709	2.18	18.99	22.92	0.62
1	1228	Hazel w CC	33.77	222.78	224.33		224.49	0.00391	2.18	23.29	24.1	0.58
1	1212	100 Year	36.79	222.57	224.4		224.51	0.003112	1.8	28.03	24.92	0.44
1	1212	Hazel	27.84	222.57	224.12		224.23	0.004164	1.84	21.11	23.82	0.5
1	1212	Hazel w CC	33.77	222.57	224.31		224.42	0.003356	1.8	25.82	24.63	0.46
1	1196	100 Year	36.79	222.54	224.34		224.47	0.002029	1.97	28.11	23.32	0.48
1	1196	Hazel	27.84	222.54	224.06		224.18	0.002422	1.91	21.66	21.92	0.51
1	1196	Hazel w CC	33.77	222.54	224.25		224.37	0.002116	1.94	26.06	22.9	0.48
1	1183	100 Year	36.79	222.26	224.33		224.44	0.001107	1.76	33.26	23.03	0.4
1	1183	Hazel	27.84	222.26	224.05		224.15	0.00115	1.62	26.91	22.29	0.4
1	1183	Hazel w CC	33.77	222.26	224.25		224.35	0.001111	1.71	31.26	22.8	0.4
1	1168	100 Year	36.79	222.26	224.34		224.41	0.00091	1.57	40.18	26.58	0.35
1	1168	Hazel	27.84	222.26	224.06		224.12	0.000965	1.47	32.74	25.75	0.35
1	1168	Hazel w CC	33.77	222.26	224.26		224.32	0.000919	1.54	37.84	26.32	0.35
1	1150	100 Year	36.79	222.03	224.28		224.39	0.00211	1.83	29.6	20.18	0.4
1	1150	Hazel	27.84	222.03	224		224.09	0.002236	1.71	24.05	19.27	0.4
1	1150	Hazel w CC	33.77	222.03	224.2		224.3	0.002126	1.79	27.85	19.86	0.4
1	1141	100 Year	36.79	221.94	223.77	223.77	224.31	0.009684	3.81	13.68	12.28	0.93
1	1141	Hazel	27.84	221.94	223.53	223.53	224.02	0.010127	3.54	10.92	11.14	0.92
1	1141	Hazel w CC	33.77	221.94	223.69	223.69	224.22	0.009855	3.74	12.77	12.02	0.93
1	1124	100 Year	36.79	221.82	223.84		224.13	0.004167	2.65	18.08	15.13	0.63
1	1124	Hazel	27.84	221.82	223.56		223.83	0.004842	2.55	13.96	14.07	0.66
1	1124	Hazel w CC	33.77	221.82	223.75		224.03	0.004396	2.63	16.66	14.8	0.64
1	1107	100 Year	36.79	221.83	223.84		224.04	0.003232	2.28	20.58	16.78	0.52
1	1107	Hazel	27.84	221.83	223.54		223.73	0.003811	2.22	15.77	15.42	0.55
1	1107	Hazel w CC	33.77	221.83	223.74		223.94	0.003427	2.27	18.92	16.43	0.53
1	1088	100 Year	36.79	221.8	223.82		223.98	0.002087	2.15	24.75	19.35	0.5
1	1088	Hazel	27.84	221.8	223.51		223.67	0.002509	2.1	18.92	18.37	0.53
1	1088	Hazel w CC	33.77	221.8	223.71		223.87	0.002214	2.14	22.78	19.02	0.51

Bunkers Creek - Calibration -25% Mannings												
1	1072	100 Year	36.79	221.55	223.86		223.92	0.001104	1.34	36.74	25.66	0.29
1	1072	Hazel	27.84	221.55	223.55		223.61	0.00124	1.28	28.95	24.45	0.3
1	1072	Hazel w CC	33.77	221.55	223.76		223.82	0.001148	1.32	34.11	25.27	0.29
1	1067	100 Year	36.79	221.52	223.87		223.91	0.000935	1.16	41.17	28.32	0.25
1	1067	Hazel	27.84	221.52	223.55		223.6	0.001068	1.12	32.46	27.37	0.26
1	1067	Hazel w CC	33.77	221.52	223.76		223.81	0.000977	1.15	38.24	28.02	0.25
1	1055	100 Year	39.38	221.42	223.82		223.9	0.000909	1.65	41.28	30.42	0.35
1	1055	Hazel	29.71	221.42	223.51		223.58	0.000955	1.53	32.75	26.52	0.35
1	1055	Hazel w CC	36.02	221.42	223.71		223.79	0.000923	1.61	38.34	27.79	0.35
1	1038	100 Year	39.38	221.4	223.82		223.87	0.001255	1.25	41.81	31.74	0.27
1	1038	Hazel	29.71	221.4	223.5		223.56	0.001544	1.25	32.05	30.02	0.29
1	1038	Hazel w CC	36.02	221.4	223.71		223.77	0.001333	1.24	38.52	31.2	0.27
1	1024	100 Year	39.38	221.23	223.77		223.85	0.001524	1.55	33.74	24.81	0.32
1	1024	Hazel	29.71	221.23	223.45		223.53	0.001724	1.5	26.07	23.26	0.33
1	1024	Hazel w CC	36.02	221.23	223.66		223.75	0.001582	1.53	31.16	24.49	0.32
1	1007	100 Year	39.38	221.38	223.64		223.81	0.002186	2.39	27.13	17.74	0.52
1	1007	Hazel	29.71	221.38	223.34		223.49	0.002294	2.22	21.92	16.89	0.52
1	1007	Hazel w CC	36.02	221.38	223.54		223.71	0.002214	2.33	25.38	17.46	0.52
1	990	100 Year	39.38	221.21	223.1	223.1	223.71	0.008306	3.78	13.25	11.13	0.9
1	990	Hazel	29.71	221.21	222.83	222.83	223.38	0.00922	3.58	10.39	9.97	0.92
1	990	Hazel w CC	36.02	221.21	223.02	223.02	223.6	0.008391	3.69	12.38	10.81	0.89
1	968	100 Year	39.38	221.07	222.76		223	0.01014	2.78	21.16	23.35	0.71
1	968	Hazel	29.71	221.07	222.63		222.82	0.009099	2.48	18.08	22.69	0.67
1	968	Hazel w CC	36.02	221.07	222.76		222.96	0.00842	2.54	21.21	23.36	0.65
1	953	100 Year	39.38	220.99	222.83		222.89	0.001969	1.38	44.18	40.97	0.34
1	953	Hazel	29.71	220.99	222.68		222.72	0.001803	1.24	37.93	40.58	0.32
1	953	Hazel w CC	36.02	220.99	222.82		222.87	0.001707	1.28	43.68	40.94	0.31
1	935	100 Year	39.38	220.96	222.84		222.86	0.000422	0.85	71.27	113.9	0.2
1	935	Hazel	29.71	220.96	222.69		222.7	0.000358	0.73	62.91	111.81	0.18
1	935	Hazel w CC	36.02	220.96	222.83		222.85	0.000365	0.78	70.53	113.71	0.19
1	904	100 Year	39.38	220.93	222.8		222.84	0.000878	1.47	59.72	110.64	0.36
1	904	Hazel	29.71	220.93	222.65		222.68	0.000807	1.32	49.71	101.92	0.34
1	904	Hazel w CC	36.02	220.93	222.79		222.83	0.000751	1.35	59.25	110.34	0.34
1	890	100 Year	39.38	220.9	222.79		222.83	0.000618	1.19	59.69	82.43	0.29
1	890	Hazel	29.71	220.9	222.64		222.67	0.000533	1.04	51.33	79.1	0.26
1	890	Hazel w CC	36.02	220.9	222.79		222.82	0.000526	1.09	59.33	82.34	0.27
1	875	100 Year	39.38	220.95	222.79		222.82	0.000483	1.06	60.93	58.83	0.26
1	875	Hazel	29.71	220.95	222.64		222.66	0.000399	0.91	53.74	57.4	0.23
1	875	Hazel w CC	36.02	220.95	222.78		222.81	0.000409	0.98	60.67	58.79	0.24
1	858	100 Year	52.31	221.15	222.64		222.78	0.006401	2.21	35.86	41.52	0.59
1	858	Hazel	42.22	221.15	222.5		222.63	0.006629	2.09	30.2	38.76	0.59
1	858	Hazel w CC	51.23	221.15	222.64		222.77	0.006205	2.17	35.72	41.48	0.58
1	844	100 Year	52.31	221.13	222.7		222.73	0.000676	1.13	72.12	217.26	0.3
1	844	Hazel	42.22	221.13	222.55		222.58	0.000627	1.01	64.2	209.69	0.28
1	844	Hazel w CC	51.23	221.13	222.69		222.72	0.000656	1.11	71.83	217.04	0.3
1	832	100 Year	52.31	220.92	222.69		222.72	0.000351	1.02	86.46	148.62	0.25
1	832	Hazel	42.22	220.92	222.55		222.57	0.000313	0.91	77.83	147.24	0.23
1	832	Hazel w CC	51.23	220.92	222.69		222.72	0.000341	1	86.14	148.58	0.24
1	803	100 Year	54.24	220.98	222.68		222.71	0.000575	0.99	71.66	52.75	0.25
1	803	Hazel	43.95	220.98	222.53		222.56	0.000522	0.89	64.25	51.41	0.23
1	803	Hazel w CC	53.38	220.98	222.67		222.7	0.000563	0.98	71.39	52.7	0.24

Bunkers Creek - Calibration -25% Mannings

1	787	100 Year	54.24	220.95	222.68		222.7	0.000195	0.68	111.87	74.59	0.17
1	787	Hazel	43.95	220.95	222.54		222.55	0.000174	0.6	101.24	72.87	0.15
1	787	Hazel w CC	53.38	220.95	222.68		222.69	0.000191	0.67	111.48	74.54	0.16
1	760	100 Year	54.24	220.9	222.68		222.69	0.000133	0.59	130.69	84.58	0.14
1	760	Hazel	43.95	220.9	222.54		222.55	0.000118	0.52	118.68	82.44	0.13
1	760	Hazel w CC	53.38	220.9	222.68		222.69	0.00013	0.58	130.25	84.41	0.14
1	713	100 Year	54.24	220.85	222.42		222.65	0.002641	2.39	29.53	30.54	0.63
1	713	Hazel	43.95	220.85	222.33		222.51	0.002191	2.09	27.03	28.13	0.57
1	713	Hazel w CC	53.38	220.85	222.43		222.65	0.002522	2.35	29.7	30.71	0.62
1	682	100 Year	54.24	219.92	222.26		222.56	0.003183	2.53	24.79	20.73	0.54
1	682	Hazel	43.95	219.92	222.25		222.44	0.002138	2.07	24.52	20.48	0.44
1	682	Hazel w CC	53.38	219.92	222.28		222.56	0.002993	2.47	25.14	21.01	0.53
1	652	100 Year	54.24	219.79	222.32		222.45	0.001288	2.07	42.41	42.83	0.42
1	652	Hazel	43.95	219.79	222.28		222.37	0.000903	1.72	40.9	37.63	0.35
1	652	Hazel w CC	53.38	219.79	222.33		222.46	0.001224	2.03	42.94	44.27	0.41
1	621	100 Year	56.17	219.66	222.36		222.4	0.000437	1.46	80.89	79.15	0.29
1	621	Hazel	47.22	219.66	222.3		222.34	0.00034	1.27	77.08	68.13	0.26
1	621	Hazel w CC	57.38	219.66	222.36		222.41	0.000449	1.48	81.48	79.25	0.3
1	577	100 Year	56.17	219.65	222.2	222.16	222.34	0.001498	2.21	55.59	119.67	0.46
1	577	Hazel	47.22	219.65	222.17	222.1	222.29	0.001266	2.01	51.48	115.44	0.42
1	577	Hazel w CC	57.38	219.65	222.2	222.17	222.35	0.001595	2.28	55.08	119.39	0.47
1	Innisfil Street	Culvert										
1	543	100 Year	56.17	219.46	222.11	222.11	222.29	0.001506	2.42	42.18	106.51	0.53
1	543	Hazel	47.22	219.46	222.06	222.06	222.23	0.00141	2.32	36.91	103.51	0.51
1	543	Hazel w CC	57.38	219.46	222.11	222.11	222.29	0.001523	2.44	42.81	106.81	0.53
1	520	100 Year	56.17	219.36	221.67	221.67	221.91	0.00286	2.79	32.2	71.15	0.6
1	520	Hazel	47.22	219.36	221.56	221.56	221.82	0.003132	2.82	26.31	47.77	0.63
1	520	Hazel w CC	57.38	219.36	221.67	221.67	221.92	0.002964	2.84	32.31	71.8	0.61
1	494	100 Year	56.17	219.3	221.3	221.3	221.58	0.003471	2.83	28.2	50.78	0.65
1	494	Hazel	47.22	219.3	221.18	221.14	221.48	0.003782	2.83	22.84	37.24	0.67
1	494	Hazel w CC	57.38	219.3	221.33	221.33	221.59	0.003207	2.75	29.84	54.18	0.63
1	469	100 Year	56.17	219.33	221.19	221.19	221.43	0.004146	2.54	26.96	49.94	0.62
1	469	Hazel	47.22	219.33	221.13	221.13	221.35	0.004062	2.46	24.22	47.65	0.61
1	469	Hazel w CC	57.38	219.33	221.18	221.18	221.45	0.004454	2.63	26.71	49.79	0.64
1	443	100 Year	55.96	219.28	221.17		221.28	0.001122	1.29	38.32	59.68	0.3
1	443	Hazel	47.46	219.28	221.09		221.2	0.001126	1.25	33.83	54.19	0.3
1	443	Hazel w CC	57.68	219.28	221.18		221.3	0.001112	1.29	39.16	60.05	0.3
1	427	100 Year	55.96	219.27	221.18	220.86	221.24	0.000795	1.38	50.27	77.55	0.32
1	427	Hazel	47.46	219.27	221.09	220.81	221.16	0.000867	1.4	43.91	74.69	0.33
1	427	Hazel w CC	57.68	219.27	221.19	220.87	221.26	0.000784	1.38	51.42	77.93	0.32
1	Commercial Entra	Culvert										
1	402	100 Year	55.96	219.07	220.91	220.91	221.23	0.006609	3.27	28.27	39.19	0.79
1	402	Hazel	47.46	219.07	220.85	220.85	221.13	0.006108	3.06	25.69	38.68	0.76
1	402	Hazel w CC	57.68	219.07	220.92	220.92	221.25	0.006826	3.33	28.57	39.25	0.81
1	382	100 Year	55.96	218.93	220.95		220.98	0.000838	1.26	74.64	98.89	0.29
1	382	Hazel	47.46	218.93	220.89		220.92	0.000754	1.18	69.21	98.13	0.28
1	382	Hazel w CC	57.68	218.93	220.96		221	0.000836	1.27	76.24	99.24	0.29
1	358	100 Year	55.96	218.99	220.92	220.49	220.96	0.000887	1.26	73.23	96.69	0.3
1	358	Hazel	47.46	218.99	220.87	220.46	220.9	0.000791	1.17	68.2	95.62	0.28

Bunkers Creek - Calibration -25% Mannings												
1	358	Hazel w CC	57.68	218.99	220.94	220.54	220.98	0.000884	1.27	74.8	97.13	0.3
1	328	100 Year	57.61	218.85	220.9	220.48	220.93	0.000867	1.17	73.92	104.36	0.28
1	328	Hazel	49.11	218.85	220.85	220.44	220.88	0.000785	1.09	68.77	102.74	0.26
1	328	Hazel w CC	59.81	218.85	220.91	220.5	220.95	0.000882	1.19	75.52	105.56	0.28
1	303	100 Year	57.61	218.78	220.8	220.68	220.89	0.001356	1.68	56.51	110.26	0.4
1	303	Hazel	49.11	218.78	220.76	220.64	220.84	0.001195	1.56	52.75	108.38	0.37
1	303	Hazel w CC	59.81	218.78	220.81	220.68	220.91	0.001342	1.68	58.2	110.94	0.4
1	Bradford Street		Culvert									
1	274.9	100 Year	57.61	218.67	220.61	220.61	220.79	0.002555	2.22	31.76	91.94	0.54
1	274.9	Hazel	49.11	218.67	220.58	220.58	220.74	0.002483	2.16	28.57	87.26	0.53
1	274.9	Hazel w CC	59.81	218.67	220.62	220.62	220.8	0.002529	2.22	32.64	92.27	0.53
1	239.3	100 Year	57.61	218.77	220.3	219.99	220.34	0.000495	0.72	66.75	115.12	0.19
1	239.3	Hazel	49.11	218.77	220.27	219.95	220.3	0.000421	0.66	63.12	111.57	0.18
1	239.3	Hazel w CC	59.81	218.77	220.32	220	220.36	0.000473	0.72	69.46	117.01	0.19
1	214	100 Year	57.61	218.74	220.27	220.08	220.32	0.001283	1.16	62.08	158.07	0.31
1	214	Hazel	49.11	218.74	220.24	220.03	220.28	0.001166	1.09	57.33	154.79	0.29
1	214	Hazel w CC	59.81	218.74	220.3	220.08	220.34	0.001162	1.11	66.42	160.84	0.3
1	184	100 Year	55.53	218.69	220.26	219.59	220.28	0.000924	1.04	96.23	160.63	0.27
1	184	Hazel	49.29	218.69	220.23	219.61	220.25	0.00074	0.92	91.78	156.85	0.24
1	184	Hazel w CC	60.08	218.69	220.28	219.68	220.31	0.00096	1.07	100.28	161.49	0.28
1	168.01	100 Year	55.53	218.74	220.25	219.56	220.27	0.000799	0.93	98.12	155.27	0.25
1	168.01	Hazel	49.29	218.74	220.22	219.54	220.24	0.000651	0.83	94.61	144.98	0.22
1	168.01	Hazel w CC	60.08	218.74	220.27	219.58	220.29	0.000843	0.97	101.52	159.33	0.26
1	146.6	100 Year	55.53	218.76	220.25	219.34	220.25	0.00023	0.56	140.31	129.88	0.15
1	146.6	Hazel	49.29	218.76	220.22	219.31	220.23	0.000194	0.51	137.02	129.05	0.14
1	146.6	Hazel w CC	60.08	218.76	220.27	219.35	220.28	0.000252	0.59	143.46	130.66	0.16
1	123.1	100 Year	55.53	218.65	220.24		220.25	0.000134	0.47	147.53	132.46	0.12
1	123.1	Hazel	49.29	218.65	220.22		220.22	0.000111	0.42	144.28	130.28	0.11
1	123.1	Hazel w CC	60.08	218.65	220.27		220.27	0.000148	0.5	150.7	134.1	0.13
1	86.8	100 Year	55.83	218.68	220.24		220.25	0.000078	0.37	175.48	150.17	0.1
1	86.8	Hazel	50.08	218.68	220.22		220.22	0.000067	0.34	171.8	149.42	0.09
1	86.8	Hazel w CC	60.96	218.68	220.26		220.27	0.000089	0.39	178.99	150.72	0.1
1	55.6	100 Year	55.83	218.31	220.2	219.47	220.23	0.000473	1	112.36	281.22	0.28
1	55.6	Hazel	50.08	218.31	220.18	219.39	220.21	0.000421	0.93	106.7	266.15	0.26
1	55.6	Hazel w CC	60.96	218.31	220.22	219.86	220.26	0.000518	1.06	118.07	288.63	0.29
1	Lakeshore		Bridge									
1	19.9	100 Year	55.83	218.66	220	220	220.09	0.00428	1.66	51.57	286.03	0.57
1	19.9	Hazel	50.08	218.66	220	220	220.08	0.003416	1.48	51.74	286.13	0.51
1	19.9	Hazel w CC	60.96	218.66	220.01	220.01	220.11	0.004404	1.7	54.74	287.73	0.58
1	5	100 Year	55.83	218.01	219.55	219.55	219.7	0.002385	1.94	40.6	145.79	0.62
1	5	Hazel	50.08	218.01	219.53	219.53	219.67	0.002271	1.87	36.97	133.07	0.61
1	5	Hazel w CC	60.96	218.01	219.58	219.58	219.73	0.002458	1.99	43.91	155.97	0.63
1	Pedestrian Bridg		Culvert									
1	0	100 Year	55.83	218.01	219.47	219.47	219.6	0.003448	1.84	50.95	230.54	0.67
1	0	Hazel	50.08	218.01	219.46	219.46	219.57	0.003084	1.72	48.19	219.53	0.63
1	0	Hazel w CC	60.96	218.01	219.5	219.5	219.62	0.003057	1.78	59.15	241.61	0.63
1	-21	100 Year	55.83	218	219.13	218.18	219.13	0.000059	0.2	277.1	247.1	0.06
1	-21	Hazel	50.08	218	219.13	218.16	219.13	0.000048	0.18	277.1	247.1	0.05
1	-21	Hazel w CC	60.96	218	219.13	218.18	219.13	0.000071	0.22	277.1	247.1	0.07

Bunkers Creek - Calibration +50% Expansion / Contraction

Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
			(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
1	1305	100 Year	36.79	224.04	225.75		226.08	0.013306	3.26	16.77	12.48	0.81
1	1305	Hazel	27.84	224.04	225.55		225.81	0.012299	2.88	14.35	12.16	0.76
1	1305	Hazel w CC	33.77	224.04	225.69		225.99	0.012812	3.12	16.06	12.39	0.79
1	1279	100 Year	36.79	223.46	225.2	225.2	225.68	0.015307	3.91	15.22	14.98	0.96
1	1279	Hazel	27.84	223.46	225.02	225.02	225.43	0.014841	3.58	12.59	14.29	0.93
1	1279	Hazel w CC	33.77	223.46	225.13	225.13	225.6	0.015459	3.83	14.25	14.71	0.96
1	1267	100 Year	36.79	223.27	224.85	224.85	225.28	0.016675	3.31	13.83	16.53	0.87
1	1267	Hazel	27.84	223.27	224.69	224.69	225.06	0.016335	3.03	11.22	15.74	0.85
1	1267	Hazel w CC	33.77	223.27	224.8	224.8	225.21	0.01684	3.24	12.9	16.29	0.87
1	1257	100 Year	36.79	223.12	224.74		225.02	0.014049	2.76	18.2	21.5	0.73
1	1257	Hazel	27.84	223.12	224.63		224.84	0.01162	2.38	15.84	20.94	0.65
1	1257	Hazel w CC	33.77	223.12	224.69		224.96	0.014207	2.7	16.99	21.19	0.73
1	1250	100 Year	36.79	222.97	224.71		224.9	0.009596	2.48	26.38	41.4	0.63
1	1250	Hazel	27.84	222.97	224.52	224.52	224.76	0.01192	2.54	18.88	39.99	0.69
1	1250	Hazel w CC	33.77	222.97	224.62	224.6	224.85	0.011707	2.63	22.63	40.88	0.69
1	1240	100 Year	36.79	222.79	224.63		224.81	0.007332	2.34	26.67	38.47	0.57
1	1240	Hazel	27.84	222.79	224.34	224.26	224.58	0.010652	2.49	16.81	27.54	0.67
1	1240	Hazel w CC	33.77	222.79	224.53		224.74	0.00861	2.43	22.9	36.38	0.61
1	1228	100 Year	36.79	222.78	224.6		224.72	0.004067	1.87	30.07	26.54	0.45
1	1228	Hazel	27.84	222.78	224.32		224.43	0.004809	1.81	23.13	24.06	0.48
1	1228	Hazel w CC	33.77	222.78	224.51		224.62	0.004248	1.84	27.71	25.15	0.46
1	1212	100 Year	36.79	222.57	224.56		224.64	0.003681	1.56	32.06	25.41	0.37
1	1212	Hazel	27.84	222.57	224.27		224.35	0.004586	1.55	24.77	24.46	0.4
1	1212	Hazel w CC	33.77	222.57	224.46		224.54	0.003929	1.56	29.65	25.12	0.38
1	1196	100 Year	36.79	222.54	224.49		224.59	0.00257	1.76	31.68	24.02	0.41
1	1196	Hazel	27.84	222.54	224.19		224.29	0.002947	1.68	24.76	22.64	0.43
1	1196	Hazel w CC	33.77	222.54	224.39		224.49	0.002679	1.73	29.37	23.57	0.42
1	1183	100 Year	36.79	222.26	224.47		224.56	0.001519	1.62	36.42	23.4	0.35
1	1183	Hazel	27.84	222.26	224.18		224.25	0.001557	1.49	29.63	22.61	0.35
1	1183	Hazel w CC	33.77	222.26	224.37		224.46	0.001532	1.58	34.18	23.14	0.35
1	1168	100 Year	36.79	222.26	224.47		224.53	0.001279	1.46	43.43	26.93	0.32
1	1168	Hazel	27.84	222.26	224.17		224.22	0.001339	1.35	35.53	26.06	0.32
1	1168	Hazel w CC	33.77	222.26	224.37		224.43	0.001298	1.42	40.82	26.65	0.32
1	1150	100 Year	36.79	222.03	224.4		224.49	0.002993	1.69	31.96	20.62	0.36
1	1150	Hazel	27.84	222.03	224.1		224.18	0.003145	1.58	26.01	19.58	0.36
1	1150	Hazel w CC	33.77	222.03	224.3		224.39	0.003042	1.66	29.98	20.25	0.36
1	1141	100 Year	36.79	221.94	224.11		224.41	0.007939	2.92	18.06	13.44	0.65
1	1141	Hazel	27.84	221.94	223.83		224.11	0.008378	2.73	14.49	12.5	0.65
1	1141	Hazel w CC	33.77	221.94	224.02		224.31	0.008122	2.87	16.84	13.13	0.65
1	1124	100 Year	36.79	221.82	224.06		224.27	0.004563	2.26	21.54	15.89	0.5
1	1124	Hazel	27.84	221.82	223.78		223.96	0.004927	2.11	17.11	14.91	0.51
1	1124	Hazel w CC	33.77	221.82	223.97		224.16	0.004694	2.22	20.03	15.55	0.51
1	1107	100 Year	36.79	221.83	224.02		224.17	0.003903	2	23.67	17.4	0.44
1	1107	Hazel	27.84	221.83	223.72		223.86	0.004317	1.9	18.61	16.34	0.45
1	1107	Hazel w CC	33.77	221.83	223.92		224.07	0.004043	1.97	21.95	17.07	0.44
1	1088	100 Year	36.79	221.8	223.97		224.1	0.00268	1.93	27.8	19.83	0.43
1	1088	Hazel	27.84	221.8	223.66		223.78	0.002998	1.84	21.84	18.86	0.44
1	1088	Hazel w CC	33.77	221.8	223.87		223.99	0.002783	1.9	25.79	19.51	0.43

Bunkers Creek - Calibration +50% Expansion / Contraction

1	1072	100 Year	36.79	221.55	223.98		224.03	0.001559	1.24	39.81	26.06	0.26
1	1072	Hazel	27.84	221.55	223.67		223.71	0.001684	1.17	31.83	24.91	0.26
1	1072	Hazel w CC	33.77	221.55	223.88		223.93	0.001603	1.22	37.13	25.71	0.26
1	1067	100 Year	36.79	221.52	223.98		224.02	0.001332	1.07	44.39	28.67	0.23
1	1067	Hazel	27.84	221.52	223.67		223.7	0.00146	1.02	35.53	27.74	0.23
1	1067	Hazel w CC	33.77	221.52	223.88		223.91	0.001373	1.06	41.42	28.34	0.23
1	1055	100 Year	39.38	221.42	223.93		224	0.0013	1.53	44.98	34.32	0.31
1	1055	Hazel	29.71	221.42	223.62		223.68	0.001345	1.42	35.71	27.14	0.31
1	1055	Hazel w CC	36.02	221.42	223.83		223.89	0.001325	1.5	41.57	30.96	0.32
1	1038	100 Year	39.38	221.4	223.92		223.97	0.001809	1.16	45	32.48	0.24
1	1038	Hazel	29.71	221.4	223.6		223.65	0.002121	1.14	35.03	30.61	0.26
1	1038	Hazel w CC	36.02	221.4	223.81		223.86	0.001886	1.14	41.63	31.69	0.24
1	1024	100 Year	39.38	221.23	223.86		223.93	0.002256	1.45	36.05	25.1	0.3
1	1024	Hazel	29.71	221.23	223.54		223.61	0.002485	1.39	28.23	23.9	0.3
1	1024	Hazel w CC	36.02	221.23	223.75		223.83	0.002322	1.43	33.42	24.77	0.3
1	1007	100 Year	39.38	221.38	223.72		223.87	0.003352	2.28	28.56	17.99	0.48
1	1007	Hazel	29.71	221.38	223.41		223.55	0.00344	2.1	23.24	17.11	0.48
1	1007	Hazel w CC	36.02	221.38	223.62		223.77	0.003371	2.22	26.78	17.68	0.48
1	990	100 Year	39.38	221.21	223.1	223.1	223.71	0.014723	3.78	13.25	11.13	0.9
1	990	Hazel	29.71	221.21	222.84	222.83	223.38	0.015995	3.55	10.48	10.01	0.91
1	990	Hazel w CC	36.02	221.21	223.02	223.02	223.6	0.014875	3.69	12.38	10.81	0.89
1	968	100 Year	39.38	221.07	223.01		223.15	0.00878	2.14	27	24.41	0.51
1	968	Hazel	29.71	221.07	222.84		222.95	0.00805	1.92	22.99	23.73	0.48
1	968	Hazel w CC	36.02	221.07	222.99		223.11	0.007719	2	26.56	24.34	0.48
1	953	100 Year	39.38	220.99	223		223.04	0.00222	1.17	51.08	41.46	0.27
1	953	Hazel	29.71	220.99	222.83		222.86	0.002014	1.05	44.02	40.96	0.26
1	953	Hazel w CC	36.02	220.99	222.98		223.02	0.001947	1.09	50.33	41.4	0.26
1	935	100 Year	39.38	220.96	223		223.01	0.000526	0.75	79.59	117.4	0.17
1	935	Hazel	29.71	220.96	222.83		222.84	0.000446	0.65	70.3	113.65	0.16
1	935	Hazel w CC	36.02	220.96	222.98		222.99	0.000457	0.69	78.62	117.07	0.16
1	904	100 Year	39.38	220.93	222.96		222.99	0.00097	1.23	70.59	116.09	0.29
1	904	Hazel	29.71	220.93	222.79		222.81	0.000909	1.12	59.19	110.3	0.28
1	904	Hazel w CC	36.02	220.93	222.95		222.97	0.00084	1.14	69.73	115.79	0.27
1	890	100 Year	39.38	220.9	222.95		222.97	0.000733	1.03	68.65	83.91	0.24
1	890	Hazel	29.71	220.9	222.78		222.8	0.000645	0.91	59.01	82.26	0.22
1	890	Hazel w CC	36.02	220.9	222.94		222.96	0.000631	0.95	68	83.83	0.22
1	875	100 Year	39.38	220.95	222.94		222.96	0.000608	0.94	68.4	60.55	0.22
1	875	Hazel	29.71	220.95	222.77		222.79	0.000503	0.81	60.27	58.71	0.2
1	875	Hazel w CC	36.02	220.95	222.93		222.95	0.000519	0.87	67.91	60.42	0.2
1	858	100 Year	52.31	221.15	222.83		222.92	0.006564	1.83	44.1	44.33	0.46
1	858	Hazel	42.22	221.15	222.67		222.76	0.006903	1.74	37	42.3	0.46
1	858	Hazel w CC	51.23	221.15	222.82		222.91	0.006473	1.81	43.68	44.26	0.45
1	844	100 Year	52.31	221.13	222.84		222.87	0.000868	1.02	80.31	223.25	0.26
1	844	Hazel	42.22	221.13	222.68		222.7	0.000811	0.92	71.2	215.95	0.25
1	844	Hazel w CC	51.23	221.13	222.83		222.86	0.000851	1.01	79.76	222.9	0.26
1	832	100 Year	52.31	220.92	222.84		222.86	0.00047	0.93	95.11	150.16	0.22
1	832	Hazel	42.22	220.92	222.67		222.69	0.000424	0.84	85.24	148.45	0.2
1	832	Hazel w CC	51.23	220.92	222.83		222.85	0.000459	0.92	94.52	150.02	0.22
1	803	100 Year	54.24	220.98	222.81		222.84	0.000763	0.9	79.1	54.1	0.22
1	803	Hazel	43.95	220.98	222.65		222.68	0.000702	0.81	70.53	52.55	0.2
1	803	Hazel w CC	53.38	220.98	222.81		222.83	0.000753	0.89	78.58	53.98	0.21

Bunkers Creek - Calibration +50% Expansion / Contraction

1	787	100 Year	54.24	220.95	222.82		222.83	0.000266	0.62	121.85	76	0.15
1	787	Hazel	43.95	220.95	222.66		222.66	0.000241	0.56	109.73	74.3	0.14
1	787	Hazel w CC	53.38	220.95	222.81		222.82	0.000262	0.62	121.12	75.89	0.15
1	760	100 Year	54.24	220.9	222.81		222.82	0.000186	0.55	142.32	93.27	0.13
1	760	Hazel	43.95	220.9	222.65		222.66	0.000165	0.49	128.07	83.63	0.12
1	760	Hazel w CC	53.38	220.9	222.8		222.81	0.000182	0.54	141.43	92.96	0.13
1	713	100 Year	54.24	220.85	222.61		222.78	0.002905	2.05	36.07	40.32	0.51
1	713	Hazel	43.95	220.85	222.48		222.62	0.002623	1.84	31.45	32.11	0.48
1	713	Hazel w CC	53.38	220.85	222.61		222.77	0.002847	2.02	35.87	39.98	0.5
1	682	100 Year	54.24	219.92	222.41		222.65	0.004378	2.33	28.01	23.82	0.48
1	682	Hazel	43.95	219.92	222.35		222.52	0.003168	1.95	26.71	21.93	0.41
1	682	Hazel w CC	53.38	219.92	222.41		222.65	0.004229	2.29	28.08	24.12	0.48
1	652	100 Year	54.24	219.79	222.4		222.51	0.002008	1.98	45.87	50.47	0.4
1	652	Hazel	43.95	219.79	222.34		222.42	0.001458	1.66	43.17	44.66	0.34
1	652	Hazel w CC	53.38	219.79	222.4		222.51	0.001932	1.95	46.06	50.72	0.39
1	621	100 Year	56.17	219.66	222.4		222.44	0.000712	1.41	84.39	79.62	0.28
1	621	Hazel	47.22	219.66	222.34		222.37	0.000565	1.24	79.55	77.23	0.25
1	621	Hazel w CC	57.38	219.66	222.4		222.45	0.000742	1.44	84.42	79.63	0.29
1	577	100 Year	56.17	219.65	222.19	222.16	222.34	0.002846	2.28	53.93	118.08	0.47
1	577	Hazel	47.22	219.65	222.16	222.1	222.29	0.002345	2.05	50.52	114.77	0.43
1	577	Hazel w CC	57.38	219.65	222.23	222.17	222.36	0.002465	2.14	58.37	120.63	0.44
1	Innisfil Street	Culvert										
1	543	100 Year	56.17	219.46	222.11	222.11	222.29	0.002667	2.42	42.16	106.51	0.53
1	543	Hazel	47.22	219.46	222.06	222.06	222.23	0.002497	2.32	36.9	103.5	0.51
1	543	Hazel w CC	57.38	219.46	222.11	222.11	222.29	0.002697	2.44	42.78	106.8	0.53
1	520	100 Year	56.17	219.36	221.67	221.67	221.91	0.005061	2.79	32.21	71.22	0.6
1	520	Hazel	47.22	219.36	221.56	221.56	221.82	0.005546	2.82	26.31	47.78	0.62
1	520	Hazel w CC	57.38	219.36	221.67	221.67	221.92	0.005247	2.84	32.32	71.85	0.61
1	494	100 Year	56.17	219.3	221.35	221.3	221.58	0.004919	2.58	31.15	56.09	0.58
1	494	Hazel	47.22	219.3	221.3	221.14	221.49	0.004388	2.39	28.07	50.43	0.55
1	494	Hazel w CC	57.38	219.3	221.36	221.33	221.59	0.004952	2.6	31.7	57.59	0.59
1	469	100 Year	56.17	219.33	221.21	221.18	221.44	0.006474	2.41	28	50.27	0.59
1	469	Hazel	47.22	219.33	221.14	221.13	221.35	0.007062	2.44	24.36	47.74	0.61
1	469	Hazel w CC	57.38	219.33	221.23	221.18	221.45	0.006077	2.35	28.9	50.53	0.57
1	443	100 Year	55.96	219.28	221.2		221.3	0.001699	1.2	40.17	60.44	0.28
1	443	Hazel	47.46	219.28	221.12		221.22	0.001718	1.18	35.55	55.63	0.28
1	443	Hazel w CC	57.68	219.28	221.21		221.32	0.001659	1.2	41.2	60.75	0.28
1	427	100 Year	55.96	219.27	221.18	220.86	221.25	0.001348	1.35	50.87	77.67	0.32
1	427	Hazel	47.46	219.27	221.1	220.8	221.17	0.001501	1.39	44.61	75.69	0.33
1	427	Hazel w CC	57.68	219.27	221.2	220.87	221.27	0.001337	1.36	52.25	79.43	0.31
1	Commercial Entra	Culvert										
1	402	100 Year	55.96	219.07	221		221.24	0.008639	2.9	31.8	41.37	0.69
1	402	Hazel	47.46	219.07	220.94		221.15	0.007646	2.67	29.38	39.69	0.64
1	402	Hazel w CC	57.68	219.07	221.02		221.26	0.008763	2.94	32.41	43.05	0.69
1	382	100 Year	55.96	218.93	221		221.03	0.001193	1.15	80.3	100.14	0.27
1	382	Hazel	47.46	218.93	220.94		220.97	0.001095	1.08	74.02	98.76	0.25
1	382	Hazel w CC	57.68	218.93	221.02		221.05	0.001197	1.16	81.84	100.57	0.27
1	358	100 Year	55.96	218.99	220.97	220.49	221	0.001314	1.17	77.73	97.76	0.28
1	358	Hazel	47.46	218.99	220.91	220.46	220.94	0.001195	1.1	71.91	96.39	0.26

Bunkers Creek - Calibration +50% Expansion / Contraction												
1	358	Hazel w CC	57.68	218.99	220.99	220.54	221.02	0.001318	1.18	79.21	97.9	0.28
1	328	100 Year	57.61	218.85	220.93	220.48	220.96	0.001362	1.11	77.13	106.34	0.26
1	328	Hazel	49.11	218.85	220.87	220.44	220.9	0.00125	1.05	71.25	103.57	0.25
1	328	Hazel w CC	59.81	218.85	220.94	220.5	220.98	0.001379	1.13	78.65	106.71	0.27
1	303	100 Year	57.61	218.78	220.8	220.68	220.89	0.002402	1.68	56.5	110.25	0.4
1	303	Hazel	49.11	218.78	220.76	220.64	220.84	0.002198	1.58	52.03	108.28	0.38
1	303	Hazel w CC	59.81	218.78	220.81	220.68	220.9	0.002422	1.7	57.81	110.9	0.4
1	Bradford Street		Culvert									
1	274.9	100 Year	57.61	218.67	220.61	220.61	220.79	0.004544	2.22	31.68	91.91	0.54
1	274.9	Hazel	49.11	218.67	220.58	220.58	220.74	0.004393	2.15	28.56	87.25	0.53
1	274.9	Hazel w CC	59.81	218.67	220.62	220.62	220.8	0.004476	2.21	32.62	92.26	0.53
1	239.3	100 Year	57.61	218.77	220.35	219.99	220.39	0.00067	0.65	72.84	118.64	0.17
1	239.3	Hazel	49.11	218.77	220.32	219.95	220.34	0.000581	0.59	68.74	116.67	0.16
1	239.3	Hazel w CC	59.81	218.77	220.38	220	220.41	0.000646	0.64	75.55	120.27	0.17
1	214	100 Year	57.61	218.74	220.32	220.08	220.36	0.001597	0.99	70.4	167.59	0.26
1	214	Hazel	49.11	218.74	220.29	220.03	220.32	0.001478	0.94	64.98	160.22	0.25
1	214	Hazel w CC	59.81	218.74	220.35	220.08	220.38	0.001427	0.95	74.85	170.39	0.25
1	184	100 Year	55.53	218.69	220.29	219.59	220.31	0.001423	0.98	101.02	161.65	0.26
1	184	Hazel	49.29	218.69	220.26	219.61	220.27	0.001302	0.93	95.93	160.56	0.24
1	184	Hazel w CC	60.08	218.69	220.31	219.68	220.33	0.001471	1.01	105.43	168.54	0.26
1	168.01	100 Year	55.53	218.74	220.27	219.57	220.28	0.001295	0.9	101.06	158.9	0.24
1	168.01	Hazel	49.29	218.74	220.24	219.54	220.25	0.001079	0.81	97.07	152.87	0.22
1	168.01	Hazel w CC	60.08	218.74	220.29	219.58	220.31	0.001359	0.93	104.71	165.03	0.25
1	146.6	100 Year	55.53	218.76	220.26	219.34	220.27	0.000393	0.55	142.08	130.24	0.15
1	146.6	Hazel	49.29	218.76	220.23	219.31	220.24	0.000334	0.5	138.54	129.49	0.14
1	146.6	Hazel w CC	60.08	218.76	220.28	219.35	220.29	0.00043	0.59	145.4	131.08	0.16
1	123.1	100 Year	55.53	218.65	220.25		220.26	0.000232	0.47	148.94	133.53	0.12
1	123.1	Hazel	49.29	218.65	220.23		220.23	0.000194	0.42	145.47	130.87	0.11
1	123.1	Hazel w CC	60.08	218.65	220.28		220.29	0.000255	0.5	152.25	134.57	0.13
1	86.8	100 Year	55.83	218.68	220.25		220.25	0.000137	0.37	176.6	150.28	0.1
1	86.8	Hazel	50.08	218.68	220.22		220.23	0.000117	0.33	172.78	149.6	0.09
1	86.8	Hazel w CC	60.96	218.68	220.27		220.28	0.000154	0.39	180.22	151.29	0.1
1	55.6	100 Year	55.83	218.31	220.2	219.47	220.23	0.000839	1	112.33	281.2	0.28
1	55.6	Hazel	50.08	218.31	220.18	219.39	220.21	0.000746	0.93	106.67	266.08	0.26
1	55.6	Hazel w CC	60.96	218.31	220.22	219.86	220.26	0.000918	1.06	118	288.61	0.29
1	Lakeshore		Bridge									
1	19.9	100 Year	55.83	218.66	220	220	220.09	0.007584	1.66	51.55	286.02	0.57
1	19.9	Hazel	50.08	218.66	220	220	220.08	0.006054	1.48	51.72	286.12	0.51
1	19.9	Hazel w CC	60.96	218.66	220.01	220.01	220.11	0.007815	1.7	54.69	287.71	0.58
1	5	100 Year	55.83	218.01	219.55	219.55	219.7	0.004223	1.94	40.59	145.77	0.62
1	5	Hazel	50.08	218.01	219.53	219.53	219.67	0.00402	1.87	36.97	133.07	0.61
1	5	Hazel w CC	60.96	218.01	219.58	219.58	219.73	0.004352	1.99	43.9	155.95	0.63
1	Pedestrian Bridg		Culvert									
1	0	100 Year	55.83	218.01	219.47	219.47	219.6	0.006137	1.84	50.82	230.16	0.67
1	0	Hazel	50.08	218.01	219.45	219.45	219.57	0.005594	1.74	47.59	216.24	0.64
1	0	Hazel w CC	60.96	218.01	219.51	219.51	219.62	0.005385	1.78	59.3	241.71	0.63
1	-21	100 Year	55.83	218	219.13	218.18	219.13	0.000105	0.2	277.1	247.1	0.06
1	-21	Hazel	50.08	218	219.13	218.16	219.13	0.000085	0.18	277.1	247.1	0.05
1	-21	Hazel w CC	60.96	218	219.13	218.18	219.13	0.000125	0.22	277.1	247.1	0.07

Bunkers Creek - Calibration -50% Expansion / Contraction

Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
			(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
1	1305	100 Year	36.79	224.04	225.73		226.07	0.013817	3.3	16.57	12.46	0.82
1	1305	Hazel	27.84	224.04	225.54		225.8	0.0128	2.92	14.17	12.14	0.77
1	1305	Hazel w CC	33.77	224.04	225.67		225.98	0.013341	3.16	15.85	12.36	0.8
1	1279	100 Year	36.79	223.46	225.2	225.2	225.68	0.015307	3.91	15.22	14.98	0.96
1	1279	Hazel	27.84	223.46	225.02	225.02	225.43	0.014841	3.58	12.59	14.29	0.93
1	1279	Hazel w CC	33.77	223.46	225.13	225.13	225.6	0.015459	3.83	14.25	14.71	0.96
1	1267	100 Year	36.79	223.27	224.85	224.85	225.28	0.016675	3.31	13.83	16.53	0.87
1	1267	Hazel	27.84	223.27	224.69	224.69	225.06	0.016335	3.03	11.22	15.74	0.85
1	1267	Hazel w CC	33.77	223.27	224.8	224.8	225.21	0.01684	3.24	12.9	16.29	0.87
1	1257	100 Year	36.79	223.12	224.68	224.63	225.01	0.017175	2.96	16.87	21.16	0.8
1	1257	Hazel	27.84	223.12	224.63		224.84	0.011785	2.39	15.75	20.92	0.66
1	1257	Hazel w CC	33.77	223.12	224.67		224.95	0.015223	2.77	16.55	21.09	0.75
1	1250	100 Year	36.79	222.97	224.63	224.63	224.89	0.013034	2.8	23.25	40.96	0.73
1	1250	Hazel	27.84	222.97	224.52	224.52	224.76	0.01192	2.54	18.88	39.99	0.69
1	1250	Hazel w CC	33.77	222.97	224.6	224.6	224.85	0.012788	2.72	21.79	40.77	0.72
1	1240	100 Year	36.79	222.79	224.49	224.41	224.76	0.011275	2.75	21.64	35.66	0.7
1	1240	Hazel	27.84	222.79	224.26	224.26	224.56	0.014189	2.77	14.85	23.86	0.76
1	1240	Hazel w CC	33.77	222.79	224.37	224.32	224.7	0.014315	2.93	17.71	29.19	0.77
1	1228	100 Year	36.79	222.78	224.53		224.66	0.00482	1.98	28.17	25.29	0.49
1	1228	Hazel	27.84	222.78	224.27		224.4	0.005636	1.91	21.85	23.66	0.52
1	1228	Hazel w CC	33.77	222.78	224.44		224.57	0.005061	1.95	26.04	24.72	0.5
1	1212	100 Year	36.79	222.57	224.49		224.58	0.004394	1.66	30.24	25.19	0.4
1	1212	Hazel	27.84	222.57	224.21		224.3	0.005401	1.64	23.45	24.23	0.43
1	1212	Hazel w CC	33.77	222.57	224.4		224.49	0.004674	1.65	27.99	24.91	0.41
1	1196	100 Year	36.79	222.54	224.41		224.52	0.003085	1.87	29.69	23.63	0.45
1	1196	Hazel	27.84	222.54	224.13		224.23	0.003511	1.78	23.26	22.27	0.46
1	1196	Hazel w CC	33.77	222.54	224.32		224.43	0.003207	1.84	27.55	23.21	0.45
1	1183	100 Year	36.79	222.26	224.39		224.49	0.001769	1.7	34.51	23.18	0.38
1	1183	Hazel	27.84	222.26	224.11		224.2	0.001785	1.55	28.22	22.44	0.37
1	1183	Hazel w CC	33.77	222.26	224.3		224.39	0.001775	1.66	32.44	22.94	0.38
1	1168	100 Year	36.79	222.26	224.39		224.46	0.001471	1.53	41.45	26.72	0.34
1	1168	Hazel	27.84	222.26	224.11		224.17	0.001519	1.41	34.07	25.9	0.33
1	1168	Hazel w CC	33.77	222.26	224.3		224.36	0.001486	1.49	39.02	26.46	0.34
1	1150	100 Year	36.79	222.03	224.32		224.42	0.003495	1.79	30.31	20.31	0.39
1	1150	Hazel	27.84	222.03	224.04		224.13	0.00362	1.66	24.81	19.39	0.39
1	1150	Hazel w CC	33.77	222.03	224.23		224.32	0.003532	1.75	28.49	19.96	0.39
1	1141	100 Year	36.79	221.94	223.98		224.35	0.01048	3.22	16.34	13	0.74
1	1141	Hazel	27.84	221.94	223.73		224.06	0.010698	2.97	13.27	12.16	0.73
1	1141	Hazel w CC	33.77	221.94	223.9		224.26	0.010622	3.15	15.29	12.72	0.74
1	1124	100 Year	36.79	221.82	223.97		224.2	0.005512	2.41	20.11	15.57	0.55
1	1124	Hazel	27.84	221.82	223.7		223.91	0.005854	2.24	16.07	14.66	0.55
1	1124	Hazel w CC	33.77	221.82	223.88		224.11	0.005643	2.36	18.74	15.27	0.55
1	1107	100 Year	36.79	221.83	223.94		224.11	0.004606	2.11	22.29	17.13	0.47
1	1107	Hazel	27.84	221.83	223.66		223.81	0.005041	2	17.57	15.99	0.48
1	1107	Hazel w CC	33.77	221.83	223.85		224.01	0.004761	2.08	20.68	16.8	0.47
1	1088	100 Year	36.79	221.8	223.89		224.03	0.003164	2.04	26.19	19.58	0.46
1	1088	Hazel	27.84	221.8	223.59		223.73	0.00356	1.95	20.52	18.64	0.48
1	1088	Hazel w CC	33.77	221.8	223.79		223.93	0.003292	2.01	24.27	19.27	0.47

Bunkers Creek - Calibration -50% Expansion / Contraction												
1	1072	100 Year	36.79	221.55	223.93		223.98	0.001722	1.28	38.44	25.88	0.27
1	1072	Hazel	27.84	221.55	223.62		223.67	0.001852	1.21	30.77	24.74	0.27
1	1072	Hazel w CC	33.77	221.55	223.83		223.88	0.001769	1.26	35.86	25.54	0.27
1	1067	100 Year	36.79	221.52	223.93		223.97	0.001463	1.11	42.98	28.51	0.24
1	1067	Hazel	27.84	221.52	223.63		223.66	0.001598	1.05	34.44	27.61	0.24
1	1067	Hazel w CC	33.77	221.52	223.83		223.87	0.001507	1.09	40.12	28.21	0.24
1	1055	100 Year	39.38	221.42	223.88		223.95	0.00143	1.58	43.29	32.87	0.33
1	1055	Hazel	29.71	221.42	223.58		223.64	0.00146	1.46	34.63	26.93	0.33
1	1055	Hazel w CC	36.02	221.42	223.78		223.85	0.001453	1.55	40.16	28.88	0.33
1	1038	100 Year	39.38	221.4	223.87		223.92	0.001988	1.2	43.53	32.16	0.25
1	1038	Hazel	29.71	221.4	223.56		223.61	0.002333	1.18	33.9	30.39	0.27
1	1038	Hazel w CC	36.02	221.4	223.77		223.82	0.002076	1.18	40.28	31.47	0.26
1	1024	100 Year	39.38	221.23	223.81		223.89	0.002474	1.5	34.86	24.95	0.31
1	1024	Hazel	29.71	221.23	223.5		223.58	0.00272	1.44	27.28	23.69	0.32
1	1024	Hazel w CC	36.02	221.23	223.71		223.79	0.002546	1.48	32.31	24.63	0.31
1	1007	100 Year	39.38	221.38	223.67		223.84	0.003665	2.35	27.68	17.83	0.5
1	1007	Hazel	29.71	221.38	223.37		223.52	0.003766	2.16	22.52	16.99	0.5
1	1007	Hazel w CC	36.02	221.38	223.57		223.73	0.003687	2.29	25.95	17.55	0.5
1	990	100 Year	39.38	221.21	223.1	223.1	223.71	0.014723	3.78	13.25	11.13	0.9
1	990	Hazel	29.71	221.21	222.83	222.83	223.38	0.016357	3.58	10.39	9.97	0.92
1	990	Hazel w CC	36.02	221.21	223.02	223.02	223.6	0.014875	3.69	12.38	10.81	0.89
1	968	100 Year	39.38	221.07	222.88		223.06	0.012352	2.43	24.07	23.93	0.6
1	968	Hazel	29.71	221.07	222.73		222.88	0.011161	2.17	20.55	23.22	0.56
1	968	Hazel w CC	36.02	221.07	222.87		223.03	0.01062	2.24	23.85	23.89	0.56
1	953	100 Year	39.38	220.99	222.92		222.97	0.002735	1.26	47.79	41.23	0.3
1	953	Hazel	29.71	220.99	222.76		222.79	0.0025	1.13	41.08	40.77	0.28
1	953	Hazel w CC	36.02	220.99	222.91		222.94	0.002391	1.17	47.13	41.18	0.28
1	935	100 Year	39.38	220.96	222.93		222.94	0.000618	0.79	75.69	116.07	0.19
1	935	Hazel	29.71	220.96	222.76		222.77	0.000526	0.69	66.75	112.71	0.17
1	935	Hazel w CC	36.02	220.96	222.91		222.92	0.000537	0.73	74.78	115.31	0.17
1	904	100 Year	39.38	220.93	222.88		222.91	0.001217	1.34	65.19	113.9	0.32
1	904	Hazel	29.71	220.93	222.72		222.75	0.001154	1.22	54.29	106.54	0.31
1	904	Hazel w CC	36.02	220.93	222.87		222.9	0.00105	1.24	64.49	113.64	0.3
1	890	100 Year	39.38	220.9	222.87		222.9	0.000897	1.11	64.04	83.29	0.26
1	890	Hazel	29.71	220.9	222.71		222.73	0.000779	0.97	54.95	79.75	0.24
1	890	Hazel w CC	36.02	220.9	222.86		222.88	0.000768	1.02	63.53	83.21	0.24
1	875	100 Year	39.38	220.95	222.86		222.89	0.000725	1	64.41	59.47	0.24
1	875	Hazel	29.71	220.95	222.7		222.72	0.000603	0.86	56.73	58.03	0.21
1	875	Hazel w CC	36.02	220.95	222.85		222.87	0.000617	0.92	64.05	59.4	0.22
1	858	100 Year	52.31	221.15	222.73		222.85	0.008819	2.03	39.64	43.22	0.52
1	858	Hazel	42.22	221.15	222.58		222.69	0.008982	1.9	33.32	39.84	0.52
1	858	Hazel w CC	51.23	221.15	222.72		222.84	0.008583	1.99	39.42	43.13	0.52
1	844	100 Year	52.31	221.13	222.77		222.8	0.001011	1.07	76.38	221.13	0.28
1	844	Hazel	42.22	221.13	222.62		222.64	0.000937	0.96	67.91	213.27	0.26
1	844	Hazel w CC	51.23	221.13	222.77		222.8	0.000984	1.05	76.02	220.98	0.27
1	832	100 Year	52.31	220.92	222.77		222.79	0.000535	0.97	90.91	149.14	0.23
1	832	Hazel	42.22	220.92	222.62		222.64	0.00048	0.87	81.7	147.78	0.22
1	832	Hazel w CC	51.23	220.92	222.76		222.79	0.00052	0.96	90.52	149.1	0.23
1	803	100 Year	54.24	220.98	222.74		222.77	0.000883	0.94	75.24	53.39	0.23
1	803	Hazel	43.95	220.98	222.59		222.62	0.000805	0.85	67.33	51.97	0.22
1	803	Hazel w CC	53.38	220.98	222.74		222.77	0.000866	0.93	74.92	53.33	0.23

Bunkers Creek - Calibration -50% Expansion / Contraction

1	787	100 Year	54.24	220.95	222.75		222.76	0.000302	0.65	116.83	75.25	0.16
1	787	Hazel	43.95	220.95	222.6		222.61	0.000271	0.58	105.5	73.63	0.15
1	787	Hazel w CC	53.38	220.95	222.74		222.76	0.000296	0.64	116.36	75.19	0.15
1	760	100 Year	54.24	220.9	222.75		222.76	0.000209	0.57	136.25	90.13	0.14
1	760	Hazel	43.95	220.9	222.59		222.6	0.000185	0.51	123.33	83.02	0.13
1	760	Hazel w CC	53.38	220.9	222.74		222.75	0.000205	0.56	135.7	89.83	0.13
1	713	100 Year	54.24	220.85	222.53		222.72	0.003538	2.19	33.06	35.53	0.56
1	713	Hazel	43.95	220.85	222.42		222.57	0.003091	1.94	29.46	30.47	0.51
1	713	Hazel w CC	53.38	220.85	222.53		222.72	0.00342	2.15	33.09	35.61	0.55
1	682	100 Year	54.24	219.92	222.3		222.58	0.005239	2.47	25.68	21.33	0.52
1	682	Hazel	43.95	219.92	222.27		222.47	0.003612	2.04	25.09	20.99	0.43
1	682	Hazel w CC	53.38	219.92	222.32		222.58	0.004946	2.41	26	21.51	0.51
1	652	100 Year	54.24	219.79	222.34		222.46	0.002223	2.05	43.14	44.61	0.42
1	652	Hazel	43.95	219.79	222.3		222.38	0.001568	1.71	41.35	39.32	0.35
1	652	Hazel w CC	53.38	219.79	222.35		222.47	0.002099	2	43.76	45.65	0.4
1	621	100 Year	56.17	219.66	222.37		222.41	0.000758	1.45	81.8	79.3	0.29
1	621	Hazel	47.22	219.66	222.31		222.35	0.000595	1.26	77.53	68.55	0.26
1	621	Hazel w CC	57.38	219.66	222.38		222.42	0.000779	1.47	82.41	79.38	0.29
1	577	100 Year	56.17	219.65	222.19	222.16	222.34	0.002846	2.28	53.93	118.08	0.47
1	577	Hazel	47.22	219.65	222.16	222.1	222.29	0.002345	2.05	50.52	114.77	0.43
1	577	Hazel w CC	57.38	219.65	222.23	222.17	222.36	0.002465	2.14	58.37	120.63	0.44
1	Innisfil Street	Culvert										
1	543	100 Year	56.17	219.46	222.11	222.11	222.29	0.002667	2.42	42.16	106.51	0.53
1	543	Hazel	47.22	219.46	222.06	222.06	222.23	0.002497	2.32	36.9	103.5	0.51
1	543	Hazel w CC	57.38	219.46	222.11	222.11	222.29	0.002697	2.44	42.78	106.8	0.53
1	520	100 Year	56.17	219.36	221.67	221.67	221.91	0.005061	2.79	32.21	71.22	0.6
1	520	Hazel	47.22	219.36	221.56	221.56	221.82	0.005546	2.82	26.31	47.78	0.62
1	520	Hazel w CC	57.38	219.36	221.67	221.67	221.92	0.005247	2.84	32.32	71.85	0.61
1	494	100 Year	56.17	219.3	221.37	221.3	221.58	0.004604	2.51	32.1	58.23	0.57
1	494	Hazel	47.22	219.3	221.3	221.14	221.49	0.004387	2.39	28.07	50.43	0.55
1	494	Hazel w CC	57.38	219.3	221.39	221.33	221.6	0.004527	2.51	33.25	59.16	0.56
1	469	100 Year	56.17	219.33	221.19	221.19	221.43	0.007335	2.54	26.96	49.94	0.62
1	469	Hazel	47.22	219.33	221.13	221.13	221.35	0.007192	2.46	24.21	47.65	0.61
1	469	Hazel w CC	57.38	219.33	221.18	221.18	221.45	0.007925	2.63	26.66	49.75	0.65
1	443	100 Year	55.96	219.28	221.17		221.28	0.001984	1.29	38.3	59.67	0.3
1	443	Hazel	47.46	219.28	221.09		221.2	0.001969	1.25	33.94	54.23	0.3
1	443	Hazel w CC	57.68	219.28	221.18		221.3	0.001959	1.29	39.18	60.06	0.3
1	427	100 Year	55.96	219.27	221.18	220.86	221.25	0.001401	1.38	50.31	77.56	0.32
1	427	Hazel	47.46	219.27	221.09	220.8	221.16	0.00153	1.4	43.93	74.72	0.33
1	427	Hazel w CC	57.68	219.27	221.19	220.87	221.26	0.001377	1.37	51.56	78.23	0.32
1	Commercial Entra	Culvert										
1	402	100 Year	55.96	219.07	220.91	220.91	221.23	0.011739	3.27	28.25	39.18	0.79
1	402	Hazel	47.46	219.07	220.84	220.84	221.13	0.010997	3.08	25.54	38.65	0.76
1	402	Hazel w CC	57.68	219.07	220.92	220.92	221.25	0.012103	3.33	28.57	39.25	0.81
1	382	100 Year	55.96	218.93	220.99		221.02	0.001255	1.18	78.96	99.83	0.27
1	382	Hazel	47.46	218.93	220.93		220.96	0.001148	1.1	72.87	98.66	0.26
1	382	Hazel w CC	57.68	218.93	221.01		221.04	0.001259	1.19	80.48	100.19	0.27
1	358	100 Year	55.96	218.99	220.96	220.49	220.99	0.001393	1.2	76.23	97.53	0.29
1	358	Hazel	47.46	218.99	220.9	220.46	220.93	0.001262	1.12	70.63	96.12	0.27

Bunkers Creek - Calibration -50% Expansion / Contraction												
1	358	Hazel w CC	57.68	218.99	220.97	220.54	221	0.001397	1.21	77.71	97.75	0.29
1	328	100 Year	57.61	218.85	220.91	220.48	220.94	0.001467	1.15	75.19	105.3	0.27
1	328	Hazel	49.11	218.85	220.86	220.44	220.89	0.001342	1.08	69.61	103.07	0.26
1	328	Hazel w CC	59.81	218.85	220.92	220.5	220.96	0.001497	1.17	76.66	106.23	0.28
1	303	100 Year	57.61	218.78	220.8	220.68	220.89	0.002402	1.68	56.5	110.25	0.4
1	303	Hazel	49.11	218.78	220.76	220.64	220.84	0.002198	1.58	52.03	108.28	0.38
1	303	Hazel w CC	59.81	218.78	220.81	220.68	220.9	0.002422	1.7	57.81	110.9	0.4
1	Bradford Street	Culvert										
1	274.9	100 Year	57.61	218.67	220.61	220.61	220.79	0.004544	2.22	31.68	91.91	0.54
1	274.9	Hazel	49.11	218.67	220.58	220.58	220.74	0.004393	2.15	28.56	87.25	0.53
1	274.9	Hazel w CC	59.81	218.67	220.62	220.62	220.8	0.004476	2.21	32.62	92.26	0.53
1	239.3	100 Year	57.61	218.77	220.34	219.99	220.38	0.00071	0.66	71.49	117.99	0.17
1	239.3	Hazel	49.11	218.77	220.31	219.95	220.33	0.000617	0.61	67.38	115.53	0.16
1	239.3	Hazel w CC	59.81	218.77	220.36	220	220.4	0.000682	0.66	74.21	119.22	0.17
1	214	100 Year	57.61	218.74	220.31	220.08	220.35	0.001776	1.04	67.98	162.34	0.27
1	214	Hazel	49.11	218.74	220.27	220.03	220.31	0.001651	0.99	62.62	158.19	0.26
1	214	Hazel w CC	59.81	218.74	220.33	220.08	220.37	0.001571	0.99	72.54	168.92	0.26
1	184	100 Year	55.53	218.69	220.28	219.59	220.3	0.001494	1	99.33	161.29	0.26
1	184	Hazel	49.29	218.69	220.25	219.61	220.26	0.001307	0.93	94.39	159.89	0.24
1	184	Hazel w CC	60.08	218.69	220.3	219.68	220.32	0.001545	1.03	103.65	163.89	0.27
1	168.01	100 Year	55.53	218.74	220.26	219.57	220.27	0.001355	0.92	99.56	157.82	0.24
1	168.01	Hazel	49.29	218.74	220.23	219.54	220.24	0.001118	0.82	95.78	147.71	0.22
1	168.01	Hazel w CC	60.08	218.74	220.28	219.58	220.3	0.001424	0.95	103.12	161.94	0.25
1	146.6	100 Year	55.53	218.76	220.25	219.34	220.26	0.000402	0.56	141.04	130.04	0.15
1	146.6	Hazel	49.29	218.76	220.22	219.31	220.23	0.000341	0.51	137.61	129.28	0.14
1	146.6	Hazel w CC	60.08	218.76	220.28	219.35	220.29	0.00044	0.59	144.27	130.85	0.16
1	123.1	100 Year	55.53	218.65	220.24		220.25	0.000235	0.47	147.87	132.76	0.12
1	123.1	Hazel	49.29	218.65	220.22		220.23	0.000196	0.42	144.55	130.51	0.11
1	123.1	Hazel w CC	60.08	218.65	220.27		220.28	0.000261	0.5	151.1	134.23	0.13
1	86.8	100 Year	55.83	218.68	220.24		220.25	0.000139	0.37	175.49	150.17	0.1
1	86.8	Hazel	50.08	218.68	220.22		220.22	0.000119	0.34	171.79	149.42	0.09
1	86.8	Hazel w CC	60.96	218.68	220.26		220.27	0.000157	0.39	179	150.73	0.1
1	55.6	100 Year	55.83	218.31	220.2	219.47	220.23	0.000839	1	112.33	281.2	0.28
1	55.6	Hazel	50.08	218.31	220.18	219.39	220.21	0.000746	0.93	106.67	266.08	0.26
1	55.6	Hazel w CC	60.96	218.31	220.22	219.86	220.26	0.000918	1.06	118	288.61	0.29
1	Lakeshore	Bridge										
1	19.9	100 Year	55.83	218.66	220	220	220.09	0.007584	1.66	51.55	286.02	0.57
1	19.9	Hazel	50.08	218.66	220	220	220.08	0.006054	1.48	51.72	286.12	0.51
1	19.9	Hazel w CC	60.96	218.66	220.01	220.01	220.11	0.007815	1.7	54.69	287.71	0.58
1	5	100 Year	55.83	218.01	219.55	219.55	219.7	0.004223	1.94	40.59	145.77	0.62
1	5	Hazel	50.08	218.01	219.53	219.53	219.67	0.00402	1.87	36.97	133.07	0.61
1	5	Hazel w CC	60.96	218.01	219.58	219.58	219.73	0.004352	1.99	43.9	155.95	0.63
1	Pedestrian Bridg	Culvert										
1	0	100 Year	55.83	218.01	219.47	219.47	219.6	0.006137	1.84	50.82	230.16	0.67
1	0	Hazel	50.08	218.01	219.45	219.45	219.57	0.005594	1.74	47.59	216.24	0.64
1	0	Hazel w CC	60.96	218.01	219.51	219.51	219.62	0.005385	1.78	59.3	241.71	0.63
1	-21	100 Year	55.83	218	219.13	218.18	219.13	0.000105	0.2	277.1	247.1	0.06
1	-21	Hazel	50.08	218	219.13	218.16	219.13	0.000085	0.18	277.1	247.1	0.05
1	-21	Hazel w CC	60.96	218	219.13	218.18	219.13	0.000125	0.22	277.1	247.1	0.07

Dyments Creek - Flood Flow Scenarios

Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
			(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
Reach 1	4973	100 Year	14.52	263.21	265.13	264.05	265.15	0.000817	0.71	24.3	20.42	0.17
Reach 1	4973	100 Year w C	18.07	263.21	265.41	264.13	265.43	0.000704	0.73	30.37	22.81	0.17
Reach 1	4973	Hazel	18.09	263.21	265.41	264.13	265.43	0.000704	0.73	30.4	22.82	0.17
Reach 1	4973	Hazel w CC	22.11	263.21	265.59	264.22	265.61	0.000748	0.8	35.26	33.43	0.17
Reach 1	Barrie Landfill		Culvert									
Reach 1	4910	100 Year	14.52	262.6	263.86	263.86	264.23	0.014466	2.71	5.42	7.91	0.99
Reach 1	4910	100 Year w C	18.07	262.6	263.99	263.99	264.4	0.012996	2.86	6.5	8.59	0.96
Reach 1	4910	Hazel	18.09	262.6	263.99	263.99	264.4	0.012988	2.86	6.51	8.6	0.96
Reach 1	4910	Hazel w CC	22.11	262.6	264.12	264.12	264.57	0.012022	3.01	7.69	9.28	0.95
Reach 1	4845	100 Year	14.52	260.45	262.1	262.1	262.51	0.008576	3.34	5.68	6.73	0.87
Reach 1	4845	100 Year w C	18.07	260.45	262.24	262.24	262.69	0.008623	3.56	6.69	7.4	0.88
Reach 1	4845	Hazel	18.09	260.45	262.24	262.24	262.69	0.008626	3.56	6.69	7.41	0.88
Reach 1	4845	Hazel w CC	22.11	260.45	262.39	262.39	262.88	0.008676	3.78	7.84	8.58	0.9
Reach 1	4776	100 Year	14.52	259.33	260.48	260.48	260.8	0.012141	3.06	5.96	8.93	0.96
Reach 1	4776	100 Year w C	18.07	259.33	260.59	260.59	260.95	0.012028	3.26	6.96	9.47	0.97
Reach 1	4776	Hazel	18.09	259.33	260.59	260.59	260.95	0.012035	3.26	6.96	9.48	0.97
Reach 1	4776	Hazel w CC	22.11	259.33	260.71	260.71	261.11	0.011585	3.42	8.13	10.11	0.97
Reach 1	4743	100 Year	14.52	257.92	259.56	259.56	260.03	0.009607	3.46	5.34	5.89	0.91
Reach 1	4743	100 Year w C	18.07	257.92	259.73	259.73	260.24	0.009327	3.67	6.4	6.54	0.91
Reach 1	4743	Hazel	18.09	257.92	259.73	259.73	260.24	0.009327	3.67	6.4	6.54	0.91
Reach 1	4743	Hazel w CC	22.11	257.92	259.89	259.89	260.45	0.009417	3.92	7.47	7.15	0.93
Reach 1	4722	100 Year	14.52	256.73	258.11	258.11	258.44	0.010066	2.89	6.44	11.52	0.81
Reach 1	4722	100 Year w C	18.07	256.73	258.23	258.23	258.58	0.010136	3.08	7.9	12.33	0.83
Reach 1	4722	Hazel	18.09	256.73	258.23	258.23	258.58	0.010137	3.08	7.91	12.33	0.83
Reach 1	4722	Hazel w CC	22.11	256.73	258.35	258.35	258.73	0.010364	3.28	9.38	13.03	0.85
Reach 1	4689	100 Year	14.52	256.02	257.32	257.32	257.59	0.007037	2.51	8.06	20.3	0.74
Reach 1	4689	100 Year w C	18.07	256.02	257.43	257.43	257.7	0.006836	2.64	10.72	26.63	0.74
Reach 1	4689	Hazel	18.09	256.02	257.43	257.43	257.7	0.00684	2.64	10.73	26.64	0.74
Reach 1	4689	Hazel w CC	22.11	256.02	257.49	257.49	257.82	0.008019	2.94	12.38	29.1	0.81
Reach 1	4651	100 Year	14.52	255.1	256.64	256.64	256.83	0.006754	2.74	11.5	28.63	0.74
Reach 1	4651	100 Year w C	18.07	255.1	256.71	256.71	256.92	0.007414	2.97	13.47	29.47	0.78
Reach 1	4651	Hazel	18.09	255.1	256.71	256.71	256.92	0.007419	2.97	13.48	29.48	0.78
Reach 1	4651	Hazel w CC	22.11	255.1	256.77	256.77	257.01	0.008125	3.2	15.47	30.56	0.82
Reach 1	4608	100 Year	14.52	254.46	255.67	255.67	255.95	0.009733	2.95	8.97	17.39	0.9
Reach 1	4608	100 Year w C	18.07	254.46	255.77	255.77	256.07	0.009769	3.13	10.86	19.97	0.91
Reach 1	4608	Hazel	18.09	254.46	255.77	255.77	256.07	0.009778	3.13	10.86	20	0.91
Reach 1	4608	Hazel w CC	22.11	254.46	255.79	255.79	256.22	0.01363	3.74	11.2	21.55	1.08
Reach 1	4577	100 Year	14.52	253.51	254.49	254.49	254.73	0.009643	2.45	7.64	16.74	0.86
Reach 1	4577	100 Year w C	18.07	253.51	254.58	254.58	254.84	0.00983	2.63	9.07	18.79	0.88
Reach 1	4577	Hazel	18.09	253.51	254.58	254.58	254.84	0.009827	2.63	9.08	18.8	0.88
Reach 1	4577	Hazel w CC	22.11	253.51	254.67	254.67	254.95	0.009443	2.76	10.95	21.28	0.88
Reach 1	4531	100 Year	15.92	252.73	253.57	253.57	253.82	0.012505	2.6	7.37	15.11	0.97
Reach 1	4531	100 Year w C	19.91	252.73	253.66	253.66	253.94	0.012119	2.76	8.67	20.35	0.97
Reach 1	4531	Hazel	22.63	252.73	253.71	253.71	254.02	0.011944	2.86	9.52	28.85	0.97
Reach 1	4531	Hazel w CC	27.68	252.73	253.82	253.82	254.14	0.010893	2.96	11.52	45.29	0.95
Reach 1	4507	100 Year	15.92	251.6	252.54	252.54	252.82	0.012363	2.89	7.06	12.1	0.98
Reach 1	4507	100 Year w C	19.91	251.6	252.63	252.63	252.96	0.012142	3.06	8.22	19.95	0.99
Reach 1	4507	Hazel	22.63	251.6	252.69	252.69	253.04	0.01206	3.17	8.96	21.38	1
Reach 1	4507	Hazel w CC	27.68	251.6	252.8	252.8	253.19	0.011581	3.33	10.38	28.27	1
Reach 1	4475	100 Year	15.92	250.21	251.32	251.32	251.62	0.009125	2.81	7.21	19.33	0.87
Reach 1	4475	100 Year w C	19.91	250.21	251.45	251.45	251.78	0.008558	2.94	8.76	21.53	0.86

Reach 1	4475	Hazel	22.63	250.21	251.52	251.52	251.86	0.008629	3.06	9.57	22.39	0.87
Reach 1	4475	Hazel w CC	27.68	250.21	251.64	251.64	252.01	0.008192	3.18	11.4	29.97	0.86
Reach 1	4445	100 Year	15.92	249.46	250.82	250.82	251.08	0.008236	2.86	9.69	17.31	0.82
Reach 1	4445	100 Year w C	19.91	249.46	250.9	250.9	251.2	0.008918	3.11	11.23	17.87	0.87
Reach 1	4445	Hazel	22.63	249.46	250.96	250.96	251.28	0.009196	3.25	12.26	18.19	0.89
Reach 1	4445	Hazel w CC	27.68	249.46	251.06	251.06	251.41	0.009479	3.46	14.15	18.75	0.91
Reach 1	4411	100 Year	15.92	248.96	250.14	250.14	250.37	0.018943	2.92	9.68	18.18	0.94
Reach 1	4411	100 Year w C	19.91	248.96	250.21	250.21	250.48	0.020414	3.18	11.05	18.69	0.99
Reach 1	4411	Hazel	22.63	248.96	250.26	250.26	250.55	0.020397	3.29	12.09	19.08	0.99
Reach 1	4411	Hazel w CC	27.68	248.96	250.35	250.35	250.67	0.020987	3.51	13.79	19.73	1.02
Reach 1	4386	100 Year	15.92	248.6	249.84	249.84	250.05	0.008505	2.92	12.71	32.11	0.86
Reach 1	4386	100 Year w C	19.91	248.6	249.93	249.93	250.15	0.008436	3.06	15.78	34.48	0.86
Reach 1	4386	Hazel	22.63	248.6	249.98	249.98	250.2	0.008668	3.18	17.46	35.17	0.88
Reach 1	4386	Hazel w CC	27.68	248.6	250.05	250.05	250.3	0.009326	3.41	20.02	35.89	0.92
Reach 1	4368	100 Year	15.92	247.64	248.69	248.69	248.98	0.01536	2.88	9.16	16.37	0.94
Reach 1	4368	100 Year w C	19.91	247.64	248.8	248.8	249.12	0.015375	3.09	11.02	18.87	0.95
Reach 1	4368	Hazel	22.63	247.64	248.85	248.85	249.21	0.016347	3.28	12.01	20.37	0.99
Reach 1	4368	Hazel w CC	27.68	247.64	248.94	248.94	249.36	0.017841	3.61	14.11	26.65	1.05
Reach 1	4341	100 Year	15.92	247	248.19	248.19	248.36	0.007331	2.11	13.21	46.51	0.65
Reach 1	4341	100 Year w C	19.91	247	248.3	248.3	248.44	0.00607	2.05	19.25	63	0.6
Reach 1	4341	Hazel	22.63	247	248.31	248.31	248.48	0.007138	2.24	20.31	68.56	0.65
Reach 1	4341	Hazel w CC	27.68	247	248.38	248.38	248.55	0.00721	2.34	25.14	71.93	0.66
Reach 1	4313	100 Year	15.92	246.23	247.55	247.55	247.68	0.010506	2.31	14.23	53.8	0.69
Reach 1	4313	100 Year w C	19.91	246.23	247.6	247.6	247.74	0.01116	2.45	17.14	55.1	0.72
Reach 1	4313	Hazel	22.63	246.23	247.63	247.63	247.77	0.012011	2.58	18.58	55.41	0.75
Reach 1	4313	Hazel w CC	27.68	246.23	247.75	247.68	247.85	0.00802	2.25	26.43	71.4	0.62
Reach 1	4287	100 Year	16.39	245.79	247.21	246.99	247.31	0.004614	1.94	13.81	20.34	0.54
Reach 1	4287	100 Year w C	20.6	245.79	247.39	247.07	247.48	0.003824	1.92	17.69	22.76	0.5
Reach 1	4287	Hazel	25.46	245.79	247.37	247.16	247.52	0.006109	2.41	17.34	22.24	0.63
Reach 1	4287	Hazel w CC	31.13	245.79	247.48	247.24	247.65	0.006403	2.59	19.94	25.24	0.65
Reach 1	4260	100 Year	16.39	245.37	246.58	246.58	247	0.015046	3.49	6.33	15.31	1.07
Reach 1	4260	100 Year w C	20.6	245.37	246.81	246.72	247.22	0.011338	3.44	7.95	26.08	0.96
Reach 1	4260	Hazel	25.46	245.37	247.37	247.17	247.41	0.001103	1.37	39.82	96.63	0.32
Reach 1	4260	Hazel w CC	31.13	245.37	247.51	247.21	247.53	0.000787	1.21	53.42	100.94	0.27
Reach 1	Edgehill Drive		Culvert									
Reach 1	4227	100 Year	16.39	244.98	246.2	246.2	246.59	0.01166	2.99	6.18	33.52	0.96
Reach 1	4227	100 Year w C	20.6	244.98	246.33	246.33	246.78	0.011511	3.23	7.15	36.14	0.97
Reach 1	4227	Hazel	25.46	244.98	246.47	246.47	246.99	0.011266	3.45	8.21	40.15	0.98
Reach 1	4227	Hazel w CC	31.13	244.98	246.62	246.62	247.22	0.011081	3.69	9.33	55.75	0.99
Reach 1	4204	100 Year	16.39	244.62	245.64	245.58	245.75	0.016187	2.12	14.75	40.88	0.8
Reach 1	4204	100 Year w C	20.6	244.62	245.69	245.66	245.82	0.019026	2.39	16.7	48.48	0.88
Reach 1	4204	Hazel	25.46	244.62	245.75	245.73	245.89	0.019198	2.53	20.22	68.34	0.89
Reach 1	4204	Hazel w CC	31.13	244.62	245.8	245.8	245.95	0.019092	2.63	23.98	73.42	0.9
Reach 1	4174.9	100 Year	16.39	244.26	245.15	245.15	245.31	0.014126	2.5	15.27	50.87	0.98
Reach 1	4174.9	100 Year w C	20.6	244.26	245.22	245.22	245.37	0.012826	2.55	19.23	57.14	0.95
Reach 1	4174.9	Hazel	25.46	244.26	245.28	245.28	245.44	0.012978	2.69	22.71	65.69	0.96
Reach 1	4174.9	Hazel w CC	31.13	244.26	245.35	245.35	245.5	0.011921	2.73	27.91	76.54	0.93
Reach 1	4145	100 Year	16.39	243.97	244.31	244.2	244.35	0.014989	1.21	17.87	64.6	0.79
Reach 1	4145	100 Year w C	20.6	243.97	244.35	244.24	244.41	0.015085	1.35	21.01	70.41	0.81
Reach 1	4145	Hazel	25.46	243.97	244.4	244.27	244.46	0.015517	1.5	24.52	74.14	0.83
Reach 1	4145	Hazel w CC	31.13	243.97	244.45	244.32	244.52	0.015487	1.62	27.94	75.38	0.84
Reach 1	4116	100 Year	16.39	243.73	243.94	243.82	243.97	0.011187	0.35	21.6	80.39	0.3
Reach 1	4116	100 Year w C	20.6	243.73	243.99	243.85	244.02	0.011435	0.42	25.05	82.01	0.31
Reach 1	4116	Hazel	25.46	243.73	244.03	243.89	244.07	0.011636	0.49	28.8	85.21	0.33
Reach 1	4116	Hazel w CC	31.13	243.73	244.08	243.93	244.13	0.011403	0.56	33.42	93.94	0.33

Reach 1	4077.6	100 Year	16.39	243.06	243.46	243.34	243.48	0.015644	0.87	23.6	97.82	0.62
Reach 1	4077.6	100 Year w C	20.6	243.06	243.49	243.37	243.52	0.015416	0.98	27.47	102.15	0.65
Reach 1	4077.6	Hazel	25.46	243.06	243.53	243.4	243.57	0.01549	1.1	31.54	105.72	0.67
Reach 1	4077.6	Hazel w CC	31.13	243.06	243.57	243.43	243.61	0.016724	1.25	35.5	107.13	0.72
Reach 1	4038.9	100 Year	16.39	242.15	242.26	242.25	242.35	0.071894	1.21	12.5	68.37	1.53
Reach 1	4038.9	100 Year w C	20.6	242.15	242.29	242.29	242.39	0.074087	1.49	14.86	80.24	1.62
Reach 1	4038.9	Hazel	25.46	242.15	242.33	242.33	242.43	0.073098	1.72	17.85	85.25	1.67
Reach 1	4038.9	Hazel w CC	31.13	242.15	242.37	242.36	242.48	0.062684	1.83	21.61	89.82	1.6
Reach 1	4010.8	100 Year	16.39	241.53	241.57	241.4	241.59	0.013244	0.27	24.18	78.91	0.56
Reach 1	4010.8	100 Year w C	20.6	241.53	241.63	241.44	241.66	0.011658	0.5	29.72	95.99	0.62
Reach 1	4010.8	Hazel	25.46	241.53	241.68	241.47	241.71	0.011933	0.66	34.24	108.41	0.68
Reach 1	4010.8	Hazel w CC	31.13	241.53	241.71	241.51	241.75	0.01332	0.81	38.16	119.34	0.75
Reach 1	3974	100 Year	16.39	240.69	240.83	240.75	240.88	0.031713	0.59	16.16	68.31	0.69
Reach 1	3974	100 Year w C	20.6	240.69	240.84	240.79	240.91	0.044075	0.73	16.93	70.85	0.83
Reach 1	3974	Hazel	25.46	240.69	240.88	240.83	240.96	0.041829	0.85	20.35	83.38	0.85
Reach 1	3974	Hazel w CC	31.13	240.69	240.95	240.88	241.02	0.03255	0.89	26.19	98.66	0.79
Reach 1	3934.7	100 Year	16.39	239.92	240.09	239.92	240.11	0.012496	0.66	25.03	102.44	0.67
Reach 1	3934.7	100 Year w C	20.6	239.92	240.17	239.96	240.19	0.00953	0.7	33.47	126.38	0.62
Reach 1	3934.7	Hazel	25.46	239.92	240.21	240	240.23	0.009747	0.81	39.73	139.42	0.67
Reach 1	3934.7	Hazel w CC	31.13	239.92	240.24	240.05	240.27	0.011835	0.96	43.79	148.57	0.81
Reach 1	3877.1	100 Year	16.39	239.11	239.55	239.36	239.57	0.007543	0.47	31.14	100.85	0.28
Reach 1	3877.1	100 Year w C	20.6	239.11	239.55	239.39	239.57	0.012338	0.6	30.8	100.79	0.36
Reach 1	3877.1	Hazel	25.46	239.11	239.6	239.42	239.63	0.011719	0.65	35.75	101.52	0.36
Reach 1	3877.1	Hazel w CC	31.13	239.11	239.7	239.45	239.72	0.00802	0.64	45.68	103.77	0.31
Reach 1	3837	100 Year	14.79	238.53	238.89	238.89	238.99	0.039536	2.41	12.62	57.45	1.44
Reach 1	3837	100 Year w C	18.75	238.53	239.05	238.93	239.1	0.010896	1.68	22.04	58.94	0.8
Reach 1	3837	Hazel	25.63	238.53	239.45	238.98	239.47	0.001918	1.06	45.67	61.19	0.37
Reach 1	3837	Hazel w CC	31.38	238.53	239.57	239.02	239.59	0.001768	1.11	53.11	63.26	0.36
Reach 1	3805	100 Year	14.79	237.93	238.83	238.36	238.84	0.001124	0.63	35.94	60	0.23
Reach 1	3805	100 Year w C	18.75	237.93	239.02	238.41	239.03	0.000755	0.6	47.78	62.13	0.2
Reach 1	3805	Hazel	25.63	237.93	239.43	238.47	239.44	0.000349	0.52	73.85	63.91	0.14
Reach 1	3805	Hazel w CC	31.38	237.93	239.55	238.52	239.56	0.000382	0.57	81.46	64.29	0.15
Reach 1	3769.6	100 Year	14.79	237.52	238.72	238.17	238.78	0.001509	1.12	14.52	36.07	0.35
Reach 1	3769.6	100 Year w C	18.75	237.52	238.91	238.26	238.98	0.001377	1.2	17.19	43.07	0.35
Reach 1	3769.6	Hazel	25.63	237.52	239.33	238.39	239.4	0.001116	1.31	23.66	61.64	0.33
Reach 1	3769.6	Hazel w CC	31.38	237.52	239.41	238.49	239.51	0.001936	1.78	26.82	63.51	0.44
Reach 1	Sproule Drive		Culvert									
Reach 1	3739	100 Year	14.79	237.28	237.96	237.96	238.21	0.016661	2.45	6.76	41.33	1.06
Reach 1	3739	100 Year w C	18.75	237.28	238.04	238.04	238.34	0.015954	2.65	7.89	42.47	1.06
Reach 1	3739	Hazel	25.63	237.28	238.18	238.18	238.55	0.01517	2.94	9.65	43.96	1.07
Reach 1	3739	Hazel w CC	31.38	237.28	238.29	238.29	238.71	0.014139	3.11	11.12	44.33	1.06
Reach 1	3689	100 Year	14.79	236.79	237.08	237.08	237.16	0.021294	1.24	14.9	103.42	0.98
Reach 1	3689	100 Year w C	18.75	236.79	237.1	237.1	237.19	0.023793	1.43	17.39	112.81	1.06
Reach 1	3689	Hazel	25.63	236.79	237.16	237.16	237.25	0.020327	1.57	23.78	120.57	1.02
Reach 1	3689	Hazel w CC	31.38	236.79	237.19	237.19	237.29	0.020841	1.71	27.32	125.36	1.06
Reach 1	3600.2	100 Year	14.79	235.21	235.86	235.54	235.86	0.00075	0.36	83.64	315.45	0.17
Reach 1	3600.2	100 Year w C	18.75	235.21	235.9	235.57	235.9	0.000832	0.4	95.98	343.79	0.18
Reach 1	3600.2	Hazel	25.63	235.21	236.01	235.61	236.01	0.000628	0.4	137.1	381	0.16
Reach 1	3600.2	Hazel w CC	31.38	235.21	236.06	235.64	236.06	0.000648	0.42	156.4	389.55	0.17
Reach 1	3535	100 Year	13.06	234.78	235.85	235.09	235.85	0.000025	0.13	247.19	400.23	0.04
Reach 1	3535	100 Year w C	16.61	234.78	235.89	235.13	235.89	0.000033	0.16	262.03	417.33	0.05
Reach 1	3535	Hazel	26.17	234.78	236	235.18	236	0.000049	0.2	310.67	463.59	0.06
Reach 1	3535	Hazel w CC	32.07	234.78	236.05	235.2	236.05	0.000058	0.23	333.95	489.35	0.07
Reach 1	3513	100 Year	13.06	234.66	235.85	234.91	235.85	0.000004	0.05	417.72	564.61	0.01

Reach 1	3513	100 Year w C	16.61	234.66	235.89	234.93	235.89	0.000006	0.06	438.16	564.82	0.02
Reach 1	3513	Hazel	26.17	234.66	236	234.97	236	0.000009	0.07	500.59	568.12	0.02
Reach 1	3513	Hazel w CC	32.07	234.66	236.05	235	236.05	0.000011	0.09	528.52	570.55	0.02
Reach 1	3480	100 Year	13.06	234.73	235.85	234.94	235.85	0.000004	0.06	395.96	578.58	0.02
Reach 1	3480	100 Year w C	16.61	234.73	235.89	234.96	235.89	0.000005	0.07	416.95	583	0.02
Reach 1	3480	Hazel	26.17	234.73	236	235	236	0.000008	0.09	482.08	594.54	0.03
Reach 1	3480	Hazel w CC	32.07	234.73	236.05	235.02	236.05	0.00001	0.1	511.21	594.54	0.03
Reach 1	3453.03	100 Year	14.84	234.69	235.85	235.02	235.85	0.000008	0.08	265.99	375.65	0.02
Reach 1	3453.03	100 Year w C	18.73	234.69	235.89	235.04	235.89	0.000011	0.09	279.56	378.69	0.03
Reach 1	3453.03	Hazel	29.36	234.69	236	235.09	236	0.000017	0.13	321.43	381.73	0.04
Reach 1	3453.03	Hazel w CC	35.93	234.69	236.05	235.11	236.05	0.000021	0.15	340.04	382.17	0.04
Reach 1	3334	100 Year	14.84	234.42	235.84	235.62	235.85	0.000412	0.45	40.9	178.53	0.16
Reach 1	3334	100 Year w C	18.73	234.42	235.88	235.67	235.88	0.000433	0.48	46.93	182.38	0.16
Reach 1	3334	Hazel	29.36	234.42	235.98	235.74	235.99	0.000351	0.46	66.77	209.92	0.15
Reach 1	3334	Hazel w CC	35.93	234.42	236.03	235.78	236.04	0.000351	0.48	77.03	231.61	0.15
Reach 1	3325		Culvert									
Reach 1	3312	100 Year	14.84	234.64	235.82		235.83	0.000464	0.49	37.34	154.75	0.17
Reach 1	3312	100 Year w C	18.73	234.64	235.86		235.87	0.000495	0.52	42.44	155.41	0.17
Reach 1	3312	Hazel	29.36	234.64	235.96		235.97	0.000427	0.52	59.23	168.6	0.16
Reach 1	3312	Hazel w CC	35.93	234.64	236		236.02	0.00043	0.54	67.14	170.63	0.17
Reach 1	3235	100 Year	14.84	234.28	235.78	235.23	235.79	0.000479	0.52	33.29	118.5	0.17
Reach 1	3235	100 Year w C	18.73	234.28	235.81	235.33	235.82	0.000607	0.59	36.33	121.27	0.19
Reach 1	3235	Hazel	29.36	234.28	235.91	235.68	235.93	0.000551	0.6	49.21	122.55	0.18
Reach 1	3235	Hazel w CC	35.93	234.28	235.96	235.71	235.98	0.000581	0.63	54.45	122.73	0.19
Reach 1	3225		Culvert									
Reach 1	3214	100 Year	14.84	234.25	235.24	235.24	235.52	0.015925	2.39	6.57	12.16	0.94
Reach 1	3214	100 Year w C	18.73	234.25	235.35	235.35	235.66	0.014707	2.53	7.95	12.9	0.95
Reach 1	3214	Hazel	29.36	234.25	235.72	235.72	235.83	0.003886	1.71	21.36	76.28	0.54
Reach 1	3214	Hazel w CC	35.93	234.25	235.76	235.76	235.88	0.003935	1.77	24.68	87.95	0.54
Reach 1	3155.2	100 Year	14.84	234.1	234.76	234.65	234.78	0.001711	0.63	24.7	125.9	0.29
Reach 1	3155.2	100 Year w C	18.73	234.1	234.82	234.68	234.84	0.001165	0.55	33.15	138.56	0.24
Reach 1	3155.2	Hazel	29.36	234.1	234.93	234.74	234.95	0.000888	0.51	50.32	173.28	0.21
Reach 1	3155.2	Hazel w CC	35.93	234.1	235.03	234.77	235.05	0.000534	0.42	70.54	238.44	0.17
Reach 1	Dunlop Street W		Culvert									
Reach 1	3068	100 Year	14.84	233.75	234.74	234.58	234.75	0.000662	0.51	36.86	139.99	0.2
Reach 1	3068	100 Year w C	18.73	233.75	234.83	234.6	234.83	0.000463	0.46	48.46	142.82	0.17
Reach 1	3068	Hazel	29.36	233.75	234.93	234.65	234.94	0.000506	0.51	62.82	144.11	0.18
Reach 1	3068	Hazel w CC	35.93	233.75	235.02	234.67	235.03	0.000405	0.49	76.56	147.67	0.16
Reach 1	3058	100 Year	14.84	233.62	234.73		234.74	0.001093	0.83	37.89	241.04	0.3
Reach 1	3058	100 Year w C	18.73	233.62	234.82		234.83	0.000847	0.79	51.6	370.65	0.27
Reach 1	3058	Hazel	29.36	233.62	234.92		234.93	0.000783	0.82	70.66	477.56	0.26
Reach 1	3058	Hazel w CC	35.93	233.62	235.01		235.03	0.000498	0.7	89.31	574.86	0.21
Reach 1	3035.1	100 Year	14.84	233.48	234.72		234.73	0.000386	0.54	80.53	337.24	0.17
Reach 1	3035.1	100 Year w C	18.73	233.48	234.81		234.81	0.000369	0.56	95.11	355.09	0.17
Reach 1	3035.1	Hazel	29.36	233.48	234.91		234.91	0.000507	0.7	113.47	370.99	0.21
Reach 1	3035.1	Hazel w CC	35.93	233.48	235.01		235.01	0.000436	0.68	133.42	394.05	0.19
Reach 1	3004.9	100 Year	14.84	233.12	234.7		234.71	0.000432	0.58	58.87	342.97	0.17
Reach 1	3004.9	100 Year w C	18.73	233.12	234.79		234.8	0.000416	0.6	69.79	353.13	0.17
Reach 1	3004.9	Hazel	29.36	233.12	234.88		234.89	0.000619	0.77	81.99	361.87	0.21
Reach 1	3004.9	Hazel w CC	35.93	233.12	234.98		235	0.000534	0.75	96.61	376	0.2
Reach 1	2986	100 Year	14.84	233.08	234.63		234.69	0.002827	1.19	13.84	281.65	0.36
Reach 1	2986	100 Year w C	18.73	233.08	234.73		234.78	0.001862	1.03	19	305.36	0.3
Reach 1	2986	Hazel	29.36	233.08	234.77		234.87	0.003253	1.38	21.64	317.7	0.39
Reach 1	2986	Hazel w CC	35.93	233.08	234.93		234.98	0.001513	1.02	35.62	371.52	0.27

Reach 1	2963.8	100 Year	14.84	232.98	234.63		234.65	0.00068	0.71	25.27	332.26	0.19
Reach 1	2963.8	100 Year w C	18.73	232.98	234.73		234.75	0.000545	0.66	31.89	341.19	0.17
Reach 1	2963.8	Hazel	29.36	232.98	234.77		234.81	0.00102	0.92	34.77	344.08	0.24
Reach 1	2963.8	Hazel w CC	35.93	232.98	234.92		234.95	0.000712	0.82	46.39	369	0.2
Reach 1	2933.1	100 Year	37.12	232.78	234.4	234.28	234.57	0.004643	1.74	21.29	290.45	0.5
Reach 1	2933.1	100 Year w C	45.86	232.78	234.44	234.37	234.67	0.005421	1.93	23.45	297.16	0.55
Reach 1	2933.1	Hazel	49.85	232.78	234.45	234.41	234.71	0.006179	2.06	23.75	297.75	0.59
Reach 1	2933.1	Hazel w CC	64.97	232.78	234.59	234.59	234.87	0.004769	1.95	32	351.84	0.53
Reach 1	2904.1	100 Year	37.12	231.8	234.4	233.72	234.45	0.001218	1.09	37.71	330.21	0.27
Reach 1	2904.1	100 Year w C	45.86	231.8	234.46	234.23	234.52	0.001283	1.15	44.35	341.16	0.28
Reach 1	2904.1	Hazel	49.85	231.8	234.47	234.26	234.54	0.00141	1.21	45.81	342.26	0.29
Reach 1	2904.1	Hazel w CC	64.97	231.8	234.56	234.34	234.63	0.001529	1.3	55.43	346.62	0.31
Reach 1	Ferndale Drive N		Culvert									
Reach 1	2870.2	100 Year	37.12	231.6	234.3		234.37	0.000698	1.48	40.22	312.7	0.34
Reach 1	2870.2	100 Year w C	45.86	231.6	234.37		234.45	0.000737	1.56	46.84	335.66	0.35
Reach 1	2870.2	Hazel	49.85	231.6	234.4		234.48	0.000759	1.6	49.58	343.47	0.36
Reach 1	2870.2	Hazel w CC	64.97	231.6	234.49		234.57	0.000833	1.72	59.07	359.57	0.38
Reach 1	2829	100 Year	37.12	232.58	234.3		234.31	0.000676	0.83	96.86	303.87	0.22
Reach 1	2829	100 Year w C	45.86	232.58	234.37		234.38	0.000755	0.91	107.25	323.5	0.24
Reach 1	2829	Hazel	49.85	232.58	234.4		234.41	0.000795	0.94	111.39	328.52	0.24
Reach 1	2829	Hazel w CC	64.97	232.58	234.48		234.5	0.00094	1.06	125.73	367.11	0.27
Reach 1	2795	100 Year	37.12	232.6	234.21		234.27	0.001767	1.31	37.2	230.55	0.38
Reach 1	2795	100 Year w C	45.86	232.6	234.27		234.34	0.00176	1.36	43.95	252.68	0.38
Reach 1	2795	Hazel	49.85	232.6	234.3		234.37	0.001782	1.38	46.63	262.54	0.39
Reach 1	2795	Hazel w CC	64.97	232.6	234.38		234.45	0.001788	1.44	56.69	284.82	0.39
Reach 1	2745	100 Year	37.12	232.16	234.05		234.15	0.00356	1.55	27.01	165.58	0.4
Reach 1	2745	100 Year w C	45.86	232.16	234.11		234.22	0.003631	1.61	32.37	203.98	0.41
Reach 1	2745	Hazel	49.85	232.16	234.13		234.24	0.003638	1.62	34.57	209.09	0.41
Reach 1	2745	Hazel w CC	64.97	232.16	234.2		234.33	0.00362	1.67	41.94	224.87	0.41
Reach 1	2708.7	100 Year	37.12	232.05	233.98		234.05	0.00184	1.19	34.15	156.68	0.3
Reach 1	2708.7	100 Year w C	45.86	232.05	234.04		234.11	0.001953	1.26	39.1	176.52	0.31
Reach 1	2708.7	Hazel	49.85	232.05	234.05		234.13	0.002082	1.31	40.6	182.64	0.32
Reach 1	2708.7	Hazel w CC	64.97	232.05	234.11		234.21	0.002425	1.44	46.48	219.33	0.35
Reach 1	2680	100 Year	37.12	231.83	234		234.02	0.000253	0.56	66.55	209.08	0.14
Reach 1	2680	100 Year w C	45.86	231.83	234.06		234.08	0.000275	0.6	75.32	239.72	0.15
Reach 1	2680	Hazel	49.85	231.83	234.07		234.1	0.000293	0.62	78.2	254.75	0.15
Reach 1	2680	Hazel w CC	64.97	231.83	234.14		234.17	0.000345	0.69	89.64	278.52	0.16
Reach 1	2643	100 Year	37.12	231.58	233.98		234	0.000464	0.83	56.93	319.01	0.19
Reach 1	2643	100 Year w C	45.86	231.58	234.04		234.06	0.00048	0.86	68.35	372.85	0.19
Reach 1	2643	Hazel	49.85	231.58	234.05		234.08	0.000496	0.88	71.9	380.6	0.2
Reach 1	2643	Hazel w CC	64.97	231.58	234.12		234.15	0.000519	0.92	85.35	395	0.2
Reach 1	2600	100 Year	41.07	231.23	233.46	233.46	233.9	0.009297	3.07	15.05	45.33	0.77
Reach 1	2600	100 Year w C	50.43	231.23	233.79	233.79	234	0.004167	2.32	29.14	197.78	0.53
Reach 1	2600	Hazel	53.18	231.23	233.82	233.82	234.02	0.003993	2.3	31.33	225.64	0.52
Reach 1	2600	Hazel w CC	64.66	231.23	233.9	233.9	234.09	0.003904	2.33	38.34	258.65	0.52
Reach 1	2574	100 Year	41.07	231.17	233.52	233.37	233.56	0.001219	1.24	56.6	276.57	0.32
Reach 1	2574	100 Year w C	50.43	231.17	233.57	233.41	233.61	0.001311	1.31	64.06	289.78	0.33
Reach 1	2574	Hazel	53.18	231.17	233.57	233.42	233.62	0.001374	1.35	65.41	290.65	0.34
Reach 1	2574	Hazel w CC	64.66	231.17	233.67	233.48	233.7	0.001033	1.21	82.93	321.05	0.3
Reach 1	Sarjeant Drive		Culvert									
Reach 1	2358	100 Year	41.07	229.96	232.14	231.96	232.83	0.007512	3.67	11.19	14.3	0.86
Reach 1	2358	100 Year w C	50.43	229.96	232.22	232.21	233.18	0.009916	4.33	11.64	14.55	0.99
Reach 1	2358	Hazel	53.18	229.96	232.28	232.28	233.28	0.009944	4.43	12.01	14.76	1
Reach 1	2358	Hazel w CC	64.66	229.96	232.56	232.56	233.7	0.009508	4.73	13.68	21.82	1

Reach 1	1821	100 Year	43.37	226.87	228.93	228.83	229.1	0.003288	1.85	24.47	47.18	0.48
Reach 1	1821	100 Year w C	53.81	226.87	229.05	228.92	229.23	0.002817	1.8	30.44	54.56	0.45
Reach 1	1821	Hazel	56.57	226.87	229.09	228.94	229.26	0.002595	1.75	32.58	56.11	0.43
Reach 1	1821	Hazel w CC	68.3	226.87	229.19	229.03	229.37	0.00242	1.76	38.49	62.26	0.42
Reach 1	1782.3	100 Year	43.37	226.63	228.87	228.43	228.99	0.002038	1.7	29.9	42.53	0.41
Reach 1	1782.3	100 Year w C	53.81	226.63	228.98	228.56	229.12	0.002124	1.81	35.24	48.08	0.42
Reach 1	1782.3	Hazel	56.57	226.63	229.03	228.59	229.16	0.002027	1.8	37.33	49.2	0.41
Reach 1	1782.3	Hazel w CC	68.3	226.63	229.12	228.76	229.27	0.002139	1.91	42.21	52.16	0.43
Reach 1	1765	100 Year	43.37	226.67	228.92	228.34	228.95	0.00032	0.7	62.81	73.71	0.16
Reach 1	1765	100 Year w C	53.81	226.67	229.05	228.41	229.08	0.000326	0.74	72.29	79.34	0.17
Reach 1	1765	Hazel	56.57	226.67	229.09	228.42	229.12	0.000316	0.74	75.6	81.57	0.16
Reach 1	1765	Hazel w CC	68.3	226.67	229.19	228.48	229.23	0.000338	0.79	84.29	86.4	0.17
Reach 1	1735	100 Year	43.37	226.65	228.89	228.24	228.93	0.000897	1.22	61.68	102.72	0.28
Reach 1	1735	100 Year w C	53.81	226.65	229.02	228.34	229.06	0.000829	1.23	77.44	123.02	0.27
Reach 1	1735	Hazel	56.57	226.65	229.07	228.36	229.1	0.000757	1.19	83.08	123.52	0.26
Reach 1	1735	Hazel w CC	68.3	226.65	229.18	228.46	229.21	0.000702	1.18	96.77	124.74	0.25
Reach 1	1706	100 Year	43.37	226.38	228.89	228.03	228.91	0.000432	0.91	70.25	76.3	0.19
Reach 1	1706	100 Year w C	53.81	226.38	229.01	228.15	229.04	0.000463	0.98	79.94	76.4	0.2
Reach 1	1706	Hazel	56.57	226.38	229.06	228.17	229.08	0.000453	0.98	83.34	77.09	0.2
Reach 1	1706	Hazel w CC	68.3	226.38	229.16	228.25	229.19	0.000498	1.05	91.7	80.53	0.21
Reach 1	1678	100 Year	44.1	226.25	228.87	227.81	228.9	0.000232	0.65	62.13	75.39	0.14
Reach 1	1678	100 Year w C	54.29	226.25	229	227.9	229.03	0.00025	0.7	71.81	76.7	0.15
Reach 1	1678	Hazel	58.7	226.25	229.04	227.94	229.07	0.000262	0.73	75.05	77.23	0.15
Reach 1	1678	Hazel w CC	70.86	226.25	229.14	228.04	229.18	0.000293	0.79	83.23	80.41	0.16
Reach 1	1646	100 Year	44.1	225.61	228.86	228.43	228.89	0.000532	1	84.82	119.29	0.22
Reach 1	1646	100 Year w C	54.29	225.61	228.99	228.49	229.02	0.000515	1.02	100.72	130.99	0.22
Reach 1	1646	Hazel	58.7	225.61	229.03	228.52	229.06	0.000519	1.04	106.33	132.4	0.23
Reach 1	1646	Hazel w CC	70.86	225.61	229.14	228.57	229.17	0.00054	1.1	120.55	141.66	0.23
Reach 1	George Street		Culvert									
Reach 1	1621	100 Year	44.1	225.63	228.61	228.61	228.88	0.006971	2.85	28.34	46.23	0.68
Reach 1	1621	100 Year w C	54.29	225.63	228.71	228.71	229	0.007384	3.04	33.15	51.19	0.71
Reach 1	1621	Hazel	58.7	225.63	228.78	228.78	229.05	0.006808	2.99	36.86	56.7	0.68
Reach 1	1621	Hazel w CC	70.86	225.63	228.9	228.9	229.15	0.006384	3.02	44.48	67.2	0.67
Reach 1	1588	100 Year	44.1	225.61	227.98	226.53	228.01	0.000576	0.98	63.21	39.06	0.21
Reach 1	1588	100 Year w C	54.29	225.61	228.07	226.64	228.11	0.000751	1.15	66.85	39.95	0.24
Reach 1	1588	Hazel	58.7	225.61	228.11	226.68	228.15	0.000826	1.22	68.42	40.69	0.25
Reach 1	1588	Hazel w CC	70.86	225.61	228.21	226.79	228.27	0.001027	1.4	72.72	42.69	0.29
Reach 1	1554	100 Year	44.1	225.48	227.9	226.73	227.97	0.001465	1.48	40.3	31.5	0.31
Reach 1	1554	100 Year w C	54.29	225.48	227.96	226.87	228.06	0.00199	1.76	42.57	39.76	0.37
Reach 1	1554	Hazel	58.7	225.48	227.99	226.93	228.1	0.002223	1.87	43.68	42.92	0.39
Reach 1	1554	Hazel w CC	70.86	225.48	228.06	227.08	228.21	0.002869	2.17	46.71	44.43	0.44
Reach 1	1528	100 Year	44.1	225.41	227.91	226.44	227.94	0.000474	1.12	70.42	47.14	0.23
Reach 1	1528	100 Year w C	54.29	225.41	227.98	226.55	228.02	0.00064	1.32	73.65	47.68	0.27
Reach 1	1528	Hazel	58.7	225.41	228	226.6	228.05	0.000714	1.4	75	47.93	0.28
Reach 1	1528	Hazel w CC	70.86	225.41	228.08	226.73	228.14	0.000925	1.63	78.55	48.74	0.32
Reach 1	1468	100 Year	44.1	225.49	227.92	225.94	227.92	0.000034	0.3	190.89	108.46	0.06
Reach 1	1468	100 Year w C	54.29	225.49	227.99	226.01	228	0.000046	0.36	198.88	109	0.07
Reach 1	1468	Hazel	58.7	225.49	228.03	226.03	228.03	0.000052	0.38	202.24	109.35	0.08
Reach 1	1468	Hazel w CC	70.86	225.49	228.11	226.1	228.11	0.000067	0.44	211.1	110.02	0.09
Reach 1	1431	100 Year	44.28	225.49	227.92	225.94	227.92	0.000034	0.3	180.68	93.75	0.06
Reach 1	1431	100 Year w C	54.45	225.49	227.99	225.99	228	0.000046	0.35	187.54	94.25	0.07
Reach 1	1431	Hazel	58.89	225.49	228.02	226.02	228.03	0.000052	0.38	190.41	94.53	0.08
Reach 1	1431	Hazel w CC	71.13	225.49	228.1	226.08	228.11	0.000068	0.44	197.98	101.9	0.09
Reach 1	1404	100 Year	44.28	225.46	227.89	226.43	227.91	0.000289	0.83	80.98	93.51	0.18
Reach 1	1404	100 Year w C	54.45	225.46	227.95	226.55	227.99	0.000375	0.97	86.68	101.27	0.2

Reach 1	1404	Hazel	58.89	225.46	227.98	226.6	228.02	0.000412	1.02	89.08	103.24	0.21
Reach 1	1404	Hazel w CC	71.13	225.46	228.05	226.73	228.1	0.000513	1.16	95.39	114.01	0.24
Reach 1	Victoria Street		Culvert									
Reach 1	1374	100 Year	44.28	224.61	226.11		226.26	0.002731	1.83	25.4	41.6	0.5
Reach 1	1374	100 Year w C	54.45	224.61	226.2		226.4	0.003298	2.1	27.17	42.2	0.55
Reach 1	1374	Hazel	58.89	224.61	226.43		226.6	0.002285	1.93	31.79	48.53	0.47
Reach 1	1374	Hazel w CC	71.13	224.61	226.92		227.07	0.00136	1.76	41.61	55.36	0.38
Reach 1	1326	100 Year	44.28	224.01	226.09		226.13	0.001067	1.21	69.48	49.21	0.27
Reach 1	1326	100 Year w C	54.45	224.01	226.18		226.23	0.001353	1.41	73.94	50.33	0.31
Reach 1	1326	Hazel	58.89	224.01	226.43		226.47	0.000992	1.3	86.65	53.19	0.27
Reach 1	1326	Hazel w CC	71.13	224.01	226.93		226.97	0.000675	1.22	116.62	64.64	0.23
Reach 1	1289	100 Year	44.28	223.73	226.09		226.1	0.00032	0.78	96.86	54.78	0.17
Reach 1	1289	100 Year w C	54.45	223.73	226.17		226.19	0.000424	0.92	101.7	56.52	0.19
Reach 1	1289	Hazel	58.89	223.73	226.42		226.44	0.000339	0.88	116.15	59.8	0.18
Reach 1	1289	Hazel w CC	71.13	223.73	226.93		226.95	0.000246	0.85	147.64	64.15	0.15
Reach 1	1242	100 Year	44.28	223.58	226.08		226.09	0.000178	0.55	126.88	72.44	0.11
Reach 1	1242	100 Year w C	54.45	223.58	226.16		226.18	0.000235	0.64	133.08	73.17	0.13
Reach 1	1242	Hazel	58.89	223.58	226.42		226.43	0.000188	0.61	151.84	76.17	0.12
Reach 1	1242	Hazel w CC	71.13	223.58	226.93		226.94	0.000139	0.59	192.83	111.74	0.11
Reach 1	1218	100 Year	44.28	223.18	226.08		226.09	0.000074	0.4	150.06	70.92	0.08
Reach 1	1218	100 Year w C	54.45	223.18	226.16		226.17	0.0001	0.47	156.1	71.74	0.09
Reach 1	1218	Hazel	58.89	223.18	226.42		226.42	0.000084	0.45	174.43	73.77	0.08
Reach 1	1218	Hazel w CC	71.13	223.18	226.93		226.93	0.000069	0.46	213.76	82.3	0.08
Reach 1	1192	100 Year	44.28	223.06	226.08		226.08	0.000053	0.42	181.66	94.87	0.08
Reach 1	1192	100 Year w C	54.45	223.06	226.16		226.17	0.00007	0.49	189.73	95.53	0.09
Reach 1	1192	Hazel	58.89	223.06	226.42		226.42	0.000058	0.48	214.07	97.54	0.08
Reach 1	1192	Hazel w CC	71.13	223.06	226.93		226.93	0.000046	0.47	264.83	100.88	0.08
Reach 1	1168	100 Year	44.28	222.78	226.08		226.08	0.000032	0.33	199.89	98.96	0.06
Reach 1	1168	100 Year w C	54.45	222.78	226.16		226.17	0.000042	0.39	208.29	99.24	0.07
Reach 1	1168	Hazel	58.89	222.78	226.42		226.42	0.000034	0.37	233.42	99.98	0.06
Reach 1	1168	Hazel w CC	71.13	222.78	226.93		226.93	0.000027	0.36	285.05	101.93	0.06
Reach 1	1153	100 Year	45.43	222.73	226.08		226.08	0.000028	0.3	206.55	107.45	0.05
Reach 1	1153	100 Year w C	55.55	222.73	226.16		226.17	0.000037	0.34	215.66	107.9	0.06
Reach 1	1153	Hazel	61.04	222.73	226.42		226.42	0.00003	0.33	243.01	108.97	0.06
Reach 1	1153	Hazel w CC	73.74	222.73	226.93		226.93	0.000022	0.31	299.36	111.28	0.05
Reach 1	1113	100 Year	45.43	222.63	225.89	224.62	226.04	0.001389	1.99	48.31	114.86	0.4
Reach 1	1113	100 Year w C	55.55	222.63	225.96	224.88	226.12	0.001569	2.16	56.51	117.83	0.42
Reach 1	1113	Hazel	61.04	222.63	225.28	225.01	226.15	0.006315	4.26	14.87	71.04	0.85
Reach 1	1113	Hazel w CC	73.74	222.63	225.31	225.31	226.55	0.008839	5.08	15.06	73.19	1
Reach 1	Anne Street		Culvert									
Reach 1	957	100 Year	45.43	222.09	224.71		225.15	0.003038	2.95	15.43	60.22	0.59
Reach 1	957	100 Year w C	55.55	222.09	224.85		225.45	0.003802	3.41	16.27	60.74	0.66
Reach 1	957	Hazel	61.04	222.09	224.96		225.62	0.004036	3.61	16.91	61.1	0.69
Reach 1	957	Hazel w CC	73.74	222.09	225.22		226.03	0.004386	3.99	18.48	62.04	0.73
Reach 1	929	100 Year	45.43	222.1	224.85		224.93	0.000745	1.5	53.21	59.95	0.29
Reach 1	929	100 Year w C	55.55	222.1	225.07		225.15	0.000746	1.58	66.39	68.1	0.3
Reach 1	929	Hazel	61.04	222.1	225.21		225.29	0.00069	1.57	76.17	82.23	0.29
Reach 1	929	Hazel w CC	73.74	222.1	225.56		225.62	0.000585	1.55	102.7	113.83	0.27
Reach 1	882	100 Year	45.43	221.83	224.78		224.88	0.001456	1.71	49.26	85.51	0.32
Reach 1	882	100 Year w C	55.55	221.83	225.03		225.11	0.001164	1.61	70.68	91.74	0.29
Reach 1	882	Hazel	61.04	221.83	225.18		225.25	0.00096	1.51	86.01	101.13	0.27
Reach 1	882	Hazel w CC	73.74	221.83	225.55	224.14	225.59	0.000592	1.28	123.53	104.8	0.22
Reach 1	831	100 Year	45.43	221.79	224.29	223.92	224.71	0.006985	3.22	19.23	12.38	0.66
Reach 1	831	100 Year w C	55.55	221.79	224.23	224.13	224.91	0.011473	4.07	18.54	12.16	0.84

Reach 1	831	Hazel	61.04	221.79	224.22	224.22	225.05	0.014199	4.5	18.37	12.1	0.94
Reach 1	831	Hazel w CC	73.74	221.79	224.31	224.31	225.4	0.017677	5.16	19.55	13.04	1.05
Reach 1	792	100 Year	45.43	221.53	224.49		224.54	0.000609	1.23	68.1	66.13	0.23
Reach 1	792	100 Year w C	55.55	221.53	224.59		224.65	0.000737	1.38	74.56	66.86	0.26
Reach 1	792	Hazel	61.04	221.53	224.66		224.72	0.000776	1.44	79.01	67.59	0.26
Reach 1	792	Hazel w CC	73.74	221.53	224.74		224.82	0.000962	1.63	84.42	68.24	0.3
Reach 1	752	100 Year	45.43	221.4	224.5		224.52	0.000329	0.81	113.94	72.33	0.15
Reach 1	752	100 Year w C	55.55	221.4	224.6		224.62	0.000413	0.93	121.08	73.8	0.17
Reach 1	752	Hazel	61.04	221.4	224.66		224.69	0.000445	0.98	125.95	73.9	0.18
Reach 1	752	Hazel w CC	73.74	221.4	224.74		224.77	0.000567	1.13	131.9	74.03	0.2
Reach 1	718	100 Year	45.43	221.4	224.49		224.51	0.000255	0.83	105.3	67.56	0.15
Reach 1	718	100 Year w C	55.55	221.4	224.58		224.61	0.000325	0.96	111.72	69.2	0.17
Reach 1	718	Hazel	61.04	221.4	224.65		224.67	0.000351	1.01	116.22	70.06	0.18
Reach 1	718	Hazel w CC	73.74	221.4	224.72		224.76	0.000452	1.16	121.52	70.73	0.21
Reach 1	698	100 Year	44.61	221.29	224.45		224.5	0.000474	1.32	63.34	37.56	0.24
Reach 1	698	100 Year w C	54.3	221.29	224.53		224.59	0.000626	1.54	66.32	37.97	0.28
Reach 1	698	Hazel	61.69	221.29	224.58		224.66	0.000752	1.7	68.22	38.19	0.3
Reach 1	698	Hazel w CC	74.79	221.29	224.62		224.73	0.001037	2.02	69.96	38.39	0.36
Reach 1	681	100 Year	44.61	221.21	224.32	224.22	224.45	0.007197	2.1	39.42	74.83	0.53
Reach 1	681	100 Year w C	54.3	221.21	224.28	224.28	224.52	0.01286	2.75	36.54	73.55	0.7
Reach 1	681	Hazel	61.69	221.21	224.32	224.32	224.57	0.014028	2.92	39.12	74.72	0.73
Reach 1	681	Hazel w CC	74.79	221.21	224.47	224.4	224.67	0.010453	2.71	51.11	80.25	0.65
Reach 1	667	Innisfil Street	Culvert									
Reach 1	656	100 Year	44.61	221.57	224.36		224.43	0.001669	1.63	67.3	125.48	0.38
Reach 1	656	100 Year w C	54.3	221.57	224.23	224.23	224.42	0.004522	2.56	51.45	120.54	0.62
Reach 1	656	Hazel	61.69	221.57	224.27	224.27	224.47	0.004885	2.7	55.71	121.61	0.65
Reach 1	656	Hazel w CC	74.79	221.57	224.58		224.65	0.001889	1.87	95.09	129.1	0.41
Reach 1	610	100 Year	44.61	221.04	224.38		224.38	0.000114	0.36	189.92	130.71	0.06
Reach 1	610	100 Year w C	54.3	221.04	224.22		224.22	0.000239	0.5	168.95	128.45	0.09
Reach 1	610	Hazel	61.69	221.04	224.31		224.31	0.000253	0.53	180.58	129.58	0.09
Reach 1	610	Hazel w CC	74.79	221.04	224.59		224.6	0.000212	0.51	218.04	135.34	0.09
Reach 1	601	100 Year	44.48	221.02	224.37		224.38	0.000344	0.75	111.68	127.46	0.14
Reach 1	601	100 Year w C	54.22	221.02	224.19		224.22	0.000842	1.13	90.54	107.71	0.21
Reach 1	601	Hazel	61.78	221.02	224.28		224.31	0.000854	1.16	100.66	116.5	0.21
Reach 1	601	Hazel w CC	74.88	221.02	224.57		224.59	0.000532	0.98	138.04	131.66	0.17
Reach 1	559	100 Year	44.48	220.97	223.04	223.04	224.04	0.01299	4.44	10.03	16.9	1
Reach 1	559	100 Year w C	54.22	220.97	223.8	223.8	224.07	0.003977	2.73	39.77	73.7	0.57
Reach 1	559	Hazel	61.78	220.97	223.83	223.83	224.15	0.004623	2.97	42.18	74.33	0.61
Reach 1	559	Hazel w CC	74.88	220.97	224.5	223.98	224.55	0.000869	1.52	108.33	125.47	0.28
Reach 1	546	Sanford Street	Culvert									
Reach 1	532	100 Year	44.48	220.01	222.31	222.31	223.31	0.00991	4.52	10.14	12.75	0.99
Reach 1	532	100 Year w C	54.22	220.01	222.59	222.59	223.73	0.009626	4.83	11.53	13.84	0.99
Reach 1	532	Hazel	61.78	220.01	222.8	222.8	224.04	0.009359	5.04	12.58	14.78	0.99
Reach 1	532	Hazel w CC	74.88	220.01	223.14	223.14	224.56	0.00904	5.37	14.27	18.61	1
Reach 1	500	100 Year	44.48	219.75	222.57		222.72	0.001305	2.01	32.63	32.17	0.39
Reach 1	500	100 Year w C	54.22	219.75	222.66		222.86	0.001678	2.32	35.47	35.08	0.44
Reach 1	500	Hazel	61.78	219.75	222.73		222.96	0.001915	2.52	38.2	37.68	0.47
Reach 1	500	Hazel w CC	74.88	219.75	223.03		223.24	0.001678	2.52	51.93	55.56	0.45
Reach 1	474	100 Year	45	219.74	222.64		222.67	0.000368	1.07	68.65	64.28	0.21
Reach 1	474	100 Year w C	54.74	219.74	222.75		222.79	0.000433	1.19	75.88	66.42	0.22
Reach 1	474	Hazel	63.02	219.74	222.84		222.88	0.000473	1.28	82.1	69.25	0.24
Reach 1	474	Hazel w CC	76.34	219.74	223.13		223.17	0.000383	1.22	103.6	76.56	0.22
Reach 1	442	100 Year	45	219.32	222.57	221.41	222.64	0.000626	1.48	43.43	71.9	0.27
Reach 1	442	100 Year w C	54.74	219.32	222.69	221.63	222.76	0.000594	1.48	52.2	73.85	0.26

Reach 1	442	Hazel	63.02	219.32	222.79	221.79	222.86	0.000553	1.46	59.68	75.18	0.26
Reach 1	442	Hazel w CC	76.34	219.32	223.11	222.48	223.16	0.000305	1.15	84.12	78.73	0.19
Reach 1	405	Bradford Street	Culvert									
Reach 1	338	100 Year	45	219.07	221.11	221.11	222.01	0.011783	4.31	10.8	39.8	0.99
Reach 1	338	100 Year w C	54.74	219.07	221.37	221.37	222.39	0.011285	4.57	12.32	45.49	0.99
Reach 1	338	Hazel	63.02	219.07	221.57	221.57	222.69	0.011	4.78	13.53	51.83	0.99
Reach 1	338	Hazel w CC	76.34	219.07	221.85	221.85	223.15	0.010973	5.14	15.2	62.55	1.01
Reach 1	304	100 Year	45	219.08	220.62		220.75	0.004784	1.87	32.23	80.11	0.55
Reach 1	304	100 Year w C	54.74	219.08	220.74		220.85	0.003877	1.8	40.69	106.12	0.5
Reach 1	304	Hazel	63.02	219.08	220.82		220.93	0.003586	1.79	46.33	118.81	0.48
Reach 1	304	Hazel w CC	76.34	219.08	220.92		221.04	0.00335	1.82	54.28	134.1	0.47
Reach 1	267	100 Year	45	219	220.63		220.66	0.000805	1.07	75.48	94.85	0.28
Reach 1	267	100 Year w C	54.74	219	220.74		220.77	0.000815	1.13	86.49	110.07	0.28
Reach 1	267	Hazel	63.02	219	220.82		220.85	0.000827	1.17	94.8	129.64	0.29
Reach 1	267	Hazel w CC	76.34	219	220.92		220.96	0.00085	1.23	106.97	159.24	0.29
Reach 1	218	100 Year	45	218.97	220.59		220.62	0.000749	0.96	75	86.13	0.25
Reach 1	218	100 Year w C	54.74	218.97	220.7		220.73	0.000772	1.02	84.96	94.83	0.26
Reach 1	218	Hazel	63.02	218.97	220.78		220.81	0.000805	1.07	92.2	102.95	0.26
Reach 1	218	Hazel w CC	76.34	218.97	220.88		220.92	0.000856	1.15	104.06	134.84	0.28
Reach 1	197.5	100 Year	45	218.86	220.59		220.6	0.000503	0.75	83.64	97.19	0.2
Reach 1	197.5	100 Year w C	54.74	218.86	220.69		220.71	0.000565	0.83	91.38	132.62	0.22
Reach 1	197.5	Hazel	63.02	218.86	220.77		220.79	0.000624	0.9	96.95	149.11	0.23
Reach 1	197.5	Hazel w CC	76.34	218.86	220.87		220.9	0.000714	1	105.56	165.28	0.25
Reach 1	170	100 Year	45.8	218.73	220.32	220.32	220.55	0.006503	2.89	34.62	117.91	0.78
Reach 1	170	100 Year w C	55.68	218.73	220.36	220.36	220.65	0.00838	3.33	36.76	124.15	0.88
Reach 1	170	Hazel	64.16	218.73	220.47	220.47	220.73	0.007181	3.24	44.53	148.37	0.83
Reach 1	170	Hazel w CC	77.69	218.73	220.56	220.52	220.83	0.007199	3.37	51.53	180.76	0.84
Reach 1	147	100 Year	45.8	217.81	219.5	218.82	219.66	0.002	1.79	26.13	294.42	0.44
Reach 1	147	100 Year w C	55.68	217.81	219.74	218.95	219.92	0.001897	1.9	29.87	300.15	0.44
Reach 1	147	Hazel	64.16	217.81	220.01	219.06	220.19	0.001611	1.91	34.19	302.25	0.41
Reach 1	147	Hazel w CC	77.69	217.81	220.66	219.22	220.69	0.000355	0.97	198.79	310.64	0.2
Reach 1	126	Lakeshore Drive	Bridge									
Reach 1	108.1	100 Year	45.8	217.73	219.39		219.54	0.002426	1.7	26.89	23.88	0.43
Reach 1	108.1	100 Year w C	55.68	217.73	219.5		219.69	0.002868	1.94	28.76	24.72	0.48
Reach 1	108.1	Hazel	64.16	217.73	219.6		219.83	0.00314	2.11	30.47	25.36	0.5
Reach 1	108.1	Hazel w CC	77.69	217.73	219.8		220.07	0.003266	2.3	33.78	26.68	0.52
Reach 1	56	100 Year	45.8	217.5	219.2	218.55	219.35	0.005877	1.71	27.52	22.5	0.45
Reach 1	56	100 Year w C	55.68	217.5	219.26	218.7	219.46	0.007576	1.99	28.82	22.84	0.52
Reach 1	56	Hazel	64.16	217.5	219.33	218.81	219.57	0.008526	2.18	30.48	23.28	0.55
Reach 1	56	Hazel w CC	77.69	217.5	219	219	219.59	0.028268	3.41	23.07	21.33	0.97
Reach 1	36	Pedestrian Bridg	Bridge									
Reach 1	20	100 Year	45.8	217.33	219.07		219.16	0.00327	1.34	34.62	25.56	0.35
Reach 1	20	100 Year w C	55.68	217.33	219.03		219.18	0.005221	1.67	33.75	25.42	0.43
Reach 1	20	Hazel	64.16	217.33	218.99		219.19	0.00759	1.98	32.75	25.14	0.52
Reach 1	20	Hazel w CC	77.69	217.33	218.9		219.24	0.013881	2.56	30.46	24.04	0.7
Reach 1	14	100 Year	45.8	217.22	219.13		219.13	0.000025	0.17	404.48	422.7	0.04
Reach 1	14	100 Year w C	55.68	217.22	219.13		219.13	0.000037	0.21	404.41	422.7	0.05
Reach 1	14	Hazel	64.16	217.22	219.13		219.13	0.00005	0.24	404.34	422.7	0.06
Reach 1	14	Hazel w CC	77.69	217.22	219.13		219.13	0.000073	0.29	404.21	422.7	0.07
Reach 1	8	100 Year	45.8	216.8	219.13	216.91	219.13	0.000001	0.05	931.95	400	0.01
Reach 1	8	100 Year w C	55.68	216.8	219.13	216.93	219.13	0.000001	0.06	931.95	400	0.01
Reach 1	8	Hazel	64.16	216.8	219.13	216.94	219.13	0.000002	0.07	931.95	400	0.01
Reach 1	8	Hazel w CC	77.69	216.8	219.13	216.96	219.13	0.000003	0.08	931.95	400	0.02

Dyments Creek - Supplemental Flow Scenarios

Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
			(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
Reach 1	1113	100 Year	45.43	222.63	226.51		226.53	0.000175	0.82	124.96	132.52	0.15
Reach 1	1113	100 Year w	55.55	222.63	226.58		226.6	0.000218	0.92	134.31	136.07	0.16
Reach 1	1113	Hazel	61.04	222.63	226.61		226.63	0.00024	0.98	138.94	136.84	0.17
Reach 1	1113	Hazel w CC	73.74	222.63	226.69		226.71	0.000289	1.09	149.16	138.5	0.19
Reach 1	1075	100 Year	45.43	225.49	226.51		226.52	0.000038	0.18	148.97	227.23	0.06
Reach 1	1075	100 Year w	55.55	225.49	226.58		226.59	0.000042	0.19	165.2	235.05	0.06
Reach 1	1075	Hazel	61.04	225.49	226.62		226.62	0.000044	0.2	173.32	237.8	0.06
Reach 1	1075	Hazel w CC	73.74	225.49	226.69		226.7	0.000047	0.22	191.48	244.55	0.06
Reach 1	1056	100 Year	45.43	225.51	226.51		226.52	0.000103	0.27	112.18	187.28	0.09
Reach 1	1056	100 Year w	55.55	225.51	226.57		226.59	0.000115	0.3	125.33	194.54	0.1
Reach 1	1056	Hazel	61.04	225.51	226.61		226.62	0.000121	0.31	132.03	205.7	0.1
Reach 1	1056	Hazel w CC	73.74	225.51	226.68		226.7	0.000134	0.35	148.16	227.9	0.11
Reach 1	1033	100 Year	45.43	225.74	226.48	226.22	226.51	0.000687	0.76	66.25	158.15	0.31
Reach 1	1033	100 Year w	55.55	225.74	226.55	226.28	226.58	0.000678	0.81	77.18	166.16	0.31
Reach 1	1033	Hazel	61.04	225.74	226.58	226.28	226.61	0.000668	0.83	82.65	167.97	0.31
Reach 1	1033	Hazel w CC	73.74	225.74	226.66	226.33	226.69	0.000596	0.84	98.57	181.69	0.3
Reach 1	1011	100 Year	45.43	225.93	226.38	226.32	226.48	0.001364	0.59	36.76	108.54	0.29
Reach 1	1011	100 Year w	55.55	225.93	226.46	226.37	226.55	0.00122	0.62	45.36	114	0.28
Reach 1	1011	Hazel	61.04	225.93	226.49	226.4	226.59	0.001198	0.64	49.22	116.45	0.28
Reach 1	1011	Hazel w CC	73.74	225.93	226.57	226.44	226.67	0.001102	0.68	58.84	122.12	0.28
Reach 1	989	100 Year	45.43	226.11	226.25	226.25	226.43	0.002355	0.33	25.17	79.51	0.32
Reach 1	989	100 Year w	55.55	226.11	226.32	226.32	226.51	0.002172	0.45	31.3	89.13	0.34
Reach 1	989	Hazel	61.04	226.11	226.35	226.35	226.54	0.002164	0.5	34.01	90.36	0.35
Reach 1	989	Hazel w CC	73.74	226.11	226.4	226.4	226.62	0.002307	0.6	38.65	93.74	0.38
Reach 1	957	100 Year	45.43	222.09	224.67		225.13	0.003197	2.99	15.19	59.87	0.6
Reach 1	957	100 Year w	55.55	222.09	224.85		225.45	0.003806	3.42	16.27	60.74	0.66
Reach 1	957	Hazel	61.04	222.09	224.96		225.62	0.004049	3.61	16.9	61.09	0.69
Reach 1	957	Hazel w CC	73.74	222.09	225.22		226.03	0.004393	3.99	18.47	62.03	0.73
Reach 1	929	100 Year	45.43	222.1	224.82		224.9	0.000788	1.53	51.08	59.43	0.3
Reach 1	929	100 Year w	55.55	222.1	225.07		225.15	0.000736	1.57	66.42	68.13	0.29
Reach 1	929	Hazel	61.04	222.1	225.21		225.29	0.000684	1.56	76.09	82.08	0.29
Reach 1	929	Hazel w CC	73.74	222.1	225.56		225.62	0.00058	1.55	102.65	113.82	0.27
Reach 1	882	100 Year	45.43	221.83	224.72		224.85	0.001595	1.85	44.07	84.84	0.35
Reach 1	882	100 Year w	55.55	221.83	225.02		225.11	0.001121	1.66	70.23	91.36	0.3
Reach 1	882	Hazel	61.04	221.83	225.18		225.25	0.00093	1.56	85.53	101.08	0.28
Reach 1	882	Hazel w CC	73.74	221.83	225.55		225.59	0.000576	1.32	123.27	104.77	0.22
Reach 1	831	100 Year	45.43	221.79	224.14		224.65	0.009001	3.51	17.43	11.79	0.74
Reach 1	831	100 Year w	55.55	221.79	224.12	224.12	224.9	0.014	4.35	17.18	11.74	0.92
Reach 1	831	Hazel	61.04	221.79	224.18	224.18	225.05	0.015055	4.59	17.94	11.89	0.96
Reach 1	831	Hazel w CC	73.74	221.79	224.31	224.31	225.4	0.017938	5.19	19.42	12.64	1.06
Reach 1	792	100 Year	45.43	221.53	224.37		224.44	0.000791	1.38	60.25	64.75	0.27
Reach 1	792	100 Year w	55.55	221.53	224.4		224.5	0.001108	1.64	62.11	65.04	0.32
Reach 1	792	Hazel	61.04	221.53	224.56		224.64	0.000956	1.58	72.25	66.63	0.3
Reach 1	792	Hazel w CC	73.74	221.53	224.6		224.71	0.001275	1.84	75.07	66.91	0.34
Reach 1	752	100 Year	45.43	221.4	224.39		224.4	0.000409	0.88	105.68	71	0.17
Reach 1	752	100 Year w	55.55	221.4	224.42		224.45	0.000574	1.05	108.01	71.38	0.2
Reach 1	752	Hazel	61.04	221.4	224.57		224.59	0.000526	1.04	118.84	73.6	0.19
Reach 1	752	Hazel w CC	73.74	221.4	224.61		224.65	0.000709	1.22	122.19	73.83	0.22
Reach 1	718	100 Year	45.43	221.4	224.37		224.39	0.000313	0.9	97.45	64.96	0.17
Reach 1	718	100 Year w	55.55	221.4	224.4		224.43	0.000447	1.08	99.16	65.8	0.2
Reach 1	718	Hazel	61.04	221.4	224.55		224.58	0.000416	1.08	109.32	68.63	0.2
Reach 1	718	Hazel w CC	73.74	221.4	224.59		224.63	0.000569	1.27	111.91	69.25	0.23

Dyments Creek - Calibration +25% Mannings

Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
			(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
Reach 1	4973	100 Year	14.52	263.21	265.13	264.05	265.15	0.001278	0.71	24.3	20.42	0.17
Reach 1	4973	Hazel	18.09	263.21	265.41	264.13	265.43	0.001102	0.73	30.4	22.82	0.17
Reach 1	4973	Hazel w CC	22.11	263.21	265.59	264.22	265.61	0.00117	0.8	35.26	33.43	0.17
Reach 1		Barrie Landfill	Culvert									
Reach 1	4910	100 Year	14.52	262.6	263.86	263.86	264.23	0.022653	2.71	5.42	7.91	0.99
Reach 1	4910	Hazel	18.09	262.6	263.99	263.99	264.4	0.020338	2.86	6.51	8.6	0.96
Reach 1	4910	Hazel w CC	22.11	262.6	264.12	264.12	264.57	0.018826	3.01	7.69	9.28	0.95
Reach 1	4845	100 Year	14.52	260.45	262.1	262.1	262.51	0.01343	3.34	5.68	6.73	0.87
Reach 1	4845	Hazel	18.09	260.45	262.24	262.24	262.69	0.013509	3.56	6.69	7.41	0.88
Reach 1	4845	Hazel w CC	22.11	260.45	262.39	262.39	262.88	0.013589	3.78	7.83	8.58	0.9
Reach 1	4776	100 Year	14.52	259.33	260.48	260.48	260.8	0.019014	3.06	5.96	8.93	0.96
Reach 1	4776	Hazel	18.09	259.33	260.59	260.59	260.95	0.018848	3.26	6.96	9.48	0.97
Reach 1	4776	Hazel w CC	22.11	259.33	260.71	260.71	261.11	0.018144	3.42	8.13	10.11	0.97
Reach 1	4743	100 Year	14.52	257.92	259.56	259.56	260.03	0.015047	3.46	5.34	5.89	0.91
Reach 1	4743	Hazel	18.09	257.92	259.73	259.73	260.24	0.014606	3.67	6.4	6.54	0.91
Reach 1	4743	Hazel w CC	22.11	257.92	259.89	259.89	260.45	0.014748	3.92	7.47	7.15	0.93
Reach 1	4722	100 Year	14.52	256.73	258.11	258.11	258.44	0.015751	2.89	6.44	11.52	0.81
Reach 1	4722	Hazel	18.09	256.73	258.23	258.23	258.58	0.01587	3.08	7.91	12.33	0.83
Reach 1	4722	Hazel w CC	22.11	256.73	258.35	258.35	258.73	0.016228	3.28	9.38	13.03	0.85
Reach 1	4689	100 Year	14.52	256.02	257.32	257.32	257.59	0.011017	2.51	8.06	20.3	0.74
Reach 1	4689	Hazel	18.09	256.02	257.43	257.43	257.7	0.010709	2.64	10.73	26.64	0.74
Reach 1	4689	Hazel w CC	22.11	256.02	257.49	257.49	257.82	0.012559	2.94	12.37	29.1	0.81
Reach 1	4651	100 Year	14.52	255.1	256.65	256.65	256.83	0.010151	2.7	11.72	28.72	0.73
Reach 1	4651	Hazel	18.09	255.1	256.71	256.71	256.92	0.011616	2.97	13.48	29.48	0.78
Reach 1	4651	Hazel w CC	22.11	255.1	256.77	256.77	257.01	0.012724	3.2	15.46	30.56	0.82
Reach 1	4608	100 Year	14.52	254.46	255.67	255.67	255.95	0.015243	2.95	8.97	17.39	0.9
Reach 1	4608	Hazel	18.09	254.46	255.77	255.77	256.07	0.015315	3.13	10.86	19.99	0.91
Reach 1	4608	Hazel w CC	22.11	254.46	255.79	255.79	256.22	0.021316	3.73	11.21	21.57	1.08
Reach 1	4577	100 Year	14.52	253.51	254.49	254.49	254.73	0.015102	2.45	7.64	16.74	0.86
Reach 1	4577	Hazel	18.09	253.51	254.58	254.58	254.84	0.015388	2.63	9.08	18.8	0.88
Reach 1	4577	Hazel w CC	22.11	253.51	254.67	254.67	254.95	0.014783	2.76	10.95	21.28	0.88
Reach 1	4531	100 Year	15.92	252.73	253.57	253.57	253.82	0.019583	2.6	7.37	15.11	0.97
Reach 1	4531	Hazel	22.63	252.73	253.71	253.71	254.02	0.018705	2.86	9.52	28.85	0.97
Reach 1	4531	Hazel w CC	27.68	252.73	253.82	253.82	254.14	0.017059	2.96	11.52	45.29	0.95
Reach 1	4507	100 Year	15.92	251.6	252.54	252.54	252.82	0.019362	2.89	7.06	12.1	0.98
Reach 1	4507	Hazel	22.63	251.6	252.69	252.69	253.04	0.018887	3.17	8.96	21.38	1
Reach 1	4507	Hazel w CC	27.68	251.6	252.8	252.8	253.19	0.018137	3.33	10.38	28.27	1
Reach 1	4475	100 Year	15.92	250.21	251.32	251.32	251.62	0.01429	2.81	7.21	19.33	0.87
Reach 1	4475	Hazel	22.63	250.21	251.52	251.52	251.86	0.013514	3.06	9.57	22.39	0.87
Reach 1	4475	Hazel w CC	27.68	250.21	251.64	251.64	252.01	0.01282	3.18	11.4	29.97	0.86
Reach 1	4445	100 Year	15.92	249.46	250.82	250.82	251.08	0.012892	2.85	9.69	17.31	0.82
Reach 1	4445	Hazel	22.63	249.46	250.96	250.96	251.28	0.014407	3.25	12.26	18.19	0.89
Reach 1	4445	Hazel w CC	27.68	249.46	251.06	251.06	251.41	0.014845	3.46	14.15	18.75	0.91
Reach 1	4411	100 Year	15.92	248.96	250.28		250.41	0.014594	2.25	12.43	19.21	0.67
Reach 1	4411	Hazel	22.63	248.96	250.42		250.59	0.016944	2.61	15.1	20.24	0.74
Reach 1	4411	Hazel w CC	27.68	248.96	250.51		250.72	0.018834	2.89	17.05	22.31	0.79
Reach 1	4386	100 Year	15.92	248.6	249.84	249.84	250.05	0.013321	2.92	12.71	32.11	0.86
Reach 1	4386	Hazel	22.63	248.6	249.98	249.98	250.2	0.013572	3.18	17.45	35.17	0.88

Reach 1	4386	Hazel w CC	27.68	248.6	250.05	250.05	250.3	0.014603	3.41	20.01	35.89	0.92
Reach 1	4368	100 Year	15.92	247.64	248.69	248.69	248.98	0.023958	2.88	9.17	16.39	0.93
Reach 1	4368	Hazel	22.63	247.64	248.85	248.85	249.21	0.025586	3.28	12.01	20.37	0.99
Reach 1	4368	Hazel w CC	27.68	247.64	248.94	248.94	249.36	0.027914	3.61	14.11	26.65	1.05
Reach 1	4341	100 Year	15.92	247	248.19	248.19	248.36	0.011487	2.11	13.2	46.48	0.65
Reach 1	4341	Hazel	22.63	247	248.32	248.32	248.48	0.011142	2.24	20.34	68.63	0.65
Reach 1	4341	Hazel w CC	27.68	247	248.38	248.38	248.55	0.011305	2.34	25.11	71.91	0.66
Reach 1	4313	100 Year	15.92	246.23	247.55	247.55	247.68	0.016302	2.3	14.29	53.9	0.69
Reach 1	4313	Hazel	22.63	246.23	247.72	247.63	247.8	0.010349	2.01	24.1	69.09	0.56
Reach 1	4313	Hazel w CC	27.68	246.23	247.84	247.68	247.9	0.007608	1.83	33.09	74.77	0.49
Reach 1	4287	100 Year	16.39	245.79	247.29	246.99	247.37	0.005359	1.74	15.55	21.7	0.47
Reach 1	4287	Hazel	25.46	245.79	247.41	247.16	247.55	0.008574	2.32	18.16	23.26	0.6
Reach 1	4287	Hazel w CC	31.13	245.79	247.51	247.24	247.67	0.009075	2.5	20.74	26.7	0.62
Reach 1	4260	100 Year	16.39	245.37	246.58	246.58	247	0.023401	3.48	6.34	15.32	1.07
Reach 1	4260	Hazel	25.46	245.37	247.37	247.17	247.41	0.001728	1.37	39.82	96.63	0.32
Reach 1	4260	Hazel w CC	31.13	245.37	247.51	247.21	247.53	0.001235	1.21	53.41	100.94	0.27
Reach 1	Edgehill Drive		Culvert									
Reach 1	4227	100 Year	16.39	244.98	246.2	246.2	246.59	0.018252	2.99	6.18	33.52	0.96
Reach 1	4227	Hazel	25.46	244.98	246.46	246.46	246.99	0.017798	3.46	8.18	40.09	0.98
Reach 1	4227	Hazel w CC	31.13	244.98	246.61	246.61	247.22	0.017536	3.7	9.3	55.32	0.99
Reach 1	4204	100 Year	16.39	244.62	245.74	245.6	245.8	0.01291	1.64	19.64	66.68	0.58
Reach 1	4204	Hazel	25.46	244.62	245.85	245.73	245.92	0.013539	1.84	28.08	82.72	0.61
Reach 1	4204	Hazel w CC	31.13	244.62	245.9	245.8	245.98	0.013587	1.91	32.5	84.07	0.62
Reach 1	4174.9	100 Year	16.39	244.26	245.15	245.15	245.31	0.022093	2.5	15.27	50.87	0.98
Reach 1	4174.9	Hazel	25.46	244.26	245.28	245.28	245.44	0.020044	2.68	22.83	66.07	0.96
Reach 1	4174.9	Hazel w CC	31.13	244.26	245.35	245.35	245.5	0.019071	2.76	27.67	76.2	0.94
Reach 1	4145	100 Year	16.39	243.97	244.35	244.2	244.38	0.015274	1.08	20.84	70.21	0.65
Reach 1	4145	Hazel	25.46	243.97	244.46	244.27	244.5	0.01516	1.3	28.55	75.62	0.67
Reach 1	4145	Hazel w CC	31.13	243.97	244.51	244.32	244.56	0.015128	1.41	32.62	77.86	0.68
Reach 1	4116	100 Year	16.39	243.73	243.99	243.82	244.01	0.011048	0.33	25.26	82.1	0.25
Reach 1	4116	Hazel	25.46	243.73	244.09	243.89	244.12	0.011191	0.45	34.34	95.91	0.27
Reach 1	4116	Hazel w CC	31.13	243.73	244.15	243.93	244.18	0.01125	0.51	39.67	101.63	0.28
Reach 1	4077.6	100 Year	16.39	243.06	243.49	243.34	243.51	0.016545	0.8	26.76	101.19	0.53
Reach 1	4077.6	Hazel	25.46	243.06	243.57	243.4	243.6	0.017811	1.03	35.3	107.01	0.59
Reach 1	4077.6	Hazel w CC	31.13	243.06	243.61	243.43	243.64	0.018654	1.15	39.47	110.32	0.62
Reach 1	4038.9	100 Year	16.39	242.15	242.3	242.25	242.36	0.066342	1.2	15.99	82.63	1.24
Reach 1	4038.9	Hazel	25.46	242.15	242.38	242.33	242.45	0.058564	1.45	22.41	90.27	1.24
Reach 1	4038.9	Hazel w CC	31.13	242.15	242.42	242.36	242.5	0.052954	1.54	26.65	96.34	1.21
Reach 1	4010.8	100 Year	16.39	241.53	241.62	241.4	241.63	0.013219	0.37	28.06	89.52	0.51
Reach 1	4010.8	Hazel	25.46	241.53	241.72	241.47	241.74	0.01331	0.66	38.81	120.58	0.6
Reach 1	4010.8	Hazel w CC	31.13	241.53	241.76	241.51	241.79	0.0141	0.77	44.03	127.24	0.63
Reach 1	3974	100 Year	16.39	240.69	240.86	240.75	240.9	0.034218	0.57	18.53	76.73	0.6
Reach 1	3974	Hazel	25.46	240.69	240.94	240.83	241	0.034853	0.73	25.94	98.04	0.65
Reach 1	3974	Hazel w CC	31.13	240.69	241	240.88	241.05	0.031124	0.75	32.07	119.76	0.63
Reach 1	3934.7	100 Year	16.39	239.92	240.15	239.92	240.16	0.011331	0.6	31.17	119.47	0.54
Reach 1	3934.7	Hazel	25.46	239.92	240.27	240	240.29	0.01039	0.74	48.47	153.92	0.6
Reach 1	3934.7	Hazel w CC	31.13	239.92	240.31	240.05	240.33	0.011513	0.81	54.31	156.87	0.63
Reach 1	3877.1	100 Year	16.39	239.11	239.58	239.36	239.6	0.008858	0.44	34.06	101.29	0.25
Reach 1	3877.1	Hazel	25.46	239.11	239.66	239.42	239.68	0.010963	0.56	41.97	102.53	0.28
Reach 1	3877.1	Hazel w CC	31.13	239.11	239.76	239.45	239.78	0.008066	0.56	52.65	107	0.25
Reach 1	3837	100 Year	14.79	238.53	238.95	238.89	239.01	0.029538	1.87	15.99	58.26	1.02

Reach 1	3837	Hazel	25.63	238.53	239.46	238.98	239.48	0.002837	1.04	46.45	61.47	0.36
Reach 1	3837	Hazel w CC	31.38	238.53	239.6	239.02	239.62	0.002478	1.07	54.95	63.44	0.34
Reach 1	3805	100 Year	14.79	237.93	238.85	238.36	238.86	0.001568	0.61	37.33	60.58	0.22
Reach 1	3805	Hazel	25.63	237.93	239.43	238.47	239.44	0.000545	0.52	73.86	63.92	0.14
Reach 1	3805	Hazel w CC	31.38	237.93	239.57	238.52	239.58	0.000572	0.56	82.58	64.37	0.15
Reach 1	3769.6	100 Year	14.79	237.52	238.72	238.17	238.78	0.002358	1.12	14.52	36.08	0.35
Reach 1	3769.6	Hazel	25.63	237.52	239.32	238.39	239.39	0.001782	1.32	23.42	60.81	0.33
Reach 1	3769.6	Hazel w CC	31.38	237.52	239.42	238.49	239.51	0.002958	1.76	27.28	63.56	0.43
Reach 1	Sproule Drive		Culvert									
Reach 1	3739	100 Year	14.79	237.28	238.06	237.96	238.24	0.014073	2.02	8.12	42.74	0.8
Reach 1	3739	Hazel	25.63	237.28	238.24	238.18	238.56	0.018636	2.73	10.38	44.1	0.96
Reach 1	3739	Hazel w CC	31.38	237.28	238.31	238.29	238.72	0.020679	3.04	11.35	44.41	1.02
Reach 1	3689	100 Year	14.79	236.79	237.08	237.08	237.16	0.033462	1.24	14.88	103.3	0.98
Reach 1	3689	Hazel	25.63	236.79	237.16	237.16	237.25	0.031808	1.57	23.78	120.57	1.02
Reach 1	3689	Hazel w CC	31.38	236.79	237.19	237.19	237.29	0.032612	1.71	27.32	125.36	1.06
Reach 1	3600.2	100 Year	14.79	235.21	235.87	235.54	235.87	0.001042	0.35	87.3	322.46	0.16
Reach 1	3600.2	Hazel	25.63	235.21	236.03	235.61	236.03	0.000835	0.37	145.06	384.05	0.15
Reach 1	3600.2	Hazel w CC	31.38	235.21	236.07	235.64	236.07	0.000906	0.41	162.24	393.46	0.16
Reach 1	3535	100 Year	13.06	234.78	235.86	235.09	235.86	0.000037	0.13	250.78	404.38	0.04
Reach 1	3535	Hazel	26.17	234.78	236.02	235.18	236.02	0.00007	0.2	318.81	469.89	0.06
Reach 1	3535	Hazel w CC	32.07	234.78	236.06	235.21	236.06	0.000086	0.23	339.21	497.03	0.07
Reach 1	3513	100 Year	13.06	234.66	235.86	234.91	235.86	0.000006	0.05	422.72	564.66	0.01
Reach 1	3513	Hazel	26.17	234.66	236.02	234.97	236.02	0.000013	0.07	510.41	568.98	0.02
Reach 1	3513	Hazel w CC	32.07	234.66	236.06	235	236.06	0.000016	0.08	534.47	571.07	0.02
Reach 1	3480	100 Year	13.06	234.73	235.86	234.94	235.86	0.000006	0.06	401.05	579.74	0.02
Reach 1	3480	Hazel	26.17	234.73	236.02	235	236.02	0.000012	0.09	492.26	594.54	0.03
Reach 1	3480	Hazel w CC	32.07	234.73	236.06	235.02	236.06	0.000016	0.1	517.29	594.54	0.03
Reach 1	3453.03	100 Year	14.84	234.69	235.86	235.02	235.86	0.000012	0.08	269.27	376.61	0.02
Reach 1	3453.03	Hazel	29.36	234.69	236.02	235.09	236.02	0.000025	0.12	327.92	381.83	0.04
Reach 1	3453.03	Hazel w CC	35.93	234.69	236.06	235.11	236.06	0.000032	0.14	343.87	382.28	0.04
Reach 1	3334	100 Year	14.84	234.42	235.85	235.61	235.86	0.000583	0.43	42.32	179.07	0.15
Reach 1	3334	Hazel	29.36	234.42	236	235.74	236.01	0.000477	0.44	70.16	222.54	0.14
Reach 1	3334	Hazel w CC	35.93	234.42	236.03	235.78	236.05	0.000518	0.46	78.73	233.2	0.14
Reach 1	3325		Culvert									
Reach 1	3312	100 Year	14.84	234.64	235.84		235.85	0.000595	0.45	39.83	154.95	0.15
Reach 1	3312	Hazel	29.36	234.64	235.98		235.99	0.000569	0.49	62.39	169.49	0.15
Reach 1	3312	Hazel w CC	35.93	234.64	236.03		236.04	0.000552	0.5	71.56	179.53	0.15
Reach 1	3235	100 Year	14.84	234.28	235.78	235.23	235.79	0.000752	0.52	33.29	118.5	0.17
Reach 1	3235	Hazel	29.36	234.28	235.92	235.68	235.93	0.000854	0.6	49.39	122.56	0.18
Reach 1	3235	Hazel w CC	35.93	234.28	235.97	235.71	235.99	0.000835	0.61	55.83	122.79	0.18
Reach 1	3225		Culvert									
Reach 1	3214	100 Year	14.84	234.25	235.24	235.24	235.52	0.02485	2.39	6.58	12.17	0.94
Reach 1	3214	Hazel	29.36	234.25	235.72	235.72	235.83	0.005985	1.7	21.49	76.4	0.53
Reach 1	3214	Hazel w CC	35.93	234.25	235.76	235.76	235.88	0.006199	1.77	24.64	87.82	0.55
Reach 1	3155.2	100 Year	14.84	234.1	234.79	234.65	234.81	0.001676	0.52	29.07	131.54	0.23
Reach 1	3155.2	Hazel	29.36	234.1	234.97	234.74	234.98	0.000972	0.44	56.88	191.36	0.18
Reach 1	3155.2	Hazel w CC	35.93	234.1	235.06	234.77	235.07	0.000661	0.38	77.33	239.69	0.15
Reach 1	Dunlop Street W		Culvert									
Reach 1	3068	100 Year	14.84	233.75	234.79	234.58	234.79	0.00067	0.42	42.68	142.17	0.16
Reach 1	3068	Hazel	29.36	233.75	234.97	234.65	234.97	0.000603	0.46	68.53	144.62	0.15

Reach 1	1765	100 Year	43.37	226.67	228.95	228.34	228.98	0.000454	0.68	64.93	75.1	0.16
Reach 1	1765	Hazel	56.57	226.67	229.11	228.42	229.14	0.000459	0.72	77.68	82.97	0.16
Reach 1	1765	Hazel w CC	68.3	226.67	229.22	228.48	229.25	0.000488	0.76	86.76	89.31	0.16
Reach 1	1735	100 Year	43.37	226.65	228.91	228.24	228.95	0.0013	1.19	64.35	118.3	0.27
Reach 1	1735	Hazel	56.57	226.65	229.09	228.36	229.12	0.001088	1.15	85.62	123.74	0.25
Reach 1	1735	Hazel w CC	68.3	226.65	229.2	228.46	229.23	0.001005	1.14	99.59	125.16	0.24
Reach 1	1706	100 Year	43.37	226.38	228.9	228.03	228.92	0.000651	0.9	71.3	76.3	0.19
Reach 1	1706	Hazel	56.57	226.38	229.07	228.17	229.09	0.000689	0.97	84.19	77.33	0.2
Reach 1	1706	Hazel w CC	68.3	226.38	229.18	228.25	229.21	0.000754	1.04	92.77	80.7	0.21
Reach 1	1678	100 Year	44.1	226.25	228.88	227.81	228.91	0.000356	0.65	62.82	76.44	0.14
Reach 1	1678	Hazel	58.7	226.25	229.05	227.94	229.08	0.000404	0.73	75.49	77.48	0.15
Reach 1	1678	Hazel w CC	70.86	226.25	229.15	228.04	229.19	0.000452	0.79	83.82	80.63	0.16
Reach 1	1646	100 Year	44.1	225.61	228.87	228.43	228.89	0.000823	0.99	85.21	119.37	0.22
Reach 1	1646	Hazel	58.7	225.61	229.03	228.52	229.06	0.000816	1.04	106.23	132.38	0.23
Reach 1	1646	Hazel w CC	70.86	225.61	229.14	228.57	229.17	0.000844	1.1	120.62	141.71	0.23
Reach 1	George Street		Culvert									
Reach 1	1621	100 Year	44.1	225.63	228.61	228.61	228.88	0.0108	2.84	28.47	46.32	0.68
Reach 1	1621	Hazel	58.7	225.63	228.77	228.77	229.05	0.010762	3	36.7	56.5	0.69
Reach 1	1621	Hazel w CC	70.86	225.63	228.9	228.9	229.15	0.009943	3.01	44.57	67.27	0.67
Reach 1	1588	100 Year	44.1	225.61	228.01	226.53	228.04	0.000857	0.97	64.42	39.32	0.21
Reach 1	1588	Hazel	58.7	225.61	228.15	226.68	228.19	0.001206	1.2	70.25	41.58	0.25
Reach 1	1588	Hazel w CC	70.86	225.61	228.26	226.79	228.32	0.001486	1.37	75.29	48.87	0.28
Reach 1	1554	100 Year	44.1	225.48	227.91	226.73	227.99	0.002227	1.47	40.84	33.02	0.31
Reach 1	1554	Hazel	58.7	225.48	228.01	226.92	228.12	0.003318	1.84	44.86	43.56	0.38
Reach 1	1554	Hazel w CC	70.86	225.48	228.09	227.07	228.23	0.004222	2.12	48.3	45.24	0.43
Reach 1	1528	100 Year	44.1	225.41	227.91	226.44	227.94	0.000736	1.11	70.65	47.18	0.23
Reach 1	1528	Hazel	58.7	225.41	228.01	226.6	228.06	0.001103	1.4	75.38	48.02	0.28
Reach 1	1528	Hazel w CC	70.86	225.41	228.09	226.73	228.15	0.001425	1.62	79.03	48.85	0.32
Reach 1	1468	100 Year	44.1	225.49	227.92	225.94	227.93	0.000053	0.3	191.1	108.48	0.06
Reach 1	1468	Hazel	58.7	225.49	228.03	226.03	228.03	0.00008	0.38	202.61	109.38	0.08
Reach 1	1468	Hazel w CC	70.86	225.49	228.11	226.1	228.12	0.000104	0.44	211.53	110.04	0.09
Reach 1	1431	100 Year	44.28	225.49	227.92	225.94	227.92	0.000053	0.3	180.8	93.76	0.06
Reach 1	1431	Hazel	58.89	225.49	228.03	226.02	228.03	0.000081	0.38	190.62	94.55	0.08
Reach 1	1431	Hazel w CC	71.13	225.49	228.11	226.08	228.11	0.000106	0.44	198.23	102.01	0.09
Reach 1	1404	100 Year	44.28	225.46	227.89	226.43	227.91	0.000453	0.83	80.98	93.51	0.18
Reach 1	1404	Hazel	58.89	225.46	227.98	226.6	228.02	0.000645	1.02	89.13	103.25	0.21
Reach 1	1404	Hazel w CC	71.13	225.46	228.05	226.73	228.1	0.000803	1.16	95.43	114.05	0.24
Reach 1	Victoria Street		Culvert									
Reach 1	1374	100 Year	44.28	224.61	226.17		226.31	0.003645	1.74	26.65	42.02	0.46
Reach 1	1374	Hazel	58.89	224.61	226.49		226.65	0.003151	1.85	33.03	51.21	0.45
Reach 1	1374	Hazel w CC	71.13	224.61	226.96		227.11	0.001993	1.72	42.45	55.84	0.37
Reach 1	1326	100 Year	44.28	224.01	226.12		226.15	0.001607	1.2	70.58	49.81	0.27
Reach 1	1326	Hazel	58.89	224.01	226.45		226.49	0.001481	1.28	88	53.39	0.26
Reach 1	1326	Hazel w CC	71.13	224.01	226.95		226.98	0.001031	1.21	117.74	65.03	0.23
Reach 1	1289	100 Year	44.28	223.73	226.1		226.11	0.000491	0.77	97.48	54.9	0.17
Reach 1	1289	Hazel	58.89	223.73	226.44		226.46	0.000519	0.87	117.01	59.87	0.17
Reach 1	1289	Hazel w CC	71.13	223.73	226.94		226.96	0.00038	0.84	148.24	64.26	0.15
Reach 1	1242	100 Year	44.28	223.58	226.08		226.09	0.000277	0.55	127.26	72.59	0.11
Reach 1	1242	Hazel	58.89	223.58	226.42		226.44	0.000291	0.61	152.45	76.28	0.12
Reach 1	1242	Hazel w CC	71.13	223.58	226.93		226.94	0.000217	0.59	193.21	112.16	0.1
Reach 1	1218	100 Year	44.28	223.18	226.08		226.09	0.000116	0.39	150.33	70.95	0.08

Reach 1	1218	Hazel	58.89	223.18	226.42		226.43	0.000131	0.45	174.91	73.82	0.08
Reach 1	1218	Hazel w CC	71.13	223.18	226.93		226.94	0.000107	0.45	214.03	82.37	0.08
Reach 1	1192	100 Year	44.28	223.06	226.08		226.09	0.000082	0.42	181.93	94.9	0.08
Reach 1	1192	Hazel	58.89	223.06	226.42		226.43	0.000091	0.47	214.6	97.58	0.08
Reach 1	1192	Hazel w CC	71.13	223.06	226.93		226.93	0.000072	0.47	265.08	100.9	0.08
Reach 1	1168	100 Year	44.28	222.78	226.08		226.08	0.000049	0.33	200.13	98.97	0.06
Reach 1	1168	Hazel	58.89	222.78	226.42		226.42	0.000053	0.37	233.9	99.99	0.06
Reach 1	1168	Hazel w CC	71.13	222.78	226.93		226.93	0.000042	0.36	285.26	101.94	0.06
Reach 1	1153	100 Year	45.43	222.73	226.08		226.08	0.000044	0.3	206.77	107.48	0.05
Reach 1	1153	Hazel	61.04	222.73	226.42		226.42	0.000047	0.33	243.51	108.99	0.06
Reach 1	1153	Hazel w CC	73.74	222.73	226.93		226.93	0.000034	0.31	299.56	111.29	0.05
Reach 1	1113	100 Year	45.43	222.63	225.89	224.62	226.04	0.002169	1.99	48.39	114.87	0.4
Reach 1	1113	Hazel	61.04	222.63	225.3	225.01	226.16	0.009562	4.21	15.02	73	0.83
Reach 1	1113	Hazel w CC	73.74	222.63	225.31	225.31	226.55	0.013842	5.07	15.06	73.19	1
Reach 1	Anne Street		Culvert									
Reach 1	957	100 Year	45.43	222.09	224.85		225.25	0.004004	2.8	16.24	60.72	0.54
Reach 1	957	Hazel	61.04	222.09	225.07		225.68	0.005582	3.48	17.55	61.45	0.65
Reach 1	957	Hazel w CC	73.74	222.09	225.31	224.62	226.08	0.006241	3.88	19.01	62.39	0.7
Reach 1	929	100 Year	45.43	222.1	224.97		225.03	0.000943	1.39	59.97	62.63	0.26
Reach 1	929	Hazel	61.04	222.1	225.28		225.35	0.000946	1.49	81.47	91.86	0.27
Reach 1	929	Hazel w CC	73.74	222.1	225.61		225.67	0.000826	1.49	109.12	115.02	0.26
Reach 1	882	100 Year	45.43	221.83	224.9		224.97	0.001682	1.51	59.34	87.23	0.28
Reach 1	882	Hazel	61.04	221.83	225.24		225.3	0.001292	1.42	92.02	101.67	0.25
Reach 1	882	Hazel w CC	73.74	221.83	225.59	224.13	225.63	0.000845	1.23	127.94	105.21	0.21
Reach 1	831	100 Year	45.43	221.79	224.38	223.92	224.77	0.009565	3.09	20.55	17.54	0.62
Reach 1	831	Hazel	61.04	221.79	224.36	224.22	225.07	0.017871	4.19	20.11	14.88	0.85
Reach 1	831	Hazel w CC	73.74	221.79	224.31	224.31	225.4	0.027659	5.16	19.54	13.03	1.05
Reach 1	792	100 Year	45.43	221.53	224.54		224.59	0.000857	1.18	71.31	66.54	0.22
Reach 1	792	Hazel	61.04	221.53	224.7		224.76	0.001109	1.39	81.99	67.91	0.25
Reach 1	792	Hazel w CC	73.74	221.53	224.8		224.87	0.001351	1.56	88.85	71.04	0.28
Reach 1	752	100 Year	45.43	221.4	224.54		224.55	0.00048	0.79	116.71	73.22	0.15
Reach 1	752	Hazel	61.04	221.4	224.7		224.72	0.00066	0.96	128.21	73.95	0.17
Reach 1	752	Hazel w CC	73.74	221.4	224.79		224.82	0.000821	1.09	135.4	74.1	0.19
Reach 1	718	100 Year	45.43	221.4	224.52		224.54	0.000376	0.81	107.57	68.21	0.15
Reach 1	718	Hazel	61.04	221.4	224.67		224.7	0.000528	1	117.89	70.28	0.18
Reach 1	718	Hazel w CC	73.74	221.4	224.76		224.79	0.000664	1.14	124.32	71.03	0.2
Reach 1	698	100 Year	44.61	221.29	224.48		224.53	0.000709	1.3	64.51	37.73	0.23
Reach 1	698	Hazel	61.69	221.29	224.6		224.68	0.001145	1.69	68.98	38.28	0.3
Reach 1	698	Hazel w CC	74.79	221.29	224.66		224.77	0.001544	1.98	71.36	38.55	0.35
Reach 1	681	100 Year	44.61	221.21	224.38	224.22	224.48	0.008658	1.89	43.82	77	0.47
Reach 1	681	Hazel	61.69	221.21	224.32	224.32	224.57	0.021943	2.92	39.12	74.72	0.73
Reach 1	681	Hazel w CC	74.79	221.21	224.54	224.4	224.7	0.012434	2.43	56.93	84.12	0.57
Reach 1	Innisfil Street		Culvert									
Reach 1	656	100 Year	44.61	221.57	224.39		224.45	0.002252	1.53	71.37	125.98	0.36
Reach 1	656	Hazel	61.69	221.57	224.3		224.47	0.006551	2.53	60.23	124.36	0.6
Reach 1	656	Hazel w CC	74.79	221.57	224.61		224.67	0.002644	1.79	99.08	129.8	0.39
Reach 1	610	100 Year	44.61	221.04	224.4		224.4	0.00017	0.35	192.75	131.05	0.06
Reach 1	610	Hazel	61.69	221.04	224.34		224.35	0.000367	0.51	185.09	130.12	0.09
Reach 1	610	Hazel w CC	74.79	221.04	224.61		224.61	0.000322	0.51	220.29	135.58	0.09
Reach 1	601	100 Year	44.48	221.02	224.39		224.4	0.000505	0.73	114.42	128.05	0.13
Reach 1	601	Hazel	61.78	221.02	224.31		224.34	0.001208	1.12	104.89	120.57	0.2

Reach 1	601	Hazel w CC	74.88	221.02	224.59		224.61	0.000796	0.96	140.12	131.85	0.17
Reach 1	559	100 Year	44.48	220.97	223.04	223.04	224.04	0.02033	4.44	10.03	16.9	1
Reach 1	559	Hazel	61.78	220.97	223.83	223.83	224.15	0.007237	2.97	42.18	74.33	0.61
Reach 1	559	Hazel w CC	74.88	220.97	224.5	223.98	224.55	0.001361	1.52	108.33	125.46	0.28
Reach 1	Sanford Street		Culvert									
Reach 1	532	100 Year	44.48	220.01	222.31	222.31	223.31	0.015516	4.51	10.14	12.75	0.99
Reach 1	532	Hazel	61.78	220.01	222.8	222.8	224.04	0.014656	5.04	12.58	14.78	0.99
Reach 1	532	Hazel w CC	74.88	220.01	223.14	223.14	224.56	0.014157	5.37	14.27	18.61	1
Reach 1	500	100 Year	44.48	219.75	222.6		222.74	0.001958	1.98	33.45	32.72	0.38
Reach 1	500	Hazel	61.78	219.75	222.76		222.98	0.002869	2.48	39.17	38.36	0.46
Reach 1	500	Hazel w CC	74.88	219.75	223.05		223.25	0.002535	2.49	53.05	55.88	0.44
Reach 1	474	100 Year	45	219.74	222.65		222.68	0.000561	1.06	69.51	64.59	0.2
Reach 1	474	Hazel	63.02	219.74	222.85		222.89	0.000729	1.27	82.67	70.32	0.23
Reach 1	474	Hazel w CC	76.34	219.74	223.14		223.18	0.000593	1.21	104.03	76.71	0.21
Reach 1	442	100 Year	45	219.32	222.57	221.41	222.65	0.000957	1.47	43.91	72.05	0.27
Reach 1	442	Hazel	63.02	219.32	222.78	221.79	222.86	0.000876	1.47	59.46	75.15	0.26
Reach 1	442	Hazel w CC	76.34	219.32	223.1	222.48	223.15	0.00048	1.15	84.01	78.72	0.19
Reach 1	Bradford Street		Culvert									
Reach 1	338	100 Year	45	219.07	221.11	221.11	222.01	0.018445	4.31	10.8	39.81	0.99
Reach 1	338	Hazel	63.02	219.07	221.57	221.57	222.69	0.017224	4.78	13.53	51.83	0.99
Reach 1	338	Hazel w CC	76.34	219.07	221.85	221.85	223.15	0.017184	5.14	15.2	62.55	1.01
Reach 1	304	100 Year	45	219.08	220.7		220.79	0.005037	1.6	37.78	95.34	0.45
Reach 1	304	Hazel	63.02	219.08	220.89		220.98	0.004044	1.58	52.01	128.57	0.41
Reach 1	304	Hazel w CC	76.34	219.08	221		221.09	0.003871	1.62	60.31	148.8	0.41
Reach 1	267	100 Year	45	219	220.67		220.69	0.00109	1.01	79.38	96.83	0.26
Reach 1	267	Hazel	63.02	219	220.86		220.89	0.001109	1.1	99.9	144.06	0.27
Reach 1	267	Hazel w CC	76.34	219	220.97		221	0.001137	1.16	112.82	185.54	0.27
Reach 1	218	100 Year	45	218.97	220.62		220.64	0.00108	0.93	77.12	87.39	0.24
Reach 1	218	Hazel	63.02	218.97	220.81		220.84	0.001152	1.04	95.32	109.31	0.25
Reach 1	218	Hazel w CC	76.34	218.97	220.91		220.94	0.001208	1.1	108.55	148.75	0.26
Reach 1	197.5	100 Year	45	218.86	220.6		220.62	0.000752	0.74	84.87	101.45	0.2
Reach 1	197.5	Hazel	63.02	218.86	220.79		220.81	0.000926	0.88	98.7	153.88	0.22
Reach 1	197.5	Hazel w CC	76.34	218.86	220.89		220.92	0.001057	0.98	107.59	168.65	0.24
Reach 1	170	100 Year	45.8	218.73	220.32	220.32	220.55	0.010187	2.89	34.61	117.89	0.78
Reach 1	170	Hazel	64.16	218.73	220.47	220.47	220.73	0.011251	3.24	44.52	148.33	0.83
Reach 1	170	Hazel w CC	77.69	218.73	220.59		220.83	0.01035	3.26	53.23	187.47	0.8
Reach 1	147	100 Year	45.8	217.81	219.76	218.82	219.88	0.001935	1.54	30.22	300.26	0.35
Reach 1	147	Hazel	64.16	217.81	220.5	219.06	220.54	0.000681	1.03	150.22	310.02	0.21
Reach 1	147	Hazel w CC	77.69	217.81	220.66	219.22	220.69	0.000552	0.97	199.33	310.66	0.19
Reach 1	Lakeshore Drive		Bridge									
Reach 1	108.1	100 Year	45.8	217.73	219.52		219.65	0.002918	1.57	29.11	24.85	0.38
Reach 1	108.1	Hazel	64.16	217.73	219.76		219.95	0.003682	1.93	33.23	26.43	0.44
Reach 1	108.1	Hazel w CC	77.69	217.73	219.96		220.19	0.003955	2.13	36.48	28.16	0.46
Reach 1	56	100 Year	45.8	217.5	219.29	218.55	219.42	0.007596	1.61	29.36	22.99	0.42
Reach 1	56	Hazel	64.16	217.5	219.45	218.81	219.65	0.010371	2.01	33.17	23.82	0.49
Reach 1	56	Hazel w CC	77.69	217.5	219	219	219.59	0.044234	3.41	23.07	21.33	0.97
Reach 1	Pedestrian Bridg		Bridge									
Reach 1	20	100 Year	45.8	217.33	219.07		219.16	0.005105	1.34	34.65	25.56	0.34
Reach 1	20	Hazel	64.16	217.33	219		219.2	0.011808	1.98	32.81	25.16	0.52
Reach 1	20	Hazel w CC	77.69	217.33	218.91		219.24	0.021484	2.55	30.57	24.1	0.69

Reach 1	14	100 Year	45.8	217.22	219.13		219.13	0.00004	0.17	404.5	422.7	0.04
Reach 1	14	Hazel	64.16	217.22	219.13		219.13	0.000078	0.24	404.37	422.7	0.06
Reach 1	14	Hazel w CC	77.69	217.22	219.13		219.13	0.000114	0.29	404.24	422.7	0.07
Reach 1	8	100 Year	45.8	216.8	219.13	216.91	219.13	0.000002	0.05	931.95	400	0.01
Reach 1	8	Hazel	64.16	216.8	219.13	216.94	219.13	0.000003	0.07	931.95	400	0.01
Reach 1	8	Hazel w CC	77.69	216.8	219.13	216.96	219.13	0.000004	0.08	931.95	400	0.02

Dyments Creek - Calibration -25% Mannings

Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
			(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
Reach 1	4973	100 Year	14.52	263.21	265.13	264.05	265.15	0.000461	0.71	24.3	20.42	0.17
Reach 1	4973	Hazel	18.09	263.21	265.41	264.13	265.43	0.000397	0.73	30.4	22.82	0.17
Reach 1	4973	Hazel w CC	22.11	263.21	265.59	264.22	265.61	0.000422	0.8	35.26	33.43	0.17
Reach 1		Barrie Landfill	Culvert									
Reach 1	4910	100 Year	14.52	262.6	263.86	263.86	264.23	0.008167	2.71	5.42	7.91	0.99
Reach 1	4910	Hazel	18.09	262.6	263.99	263.99	264.4	0.007333	2.86	6.51	8.6	0.96
Reach 1	4910	Hazel w CC	22.11	262.6	264.12	264.12	264.57	0.006786	3.01	7.69	9.28	0.95
Reach 1	4845	100 Year	14.52	260.45	262.1	262.1	262.51	0.004842	3.34	5.68	6.73	0.87
Reach 1	4845	Hazel	18.09	260.45	262.24	262.24	262.69	0.00487	3.56	6.69	7.41	0.88
Reach 1	4845	Hazel w CC	22.11	260.45	262.39	262.39	262.88	0.0049	3.78	7.83	8.58	0.9
Reach 1	4776	100 Year	14.52	259.33	260.48	260.48	260.8	0.006858	3.06	5.96	8.93	0.96
Reach 1	4776	Hazel	18.09	259.33	260.59	260.59	260.95	0.006791	3.26	6.96	9.48	0.97
Reach 1	4776	Hazel w CC	22.11	259.33	260.71	260.71	261.11	0.006542	3.42	8.13	10.11	0.97
Reach 1	4743	100 Year	14.52	257.92	259.56	259.56	260.03	0.005425	3.46	5.34	5.89	0.91
Reach 1	4743	Hazel	18.09	257.92	259.73	259.73	260.24	0.005266	3.67	6.4	6.54	0.91
Reach 1	4743	Hazel w CC	22.11	257.92	259.89	259.89	260.45	0.005315	3.92	7.47	7.15	0.93
Reach 1	4722	100 Year	14.52	256.73	258.11	258.11	258.44	0.005682	2.89	6.44	11.52	0.81
Reach 1	4722	Hazel	18.09	256.73	258.23	258.23	258.58	0.005721	3.08	7.91	12.33	0.83
Reach 1	4722	Hazel w CC	22.11	256.73	258.35	258.35	258.73	0.00585	3.28	9.38	13.03	0.85
Reach 1	4689	100 Year	14.52	256.02	257.32	257.32	257.59	0.00397	2.51	8.06	20.3	0.74
Reach 1	4689	Hazel	18.09	256.02	257.43	257.43	257.7	0.003862	2.64	10.73	26.64	0.74
Reach 1	4689	Hazel w CC	22.11	256.02	257.49	257.49	257.82	0.004527	2.94	12.37	29.1	0.81
Reach 1	4651	100 Year	14.52	255.1	256.65	256.65	256.83	0.003659	2.7	11.72	28.72	0.73
Reach 1	4651	Hazel	18.09	255.1	256.71	256.71	256.92	0.004188	2.97	13.48	29.48	0.78
Reach 1	4651	Hazel w CC	22.11	255.1	256.77	256.77	257.01	0.004587	3.2	15.46	30.56	0.82
Reach 1	4608	100 Year	14.52	254.46	255.67	255.67	255.95	0.005499	2.95	8.96	17.38	0.9
Reach 1	4608	Hazel	18.09	254.46	255.77	255.77	256.07	0.005524	3.13	10.86	19.98	0.91
Reach 1	4608	Hazel w CC	22.11	254.46	255.79	255.79	256.22	0.007683	3.73	11.21	21.57	1.08
Reach 1	4577	100 Year	14.52	253.51	254.49	254.49	254.73	0.005447	2.45	7.64	16.74	0.86
Reach 1	4577	Hazel	18.09	253.51	254.58	254.58	254.84	0.005548	2.63	9.08	18.8	0.88
Reach 1	4577	Hazel w CC	22.11	253.51	254.67	254.67	254.95	0.005331	2.76	10.95	21.28	0.88
Reach 1	4531	100 Year	15.92	252.73	253.57	253.57	253.82	0.007061	2.6	7.37	15.11	0.97
Reach 1	4531	Hazel	22.63	252.73	253.71	253.71	254.02	0.006746	2.86	9.52	28.84	0.97
Reach 1	4531	Hazel w CC	27.68	252.73	253.82	253.82	254.14	0.006151	2.96	11.52	45.29	0.95
Reach 1	4507	100 Year	15.92	251.6	252.54	252.54	252.82	0.006981	2.89	7.06	12.1	0.98
Reach 1	4507	Hazel	22.63	251.6	252.69	252.69	253.04	0.00681	3.17	8.96	21.38	1
Reach 1	4507	Hazel w CC	27.68	251.6	252.8	252.8	253.19	0.006539	3.33	10.38	28.27	1
Reach 1	4475	100 Year	15.92	250.21	251.32	251.32	251.62	0.005152	2.81	7.21	19.33	0.87
Reach 1	4475	Hazel	22.63	250.21	251.52	251.52	251.86	0.004873	3.06	9.57	22.39	0.87
Reach 1	4475	Hazel w CC	27.68	250.21	251.64	251.64	252.01	0.004622	3.18	11.4	29.97	0.86
Reach 1	4445	100 Year	15.92	249.46	250.82	250.82	251.08	0.004648	2.85	9.69	17.31	0.82
Reach 1	4445	Hazel	22.63	249.46	250.96	250.96	251.28	0.005193	3.25	12.26	18.19	0.89
Reach 1	4445	Hazel w CC	27.68	249.46	251.06	251.06	251.41	0.005352	3.46	14.15	18.75	0.91
Reach 1	4411	100 Year	15.92	248.96	250.14	250.14	250.37	0.010687	2.92	9.68	18.18	0.94
Reach 1	4411	Hazel	22.63	248.96	250.26	250.26	250.55	0.011507	3.29	12.09	19.08	0.99
Reach 1	4411	Hazel w CC	27.68	248.96	250.35	250.35	250.67	0.011839	3.51	13.78	19.73	1.02
Reach 1	4386	100 Year	15.92	248.6	249.84	249.84	250.05	0.0048	2.92	12.71	32.11	0.86
Reach 1	4386	Hazel	22.63	248.6	249.98	249.98	250.2	0.004894	3.18	17.45	35.16	0.88

Reach 1	4386	Hazel w CC	27.68	248.6	250.05	250.05	250.3	0.005264	3.41	20.01	35.89	0.92
Reach 1	4368	100 Year	15.92	247.64	248.69	248.69	248.98	0.008633	2.88	9.17	16.39	0.93
Reach 1	4368	Hazel	22.63	247.64	248.85	248.85	249.21	0.009219	3.28	12.01	20.37	0.99
Reach 1	4368	Hazel w CC	27.68	247.64	248.94	248.94	249.36	0.010058	3.61	14.11	26.65	1.05
Reach 1	4341	100 Year	15.92	247	248.19	248.19	248.36	0.00417	2.12	13.14	46.26	0.65
Reach 1	4341	Hazel	22.63	247	248.33	248.33	248.48	0.003773	2.19	21.3	69.78	0.63
Reach 1	4341	Hazel w CC	27.68	247	248.39	248.39	248.55	0.004016	2.33	25.29	72.01	0.66
Reach 1	4313	100 Year	15.92	246.23	247.55	247.55	247.68	0.005879	2.3	14.28	53.89	0.69
Reach 1	4313	Hazel	22.63	246.23	247.63	247.63	247.77	0.006669	2.56	18.7	55.44	0.74
Reach 1	4313	Hazel w CC	27.68	246.23	247.68	247.68	247.83	0.007102	2.72	21.63	62.36	0.77
Reach 1	4287	100 Year	16.39	245.79	247.1	246.99	247.24	0.004255	2.34	11.55	19.86	0.68
Reach 1	4287	Hazel	25.46	245.79	247.34	247.16	247.5	0.003852	2.51	16.65	21.98	0.66
Reach 1	4287	Hazel w CC	31.13	245.79	247.46	247.24	247.64	0.003924	2.67	19.32	23.96	0.68
Reach 1	4260	100 Year	16.39	245.37	246.58	246.58	247	0.00851	3.49	6.32	15.3	1.08
Reach 1	4260	Hazel	25.46	245.37	247.37	247.17	247.41	0.000624	1.37	39.81	96.62	0.32
Reach 1	4260	Hazel w CC	31.13	245.37	247.51	247.21	247.53	0.000445	1.21	53.41	100.94	0.27
Reach 1	Edgehill Drive		Culvert									
Reach 1	4227	100 Year	16.39	244.98	246.2	246.2	246.59	0.006566	2.99	6.19	33.54	0.96
Reach 1	4227	Hazel	25.46	244.98	246.47	246.47	246.99	0.006365	3.45	8.21	40.15	0.98
Reach 1	4227	Hazel w CC	31.13	244.98	246.61	246.61	247.22	0.006327	3.7	9.3	55.29	0.99
Reach 1	4204	100 Year	16.39	244.62	245.58	245.58	245.75	0.015018	2.55	12.23	36.37	1.01
Reach 1	4204	Hazel	25.46	244.62	245.74	245.74	245.89	0.011023	2.54	19.8	67.67	0.9
Reach 1	4204	Hazel w CC	31.13	244.62	245.8	245.8	245.95	0.010751	2.62	23.98	73.42	0.9
Reach 1	4174.9	100 Year	16.39	244.26	245.15	245.15	245.31	0.00796	2.5	15.27	50.87	0.98
Reach 1	4174.9	Hazel	25.46	244.26	245.28	245.28	245.44	0.007374	2.7	22.63	65.36	0.96
Reach 1	4174.9	Hazel w CC	31.13	244.26	245.35	245.35	245.5	0.00694	2.76	27.56	76.13	0.95
Reach 1	4145	100 Year	16.39	243.97	244.25	244.2	244.32	0.016657	1.46	14.42	58.39	1.09
Reach 1	4145	Hazel	25.46	243.97	244.33	244.27	244.42	0.016622	1.78	19.14	67.59	1.11
Reach 1	4145	Hazel w CC	31.13	243.97	244.37	244.32	244.48	0.01664	1.95	22.15	72.31	1.13
Reach 1	4116	100 Year	16.39	243.73	243.9	243.82	243.95	0.009924	0.35	18.38	78.19	0.35
Reach 1	4116	Hazel	25.46	243.73	243.98	243.89	244.04	0.010124	0.52	24.81	81.91	0.39
Reach 1	4116	Hazel w CC	31.13	243.73	244.03	243.92	244.09	0.010262	0.61	28.35	84.8	0.41
Reach 1	4077.6	100 Year	16.39	243.06	243.39	243.34	243.44	0.019581	0.97	17.86	91.56	0.85
Reach 1	4077.6	Hazel	25.46	243.06	243.46	243.4	243.52	0.020136	1.33	24.01	98.01	0.95
Reach 1	4077.6	Hazel w CC	31.13	243.06	243.49	243.43	243.56	0.020442	1.49	27.2	101.86	0.99
Reach 1	4038.9	100 Year	16.39	242.15	242.25	242.25	242.35	0.043178	1.21	12.21	67.33	1.56
Reach 1	4038.9	Hazel	25.46	242.15	242.33	242.33	242.43	0.041156	1.72	17.85	85.25	1.67
Reach 1	4038.9	Hazel w CC	31.13	242.15	242.36	242.36	242.48	0.03979	1.89	20.78	89.36	1.68
Reach 1	4010.8	100 Year	16.39	241.53	241.53	241.4	241.56	0.011751		20.79	75.23	0
Reach 1	4010.8	Hazel	25.46	241.53	241.62	241.47	241.66	0.011116	0.58	28.37	90.43	0.78
Reach 1	4010.8	Hazel w CC	31.13	241.53	241.66	241.51	241.7	0.012215	0.79	31.93	101.52	0.9
Reach 1	3974	100 Year	16.39	240.69	240.77	240.75	240.86	0.036486	0.54	12.47	58.53	0.86
Reach 1	3974	Hazel	25.46	240.69	240.83	240.83	240.95	0.040267	0.91	16.56	69.82	1.05
Reach 1	3974	Hazel w CC	31.13	240.69	240.89	240.88	241	0.03383	1.03	20.65	84.27	1.03
Reach 1	3934.7	100 Year	16.39	239.92	240.05	239.92	240.08	0.011564	0.68	20.55	88.87	0.82
Reach 1	3934.7	Hazel	25.46	239.92	240.16	240	240.19	0.00903	0.9	32.24	123.2	0.8
Reach 1	3934.7	Hazel w CC	31.13	239.92	240.17	240.05	240.21	0.012417	1.06	33.29	125.98	0.94
Reach 1	3877.1	100 Year	16.39	239.11	239.49	239.36	239.51	0.008519	0.57	24.67	96.67	0.38
Reach 1	3877.1	Hazel	25.46	239.11	239.53	239.42	239.57	0.013524	0.79	28.33	100.13	0.49
Reach 1	3877.1	Hazel w CC	31.13	239.11	239.63	239.45	239.66	0.007567	0.74	38.83	101.98	0.39
Reach 1	3837	100 Year	14.79	238.53	238.89	238.89	238.99	0.022284	2.41	12.62	57.45	1.44

Reach 1	3837	Hazel	25.63	238.53	239.43	238.98	239.45	0.001173	1.09	44.52	60.89	0.38
Reach 1	3837	Hazel w CC	31.38	238.53	239.55	239.02	239.57	0.001077	1.14	51.83	63.01	0.38
Reach 1	3805	100 Year	14.79	237.93	238.81	238.36	238.82	0.0007	0.65	34.77	59.5	0.24
Reach 1	3805	Hazel	25.63	237.93	239.42	238.47	239.43	0.000201	0.52	73.28	63.78	0.14
Reach 1	3805	Hazel w CC	31.38	237.93	239.54	238.52	239.55	0.000221	0.58	80.82	64.27	0.15
Reach 1	3769.6	100 Year	14.79	237.52	238.72	238.18	238.78	0.000852	1.12	14.52	36.07	0.35
Reach 1	3769.6	Hazel	25.63	237.52	239.33	238.39	239.4	0.00063	1.31	23.67	61.64	0.33
Reach 1	3769.6	Hazel w CC	31.38	237.52	239.41	238.49	239.51	0.001083	1.77	26.99	63.53	0.43
Reach 1	Sproule Drive		Culvert									
Reach 1	3739	100 Year	14.79	237.28	237.96	237.96	238.21	0.009401	2.45	6.76	41.33	1.06
Reach 1	3739	Hazel	25.63	237.28	238.18	238.18	238.55	0.008396	2.92	9.71	43.96	1.06
Reach 1	3739	Hazel w CC	31.38	237.28	238.29	238.29	238.71	0.008012	3.11	11.11	44.33	1.06
Reach 1	3689	100 Year	14.79	236.79	237.08	237.08	237.16	0.01208	1.24	14.86	103.26	0.98
Reach 1	3689	Hazel	25.63	236.79	237.16	237.16	237.25	0.011471	1.57	23.77	120.57	1.02
Reach 1	3689	Hazel w CC	31.38	236.79	237.19	237.19	237.29	0.011758	1.71	27.31	125.36	1.06
Reach 1	3600.2	100 Year	14.79	235.21	235.83	235.54	235.83	0.000549	0.4	75.7	302.36	0.19
Reach 1	3600.2	Hazel	25.63	235.21	235.98	235.61	235.98	0.000447	0.43	126.56	376.18	0.18
Reach 1	3600.2	Hazel w CC	31.38	235.21	236.03	235.64	236.03	0.000448	0.46	145.36	384.16	0.18
Reach 1	3535	100 Year	13.06	234.78	235.83	235.09	235.83	0.000016	0.14	237.78	396.46	0.05
Reach 1	3535	Hazel	26.17	234.78	235.98	235.18	235.98	0.000031	0.21	299.29	453.08	0.07
Reach 1	3535	Hazel w CC	32.07	234.78	236.02	235.21	236.03	0.000037	0.24	321.87	472.51	0.07
Reach 1	3513	100 Year	13.06	234.66	235.83	234.91	235.83	0.000003	0.05	404.42	564.47	0.02
Reach 1	3513	Hazel	26.17	234.66	235.98	234.97	235.98	0.000005	0.08	486.6	566.9	0.02
Reach 1	3513	Hazel w CC	32.07	234.66	236.02	235	236.03	0.000007	0.09	514.31	569.32	0.03
Reach 1	3480	100 Year	13.06	234.73	235.83	234.94	235.83	0.000003	0.06	382.38	575.82	0.02
Reach 1	3480	Hazel	26.17	234.73	235.98	235	235.98	0.000005	0.09	467.47	594.26	0.03
Reach 1	3480	Hazel w CC	32.07	234.73	236.02	235.02	236.02	0.000006	0.11	496.45	594.54	0.03
Reach 1	3453.03	100 Year	14.84	234.69	235.83	235.02	235.83	0.000005	0.08	257.2	372.84	0.03
Reach 1	3453.03	Hazel	29.36	234.69	235.98	235.09	235.98	0.00001	0.13	312.08	381.65	0.04
Reach 1	3453.03	Hazel w CC	35.93	234.69	236.02	235.11	236.02	0.000013	0.15	330.6	381.91	0.04
Reach 1	3334	100 Year	14.84	234.42	235.82	235.61	235.83	0.000325	0.54	36.4	176.15	0.19
Reach 1	3334	Hazel	29.36	234.42	235.96	235.74	235.97	0.000249	0.51	62	185.85	0.16
Reach 1	3334	Hazel w CC	35.93	234.42	236	235.78	236.02	0.000246	0.52	71.4	226.8	0.16
Reach 1	3325		Culvert									
Reach 1	3312	100 Year	14.84	234.64	235.81		235.82	0.000308	0.53	34.93	153.68	0.18
Reach 1	3312	Hazel	29.36	234.64	235.94		235.96	0.000282	0.56	56.4	167.91	0.18
Reach 1	3312	Hazel w CC	35.93	234.64	235.99		236.01	0.000271	0.57	64.92	169.99	0.18
Reach 1	3235	100 Year	14.84	234.28	235.78	235.23	235.79	0.000271	0.52	33.29	118.5	0.17
Reach 1	3235	Hazel	29.36	234.28	235.91	235.68	235.93	0.000315	0.6	49.07	122.55	0.18
Reach 1	3235	Hazel w CC	35.93	234.28	235.96	235.71	235.98	0.000317	0.62	55.02	122.76	0.19
Reach 1	3225		Culvert									
Reach 1	3214	100 Year	14.84	234.25	235.24	235.24	235.52	0.009028	2.39	6.56	12.16	0.94
Reach 1	3214	Hazel	29.36	234.25	235.72	235.72	235.83	0.002144	1.7	21.55	76.45	0.53
Reach 1	3214	Hazel w CC	35.93	234.25	235.76	235.76	235.88	0.002239	1.78	24.63	87.79	0.55
Reach 1	3155.2	100 Year	14.84	234.1	234.73	234.65	234.75	0.001493	0.77	20.97	118.91	0.36
Reach 1	3155.2	Hazel	29.36	234.1	234.91	234.74	234.93	0.000635	0.57	46.51	168.89	0.24
Reach 1	3155.2	Hazel w CC	35.93	234.1	234.98	234.77	235	0.000491	0.52	58.31	202.09	0.21
Reach 1	Dunlop Street W		Culvert									
Reach 1	3068	100 Year	14.84	233.75	234.71	234.58	234.72	0.000582	0.62	31.58	131.01	0.24
Reach 1	3068	Hazel	29.36	233.75	234.9	234.65	234.91	0.00036	0.56	58.43	143.72	0.2

Reach 1	1765	100 Year	43.37	226.67	228.91	228.34	228.93	0.000192	0.72	61.62	72.86	0.17
Reach 1	1765	Hazel	56.57	226.67	229.07	228.42	229.1	0.000192	0.76	73.85	79.78	0.17
Reach 1	1765	Hazel w CC	68.3	226.67	229.17	228.48	229.21	0.000205	0.81	82.29	84.93	0.18
Reach 1	1735	100 Year	43.37	226.65	228.88	228.24	228.92	0.000524	1.24	60.64	93.25	0.28
Reach 1	1735	Hazel	56.57	226.65	229.05	228.36	229.09	0.00046	1.23	80.9	123.33	0.27
Reach 1	1735	Hazel w CC	68.3	226.65	229.16	228.46	229.2	0.000427	1.22	94.49	124.53	0.26
Reach 1	1706	100 Year	43.37	226.38	228.88	228.03	228.91	0.000246	0.91	70.08	76.3	0.2
Reach 1	1706	Hazel	56.57	226.38	229.05	228.17	229.08	0.000263	0.99	82.61	76.73	0.2
Reach 1	1706	Hazel w CC	68.3	226.38	229.15	228.25	229.19	0.000289	1.07	90.87	80.39	0.22
Reach 1	1678	100 Year	44.1	226.25	228.87	227.81	228.9	0.000131	0.65	62.27	75.64	0.14
Reach 1	1678	Hazel	58.7	226.25	229.04	227.94	229.07	0.00015	0.73	74.65	77.01	0.15
Reach 1	1678	Hazel w CC	70.86	226.25	229.14	228.04	229.18	0.000168	0.8	82.79	80.24	0.16
Reach 1	1646	100 Year	44.1	225.61	228.87	228.43	228.89	0.000293	0.99	85.63	119.44	0.22
Reach 1	1646	Hazel	58.7	225.61	229.03	228.52	229.06	0.000294	1.04	106.31	132.39	0.23
Reach 1	1646	Hazel w CC	70.86	225.61	229.14	228.57	229.17	0.000305	1.1	120.54	141.65	0.23
Reach 1	George Street		Culvert									
Reach 1	1621	100 Year	44.1	225.63	228.61	228.61	228.88	0.003895	2.84	28.46	46.31	0.68
Reach 1	1621	Hazel	58.7	225.63	228.78	228.78	229.05	0.003849	2.99	36.82	56.65	0.68
Reach 1	1621	Hazel w CC	70.86	225.63	228.9	228.9	229.15	0.003606	3.02	44.46	67.19	0.67
Reach 1	1588	100 Year	44.1	225.61	227.95	226.53	227.98	0.000339	1	62.23	38.85	0.21
Reach 1	1588	Hazel	58.7	225.61	228.07	226.68	228.12	0.000493	1.25	66.96	39.98	0.26
Reach 1	1588	Hazel w CC	70.86	225.61	228.16	226.79	228.23	0.000622	1.44	70.76	41.73	0.29
Reach 1	1554	100 Year	44.1	225.48	227.88	226.73	227.96	0.000845	1.49	39.89	30.03	0.32
Reach 1	1554	Hazel	58.7	225.48	227.97	226.93	228.09	0.001299	1.89	42.81	40.73	0.39
Reach 1	1554	Hazel w CC	70.86	225.48	228.03	227.08	228.18	0.001703	2.21	45.42	43.82	0.45
Reach 1	1528	100 Year	44.1	225.41	227.9	226.44	227.93	0.000269	1.12	70.25	47.11	0.23
Reach 1	1528	Hazel	58.7	225.41	228	226.6	228.05	0.000406	1.41	74.75	47.88	0.28
Reach 1	1528	Hazel w CC	70.86	225.41	228.07	226.73	228.13	0.000528	1.64	78.16	48.65	0.33
Reach 1	1468	100 Year	44.1	225.49	227.92	225.94	227.92	0.000019	0.3	190.74	108.44	0.06
Reach 1	1468	Hazel	58.7	225.49	228.02	226.03	228.03	0.000029	0.38	202.05	109.33	0.08
Reach 1	1468	Hazel w CC	70.86	225.49	228.1	226.1	228.11	0.000038	0.44	210.73	110.01	0.09
Reach 1	1431	100 Year	44.28	225.49	227.92	225.93	227.92	0.000019	0.3	180.61	93.75	0.06
Reach 1	1431	Hazel	58.89	225.49	228.02	226.02	228.03	0.000029	0.38	190.32	94.53	0.08
Reach 1	1431	Hazel w CC	71.13	225.49	228.1	226.08	228.11	0.000038	0.44	197.77	101.81	0.09
Reach 1	1404	100 Year	44.28	225.46	227.89	226.43	227.91	0.000163	0.83	80.98	93.51	0.18
Reach 1	1404	Hazel	58.89	225.46	227.98	226.6	228.02	0.000232	1.02	89.12	103.25	0.21
Reach 1	1404	Hazel w CC	71.13	225.46	228.05	226.73	228.1	0.00029	1.16	95.34	113.95	0.24
Reach 1	Victoria Street		Culvert									
Reach 1	1374	100 Year	44.28	224.61	226.05		226.22	0.001786	1.92	24.3	41.24	0.53
Reach 1	1374	Hazel	58.89	224.61	226.38		226.56	0.001447	2	30.72	44.17	0.5
Reach 1	1374	Hazel w CC	71.13	224.61	226.89		227.04	0.000812	1.79	40.92	54.91	0.39
Reach 1	1326	100 Year	44.28	224.01	226.08		226.11	0.000619	1.22	68.62	48.73	0.28
Reach 1	1326	Hazel	58.89	224.01	226.41		226.45	0.000581	1.31	85.55	53.02	0.28
Reach 1	1326	Hazel w CC	71.13	224.01	226.92		226.95	0.000389	1.23	115.74	64.5	0.23
Reach 1	1289	100 Year	44.28	223.73	226.08		226.09	0.000183	0.78	96.37	54.68	0.17
Reach 1	1289	Hazel	58.89	223.73	226.41		226.43	0.000195	0.89	115.44	59.74	0.18
Reach 1	1289	Hazel w CC	71.13	223.73	226.92		226.94	0.00014	0.85	147.17	64.06	0.16
Reach 1	1242	100 Year	44.28	223.58	226.08		226.08	0.000101	0.55	126.58	72.32	0.11
Reach 1	1242	Hazel	58.89	223.58	226.41		226.42	0.000107	0.62	151.33	76.07	0.12
Reach 1	1242	Hazel w CC	71.13	223.58	226.92		226.93	0.000079	0.59	192.52	111.38	0.11
Reach 1	1218	100 Year	44.28	223.18	226.08		226.08	0.000042	0.4	149.85	70.89	0.08

Reach 1	1218	Hazel	58.89	223.18	226.41		226.42	0.000048	0.46	174.03	73.73	0.08
Reach 1	1218	Hazel w CC	71.13	223.18	226.92		226.93	0.000039	0.46	213.55	82.26	0.08
Reach 1	1192	100 Year	44.28	223.06	226.08		226.08	0.00003	0.42	181.44	94.86	0.08
Reach 1	1192	Hazel	58.89	223.06	226.41		226.42	0.000033	0.48	213.62	97.51	0.08
Reach 1	1192	Hazel w CC	71.13	223.06	226.93		226.93	0.000026	0.47	264.64	100.87	0.08
Reach 1	1168	100 Year	44.28	222.78	226.08		226.08	0.000018	0.33	199.71	98.96	0.06
Reach 1	1168	Hazel	58.89	222.78	226.41		226.42	0.000019	0.37	233.01	99.97	0.07
Reach 1	1168	Hazel w CC	71.13	222.78	226.93		226.93	0.000015	0.36	284.89	101.93	0.06
Reach 1	1153	100 Year	45.43	222.73	226.08		226.08	0.000016	0.3	206.37	107.43	0.05
Reach 1	1153	Hazel	61.04	222.73	226.41		226.42	0.000017	0.33	242.58	108.95	0.06
Reach 1	1153	Hazel w CC	73.74	222.73	226.93		226.93	0.000012	0.31	299.2	111.28	0.05
Reach 1	1113	100 Year	45.43	222.63	225.84	224.62	226.02	0.000954	2.17	42.77	114.15	0.44
Reach 1	1113	Hazel	61.04	222.63	225.23	225.01	226.14	0.003789	4.34	14.6	70.16	0.87
Reach 1	1113	Hazel w CC	73.74	222.63	225.31	225.31	226.55	0.004991	5.07	15.06	73.19	1
Reach 1	Anne Street		Culvert									
Reach 1	957	100 Year	45.43	222.09	224.58		225.07	0.002053	3.11	14.62	55.08	0.64
Reach 1	957	Hazel	61.04	222.09	224.85		225.57	0.002591	3.75	16.27	60.74	0.73
Reach 1	957	Hazel w CC	73.74	222.09	225.13		225.99	0.002723	4.11	17.96	61.7	0.76
Reach 1	929	100 Year	45.43	222.1	224.75		224.84	0.000517	1.62	46.98	58.23	0.32
Reach 1	929	Hazel	61.04	222.1	225.14		225.23	0.000441	1.65	71.35	73.03	0.3
Reach 1	929	Hazel w CC	73.74	222.1	225.51		225.58	0.000336	1.55	98.64	110.72	0.27
Reach 1	882	100 Year	45.43	221.83	224.67		224.81	0.001056	1.89	40.34	74.83	0.37
Reach 1	882	Hazel	61.04	221.83	225.13		225.2	0.000625	1.61	80.21	99.19	0.29
Reach 1	882	Hazel w CC	73.74	221.83	225.51	224.13	225.55	0.000363	1.32	119.52	104.5	0.22
Reach 1	831	100 Year	45.43	221.79	224.21	223.92	224.68	0.004469	3.36	18.31	12.07	0.7
Reach 1	831	Hazel	61.04	221.79	224.22	224.22	225.05	0.008005	4.5	18.36	12.1	0.94
Reach 1	831	Hazel w CC	73.74	221.79	224.31	224.31	225.4	0.009963	5.16	19.55	13.04	1.05
Reach 1	792	100 Year	45.43	221.53	224.47		224.52	0.000366	1.26	66.21	65.79	0.24
Reach 1	792	Hazel	61.04	221.53	224.62		224.69	0.000472	1.48	76.52	67.2	0.27
Reach 1	792	Hazel w CC	73.74	221.53	224.69		224.78	0.000593	1.69	81.44	67.85	0.31
Reach 1	752	100 Year	45.43	221.4	224.48		224.5	0.000192	0.82	112.52	72.1	0.15
Reach 1	752	Hazel	61.04	221.4	224.64		224.66	0.000261	0.99	124.1	73.87	0.18
Reach 1	752	Hazel w CC	73.74	221.4	224.72		224.75	0.000335	1.14	129.79	73.98	0.21
Reach 1	718	100 Year	45.43	221.4	224.47		224.49	0.000148	0.84	104.25	67.4	0.16
Reach 1	718	Hazel	61.04	221.4	224.63		224.65	0.000205	1.02	114.87	69.88	0.18
Reach 1	718	Hazel w CC	73.74	221.4	224.7		224.74	0.000264	1.18	120.02	70.55	0.21
Reach 1	698	100 Year	44.61	221.29	224.43		224.48	0.000273	1.33	62.85	37.49	0.24
Reach 1	698	Hazel	61.69	221.29	224.56		224.64	0.000434	1.72	67.62	38.12	0.31
Reach 1	698	Hazel w CC	74.79	221.29	224.61		224.72	0.000599	2.04	69.33	38.32	0.36
Reach 1	681	100 Year	44.61	221.21	224.3	224.22	224.44	0.004539	2.19	37.67	74.14	0.55
Reach 1	681	Hazel	61.69	221.21	224.32	224.32	224.57	0.007903	2.92	39.12	74.72	0.73
Reach 1	681	Hazel w CC	74.79	221.21	224.44	224.4	224.66	0.006863	2.88	48.18	78.76	0.7
Reach 1	Innisfil Street		Culvert									
Reach 1	656	100 Year	44.61	221.57	224.33		224.41	0.001079	1.73	63.69	124.95	0.41
Reach 1	656	Hazel	61.69	221.57	224.27	224.27	224.47	0.002759	2.7	55.69	121.61	0.65
Reach 1	656	Hazel w CC	74.79	221.57	224.55		224.63	0.001175	1.95	91.74	128.61	0.43
Reach 1	610	100 Year	44.61	221.04	224.36		224.36	0.000066	0.36	187.51	130.41	0.06
Reach 1	610	Hazel	61.69	221.04	224.28		224.28	0.000152	0.54	176.62	129.19	0.1
Reach 1	610	Hazel w CC	74.79	221.04	224.58		224.58	0.000123	0.52	216.21	135.13	0.09
Reach 1	601	100 Year	44.48	221.02	224.35		224.36	0.000205	0.77	109.34	125.3	0.14
Reach 1	601	Hazel	61.78	221.02	224.24		224.28	0.000525	1.21	97	113.28	0.22

Reach 1	601	Hazel w CC	74.88	221.02	224.56		224.58	0.000312	0.99	136.35	131.5	0.17
Reach 1	559	100 Year	44.48	220.97	223.04	223.04	224.04	0.007327	4.44	10.03	16.9	1
Reach 1	559	Hazel	61.78	220.97	223.83	223.83	224.15	0.002607	2.97	42.18	74.33	0.61
Reach 1	559	Hazel w CC	74.88	220.97	224.5	223.98	224.55	0.00049	1.52	108.33	125.46	0.28
Reach 1	Sanford Street		Culvert									
Reach 1	532	100 Year	44.48	220.01	222.31	222.31	223.31	0.005596	4.52	10.14	12.75	0.99
Reach 1	532	Hazel	61.78	220.01	222.8	222.8	224.04	0.005284	5.04	12.58	14.78	0.99
Reach 1	532	Hazel w CC	74.88	220.01	223.14	223.14	224.56	0.005104	5.37	14.27	18.61	1
Reach 1	500	100 Year	44.48	219.75	222.56		222.72	0.000751	2.02	32.28	31.93	0.39
Reach 1	500	Hazel	61.78	219.75	222.71		222.95	0.001128	2.56	37.28	36.97	0.48
Reach 1	500	Hazel w CC	74.88	219.75	223.01		223.23	0.000981	2.56	50.82	54.91	0.46
Reach 1	474	100 Year	45	219.74	222.64		222.67	0.000209	1.08	68.5	64.23	0.21
Reach 1	474	Hazel	63.02	219.74	222.83		222.88	0.000273	1.29	81.4	68.46	0.24
Reach 1	474	Hazel w CC	76.34	219.74	223.13		223.16	0.00022	1.23	103.01	76.36	0.22
Reach 1	442	100 Year	45	219.32	222.57	221.41	222.65	0.000345	1.47	43.91	72.04	0.27
Reach 1	442	Hazel	63.02	219.32	222.78	221.79	222.86	0.000316	1.47	59.46	75.15	0.26
Reach 1	442	Hazel w CC	76.34	219.32	223.1	222.48	223.15	0.000174	1.16	83.9	78.71	0.19
Reach 1	Bradford Street		Culvert									
Reach 1	338	100 Year	45	219.07	221.11	221.11	222.01	0.00665	4.31	10.8	39.81	0.99
Reach 1	338	Hazel	63.02	219.07	221.57	221.57	222.69	0.00621	4.78	13.53	51.83	0.99
Reach 1	338	Hazel w CC	76.34	219.07	221.85	221.85	223.15	0.006194	5.14	15.2	62.55	1.01
Reach 1	304	100 Year	45	219.08	220.52	220.51	220.72	0.004742	2.34	25.52	58.68	0.71
Reach 1	304	Hazel	63.02	219.08	220.74		220.89	0.002977	2.09	40.33	104.2	0.58
Reach 1	304	Hazel w CC	76.34	219.08	220.85		220.99	0.002601	2.06	48.58	120.97	0.55
Reach 1	267	100 Year	45	219	220.59		220.62	0.000523	1.13	71.81	93.63	0.3
Reach 1	267	Hazel	63.02	219	220.78		220.81	0.000538	1.24	90.3	119.12	0.31
Reach 1	267	Hazel w CC	76.34	219	220.88		220.92	0.000545	1.3	102.5	152.57	0.31
Reach 1	218	100 Year	45	218.97	220.57		220.6	0.000375	0.89	73.32	83.65	0.24
Reach 1	218	Hazel	63.02	218.97	220.75		220.79	0.000492	1.1	89.73	97.59	0.27
Reach 1	218	Hazel w CC	76.34	218.97	220.86		220.9	0.000515	1.18	101.39	122.29	0.28
Reach 1	197.5	100 Year	45	218.86	220.57		220.59	0.000295	0.76	82.62	91.15	0.2
Reach 1	197.5	Hazel	63.02	218.86	220.75		220.77	0.000368	0.91	95.51	145.18	0.23
Reach 1	197.5	Hazel w CC	76.34	218.86	220.86		220.89	0.000416	1.01	104.4	164.4	0.25
Reach 1	170	100 Year	45.8	218.73	220.32	220.32	220.55	0.003671	2.88	34.61	117.9	0.78
Reach 1	170	Hazel	64.16	218.73	220.47	220.47	220.73	0.004057	3.24	44.51	148.31	0.83
Reach 1	170	Hazel w CC	77.69	218.73	220.52	220.52	220.83	0.004788	3.6	48.39	165.79	0.91
Reach 1	147	100 Year	45.8	217.81	219.32	218.82	219.52	0.001665	2.01	23.23	284.91	0.52
Reach 1	147	Hazel	64.16	217.81	219.57	219.06	219.86	0.001946	2.4	27.18	297.63	0.58
Reach 1	147	Hazel w CC	77.69	217.81	220.04	219.22	220.3	0.001277	2.28	34.64	302.43	0.49
Reach 1	Lakeshore Drive		Bridge									
Reach 1	108.1	100 Year	45.8	217.73	219.26		219.43	0.00184	1.86	24.61	22.81	0.49
Reach 1	108.1	Hazel	64.16	217.73	219.42		219.7	0.002537	2.34	27.36	24.13	0.59
Reach 1	108.1	Hazel w CC	77.69	217.73	219.61		219.94	0.002544	2.53	30.67	25.44	0.6
Reach 1	56	100 Year	45.8	217.5	219.13	218.55	219.29	0.004028	1.82	25.76	22.11	0.49
Reach 1	56	Hazel	64.16	217.5	219.22	218.81	219.5	0.006275	2.37	27.85	22.59	0.62
Reach 1	56	Hazel w CC	77.69	217.5	219	219	219.59	0.01594	3.41	23.07	21.33	0.97
Reach 1	Pedestrian Bridg		Bridge									
Reach 1	20	100 Year	45.8	217.33	219.07		219.16	0.001848	1.34	34.6	25.55	0.35
Reach 1	20	Hazel	64.16	217.33	218.99		219.19	0.004299	1.98	32.7	25.12	0.52
Reach 1	20	Hazel w CC	77.69	217.33	218.9		219.23	0.007895	2.57	30.38	23.98	0.7

Reach 1	14	100 Year	45.8	217.22	219.13		219.13	0.000014	0.17	404.48	422.7	0.04
Reach 1	14	Hazel	64.16	217.22	219.13		219.13	0.000028	0.24	404.32	422.7	0.06
Reach 1	14	Hazel w CC	77.69	217.22	219.13		219.13	0.000041	0.29	404.18	422.7	0.07
Reach 1	8	100 Year	45.8	216.8	219.13	216.91	219.13	0.000001	0.05	931.95	400	0.01
Reach 1	8	Hazel	64.16	216.8	219.13	216.94	219.13	0.000001	0.07	931.95	400	0.01
Reach 1	8	Hazel w CC	77.69	216.8	219.13	216.96	219.13	0.000002	0.08	931.95	400	0.02

Dyments Creek - Calibration +50% Expansion / Contraction

Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
			(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
Reach 1	4973	100 Year	14.52	263.21	265.13	264.05	265.15	0.000817	0.71	24.3	20.42	0.17
Reach 1	4973	Hazel	18.09	263.21	265.41	264.13	265.43	0.000704	0.73	30.4	22.82	0.17
Reach 1	4973	Hazel w CC	22.11	263.21	265.59	264.22	265.61	0.000748	0.8	35.26	33.43	0.17
Reach 1		Barrie Landfill	Culvert									
Reach 1	4910	100 Year	14.52	262.6	263.86	263.86	264.23	0.014466	2.71	5.42	7.91	0.99
Reach 1	4910	Hazel	18.09	262.6	263.99	263.99	264.4	0.012988	2.86	6.51	8.6	0.96
Reach 1	4910	Hazel w CC	22.11	262.6	264.12	264.12	264.57	0.012022	3.01	7.69	9.28	0.95
Reach 1	4845	100 Year	14.52	260.45	262.1	262.1	262.51	0.008576	3.34	5.68	6.73	0.87
Reach 1	4845	Hazel	18.09	260.45	262.24	262.24	262.69	0.008626	3.56	6.69	7.41	0.88
Reach 1	4845	Hazel w CC	22.11	260.45	262.39	262.39	262.88	0.008676	3.78	7.84	8.58	0.9
Reach 1	4776	100 Year	14.52	259.33	260.48	260.48	260.8	0.012141	3.06	5.96	8.93	0.96
Reach 1	4776	Hazel	18.09	259.33	260.59	260.59	260.95	0.012035	3.26	6.96	9.48	0.97
Reach 1	4776	Hazel w CC	22.11	259.33	260.71	260.71	261.11	0.011585	3.42	8.13	10.11	0.97
Reach 1	4743	100 Year	14.52	257.92	259.56	259.56	260.03	0.009607	3.46	5.34	5.89	0.91
Reach 1	4743	Hazel	18.09	257.92	259.73	259.73	260.24	0.009327	3.67	6.4	6.54	0.91
Reach 1	4743	Hazel w CC	22.11	257.92	259.89	259.89	260.45	0.009417	3.92	7.47	7.15	0.93
Reach 1	4722	100 Year	14.52	256.73	258.11	258.11	258.44	0.010066	2.89	6.44	11.52	0.81
Reach 1	4722	Hazel	18.09	256.73	258.23	258.23	258.58	0.010137	3.08	7.91	12.33	0.83
Reach 1	4722	Hazel w CC	22.11	256.73	258.35	258.35	258.73	0.010364	3.28	9.38	13.03	0.85
Reach 1	4689	100 Year	14.52	256.02	257.32	257.32	257.59	0.007037	2.51	8.06	20.3	0.74
Reach 1	4689	Hazel	18.09	256.02	257.43	257.43	257.7	0.00684	2.64	10.73	26.64	0.74
Reach 1	4689	Hazel w CC	22.11	256.02	257.49	257.49	257.82	0.008019	2.94	12.38	29.1	0.81
Reach 1	4651	100 Year	14.52	255.1	256.64	256.64	256.83	0.006754	2.74	11.5	28.63	0.74
Reach 1	4651	Hazel	18.09	255.1	256.71	256.71	256.92	0.007419	2.97	13.48	29.48	0.78
Reach 1	4651	Hazel w CC	22.11	255.1	256.77	256.77	257.01	0.008125	3.2	15.47	30.56	0.82
Reach 1	4608	100 Year	14.52	254.46	255.67	255.67	255.95	0.009733	2.95	8.97	17.39	0.9
Reach 1	4608	Hazel	18.09	254.46	255.77	255.77	256.07	0.009778	3.13	10.86	20	0.91
Reach 1	4608	Hazel w CC	22.11	254.46	255.79	255.79	256.22	0.01363	3.74	11.2	21.55	1.08
Reach 1	4577	100 Year	14.52	253.51	254.49	254.49	254.73	0.009643	2.45	7.64	16.74	0.86
Reach 1	4577	Hazel	18.09	253.51	254.58	254.58	254.84	0.009827	2.63	9.08	18.8	0.88
Reach 1	4577	Hazel w CC	22.11	253.51	254.67	254.67	254.95	0.009443	2.76	10.95	21.28	0.88
Reach 1	4531	100 Year	15.92	252.73	253.57	253.57	253.82	0.012505	2.6	7.37	15.11	0.97
Reach 1	4531	Hazel	22.63	252.73	253.71	253.71	254.02	0.011944	2.86	9.52	28.85	0.97
Reach 1	4531	Hazel w CC	27.68	252.73	253.82	253.82	254.14	0.010893	2.96	11.52	45.29	0.95
Reach 1	4507	100 Year	15.92	251.6	252.54	252.54	252.82	0.012363	2.89	7.06	12.1	0.98
Reach 1	4507	Hazel	22.63	251.6	252.69	252.69	253.04	0.01206	3.17	8.96	21.38	1
Reach 1	4507	Hazel w CC	27.68	251.6	252.8	252.8	253.19	0.011581	3.33	10.38	28.27	1
Reach 1	4475	100 Year	15.92	250.21	251.32	251.32	251.62	0.009125	2.81	7.21	19.33	0.87
Reach 1	4475	Hazel	22.63	250.21	251.52	251.52	251.86	0.008629	3.06	9.57	22.39	0.87
Reach 1	4475	Hazel w CC	27.68	250.21	251.64	251.64	252.01	0.008192	3.18	11.4	29.97	0.86
Reach 1	4445	100 Year	15.92	249.46	250.82	250.82	251.08	0.008236	2.86	9.69	17.31	0.82
Reach 1	4445	Hazel	22.63	249.46	250.96	250.96	251.28	0.009196	3.25	12.26	18.19	0.89
Reach 1	4445	Hazel w CC	27.68	249.46	251.06	251.06	251.41	0.009479	3.46	14.15	18.75	0.91
Reach 1	4411	100 Year	15.92	248.96	250.14	250.14	250.37	0.018815	2.91	9.71	18.19	0.93
Reach 1	4411	Hazel	22.63	248.96	250.27	250.26	250.55	0.020165	3.27	12.14	19.1	0.99
Reach 1	4411	Hazel w CC	27.68	248.96	250.35	250.35	250.67	0.020987	3.51	13.79	19.73	1.02
Reach 1	4386	100 Year	15.92	248.6	249.84	249.84	250.05	0.008505	2.92	12.71	32.11	0.86
Reach 1	4386	Hazel	22.63	248.6	249.98	249.98	250.2	0.008668	3.18	17.46	35.17	0.88

Reach 1	4386	Hazel w CC	27.68	248.6	250.05	250.05	250.3	0.009326	3.41	20.02	35.89	0.92
Reach 1	4368	100 Year	15.92	247.64	248.69	248.69	248.98	0.01536	2.88	9.16	16.37	0.94
Reach 1	4368	Hazel	22.63	247.64	248.85	248.85	249.21	0.016347	3.28	12.01	20.37	0.99
Reach 1	4368	Hazel w CC	27.68	247.64	248.94	248.94	249.36	0.017841	3.61	14.11	26.65	1.05
Reach 1	4341	100 Year	15.92	247	248.19	248.19	248.36	0.007331	2.11	13.21	46.51	0.65
Reach 1	4341	Hazel	22.63	247	248.31	248.31	248.48	0.007138	2.24	20.31	68.56	0.65
Reach 1	4341	Hazel w CC	27.68	247	248.38	248.38	248.55	0.00721	2.34	25.14	71.93	0.66
Reach 1	4313	100 Year	15.92	246.23	247.55	247.55	247.68	0.010506	2.31	14.23	53.8	0.69
Reach 1	4313	Hazel	22.63	246.23	247.63	247.63	247.77	0.012011	2.58	18.58	55.41	0.75
Reach 1	4313	Hazel w CC	27.68	246.23	247.76	247.68	247.85	0.007333	2.16	27.47	72.58	0.59
Reach 1	4287	100 Year	16.39	245.79	247.25	246.99	247.34	0.003887	1.82	14.73	20.77	0.5
Reach 1	4287	Hazel	25.46	245.79	247.4	247.16	247.54	0.005596	2.34	18.02	23.17	0.61
Reach 1	4287	Hazel w CC	31.13	245.79	247.52	247.24	247.68	0.005653	2.47	20.95	27.1	0.62
Reach 1	4260	100 Year	16.39	245.37	246.58	246.58	247	0.015046	3.49	6.33	15.31	1.07
Reach 1	4260	Hazel	25.46	245.37	247.37	247.17	247.41	0.001103	1.37	39.82	96.63	0.32
Reach 1	4260	Hazel w CC	31.13	245.37	247.51	247.21	247.53	0.000787	1.21	53.42	100.94	0.27
Reach 1	Edgehill Drive		Culvert									
Reach 1	4227	100 Year	16.39	244.98	246.2	246.2	246.59	0.01166	2.99	6.18	33.52	0.96
Reach 1	4227	Hazel	25.46	244.98	246.47	246.47	246.99	0.011266	3.45	8.21	40.15	0.98
Reach 1	4227	Hazel w CC	31.13	244.98	246.62	246.62	247.22	0.011081	3.69	9.33	55.75	0.99
Reach 1	4204	100 Year	16.39	244.62	245.64	245.58	245.75	0.016038	2.11	14.8	41.07	0.8
Reach 1	4204	Hazel	25.46	244.62	245.75	245.73	245.89	0.019132	2.52	20.25	68.36	0.89
Reach 1	4204	Hazel w CC	31.13	244.62	245.8	245.8	245.95	0.019092	2.63	23.98	73.42	0.9
Reach 1	4174.9	100 Year	16.39	244.26	245.15	245.15	245.31	0.014126	2.5	15.27	50.87	0.98
Reach 1	4174.9	Hazel	25.46	244.26	245.28	245.28	245.44	0.012978	2.69	22.71	65.69	0.96
Reach 1	4174.9	Hazel w CC	31.13	244.26	245.35	245.35	245.5	0.011921	2.73	27.91	76.54	0.93
Reach 1	4145	100 Year	16.39	243.97	244.31	244.2	244.35	0.014907	1.21	17.9	64.66	0.79
Reach 1	4145	Hazel	25.46	243.97	244.4	244.27	244.46	0.015341	1.5	24.61	74.17	0.83
Reach 1	4145	Hazel w CC	31.13	243.97	244.45	244.32	244.52	0.015322	1.62	28.04	75.42	0.84
Reach 1	4116	100 Year	16.39	243.73	243.94	243.82	243.97	0.011118	0.35	21.64	80.4	0.3
Reach 1	4116	Hazel	25.46	243.73	244.03	243.89	244.07	0.011617	0.49	28.82	85.22	0.33
Reach 1	4116	Hazel w CC	31.13	243.73	244.09	243.93	244.13	0.0113	0.56	33.53	94.21	0.33
Reach 1	4077.6	100 Year	16.39	243.06	243.45	243.34	243.48	0.015818	0.87	23.52	97.78	0.63
Reach 1	4077.6	Hazel	25.46	243.06	243.53	243.4	243.57	0.015455	1.1	31.56	105.73	0.67
Reach 1	4077.6	Hazel w CC	31.13	243.06	243.57	243.43	243.61	0.017053	1.26	35.29	107.01	0.72
Reach 1	4038.9	100 Year	16.39	242.15	242.26	242.25	242.35	0.069087	1.21	12.69	69.4	1.5
Reach 1	4038.9	Hazel	25.46	242.15	242.33	242.33	242.43	0.073098	1.72	17.85	85.25	1.67
Reach 1	4038.9	Hazel w CC	31.13	242.15	242.37	242.36	242.48	0.059537	1.81	21.97	90.02	1.56
Reach 1	4010.8	100 Year	16.39	241.53	241.57	241.4	241.59	0.013288	0.27	24.16	78.9	0.56
Reach 1	4010.8	Hazel	25.46	241.53	241.68	241.47	241.7	0.012158	0.66	34.01	107.77	0.69
Reach 1	4010.8	Hazel w CC	31.13	241.53	241.71	241.51	241.75	0.013431	0.81	38.05	119.12	0.75
Reach 1	3974	100 Year	16.39	240.69	240.83	240.75	240.88	0.031252	0.59	16.25	68.5	0.69
Reach 1	3974	Hazel	25.46	240.69	240.89	240.83	240.97	0.039463	0.84	20.79	84.69	0.83
Reach 1	3974	Hazel w CC	31.13	240.69	240.95	240.88	241.02	0.031861	0.89	26.41	99.22	0.78
Reach 1	3934.7	100 Year	16.39	239.92	240.09	239.92	240.11	0.012526	0.66	25.01	102.4	0.68
Reach 1	3934.7	Hazel	25.46	239.92	240.21	240	240.23	0.009957	0.82	39.42	138.81	0.67
Reach 1	3934.7	Hazel w CC	31.13	239.92	240.24	240.05	240.26	0.011933	0.96	43.21	146.23	0.76
Reach 1	3877.1	100 Year	16.39	239.11	239.56	239.36	239.57	0.00747	0.47	31.23	100.87	0.28
Reach 1	3877.1	Hazel	25.46	239.11	239.6	239.42	239.63	0.011248	0.64	36.22	101.59	0.35
Reach 1	3877.1	Hazel w CC	31.13	239.11	239.7	239.45	239.73	0.007605	0.63	46.46	103.98	0.3
Reach 1	3837	100 Year	14.79	238.53	238.89	238.89	238.99	0.039536	2.41	12.62	57.45	1.44

Reach 1	3837	Hazel	25.63	238.53	239.46	238.98	239.48	0.001831	1.05	46.32	61.42	0.36
Reach 1	3837	Hazel w CC	31.38	238.53	239.58	239.02	239.6	0.001672	1.09	54.04	63.36	0.35
Reach 1	3805	100 Year	14.79	237.93	238.83	238.36	238.84	0.00109	0.63	36.31	60.15	0.23
Reach 1	3805	Hazel	25.63	237.93	239.44	238.47	239.45	0.00034	0.51	74.44	64.02	0.14
Reach 1	3805	Hazel w CC	31.38	237.93	239.57	238.52	239.57	0.000369	0.57	82.32	64.35	0.15
Reach 1	3769.6	100 Year	14.79	237.52	238.72	238.17	238.78	0.001509	1.12	14.52	36.07	0.35
Reach 1	3769.6	Hazel	25.63	237.52	239.33	238.39	239.4	0.001116	1.31	23.66	61.64	0.33
Reach 1	3769.6	Hazel w CC	31.38	237.52	239.41	238.49	239.51	0.001936	1.78	26.82	63.51	0.44
Reach 1	Sproule Drive		Culvert									
Reach 1	3739	100 Year	14.79	237.28	237.96	237.96	238.21	0.01633	2.43	6.8	41.36	1.05
Reach 1	3739	Hazel	25.63	237.28	238.18	238.18	238.55	0.01517	2.94	9.65	43.96	1.07
Reach 1	3739	Hazel w CC	31.38	237.28	238.29	238.29	238.71	0.014139	3.11	11.12	44.33	1.06
Reach 1	3689	100 Year	14.79	236.79	237.08	237.08	237.16	0.021294	1.24	14.9	103.42	0.98
Reach 1	3689	Hazel	25.63	236.79	237.16	237.16	237.25	0.020327	1.57	23.78	120.57	1.02
Reach 1	3689	Hazel w CC	31.38	236.79	237.19	237.19	237.29	0.020841	1.71	27.32	125.36	1.06
Reach 1	3600.2	100 Year	14.79	235.21	235.86	235.54	235.86	0.000736	0.36	84.2	316.36	0.17
Reach 1	3600.2	Hazel	25.63	235.21	236.01	235.61	236.01	0.000611	0.39	138.62	381.66	0.16
Reach 1	3600.2	Hazel w CC	31.38	235.21	236.06	235.64	236.06	0.00063	0.42	157.86	390.53	0.16
Reach 1	3535	100 Year	13.06	234.78	235.86	235.09	235.86	0.000024	0.13	247.78	400.46	0.04
Reach 1	3535	Hazel	26.17	234.78	236	235.18	236.01	0.000048	0.2	312.45	465.17	0.06
Reach 1	3535	Hazel w CC	32.07	234.78	236.05	235.2	236.05	0.000057	0.23	335.72	491.98	0.07
Reach 1	3513	100 Year	13.06	234.66	235.86	234.91	235.86	0.000004	0.05	418.54	564.62	0.01
Reach 1	3513	Hazel	26.17	234.66	236	234.97	236	0.000009	0.07	502.75	568.31	0.02
Reach 1	3513	Hazel w CC	32.07	234.66	236.05	235	236.05	0.000011	0.08	530.54	570.73	0.02
Reach 1	3480	100 Year	13.06	234.73	235.86	234.94	235.86	0.000004	0.06	396.8	578.77	0.02
Reach 1	3480	Hazel	26.17	234.73	236	235	236	0.000008	0.09	484.34	594.54	0.03
Reach 1	3480	Hazel w CC	32.07	234.73	236.05	235.02	236.05	0.00001	0.1	513.31	594.54	0.03
Reach 1	3453.03	100 Year	14.84	234.69	235.86	235.02	235.86	0.000008	0.08	266.53	375.83	0.02
Reach 1	3453.03	Hazel	29.36	234.69	236	235.09	236	0.000017	0.13	322.88	381.74	0.04
Reach 1	3453.03	Hazel w CC	35.93	234.69	236.05	235.11	236.05	0.000021	0.14	341.37	382.21	0.04
Reach 1	3334	100 Year	14.84	234.42	235.84	235.62	235.85	0.00041	0.45	40.98	178.56	0.15
Reach 1	3334	Hazel	29.36	234.42	235.98	235.74	235.99	0.000342	0.46	67.33	211.55	0.15
Reach 1	3334	Hazel w CC	35.93	234.42	236.03	235.78	236.04	0.000345	0.47	77.51	231.92	0.15
Reach 1	3325		Culvert									
Reach 1	3312	100 Year	14.84	234.64	235.82		235.83	0.000464	0.49	37.35	154.75	0.17
Reach 1	3312	Hazel	29.36	234.64	235.96		235.97	0.000426	0.52	59.28	168.62	0.16
Reach 1	3312	Hazel w CC	35.93	234.64	236.01		236.02	0.000428	0.54	67.2	170.66	0.17
Reach 1	3235	100 Year	14.84	234.28	235.78	235.23	235.79	0.000479	0.52	33.29	118.5	0.17
Reach 1	3235	Hazel	29.36	234.28	235.91	235.68	235.93	0.000551	0.6	49.21	122.55	0.18
Reach 1	3235	Hazel w CC	35.93	234.28	235.96	235.71	235.98	0.000581	0.63	54.45	122.73	0.19
Reach 1	3225		Culvert									
Reach 1	3214	100 Year	14.84	234.25	235.24	235.24	235.52	0.015925	2.39	6.57	12.16	0.94
Reach 1	3214	Hazel	29.36	234.25	235.72	235.72	235.83	0.003886	1.71	21.36	76.28	0.54
Reach 1	3214	Hazel w CC	35.93	234.25	235.76	235.76	235.88	0.003935	1.77	24.68	87.95	0.54
Reach 1	3155.2	100 Year	14.84	234.1	234.76	234.65	234.78	0.001577	0.61	25.39	126.26	0.28
Reach 1	3155.2	Hazel	29.36	234.1	234.94	234.74	234.96	0.000803	0.49	52.03	175.36	0.2
Reach 1	3155.2	Hazel w CC	35.93	234.1	235.03	234.77	235.05	0.000526	0.42	70.94	238.61	0.16
Reach 1	Dunlop Street W		Culvert									
Reach 1	3068	100 Year	14.84	233.75	234.76	234.58	234.76	0.000582	0.48	38.5	140.59	0.18
Reach 1	3068	Hazel	29.36	233.75	234.94	234.65	234.95	0.000474	0.5	64.15	144.23	0.17

Reach 1	1765	100 Year	43.37	226.67	228.93	228.34	228.95	0.000315	0.7	63.11	73.92	0.16
Reach 1	1765	Hazel	56.57	226.67	229.09	228.42	229.12	0.000313	0.74	75.87	81.75	0.16
Reach 1	1765	Hazel w CC	68.3	226.67	229.2	228.48	229.23	0.000334	0.79	84.59	86.75	0.17
Reach 1	1735	100 Year	43.37	226.65	228.89	228.24	228.94	0.000887	1.22	62.06	106.82	0.28
Reach 1	1735	Hazel	56.57	226.65	229.07	228.36	229.11	0.000746	1.18	83.52	123.56	0.26
Reach 1	1735	Hazel w CC	68.3	226.65	229.18	228.46	229.22	0.000692	1.18	97.22	124.78	0.25
Reach 1	1706	100 Year	43.37	226.38	228.89	228.03	228.91	0.000431	0.91	70.33	76.3	0.19
Reach 1	1706	Hazel	56.57	226.38	229.06	228.17	229.09	0.00045	0.98	83.52	77.18	0.2
Reach 1	1706	Hazel w CC	68.3	226.38	229.17	228.25	229.2	0.000494	1.05	91.97	80.57	0.21
Reach 1	1678	100 Year	44.1	226.25	228.87	227.81	228.9	0.000232	0.65	62.2	75.51	0.14
Reach 1	1678	Hazel	58.7	226.25	229.04	227.94	229.08	0.00026	0.73	75.21	77.33	0.15
Reach 1	1678	Hazel w CC	70.86	226.25	229.15	228.04	229.19	0.000291	0.79	83.48	80.5	0.16
Reach 1	1646	100 Year	44.1	225.61	228.86	228.43	228.89	0.000532	1	84.82	119.29	0.22
Reach 1	1646	Hazel	58.7	225.61	229.03	228.52	229.06	0.000519	1.04	106.33	132.4	0.23
Reach 1	1646	Hazel w CC	70.86	225.61	229.14	228.57	229.17	0.00054	1.1	120.55	141.66	0.23
Reach 1	George Street		Culvert									
Reach 1	1621	100 Year	44.1	225.63	228.61	228.61	228.88	0.006971	2.85	28.34	46.23	0.68
Reach 1	1621	Hazel	58.7	225.63	228.78	228.78	229.05	0.006808	2.99	36.86	56.7	0.68
Reach 1	1621	Hazel w CC	70.86	225.63	228.9	228.9	229.15	0.006384	3.02	44.48	67.2	0.67
Reach 1	1588	100 Year	44.1	225.61	227.99	226.53	228.02	0.000562	0.98	63.82	39.19	0.21
Reach 1	1588	Hazel	58.7	225.61	228.13	226.68	228.17	0.000799	1.21	69.3	41.28	0.25
Reach 1	1588	Hazel w CC	70.86	225.61	228.24	226.79	228.29	0.000988	1.39	73.9	46.86	0.28
Reach 1	1554	100 Year	44.1	225.48	227.91	226.73	227.99	0.001427	1.47	40.79	32.95	0.31
Reach 1	1554	Hazel	58.7	225.48	228.01	226.93	228.12	0.002134	1.85	44.69	43.48	0.38
Reach 1	1554	Hazel w CC	70.86	225.48	228.09	227.08	228.23	0.002724	2.13	48.05	45.11	0.43
Reach 1	1528	100 Year	44.1	225.41	227.92	226.44	227.95	0.000468	1.11	70.81	47.21	0.23
Reach 1	1528	Hazel	58.7	225.41	228.02	226.6	228.06	0.0007	1.4	75.58	48.06	0.28
Reach 1	1528	Hazel w CC	70.86	225.41	228.09	226.73	228.15	0.000903	1.62	79.29	48.91	0.32
Reach 1	1468	100 Year	44.1	225.49	227.93	225.94	227.93	0.000034	0.3	191.36	108.5	0.06
Reach 1	1468	Hazel	58.7	225.49	228.03	226.03	228.04	0.000051	0.38	202.85	109.41	0.08
Reach 1	1468	Hazel w CC	70.86	225.49	228.11	226.1	228.12	0.000066	0.44	211.81	110.05	0.09
Reach 1	1431	100 Year	44.28	225.49	227.92	225.94	227.93	0.000034	0.3	181.09	93.78	0.06
Reach 1	1431	Hazel	58.89	225.49	228.03	226.02	228.03	0.000052	0.38	190.94	94.59	0.08
Reach 1	1431	Hazel w CC	71.13	225.49	228.11	226.08	228.12	0.000067	0.44	198.6	102.17	0.09
Reach 1	1404	100 Year	44.28	225.46	227.89	226.43	227.92	0.000289	0.83	81.07	93.6	0.18
Reach 1	1404	Hazel	58.89	225.46	227.98	226.6	228.02	0.000411	1.02	89.16	103.26	0.21
Reach 1	1404	Hazel w CC	71.13	225.46	228.05	226.73	228.1	0.000512	1.16	95.45	114.07	0.24
Reach 1	Victoria Street		Culvert									
Reach 1	1374	100 Year	44.28	224.61	226.16		226.31	0.002378	1.75	26.47	41.96	0.47
Reach 1	1374	Hazel	58.89	224.61	226.59		226.73	0.001668	1.75	34.95	52.35	0.41
Reach 1	1374	Hazel w CC	71.13	224.61	227.13		227.25	0.000984	1.59	45.84	59.9	0.33
Reach 1	1326	100 Year	44.28	224.01	226.12		226.15	0.00102	1.2	70.79	49.93	0.27
Reach 1	1326	Hazel	58.89	224.01	226.56		226.59	0.000827	1.23	93.79	57.4	0.25
Reach 1	1326	Hazel w CC	71.13	224.01	227.12		227.15	0.000532	1.13	129.42	70.81	0.21
Reach 1	1289	100 Year	44.28	223.73	226.11		226.12	0.000307	0.77	98.17	55.04	0.16
Reach 1	1289	Hazel	58.89	223.73	226.55		226.57	0.000279	0.82	124.01	60.57	0.16
Reach 1	1289	Hazel w CC	71.13	223.73	227.12		227.13	0.000207	0.81	160.38	72.16	0.14
Reach 1	1242	100 Year	44.28	223.58	226.1		226.11	0.000172	0.54	128.6	72.81	0.11
Reach 1	1242	Hazel	58.89	223.58	226.55		226.56	0.000157	0.58	161.97	78.06	0.11
Reach 1	1242	Hazel w CC	71.13	223.58	227.11		227.12	0.000112	0.55	212.61	132.71	0.1
Reach 1	1218	100 Year	44.28	223.18	226.1		226.11	0.000072	0.39	151.71	71.14	0.08

Reach 1	1218	Hazel	58.89	223.18	226.55		226.55	0.000072	0.43	184.19	75.01	0.08
Reach 1	1218	Hazel w CC	71.13	223.18	227.11		227.12	0.000057	0.43	229.82	93.11	0.07
Reach 1	1192	100 Year	44.28	223.06	226.1		226.11	0.000051	0.41	183.83	95.05	0.08
Reach 1	1192	Hazel	58.89	223.06	226.55		226.55	0.000005	0.45	226.89	98.46	0.08
Reach 1	1192	Hazel w CC	71.13	223.06	227.11		227.12	0.000038	0.44	283.75	102.28	0.07
Reach 1	1168	100 Year	44.28	222.78	226.1		226.1	0.000031	0.33	202.15	99.04	0.06
Reach 1	1168	Hazel	58.89	222.78	226.55		226.55	0.000029	0.35	246.52	100.42	0.06
Reach 1	1168	Hazel w CC	71.13	222.78	227.11		227.12	0.000022	0.34	304.11	102.71	0.05
Reach 1	1153	100 Year	45.43	222.73	226.1		226.1	0.000027	0.29	209.01	107.7	0.05
Reach 1	1153	Hazel	61.04	222.73	226.55		226.55	0.000025	0.3	257.3	109.59	0.05
Reach 1	1153	Hazel w CC	73.74	222.73	227.11		227.12	0.000017	0.28	320.17	111.98	0.04
Reach 1	1113	100 Year	45.43	222.63	225.91	224.62	226.04	0.001293	1.93	50.43	116.43	0.38
Reach 1	1113	Hazel	61.04	222.63	225.27	225.01	226.15	0.00635	4.26	14.85	70.93	0.85
Reach 1	1113	Hazel w CC	73.74	222.63	225.31	225.31	226.55	0.008839	5.08	15.06	73.19	1
Reach 1	Anne Street		Culvert									
Reach 1	957	100 Year	45.43	222.09	224.91		225.29	0.002382	2.74	16.59	60.92	0.53
Reach 1	957	Hazel	61.04	222.09	225.17		225.75	0.003155	3.35	18.21	61.86	0.61
Reach 1	957	Hazel w CC	73.74	222.09	225.48	224.62	226.17	0.00334	3.68	20.05	65.31	0.64
Reach 1	929	100 Year	45.43	222.1	224.95		225.02	0.000616	1.4	59.25	62.43	0.27
Reach 1	929	Hazel	61.04	222.1	225.27		225.34	0.000626	1.51	80.06	89.44	0.27
Reach 1	929	Hazel w CC	73.74	222.1	225.61		225.67	0.000531	1.5	108.67	114.94	0.26
Reach 1	882	100 Year	45.43	221.83	224.91		224.98	0.001038	1.48	60.52	87.36	0.28
Reach 1	882	Hazel	61.04	221.83	225.24		225.3	0.00083	1.42	91.83	101.65	0.25
Reach 1	882	Hazel w CC	73.74	221.83	225.6	224.14	225.63	0.000532	1.22	128.7	105.28	0.2
Reach 1	831	100 Year	45.43	221.79	224.45	223.92	224.83	0.005819	3.07	21.91	25.71	0.61
Reach 1	831	Hazel	61.04	221.79	224.42	224.22	225.1	0.010509	4.09	21.3	22.35	0.82
Reach 1	831	Hazel w CC	73.74	221.79	224.31	224.31	225.4	0.017677	5.16	19.55	13.04	1.05
Reach 1	792	100 Year	45.43	221.53	224.59		224.63	0.000496	1.13	74.35	66.84	0.21
Reach 1	792	Hazel	61.04	221.53	224.69		224.75	0.000725	1.4	81.22	67.83	0.26
Reach 1	792	Hazel w CC	73.74	221.53	224.77		224.84	0.000907	1.59	86.53	69.71	0.29
Reach 1	752	100 Year	45.43	221.4	224.59		224.6	0.000281	0.77	120.38	73.79	0.14
Reach 1	752	Hazel	61.04	221.4	224.69		224.71	0.000426	0.96	127.86	73.94	0.17
Reach 1	752	Hazel w CC	73.74	221.4	224.77		224.8	0.000547	1.11	133.56	74.06	0.2
Reach 1	718	100 Year	45.43	221.4	224.58		224.59	0.000219	0.79	111.42	69.13	0.14
Reach 1	718	Hazel	61.04	221.4	224.67		224.7	0.000336	0.99	118.08	70.3	0.18
Reach 1	718	Hazel w CC	73.74	221.4	224.75		224.78	0.000436	1.15	123.16	70.9	0.2
Reach 1	698	100 Year	44.61	221.29	224.54		224.58	0.000415	1.26	66.83	38.03	0.22
Reach 1	698	Hazel	61.69	221.29	224.6		224.68	0.000726	1.68	69.21	38.3	0.3
Reach 1	698	Hazel w CC	74.79	221.29	224.64		224.75	0.001007	2	70.79	38.49	0.35
Reach 1	681	100 Year	44.61	221.21	224.49	224.22	224.56	0.003409	1.56	52.91	81.71	0.37
Reach 1	681	Hazel	61.69	221.21	224.32	224.32	224.57	0.013771	2.9	39.41	74.83	0.73
Reach 1	681	Hazel w CC	74.79	221.21	224.55	224.4	224.7	0.007838	2.42	57.25	84.35	0.57
Reach 1	Innisfil Street		Culvert									
Reach 1	656	100 Year	44.61	221.57	224.52		224.55	0.000851	1.23	87.21	128.12	0.28
Reach 1	656	Hazel	61.69	221.57	224.34		224.48	0.003507	2.35	64.81	125.18	0.55
Reach 1	656	Hazel w CC	74.79	221.57	224.6		224.67	0.001739	1.81	98.02	129.61	0.4
Reach 1	610	100 Year	44.61	221.04	224.52		224.52	0.000087	0.32	208.01	134.1	0.06
Reach 1	610	Hazel	61.69	221.04	224.35		224.35	0.000232	0.51	185.79	130.2	0.09
Reach 1	610	Hazel w CC	74.79	221.04	224.6		224.6	0.00021	0.51	218.75	135.42	0.09
Reach 1	601	100 Year	44.48	221.02	224.51		224.52	0.000226	0.63	129.83	130.73	0.11
Reach 1	601	Hazel	61.78	221.02	224.32		224.35	0.000757	1.11	105.71	120.99	0.2

Reach 1	601	Hazel w CC	74.88	221.02	224.57		224.6	0.000525	0.97	138.66	131.71	0.17
Reach 1	559	100 Year	44.48	220.97	223.04	223.04	224.04	0.01299	4.44	10.03	16.9	1
Reach 1	559	Hazel	61.78	220.97	223.83	223.83	224.15	0.004623	2.97	42.18	74.33	0.61
Reach 1	559	Hazel w CC	74.88	220.97	224.5	223.98	224.55	0.000869	1.52	108.33	125.47	0.28
Reach 1	Sanford Street		Culvert									
Reach 1	532	100 Year	44.48	220.01	222.51	222.31	223.33	0.007323	4.11	11.11	13.49	0.86
Reach 1	532	Hazel	61.78	220.01	222.8	222.8	224.04	0.009359	5.04	12.58	14.78	0.99
Reach 1	532	Hazel w CC	74.88	220.01	223.14	223.14	224.56	0.00904	5.37	14.27	18.61	1
Reach 1	500	100 Year	44.48	219.75	222.6		222.75	0.001244	1.97	33.54	32.78	0.38
Reach 1	500	Hazel	61.78	219.75	222.77		222.99	0.001788	2.46	39.73	39.63	0.46
Reach 1	500	Hazel w CC	74.88	219.75	223.06		223.26	0.00158	2.46	53.85	56.17	0.44
Reach 1	474	100 Year	45	219.74	222.65		222.68	0.000363	1.07	69.1	64.45	0.2
Reach 1	474	Hazel	63.02	219.74	222.85		222.89	0.000469	1.27	82.43	69.88	0.23
Reach 1	474	Hazel w CC	76.34	219.74	223.14		223.17	0.000381	1.22	103.76	76.62	0.21
Reach 1	442	100 Year	45	219.32	222.57	221.41	222.64	0.000626	1.48	43.43	71.9	0.27
Reach 1	442	Hazel	63.02	219.32	222.79	221.79	222.86	0.000553	1.46	59.68	75.18	0.26
Reach 1	442	Hazel w CC	76.34	219.32	223.11	222.48	223.16	0.000305	1.15	84.12	78.73	0.19
Reach 1	Bradford Street		Culvert									
Reach 1	338	100 Year	45	219.07	221.11	221.11	222.01	0.011783	4.31	10.8	39.8	0.99
Reach 1	338	Hazel	63.02	219.07	221.57	221.57	222.69	0.011	4.78	13.53	51.83	0.99
Reach 1	338	Hazel w CC	76.34	219.07	221.85	221.85	223.15	0.010973	5.14	15.2	62.55	1.01
Reach 1	304	100 Year	45	219.08	220.65		220.76	0.004217	1.79	34.15	86.09	0.51
Reach 1	304	Hazel	63.02	219.08	220.84		220.94	0.003229	1.72	48.09	120.66	0.46
Reach 1	304	Hazel w CC	76.34	219.08	220.97		221.07	0.002758	1.69	58.09	139.52	0.43
Reach 1	267	100 Year	45	219	220.64		220.67	0.000776	1.05	76.46	95.24	0.27
Reach 1	267	Hazel	63.02	219	220.83		220.86	0.000796	1.15	96.01	131.15	0.28
Reach 1	267	Hazel w CC	76.34	219	220.96		220.99	0.000749	1.17	111.58	180.56	0.28
Reach 1	218	100 Year	45	218.97	220.6		220.63	0.000722	0.94	75.96	86.7	0.25
Reach 1	218	Hazel	63.02	218.97	220.79		220.82	0.000776	1.06	93.47	107.13	0.26
Reach 1	218	Hazel w CC	76.34	218.97	220.93		220.96	0.000742	1.09	110.33	150.15	0.26
Reach 1	197.5	100 Year	45	218.86	220.6		220.61	0.00049	0.74	84.34	99.74	0.2
Reach 1	197.5	Hazel	63.02	218.86	220.78		220.8	0.000606	0.89	97.87	151.48	0.22
Reach 1	197.5	Hazel w CC	76.34	218.86	220.91		220.94	0.000643	0.96	109.42	172.08	0.23
Reach 1	170	100 Year	45.8	218.73	220.32	220.32	220.55	0.006503	2.89	34.62	117.91	0.78
Reach 1	170	Hazel	64.16	218.73	220.47	220.47	220.73	0.007181	3.24	44.53	148.37	0.83
Reach 1	170	Hazel w CC	77.69	218.73	220.73		220.88	0.004032	2.69	64.41	217.09	0.64
Reach 1	147	100 Year	45.8	217.81	219.53	218.82	219.68	0.001893	1.76	26.56	297.28	0.43
Reach 1	147	Hazel	64.16	217.81	220.09	219.06	220.26	0.001429	1.84	35.45	302.76	0.39
Reach 1	147	Hazel w CC	77.69	217.81	220.75	219.22	220.77	0.000265	0.86	226.19	321.6	0.17
Reach 1	Lakeshore Drive		Bridge									
Reach 1	108.1	100 Year	45.8	217.73	219.41		219.55	0.002356	1.69	27.13	24.01	0.43
Reach 1	108.1	Hazel	64.16	217.73	219.61		219.84	0.003076	2.09	30.66	25.43	0.5
Reach 1	108.1	Hazel w CC	77.69	217.73	219.77		220.05	0.003392	2.33	33.39	26.51	0.53
Reach 1	56	100 Year	45.8	217.5	219.23	218.55	219.37	0.005579	1.68	28.01	22.63	0.44
Reach 1	56	Hazel	64.16	217.5	219.36	218.81	219.59	0.008005	2.14	31.14	23.45	0.54
Reach 1	56	Hazel w CC	77.69	217.5	219.51	219	219.78	0.008581	2.34	34.57	24.05	0.56
Reach 1	Pedestrian Bridg		Bridge									
Reach 1	20	100 Year	45.8	217.33	219.08		219.17	0.003166	1.33	34.99	25.62	0.34
Reach 1	20	Hazel	64.16	217.33	219.03		219.22	0.006995	1.93	33.64	25.4	0.5
Reach 1	20	Hazel w CC	77.69	217.33	218.97		219.27	0.011813	2.44	32.11	24.92	0.65

Reach 1	14	100 Year	45.8	217.22	219.13		219.13	0.000025	0.17	404.52	422.7	0.04
Reach 1	14	Hazel	64.16	217.22	219.13		219.13	0.00005	0.24	404.41	422.7	0.06
Reach 1	14	Hazel w CC	77.69	217.22	219.13		219.13	0.000073	0.29	404.31	422.7	0.07
Reach 1	8	100 Year	45.8	216.8	219.13	216.91	219.13	0.000001	0.05	931.95	400	0.01
Reach 1	8	Hazel	64.16	216.8	219.13	216.94	219.13	0.000002	0.07	931.95	400	0.01
Reach 1	8	Hazel w CC	77.69	216.8	219.13	216.96	219.13	0.000003	0.08	931.95	400	0.02

Dyments Creek - Calibration -50% Expansion / Contraction

Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
			(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
Reach 1	4973	100 Year	14.52	263.21	265.13	264.05	265.15	0.000817	0.71	24.3	20.42	0.17
Reach 1	4973	Hazel	18.09	263.21	265.41	264.13	265.43	0.000704	0.73	30.4	22.82	0.17
Reach 1	4973	Hazel w CC	22.11	263.21	265.59	264.22	265.61	0.000748	0.8	35.26	33.43	0.17
Reach 1		Barrie Landfill	Culvert									
Reach 1	4910	100 Year	14.52	262.6	263.86	263.86	264.23	0.014466	2.71	5.42	7.91	0.99
Reach 1	4910	Hazel	18.09	262.6	263.99	263.99	264.4	0.012988	2.86	6.51	8.6	0.96
Reach 1	4910	Hazel w CC	22.11	262.6	264.12	264.12	264.57	0.012022	3.01	7.69	9.28	0.95
Reach 1	4845	100 Year	14.52	260.45	262.1	262.1	262.51	0.008576	3.34	5.68	6.73	0.87
Reach 1	4845	Hazel	18.09	260.45	262.24	262.24	262.69	0.008626	3.56	6.69	7.41	0.88
Reach 1	4845	Hazel w CC	22.11	260.45	262.39	262.39	262.88	0.008676	3.78	7.84	8.58	0.9
Reach 1	4776	100 Year	14.52	259.33	260.48	260.48	260.8	0.012141	3.06	5.96	8.93	0.96
Reach 1	4776	Hazel	18.09	259.33	260.59	260.59	260.95	0.012035	3.26	6.96	9.48	0.97
Reach 1	4776	Hazel w CC	22.11	259.33	260.71	260.71	261.11	0.011585	3.42	8.13	10.11	0.97
Reach 1	4743	100 Year	14.52	257.92	259.56	259.56	260.03	0.009607	3.46	5.34	5.89	0.91
Reach 1	4743	Hazel	18.09	257.92	259.73	259.73	260.24	0.009327	3.67	6.4	6.54	0.91
Reach 1	4743	Hazel w CC	22.11	257.92	259.89	259.89	260.45	0.009417	3.92	7.47	7.15	0.93
Reach 1	4722	100 Year	14.52	256.73	258.11	258.11	258.44	0.010066	2.89	6.44	11.52	0.81
Reach 1	4722	Hazel	18.09	256.73	258.23	258.23	258.58	0.010137	3.08	7.91	12.33	0.83
Reach 1	4722	Hazel w CC	22.11	256.73	258.35	258.35	258.73	0.010364	3.28	9.38	13.03	0.85
Reach 1	4689	100 Year	14.52	256.02	257.32	257.32	257.59	0.007037	2.51	8.06	20.3	0.74
Reach 1	4689	Hazel	18.09	256.02	257.43	257.43	257.7	0.00684	2.64	10.73	26.64	0.74
Reach 1	4689	Hazel w CC	22.11	256.02	257.49	257.49	257.82	0.008019	2.94	12.38	29.1	0.81
Reach 1	4651	100 Year	14.52	255.1	256.64	256.64	256.83	0.006754	2.74	11.5	28.63	0.74
Reach 1	4651	Hazel	18.09	255.1	256.71	256.71	256.92	0.007419	2.97	13.48	29.48	0.78
Reach 1	4651	Hazel w CC	22.11	255.1	256.77	256.77	257.01	0.008125	3.2	15.47	30.56	0.82
Reach 1	4608	100 Year	14.52	254.46	255.67	255.67	255.95	0.009733	2.95	8.97	17.39	0.9
Reach 1	4608	Hazel	18.09	254.46	255.77	255.77	256.07	0.009778	3.13	10.86	20	0.91
Reach 1	4608	Hazel w CC	22.11	254.46	255.79	255.79	256.22	0.01363	3.74	11.2	21.55	1.08
Reach 1	4577	100 Year	14.52	253.51	254.49	254.49	254.73	0.009643	2.45	7.64	16.74	0.86
Reach 1	4577	Hazel	18.09	253.51	254.58	254.58	254.84	0.009827	2.63	9.08	18.8	0.88
Reach 1	4577	Hazel w CC	22.11	253.51	254.67	254.67	254.95	0.009443	2.76	10.95	21.28	0.88
Reach 1	4531	100 Year	15.92	252.73	253.57	253.57	253.82	0.012505	2.6	7.37	15.11	0.97
Reach 1	4531	Hazel	22.63	252.73	253.71	253.71	254.02	0.011944	2.86	9.52	28.85	0.97
Reach 1	4531	Hazel w CC	27.68	252.73	253.82	253.82	254.14	0.010893	2.96	11.52	45.29	0.95
Reach 1	4507	100 Year	15.92	251.6	252.54	252.54	252.82	0.012363	2.89	7.06	12.1	0.98
Reach 1	4507	Hazel	22.63	251.6	252.69	252.69	253.04	0.01206	3.17	8.96	21.38	1
Reach 1	4507	Hazel w CC	27.68	251.6	252.8	252.8	253.19	0.011581	3.33	10.38	28.27	1
Reach 1	4475	100 Year	15.92	250.21	251.32	251.32	251.62	0.009125	2.81	7.21	19.33	0.87
Reach 1	4475	Hazel	22.63	250.21	251.52	251.52	251.86	0.008629	3.06	9.57	22.39	0.87
Reach 1	4475	Hazel w CC	27.68	250.21	251.64	251.64	252.01	0.008192	3.18	11.4	29.97	0.86
Reach 1	4445	100 Year	15.92	249.46	250.82	250.82	251.08	0.008236	2.86	9.69	17.31	0.82
Reach 1	4445	Hazel	22.63	249.46	250.96	250.96	251.28	0.009196	3.25	12.26	18.19	0.89
Reach 1	4445	Hazel w CC	27.68	249.46	251.06	251.06	251.41	0.009479	3.46	14.15	18.75	0.91
Reach 1	4411	100 Year	15.92	248.96	250.14	250.14	250.37	0.018943	2.92	9.68	18.18	0.94
Reach 1	4411	Hazel	22.63	248.96	250.26	250.26	250.55	0.020397	3.29	12.09	19.08	0.99
Reach 1	4411	Hazel w CC	27.68	248.96	250.35	250.35	250.67	0.020987	3.51	13.79	19.73	1.02
Reach 1	4386	100 Year	15.92	248.6	249.84	249.84	250.05	0.008505	2.92	12.71	32.11	0.86
Reach 1	4386	Hazel	22.63	248.6	249.98	249.98	250.2	0.008668	3.18	17.46	35.17	0.88

Reach 1	4386	Hazel w CC	27.68	248.6	250.05	250.05	250.3	0.009326	3.41	20.02	35.89	0.92
Reach 1	4368	100 Year	15.92	247.64	248.69	248.69	248.98	0.01536	2.88	9.16	16.37	0.94
Reach 1	4368	Hazel	22.63	247.64	248.85	248.85	249.21	0.016347	3.28	12.01	20.37	0.99
Reach 1	4368	Hazel w CC	27.68	247.64	248.94	248.94	249.36	0.017841	3.61	14.11	26.65	1.05
Reach 1	4341	100 Year	15.92	247	248.19	248.19	248.36	0.007331	2.11	13.21	46.51	0.65
Reach 1	4341	Hazel	22.63	247	248.31	248.31	248.48	0.007138	2.24	20.31	68.56	0.65
Reach 1	4341	Hazel w CC	27.68	247	248.38	248.38	248.55	0.00721	2.34	25.14	71.93	0.66
Reach 1	4313	100 Year	15.92	246.23	247.55	247.55	247.68	0.010506	2.31	14.23	53.8	0.69
Reach 1	4313	Hazel	22.63	246.23	247.63	247.63	247.77	0.012011	2.58	18.58	55.41	0.75
Reach 1	4313	Hazel w CC	27.68	246.23	247.74	247.68	247.84	0.008715	2.33	25.49	70.37	0.64
Reach 1	4287	100 Year	16.39	245.79	247.17	246.99	247.28	0.005478	2.07	12.96	20.08	0.58
Reach 1	4287	Hazel	25.46	245.79	247.33	247.16	247.5	0.007031	2.54	16.48	21.93	0.67
Reach 1	4287	Hazel w CC	31.13	245.79	247.43	247.24	247.63	0.00759	2.76	18.69	23.59	0.71
Reach 1	4260	100 Year	16.39	245.37	246.58	246.58	247	0.015046	3.49	6.33	15.31	1.07
Reach 1	4260	Hazel	25.46	245.37	247.37	247.17	247.41	0.001103	1.37	39.82	96.63	0.32
Reach 1	4260	Hazel w CC	31.13	245.37	247.51	247.21	247.53	0.000787	1.21	53.42	100.94	0.27
Reach 1	Edgehill Drive		Culvert									
Reach 1	4227	100 Year	16.39	244.98	246.2	246.2	246.59	0.01166	2.99	6.18	33.52	0.96
Reach 1	4227	Hazel	25.46	244.98	246.47	246.47	246.99	0.011266	3.45	8.21	40.15	0.98
Reach 1	4227	Hazel w CC	31.13	244.98	246.62	246.62	247.22	0.011081	3.69	9.33	55.75	0.99
Reach 1	4204	100 Year	16.39	244.62	245.64	245.58	245.75	0.016328	2.13	14.7	40.71	0.8
Reach 1	4204	Hazel	25.46	244.62	245.75	245.73	245.89	0.019257	2.53	20.19	68.32	0.89
Reach 1	4204	Hazel w CC	31.13	244.62	245.8	245.8	245.95	0.019092	2.63	23.98	73.42	0.9
Reach 1	4174.9	100 Year	16.39	244.26	245.15	245.15	245.31	0.014126	2.5	15.27	50.87	0.98
Reach 1	4174.9	Hazel	25.46	244.26	245.28	245.28	245.44	0.012978	2.69	22.71	65.69	0.96
Reach 1	4174.9	Hazel w CC	31.13	244.26	245.35	245.35	245.5	0.011921	2.73	27.91	76.54	0.93
Reach 1	4145	100 Year	16.39	243.97	244.31	244.2	244.35	0.015062	1.21	17.84	64.55	0.79
Reach 1	4145	Hazel	25.46	243.97	244.4	244.27	244.46	0.015243	1.48	24.26	73.99	0.82
Reach 1	4145	Hazel w CC	31.13	243.97	244.45	244.32	244.52	0.015622	1.63	27.87	75.35	0.84
Reach 1	4116	100 Year	16.39	243.73	243.94	243.82	243.97	0.011344	0.35	21.49	80.37	0.3
Reach 1	4116	Hazel	25.46	243.73	244.03	243.89	244.07	0.011649	0.49	28.79	85.2	0.33
Reach 1	4116	Hazel w CC	31.13	243.73	244.08	243.93	244.13	0.011562	0.56	33.26	93.52	0.34
Reach 1	4077.6	100 Year	16.39	243.06	243.46	243.34	243.48	0.015295	0.86	23.77	97.9	0.62
Reach 1	4077.6	Hazel	25.46	243.06	243.53	243.4	243.57	0.015545	1.1	31.5	105.7	0.67
Reach 1	4077.6	Hazel w CC	31.13	243.06	243.57	243.43	243.61	0.016107	1.24	35.92	107.47	0.71
Reach 1	4038.9	100 Year	16.39	242.15	242.26	242.25	242.35	0.075777	1.21	12.26	67.52	1.56
Reach 1	4038.9	Hazel	25.46	242.15	242.33	242.33	242.43	0.073098	1.72	17.85	85.25	1.67
Reach 1	4038.9	Hazel w CC	31.13	242.15	242.36	242.36	242.48	0.068459	1.88	21	89.48	1.66
Reach 1	4010.8	100 Year	16.39	241.53	241.57	241.4	241.59	0.013195	0.27	24.21	78.93	0.56
Reach 1	4010.8	Hazel	25.46	241.53	241.68	241.47	241.71	0.011703	0.66	34.48	109.08	0.68
Reach 1	4010.8	Hazel w CC	31.13	241.53	241.71	241.51	241.75	0.013015	0.81	38.49	119.98	0.74
Reach 1	3974	100 Year	16.39	240.69	240.83	240.75	240.88	0.032196	0.59	16.08	68.11	0.7
Reach 1	3974	Hazel	25.46	240.69	240.88	240.83	240.96	0.044528	0.86	19.88	81.86	0.88
Reach 1	3974	Hazel w CC	31.13	240.69	240.94	240.88	241.02	0.034557	0.9	25.45	96.2	0.81
Reach 1	3934.7	100 Year	16.39	239.92	240.09	239.92	240.11	0.012468	0.66	25.05	102.48	0.67
Reach 1	3934.7	Hazel	25.46	239.92	240.22	240	240.24	0.009552	0.81	40.03	140	0.66
Reach 1	3934.7	Hazel w CC	31.13	239.92	240.25	240.05	240.27	0.01146	0.94	44.32	149.69	0.8
Reach 1	3877.1	100 Year	16.39	239.11	239.55	239.36	239.57	0.007612	0.47	31.05	100.84	0.28
Reach 1	3877.1	Hazel	25.46	239.11	239.6	239.42	239.62	0.012269	0.66	35.25	101.45	0.37
Reach 1	3877.1	Hazel w CC	31.13	239.11	239.69	239.45	239.71	0.008463	0.65	44.91	103.62	0.32
Reach 1	3837	100 Year	14.79	238.53	238.89	238.89	238.99	0.039536	2.41	12.62	57.45	1.44

Reach 1	3837	Hazel	25.63	238.53	239.44	238.98	239.46	0.00201	1.08	45.01	60.92	0.38
Reach 1	3837	Hazel w CC	31.38	238.53	239.55	239.02	239.57	0.001871	1.13	52.17	63.08	0.37
Reach 1	3805	100 Year	14.79	237.93	238.82	238.36	238.83	0.001159	0.64	35.58	59.84	0.24
Reach 1	3805	Hazel	25.63	237.93	239.42	238.47	239.43	0.000358	0.52	73.27	63.78	0.14
Reach 1	3805	Hazel w CC	31.38	237.93	239.54	238.52	239.55	0.000395	0.58	80.61	64.26	0.15
Reach 1	3769.6	100 Year	14.79	237.52	238.72	238.17	238.78	0.001509	1.12	14.52	36.07	0.35
Reach 1	3769.6	Hazel	25.63	237.52	239.33	238.39	239.4	0.001116	1.31	23.66	61.64	0.33
Reach 1	3769.6	Hazel w CC	31.38	237.52	239.41	238.49	239.51	0.001936	1.78	26.82	63.51	0.44
Reach 1	Sproule Drive		Culvert									
Reach 1	3739	100 Year	14.79	237.28	237.96	237.96	238.21	0.016661	2.45	6.76	41.33	1.06
Reach 1	3739	Hazel	25.63	237.28	238.18	238.18	238.55	0.01517	2.94	9.65	43.96	1.07
Reach 1	3739	Hazel w CC	31.38	237.28	238.29	238.29	238.71	0.014139	3.11	11.12	44.33	1.06
Reach 1	3689	100 Year	14.79	236.79	237.08	237.08	237.16	0.021294	1.24	14.9	103.42	0.98
Reach 1	3689	Hazel	25.63	236.79	237.16	237.16	237.25	0.020327	1.57	23.78	120.57	1.02
Reach 1	3689	Hazel w CC	31.38	236.79	237.19	237.19	237.29	0.020841	1.71	27.32	125.36	1.06
Reach 1	3600.2	100 Year	14.79	235.21	235.85	235.54	235.85	0.000814	0.38	81.17	311.31	0.18
Reach 1	3600.2	Hazel	25.63	235.21	236	235.61	236	0.000692	0.41	132.62	378.94	0.17
Reach 1	3600.2	Hazel w CC	31.38	235.21	236.04	235.64	236.04	0.000725	0.44	149.96	385.86	0.17
Reach 1	3535	100 Year	13.06	234.78	235.85	235.09	235.85	0.000026	0.13	244.1	399	0.05
Reach 1	3535	Hazel	26.17	234.78	235.99	235.18	235.99	0.000051	0.21	305.19	458.63	0.07
Reach 1	3535	Hazel w CC	32.07	234.78	236.03	235.2	236.03	0.000063	0.24	325.77	476.96	0.07
Reach 1	3513	100 Year	13.06	234.66	235.85	234.91	235.85	0.000004	0.05	413.38	564.56	0.02
Reach 1	3513	Hazel	26.17	234.66	235.99	234.97	235.99	0.000009	0.08	493.87	567.54	0.02
Reach 1	3513	Hazel w CC	32.07	234.66	236.03	235	236.03	0.000012	0.09	518.9	569.72	0.03
Reach 1	3480	100 Year	13.06	234.73	235.85	234.94	235.85	0.000004	0.06	391.52	577.57	0.02
Reach 1	3480	Hazel	26.17	234.73	235.99	235	235.99	0.000009	0.09	475.04	594.54	0.03
Reach 1	3480	Hazel w CC	32.07	234.73	236.03	235.02	236.03	0.000011	0.11	501.15	594.54	0.03
Reach 1	3453.03	100 Year	14.84	234.69	235.85	235.02	235.85	0.000008	0.08	263.1	374.73	0.03
Reach 1	3453.03	Hazel	29.36	234.69	235.99	235.09	235.99	0.000018	0.13	316.9	381.69	0.04
Reach 1	3453.03	Hazel w CC	35.93	234.69	236.03	235.11	236.03	0.000022	0.15	333.57	381.99	0.04
Reach 1	3334	100 Year	14.84	234.42	235.83	235.62	235.84	0.000454	0.48	39.59	178.01	0.16
Reach 1	3334	Hazel	29.36	234.42	235.97	235.74	235.98	0.000389	0.48	64.46	192.71	0.15
Reach 1	3334	Hazel w CC	35.93	234.42	236.01	235.78	236.02	0.000407	0.51	73.1	229.09	0.16
Reach 1	3325		Culvert									
Reach 1	3312	100 Year	14.84	234.64	235.82		235.83	0.000465	0.5	37.32	154.74	0.17
Reach 1	3312	Hazel	29.36	234.64	235.96		235.97	0.000428	0.52	59.19	168.59	0.16
Reach 1	3312	Hazel w CC	35.93	234.64	236		236.02	0.000431	0.54	67.07	170.6	0.17
Reach 1	3235	100 Year	14.84	234.28	235.78	235.23	235.79	0.000479	0.52	33.29	118.5	0.17
Reach 1	3235	Hazel	29.36	234.28	235.91	235.68	235.93	0.000551	0.6	49.21	122.55	0.18
Reach 1	3235	Hazel w CC	35.93	234.28	235.96	235.71	235.98	0.000581	0.63	54.45	122.73	0.19
Reach 1	3225		Culvert									
Reach 1	3214	100 Year	14.84	234.25	235.24	235.24	235.52	0.015925	2.39	6.57	12.16	0.94
Reach 1	3214	Hazel	29.36	234.25	235.72	235.72	235.83	0.003886	1.71	21.36	76.28	0.54
Reach 1	3214	Hazel w CC	35.93	234.25	235.76	235.76	235.88	0.003935	1.77	24.68	87.95	0.54
Reach 1	3155.2	100 Year	14.84	234.1	234.73	234.65	234.76	0.002427	0.74	21.64	120.35	0.35
Reach 1	3155.2	Hazel	29.36	234.1	234.92	234.74	234.94	0.000975	0.54	48.77	171.61	0.22
Reach 1	3155.2	Hazel w CC	35.93	234.1	235.01	234.77	235.03	0.000628	0.45	66.33	233.19	0.18
Reach 1	Dunlop Street W		Culvert									
Reach 1	3068	100 Year	14.84	233.75	234.73	234.58	234.74	0.000752	0.54	35.28	139.42	0.21
Reach 1	3068	Hazel	29.36	233.75	234.92	234.65	234.93	0.000537	0.53	61.67	144.01	0.18

Reach 1	3068	Hazel w CC	35.93	233.75	235.01	234.67	235.02	0.000431	0.5	75.08	146.96	0.16
Reach 1	3058	100 Year	14.84	233.62	234.72		234.73	0.001188	0.86	36.5	205.88	0.31
Reach 1	3058	Hazel	29.36	233.62	234.91		234.92	0.000849	0.84	69.07	470.03	0.27
Reach 1	3058	Hazel w CC	35.93	233.62	235		235.02	0.00054	0.72	87.36	566.07	0.22
Reach 1	3035.1	100 Year	14.84	233.48	234.71		234.71	0.000414	0.56	78.75	336.29	0.18
Reach 1	3035.1	Hazel	29.36	233.48	234.9		234.91	0.000529	0.71	112.02	369.09	0.21
Reach 1	3035.1	Hazel w CC	35.93	233.48	235		235	0.00046	0.7	131.44	393.04	0.2
Reach 1	3004.9	100 Year	14.84	233.12	234.69		234.7	0.000467	0.6	57.38	341.86	0.18
Reach 1	3004.9	Hazel	29.36	233.12	234.87		234.89	0.000649	0.78	80.83	361.43	0.22
Reach 1	3004.9	Hazel w CC	35.93	233.12	234.97		234.99	0.000565	0.76	95.06	375.14	0.2
Reach 1	2986	100 Year	14.84	233.08	234.61		234.68	0.003511	1.31	12.8	277.47	0.4
Reach 1	2986	Hazel	29.36	233.08	234.75		234.86	0.003885	1.5	20.31	312.16	0.43
Reach 1	2986	Hazel w CC	35.93	233.08	234.91		234.97	0.001638	1.05	34.09	361.35	0.28
Reach 1	2963.8	100 Year	14.84	232.98	234.62		234.64	0.000735	0.73	24.6	331.27	0.2
Reach 1	2963.8	Hazel	29.36	232.98	234.77		234.81	0.001045	0.93	34.5	343.83	0.24
Reach 1	2963.8	Hazel w CC	35.93	232.98	234.91		234.94	0.000753	0.84	45.52	367.2	0.21
Reach 1	2933.1	100 Year	37.12	232.78	234.35	234.28	234.55	0.006042	1.93	19.32	266.79	0.57
Reach 1	2933.1	Hazel	49.85	232.78	234.41	234.41	234.71	0.007787	2.27	21.86	292.94	0.65
Reach 1	2933.1	Hazel w CC	64.97	232.78	234.58	234.58	234.87	0.005098	2.01	31.19	346.37	0.54
Reach 1	2904.1	100 Year	37.12	231.8	234.4	233.72	234.45	0.001194	1.08	38.05	330.58	0.27
Reach 1	2904.1	Hazel	49.85	231.8	234.47	234.26	234.54	0.001399	1.21	45.97	342.39	0.29
Reach 1	2904.1	Hazel w CC	64.97	231.8	234.55	234.34	234.63	0.001571	1.32	54.81	346.08	0.31
Reach 1	Ferndale Drive N		Culvert									
Reach 1	2870.2	100 Year	37.12	231.6	234.28		234.36	0.000795	1.57	38.07	311.83	0.37
Reach 1	2870.2	Hazel	49.85	231.6	234.38		234.46	0.000853	1.68	47.26	336.88	0.38
Reach 1	2870.2	Hazel w CC	64.97	231.6	234.46		234.56	0.000939	1.81	56.36	355.76	0.4
Reach 1	2829	100 Year	37.12	232.58	234.3		234.31	0.000687	0.84	96.32	302.45	0.22
Reach 1	2829	Hazel	49.85	232.58	234.39		234.41	0.000804	0.95	110.98	328.04	0.24
Reach 1	2829	Hazel w CC	64.97	232.58	234.48		234.5	0.000954	1.07	125.08	366.24	0.27
Reach 1	2795	100 Year	37.12	232.6	234.21		234.27	0.001793	1.32	36.99	229.88	0.38
Reach 1	2795	Hazel	49.85	232.6	234.3		234.37	0.001778	1.38	46.67	262.69	0.39
Reach 1	2795	Hazel w CC	64.97	232.6	234.37		234.45	0.001809	1.45	56.46	284.51	0.39
Reach 1	2745	100 Year	37.12	232.16	234.03		234.14	0.004024	1.64	25.66	158.87	0.42
Reach 1	2745	Hazel	49.85	232.16	234.11	234.06	234.24	0.004048	1.7	33.14	205.93	0.43
Reach 1	2745	Hazel w CC	64.97	232.16	234.19		234.32	0.003891	1.72	40.91	222.56	0.42
Reach 1	2708.7	100 Year	37.12	232.05	233.96		234.03	0.002217	1.29	31.9	144.32	0.33
Reach 1	2708.7	Hazel	49.85	232.05	234.03		234.12	0.002377	1.38	38.67	174.79	0.35
Reach 1	2708.7	Hazel w CC	64.97	232.05	234.09		234.2	0.002847	1.55	43.88	203.68	0.38
Reach 1	2680	100 Year	37.12	231.83	233.98		234	0.000275	0.58	64.41	205.59	0.14
Reach 1	2680	Hazel	49.85	231.83	234.07		234.09	0.000305	0.63	77.11	249.29	0.15
Reach 1	2680	Hazel w CC	64.97	231.83	234.13		234.16	0.000357	0.7	88.51	276.62	0.17
Reach 1	2643	100 Year	37.12	231.58	233.96		233.99	0.000527	0.88	53.8	303.91	0.2
Reach 1	2643	Hazel	49.85	231.58	234.05		234.08	0.000527	0.9	70.31	378.07	0.2
Reach 1	2643	Hazel w CC	64.97	231.58	234.11		234.15	0.000547	0.94	83.86	394.06	0.21
Reach 1	2600	100 Year	41.07	231.23	233.46	233.46	233.9	0.009297	3.07	15.05	45.33	0.77
Reach 1	2600	Hazel	53.18	231.23	233.82	233.82	234.02	0.003993	2.3	31.33	225.64	0.52
Reach 1	2600	Hazel w CC	64.66	231.23	233.9	233.9	234.09	0.003904	2.33	38.34	258.65	0.52
Reach 1	2574	100 Year	41.07	231.17	233.52	233.37	233.56	0.001219	1.24	56.61	276.59	0.32
Reach 1	2574	Hazel	53.18	231.17	233.57	233.42	233.62	0.001374	1.35	65.41	290.65	0.34
Reach 1	2574	Hazel w CC	64.66	231.17	233.67	233.48	233.7	0.001033	1.21	82.93	321.05	0.3
Reach 1	Sarjeant Drive		Culvert									

Reach 1	1765	100 Year	43.37	226.67	228.92	228.34	228.94	0.000324	0.71	62.5	73.49	0.16
Reach 1	1765	Hazel	56.57	226.67	229.09	228.42	229.11	0.00032	0.74	75.32	81.25	0.17
Reach 1	1765	Hazel w CC	68.3	226.67	229.19	228.48	229.22	0.000341	0.79	84	85.86	0.17
Reach 1	1735	100 Year	43.37	226.65	228.89	228.24	228.93	0.000908	1.23	61.28	99.02	0.28
Reach 1	1735	Hazel	56.57	226.65	229.06	228.36	229.1	0.000768	1.2	82.64	123.48	0.26
Reach 1	1735	Hazel w CC	68.3	226.65	229.17	228.46	229.21	0.000712	1.19	96.31	124.7	0.25
Reach 1	1706	100 Year	43.37	226.38	228.88	228.03	228.91	0.000434	0.91	70.16	76.3	0.2
Reach 1	1706	Hazel	56.57	226.38	229.05	228.17	229.08	0.000456	0.98	83.16	77	0.2
Reach 1	1706	Hazel w CC	68.3	226.38	229.16	228.25	229.19	0.000503	1.06	91.42	80.48	0.21
Reach 1	1678	100 Year	44.1	226.25	228.87	227.81	228.9	0.000233	0.66	62.06	75.24	0.14
Reach 1	1678	Hazel	58.7	226.25	229.04	227.94	229.07	0.000263	0.73	74.89	77.14	0.15
Reach 1	1678	Hazel w CC	70.86	226.25	229.14	228.04	229.18	0.000295	0.8	82.97	80.31	0.16
Reach 1	1646	100 Year	44.1	225.61	228.86	228.43	228.89	0.000532	1	84.82	119.29	0.22
Reach 1	1646	Hazel	58.7	225.61	229.03	228.52	229.06	0.000519	1.04	106.33	132.4	0.23
Reach 1	1646	Hazel w CC	70.86	225.61	229.14	228.57	229.17	0.00054	1.1	120.55	141.66	0.23
Reach 1	George Street		Culvert									
Reach 1	1621	100 Year	44.1	225.63	228.61	228.61	228.88	0.006971	2.85	28.34	46.23	0.68
Reach 1	1621	Hazel	58.7	225.63	228.78	228.78	229.05	0.006808	2.99	36.86	56.7	0.68
Reach 1	1621	Hazel w CC	70.86	225.63	228.9	228.9	229.15	0.006384	3.02	44.48	67.2	0.67
Reach 1	1588	100 Year	44.1	225.61	227.96	226.53	227.99	0.000591	0.99	62.6	38.93	0.21
Reach 1	1588	Hazel	58.7	225.61	228.08	226.68	228.13	0.000855	1.24	67.53	40.16	0.26
Reach 1	1588	Hazel w CC	70.86	225.61	228.18	226.79	228.24	0.001073	1.42	71.5	41.97	0.29
Reach 1	1554	100 Year	44.1	225.48	227.88	226.73	227.96	0.001504	1.49	39.83	29.78	0.32
Reach 1	1554	Hazel	58.7	225.48	227.96	226.93	228.08	0.002315	1.9	42.69	40.24	0.39
Reach 1	1554	Hazel w CC	70.86	225.48	228.02	227.08	228.18	0.003046	2.21	45.21	43.72	0.45
Reach 1	1528	100 Year	44.1	225.41	227.9	226.44	227.93	0.000481	1.12	70.05	47.08	0.23
Reach 1	1528	Hazel	58.7	225.41	227.99	226.6	228.04	0.000727	1.41	74.46	47.83	0.29
Reach 1	1528	Hazel w CC	70.86	225.41	228.06	226.73	228.13	0.00095	1.64	77.73	48.55	0.33
Reach 1	1468	100 Year	44.1	225.49	227.92	225.94	227.92	0.000034	0.3	190.49	108.42	0.06
Reach 1	1468	Hazel	58.7	225.49	228.02	226.03	228.03	0.000052	0.38	201.74	109.29	0.08
Reach 1	1468	Hazel w CC	70.86	225.49	228.1	226.1	228.11	0.000068	0.44	210.26	109.99	0.09
Reach 1	1431	100 Year	44.28	225.49	227.92	225.94	227.92	0.000034	0.3	180.33	93.73	0.06
Reach 1	1431	Hazel	58.89	225.49	228.02	226.02	228.02	0.000052	0.38	189.98	94.49	0.08
Reach 1	1431	Hazel w CC	71.13	225.49	228.1	226.08	228.1	0.000068	0.44	197.26	100.59	0.09
Reach 1	1404	100 Year	44.28	225.46	227.89	226.43	227.91	0.00029	0.83	80.93	93.47	0.18
Reach 1	1404	Hazel	58.89	225.46	227.98	226.6	228.02	0.000412	1.02	89.1	103.24	0.21
Reach 1	1404	Hazel w CC	71.13	225.46	228.05	226.73	228.09	0.000515	1.16	95.23	113.82	0.24
Reach 1	Victoria Street		Culvert									
Reach 1	1374	100 Year	44.28	224.61	226.06		226.23	0.00315	1.91	24.33	41.25	0.53
Reach 1	1374	Hazel	58.89	224.61	226.25		226.48	0.003375	2.17	28.28	42.61	0.56
Reach 1	1374	Hazel w CC	71.13	224.61	226.7		226.88	0.001988	1.98	37.13	53.21	0.45
Reach 1	1326	100 Year	44.28	224.01	226.08		226.11	0.001102	1.23	68.57	48.7	0.28
Reach 1	1326	Hazel	58.89	224.01	226.29		226.34	0.001262	1.41	79.57	51.17	0.3
Reach 1	1326	Hazel w CC	71.13	224.01	226.75		226.79	0.000895	1.34	104.69	60.75	0.26
Reach 1	1289	100 Year	44.28	223.73	226.07		226.09	0.000329	0.79	95.98	54.63	0.17
Reach 1	1289	Hazel	58.89	223.73	226.29		226.31	0.000411	0.94	108.29	57.55	0.19
Reach 1	1289	Hazel w CC	71.13	223.73	226.75		226.76	0.000313	0.92	135.85	62.71	0.17
Reach 1	1242	100 Year	44.28	223.58	226.06		226.07	0.000182	0.55	125.76	72	0.11
Reach 1	1242	Hazel	58.89	223.58	226.28		226.29	0.00023	0.66	141.71	74.28	0.13
Reach 1	1242	Hazel w CC	71.13	223.58	226.74		226.75	0.000176	0.64	177.36	88.7	0.12
Reach 1	1218	100 Year	44.28	223.18	226.06		226.07	0.000076	0.4	148.99	70.79	0.08

Reach 1	1218	Hazel	58.89	223.18	226.28		226.29	0.0001	0.48	164.6	72.73	0.09
Reach 1	1218	Hazel w CC	71.13	223.18	226.74		226.75	0.000084	0.49	198.86	77.55	0.08
Reach 1	1192	100 Year	44.28	223.06	226.06		226.07	0.000054	0.42	180.26	94.76	0.08
Reach 1	1192	Hazel	58.89	223.06	226.28		226.29	0.00007	0.51	201.1	96.45	0.09
Reach 1	1192	Hazel w CC	71.13	223.06	226.74		226.75	0.000057	0.5	246.18	99.74	0.08
Reach 1	1168	100 Year	44.28	222.78	226.06		226.07	0.000032	0.34	198.45	98.91	0.06
Reach 1	1168	Hazel	58.89	222.78	226.28		226.29	0.000041	0.4	220.08	99.6	0.07
Reach 1	1168	Hazel w CC	71.13	222.78	226.74		226.75	0.000033	0.39	266.16	101.22	0.06
Reach 1	1153	100 Year	45.43	222.73	226.06		226.07	0.000029	0.3	204.98	107.22	0.05
Reach 1	1153	Hazel	61.04	222.73	226.28		226.29	0.000037	0.35	228.47	108.38	0.06
Reach 1	1153	Hazel w CC	73.74	222.73	226.74		226.75	0.000028	0.33	278.74	110.42	0.05
Reach 1	1113	100 Year	45.43	222.63	225.91	224.62	226.04	0.001273	1.92	50.88	116.53	0.38
Reach 1	1113	Hazel	61.04	222.63	225.26	225.01	226.15	0.006485	4.29	14.75	70.65	0.86
Reach 1	1113	Hazel w CC	73.74	222.63	225.31	225.31	226.55	0.008839	5.08	15.06	73.19	1
Reach 1	Anne Street		Culvert									
Reach 1	957	100 Year	45.43	222.09	224.53		225.04	0.003859	3.16	14.36	53.8	0.65
Reach 1	957	Hazel	61.04	222.09	224.67		225.49	0.00579	4.02	15.18	59.8	0.81
Reach 1	957	Hazel w CC	73.74	222.09	224.76	224.62	225.88	0.00753	4.69	15.71	60.4	0.93
Reach 1	929	100 Year	45.43	222.1	224.81		224.89	0.000818	1.56	50.42	59.26	0.31
Reach 1	929	Hazel	61.04	222.1	225.18		225.26	0.000733	1.61	73.87	76.85	0.3
Reach 1	929	Hazel w CC	73.74	222.1	225.51		225.58	0.000597	1.55	98.59	110.7	0.27
Reach 1	882	100 Year	45.43	221.83	224.72		224.84	0.001708	1.82	43.79	84.54	0.35
Reach 1	882	Hazel	61.04	221.83	225.15	223.94	225.22	0.001052	1.57	82.38	100.62	0.28
Reach 1	882	Hazel w CC	73.74	221.83	225.5		225.54	0.000658	1.33	118.47	104.42	0.23
Reach 1	831	100 Year	45.43	221.79	224.16	223.92	224.65	0.008771	3.48	17.6	11.82	0.73
Reach 1	831	Hazel	61.04	221.79	224.22	224.22	225.05	0.014199	4.5	18.37	12.1	0.94
Reach 1	831	Hazel w CC	73.74	221.79	224.31	224.31	225.4	0.017677	5.16	19.55	13.04	1.05
Reach 1	792	100 Year	45.43	221.53	224.47		224.52	0.000644	1.25	66.47	65.84	0.24
Reach 1	792	Hazel	61.04	221.53	224.62		224.69	0.000836	1.48	76.57	67.21	0.27
Reach 1	792	Hazel w CC	73.74	221.53	224.71		224.8	0.001013	1.66	82.66	67.99	0.3
Reach 1	752	100 Year	45.43	221.4	224.48		224.5	0.00034	0.82	112.61	72.11	0.15
Reach 1	752	Hazel	61.04	221.4	224.64		224.66	0.000467	1	123.87	73.86	0.18
Reach 1	752	Hazel w CC	73.74	221.4	224.73		224.76	0.000583	1.14	130.67	74	0.2
Reach 1	718	100 Year	45.43	221.4	224.47		224.49	0.000263	0.84	104.04	67.37	0.16
Reach 1	718	Hazel	61.04	221.4	224.62		224.65	0.000369	1.03	114.21	69.79	0.19
Reach 1	718	Hazel w CC	73.74	221.4	224.71		224.74	0.000465	1.18	120.33	70.59	0.21
Reach 1	698	100 Year	44.61	221.29	224.43		224.48	0.000487	1.33	62.66	37.47	0.24
Reach 1	698	Hazel	61.69	221.29	224.55		224.63	0.000783	1.73	67.15	38.06	0.31
Reach 1	698	Hazel w CC	74.79	221.29	224.61		224.72	0.001058	2.03	69.42	38.33	0.36
Reach 1	681	100 Year	44.61	221.21	224.3	224.22	224.45	0.007924	2.18	37.93	74.25	0.55
Reach 1	681	Hazel	61.69	221.21	224.32	224.32	224.57	0.014028	2.92	39.12	74.72	0.73
Reach 1	681	Hazel w CC	74.79	221.21	224.47	224.4	224.67	0.010497	2.71	51.02	80.14	0.65
Reach 1	Innisfil Street		Culvert									
Reach 1	656	100 Year	44.61	221.57	224.16	224.16	224.35	0.004384	2.46	43.39	116.72	0.61
Reach 1	656	Hazel	61.69	221.57	224.27	224.27	224.47	0.004885	2.7	55.71	121.61	0.65
Reach 1	656	Hazel w CC	74.79	221.57	224.55		224.63	0.002088	1.95	91.66	128.6	0.43
Reach 1	610	100 Year	44.61	221.04	224.25		224.25	0.000151	0.4	172.66	128.81	0.07
Reach 1	610	Hazel	61.69	221.04	224.27		224.27	0.000275	0.55	175.51	129.09	0.1
Reach 1	610	Hazel w CC	74.79	221.04	224.58		224.59	0.000215	0.51	217.34	135.26	0.09
Reach 1	601	100 Year	44.48	221.02	224.23		224.25	0.000505	0.89	95.2	112.05	0.16
Reach 1	601	Hazel	61.78	221.02	224.23		224.27	0.000958	1.22	95.88	112.43	0.22

Reach 1	601	Hazel w CC	74.88	221.02	224.56		224.59	0.00054	0.98	137.43	131.6	0.17
Reach 1	559	100 Year	44.48	220.97	223.04	223.04	224.04	0.01299	4.44	10.03	16.9	1
Reach 1	559	Hazel	61.78	220.97	223.83	223.83	224.15	0.004623	2.97	42.18	74.33	0.61
Reach 1	559	Hazel w CC	74.88	220.97	224.5	223.98	224.55	0.000869	1.52	108.33	125.47	0.28
Reach 1	Sanford Street		Culvert									
Reach 1	532	100 Year	44.48	220.01	222.31	222.31	223.31	0.00991	4.52	10.14	12.75	0.99
Reach 1	532	Hazel	61.78	220.01	222.8	222.8	224.04	0.009359	5.04	12.58	14.78	0.99
Reach 1	532	Hazel w CC	74.88	220.01	223.14	223.14	224.56	0.00904	5.37	14.27	18.61	1
Reach 1	500	100 Year	44.48	219.75	222.54		222.7	0.001375	2.04	31.68	31.46	0.4
Reach 1	500	Hazel	61.78	219.75	222.68		222.94	0.002072	2.6	36.52	36.2	0.49
Reach 1	500	Hazel w CC	74.88	219.75	222.99		223.22	0.001799	2.59	49.77	52.01	0.46
Reach 1	474	100 Year	45	219.74	222.63		222.66	0.000373	1.08	68.21	64.13	0.21
Reach 1	474	Hazel	63.02	219.74	222.84		222.88	0.000478	1.28	81.79	68.84	0.24
Reach 1	474	Hazel w CC	76.34	219.74	223.13		223.17	0.000384	1.22	103.46	76.51	0.22
Reach 1	442	100 Year	45	219.32	222.57	221.41	222.64	0.000626	1.48	43.43	71.9	0.27
Reach 1	442	Hazel	63.02	219.32	222.79	221.79	222.86	0.000553	1.46	59.68	75.18	0.26
Reach 1	442	Hazel w CC	76.34	219.32	223.11	222.48	223.16	0.000305	1.15	84.12	78.73	0.19
Reach 1	Bradford Street		Culvert									
Reach 1	338	100 Year	45	219.07	221.11	221.11	222.01	0.011783	4.31	10.8	39.8	0.99
Reach 1	338	Hazel	63.02	219.07	221.57	221.57	222.69	0.011	4.78	13.53	51.83	0.99
Reach 1	338	Hazel w CC	76.34	219.07	221.85	221.85	223.15	0.010973	5.14	15.2	62.55	1.01
Reach 1	304	100 Year	45	219.08	220.59		220.73	0.005747	2.01	29.74	68.71	0.59
Reach 1	304	Hazel	63.02	219.08	220.79		220.91	0.004059	1.88	44.32	115.67	0.51
Reach 1	304	Hazel w CC	76.34	219.08	220.9		221.02	0.00366	1.88	52.63	130.29	0.49
Reach 1	267	100 Year	45	219	220.62		220.65	0.000835	1.08	74.51	94.49	0.28
Reach 1	267	Hazel	63.02	219	220.81		220.84	0.000859	1.19	93.58	128.12	0.29
Reach 1	267	Hazel w CC	76.34	219	220.92		220.95	0.000867	1.24	106.26	157.37	0.3
Reach 1	218	100 Year	45	218.97	220.58		220.61	0.000777	0.97	74.05	85.71	0.26
Reach 1	218	Hazel	63.02	218.97	220.77		220.8	0.000836	1.09	90.98	99.51	0.27
Reach 1	218	Hazel w CC	76.34	218.97	220.87		220.91	0.000874	1.16	103.17	130.9	0.28
Reach 1	197.5	100 Year	45	218.86	220.58		220.59	0.000516	0.75	82.96	93.56	0.2
Reach 1	197.5	Hazel	63.02	218.86	220.76		220.78	0.000642	0.91	96.05	146.65	0.23
Reach 1	197.5	Hazel w CC	76.34	218.86	220.86		220.89	0.000725	1	105.03	164.88	0.25
Reach 1	170	100 Year	45.8	218.73	220.32	220.32	220.55	0.006503	2.89	34.62	117.91	0.78
Reach 1	170	Hazel	64.16	218.73	220.47	220.47	220.73	0.007181	3.24	44.53	148.37	0.83
Reach 1	170	Hazel w CC	77.69	218.73	220.52	220.52	220.83	0.008481	3.6	48.41	165.85	0.91
Reach 1	147	100 Year	45.8	217.81	219.48	218.82	219.65	0.002086	1.81	25.79	293.4	0.45
Reach 1	147	Hazel	64.16	217.81	219.93	219.06	220.12	0.001826	1.98	32.92	301.74	0.44
Reach 1	147	Hazel w CC	77.69	217.81	220.45	219.22	220.52	0.000779	1.36	134.59	309.9	0.29
Reach 1	Lakeshore Drive		Bridge									
Reach 1	108.1	100 Year	45.8	217.73	219.38		219.53	0.002496	1.72	26.66	23.76	0.44
Reach 1	108.1	Hazel	64.16	217.73	219.59		219.82	0.003209	2.12	30.27	25.29	0.51
Reach 1	108.1	Hazel w CC	77.69	217.73	219.76		220.04	0.003502	2.35	33.08	26.36	0.54
Reach 1	56	100 Year	45.8	217.5	219.18	218.55	219.33	0.006233	1.74	26.98	22.38	0.46
Reach 1	56	Hazel	64.16	217.5	219.31	218.81	219.55	0.009064	2.22	29.86	23.12	0.57
Reach 1	56	Hazel w CC	77.69	217.5	219	219	219.59	0.028268	3.41	23.07	21.33	0.97
Reach 1	Pedestrian Bridg		Bridge									
Reach 1	20	100 Year	45.8	217.33	219.05		219.15	0.003385	1.36	34.23	25.5	0.35
Reach 1	20	Hazel	64.16	217.33	218.95		219.17	0.008335	2.04	31.75	24.8	0.54
Reach 1	20	Hazel w CC	77.69	217.33	218.81		219.19	0.017623	2.75	28.25	22.88	0.78

Reach 1	14	100 Year	45.8	217.22	219.13		219.13	0.000025	0.17	404.44	422.7	0.04
Reach 1	14	Hazel	64.16	217.22	219.13		219.13	0.00005	0.24	404.27	422.7	0.06
Reach 1	14	Hazel w CC	77.69	217.22	219.13		219.13	0.000073	0.29	404.11	422.7	0.07
Reach 1	8	100 Year	45.8	216.8	219.13	216.91	219.13	0.000001	0.05	931.95	400	0.01
Reach 1	8	Hazel	64.16	216.8	219.13	216.94	219.13	0.000002	0.07	931.95	400	0.01
Reach 1	8	Hazel w CC	77.69	216.8	219.13	216.96	219.13	0.000003	0.08	931.95	400	0.02

Reach 1	1706.5	100 Year	22.42	229.65	231.68		231.81	0.003154	1.6	13.99	36.05	0.39
Reach 1	1706.5	100 Year w C	22.63	229.65	231.68		231.81	0.003198	1.62	14.01	36.08	0.39
Reach 1	1706.5	Hazel	22.15	229.65	231.68		231.8	0.003075	1.58	13.99	36.05	0.38
Reach 1	1706.5	Hazel w CC	22.33	229.65	231.68		231.81	0.003109	1.59	14.01	36.09	0.38
Reach 1	1675	100 Year	22.42	228.94	231.69		231.71	0.000762	0.76	39.35	39.12	0.19
Reach 1	1675	100 Year w C	22.63	228.94	231.69		231.71	0.000771	0.77	39.46	39.16	0.19
Reach 1	1675	Hazel	22.15	228.94	231.69		231.71	0.000744	0.75	39.34	39.12	0.18
Reach 1	1675	Hazel w CC	22.33	228.94	231.69		231.71	0.000749	0.76	39.48	39.18	0.19
Reach 1	1637	100 Year	22.42	228.78	231.68		231.69	0.00031	0.6	55.96	48.77	0.14
Reach 1	1637	100 Year w C	22.63	228.78	231.68		231.69	0.000314	0.6	56.09	48.81	0.14
Reach 1	1637	Hazel	22.15	228.78	231.68		231.69	0.000303	0.59	55.96	48.77	0.13
Reach 1	1637	Hazel w CC	22.33	228.78	231.68		231.69	0.000305	0.59	56.14	48.83	0.13
Reach 1	1606	100 Year	23.01	228.73	231.67		231.68	0.000235	0.5	61.98	46.78	0.11
Reach 1	1606	100 Year w C	23.28	228.73	231.67		231.68	0.000239	0.5	62.1	46.87	0.11
Reach 1	1606	Hazel	23.09	228.73	231.67		231.68	0.000236	0.5	61.98	46.78	0.11
Reach 1	1606	Hazel w CC	23.45	228.73	231.67		231.68	0.000242	0.51	62.13	46.89	0.11
Reach 1	1573	100 Year	23.01	228.71	231.65	231.29	231.66	0.001208	0.68	55.41	115.19	0.21
Reach 1	1573	100 Year w C	23.28	228.71	231.65	231.3	231.67	0.001217	0.68	55.69	115.47	0.21
Reach 1	1573	Hazel	23.09	228.71	231.65	231.3	231.66	0.001216	0.68	55.39	115.17	0.21
Reach 1	1573	Hazel w CC	23.45	228.71	231.66	231.3	231.67	0.001232	0.68	55.74	115.53	0.21
Reach 1	1475		Culvert									
Reach 1	1375.4	100 Year	23.01	227.54	230.69		231.38	0.003637	3.68	6.26	36.35	0.66
Reach 1	1375.4	100 Year w C	23.28	227.54	230.68		231.39	0.003761	3.73	6.24	35.96	0.67
Reach 1	1375.4	Hazel	23.09	227.54	230.61	229.94	231.34	0.003979	3.78	6.1	31.92	0.69
Reach 1	1375.4	Hazel w CC	23.45	227.54	230.62	229.97	231.37	0.004097	3.84	6.11	32.02	0.7
Reach 1	1351.8	100 Year	23.01	226.89	231.17		231.17	0.000044	0.23	99.79	93.02	0.04
Reach 1	1351.8	100 Year w C	23.28	226.89	231.17		231.18	0.000044	0.23	100.22	93.29	0.04
Reach 1	1351.8	Hazel	23.09	226.89	231.12		231.12	0.000051	0.25	95.14	91.8	0.04
Reach 1	1351.8	Hazel w CC	23.45	226.89	231.14		231.14	0.00005	0.25	96.7	92.12	0.04
Reach 1	1333.7	100 Year	23.01	226.73	231.17		231.17	0.000026	0.17	127.46	109.37	0.03
Reach 1	1333.7	100 Year w C	23.28	226.73	231.17		231.18	0.000026	0.17	127.93	109.58	0.03
Reach 1	1333.7	Hazel	23.09	226.73	231.12		231.12	0.00003	0.18	122.3	105.98	0.03
Reach 1	1333.7	Hazel w CC	23.45	226.73	231.14		231.14	0.000029	0.18	124.04	107.41	0.03
Reach 1	1311.5	100 Year	23.01	226.41	231.17		231.17	0.000012	0.11	182.4	166.84	0.02
Reach 1	1311.5	100 Year w C	23.28	226.41	231.17		231.18	0.000013	0.11	183.08	167.01	0.02
Reach 1	1311.5	Hazel	23.09	226.41	231.12		231.12	0.000014	0.12	174.98	149.99	0.02
Reach 1	1311.5	Hazel w CC	23.45	226.41	231.14		231.14	0.000014	0.12	177.47	157.26	0.02
Reach 1	1290.5	100 Year	23.01	226.24	231.17		231.17	0.000007	0.11	235.84	158.7	0.02
Reach 1	1290.5	100 Year w C	23.28	226.24	231.17		231.17	0.000007	0.11	236.55	159.97	0.02
Reach 1	1290.5	Hazel	23.09	226.24	231.12		231.12	0.000007	0.11	228.24	150.2	0.02
Reach 1	1290.5	Hazel w CC	23.45	226.24	231.14		231.14	0.000007	0.11	230.8	153.11	0.02
Reach 1	1265.1	100 Year	23.01	225.91	231.17		231.17	0.000013	0.11	225.4	198.58	0.02
Reach 1	1265.1	100 Year w C	23.28	225.91	231.17		231.17	0.000013	0.11	226.33	200.02	0.02
Reach 1	1265.1	Hazel	23.09	225.91	231.12		231.12	0.000015	0.12	215.45	195.02	0.02
Reach 1	1265.1	Hazel w CC	23.45	225.91	231.14		231.14	0.000015	0.12	218.8	196.82	0.02
Reach 1	1250.7	100 Year	23.01	225.65	231.17		231.17	0.000012	0.13	300.46	211.69	0.02
Reach 1	1250.7	100 Year w C	23.28	225.65	231.17		231.17	0.000012	0.13	301.44	211.84	0.02
Reach 1	1250.7	Hazel	23.09	225.65	231.12		231.12	0.000013	0.14	289.82	210.07	0.02
Reach 1	1250.7	Hazel w CC	23.45	225.65	231.14		231.14	0.000013	0.14	293.41	210.63	0.02
Reach 1	1233.7	100 Year	31.55	225.62	231.17		231.17	0.000017	0.17	335.66	200.84	0.03
Reach 1	1233.7	100 Year w C	33.39	225.62	231.17		231.17	0.000019	0.18	336.57	200.94	0.03
Reach 1	1233.7	Hazel	28.58	225.62	231.12		231.12	0.000015	0.16	325.66	195.13	0.02
Reach 1	1233.7	Hazel w CC	30.49	225.62	231.14		231.14	0.000017	0.17	329	197.29	0.03
Reach 1	1203	100 Year	31.55	225.44	231.17	227.69	231.17	0.000038	0.29	196.99	124.6	0.05
Reach 1	1203	100 Year w C	33.39	225.44	231.17	227.78	231.17	0.000042	0.3	197.52	124.94	0.05

Reach 1	1203	Hazel	28.58	225.44	231.12	227.55	231.12	0.000034	0.27	190.87	121.13	0.05
Reach 1	1203	Hazel w CC	30.49	225.44	231.13	227.64	231.13	0.000038	0.28	192.9	121.61	0.05
Reach 1	1186	Culvert										
Reach 1	1180	100 Year	31.55	224.58	229.36		229.37	0.000077	0.79	74.46	117.69	0.19
Reach 1	1180	100 Year w C	33.39	224.58	229.42		229.43	0.000066	0.74	81.61	117.99	0.17
Reach 1	1180	Hazel	28.58	224.58	229.24		229.26	0.000114	0.91	60.23	116.77	0.22
Reach 1	1180	Hazel w CC	30.49	224.58	229.3		229.32	0.000093	0.84	68	117.35	0.2
Reach 2	1878	100 Year	0.1	233.69	234.66		234.66	0	0	180.49	285.92	0
Reach 2	1878	100 Year w C	0.1	233.69	234.82		234.82	0	0	227.07	309.25	0
Reach 2	1878	Hazel	0.1	233.69	234.43		234.43	0	0	117.42	266.02	0
Reach 2	1878	Hazel w CC	0.1	233.69	234.59		234.59	0	0	159.85	282.33	0
Reach 2	1838	100 Year	20.85	233.76	234.66		234.66	0.000012	0.2	137.56	277.97	0.07
Reach 2	1838	100 Year w C	28.45	233.76	234.82		234.82	0.000011	0.21	185.15	317.56	0.07
Reach 2	1838	Hazel	11.64	233.76	234.43		234.43	0.000001	0.15	84.81	195.7	0.06
Reach 2	1838	Hazel w CC	17.7	233.76	234.58		234.59	0.000001	0.18	118.45	244.94	0.07
Reach 2	1799	100 Year	20.85	233.9	234.65		234.66	0.000004	0.32	89.78	220.47	0.13
Reach 2	1799	100 Year w C	28.45	233.9	234.81		234.82	0.000033	0.34	131.93	290.9	0.12
Reach 2	1799	Hazel	11.64	233.9	234.43		234.43	0.000049	0.27	48.34	128.39	0.13
Reach 2	1799	Hazel w CC	17.7	233.9	234.58		234.58	0.000044	0.31	74.63	200.74	0.13
Reach 2	1763	100 Year	20.85	233.94	234.65		234.66	0.000029	0.26	118.15	250.06	0.11
Reach 2	1763	100 Year w C	28.45	233.94	234.81		234.82	0.000025	0.28	160.8	279.98	0.1
Reach 2	1763	Hazel	11.64	233.94	234.43		234.43	0.000032	0.2	68.81	173.44	0.1
Reach 2	1763	Hazel w CC	17.7	233.94	234.58		234.58	0.000031	0.25	100.88	227.1	0.11
Reach 2	1721	100 Year	20.85	233.76	234.52	234.36	234.64	0.001411	1.64	15.43	222.47	0.64
Reach 2	1721	100 Year w C	28.45	233.76	234.64	234.46	234.8	0.001481	1.88	18.56	252.5	0.67
Reach 2	1721	Hazel	11.64	233.76	234.34	234.21	234.42	0.001287	1.28	10.83	195.87	0.58
Reach 2	1721	Hazel w CC	17.7	233.76	234.46	234.31	234.57	0.001382	1.53	13.96	217.62	0.63
Reach 2	1675	Bridge										
Reach 2	1626	100 Year	20.85	233.19	233.8	233.8	234.03	0.002557	2.23	10.92	179.35	0.97
Reach 2	1626	100 Year w C	28.45	233.19	233.91	233.91	234.19	0.002447	2.46	13.97	180.44	0.98
Reach 2	1626	Hazel	11.64	233.19	233.64	233.64	233.81	0.002801	1.84	6.86	172.84	0.96
Reach 2	1626	Hazel w CC	17.7	233.19	233.75	233.75	233.96	0.002647	2.12	9.5	176.84	0.97
Reach 2	1573	100 Year	20.85	232.73	233.24	232.83	233.25	0.000461	0.78	79.23	172.05	0.37
Reach 2	1573	100 Year w C	28.45	232.73	233.34	232.86	233.35	0.000448	0.89	97.23	178.7	0.38
Reach 2	1573	Hazel	11.64	232.73	233.07	232.76	233.08	0.000556	0.63	50.96	161.87	0.38
Reach 2	1573	Hazel w CC	17.7	232.73	233.19	232.81	233.2	0.000457	0.72	70.91	169.91	0.36
Reach 2	1535	100 Year	20.85	232.42	233.04	233.04	233.2	0.001824	1.96	14.61	48.82	0.83
Reach 2	1535	100 Year w C	28.45	232.42	233.13	233.13	233.31	0.001799	2.14	19.06	57.34	0.84
Reach 2	1535	Hazel	11.64	232.42	232.87	232.87	233.02	0.002448	1.8	7.9	32.55	0.9
Reach 2	1535	Hazel w CC	17.7	232.42	232.99	232.99	233.15	0.002051	1.94	12.03	40.55	0.86
Reach 2	1506	100 Year	20.85	232.25	232.81	232.81	232.9	0.002048	1.68	21.08	97.87	0.75
Reach 2	1506	100 Year w C	28.45	232.25	232.86	232.86	232.97	0.002139	1.83	26.52	105.84	0.78
Reach 2	1506	Hazel	11.64	232.25	232.69	232.69	232.79	0.002469	1.56	11.88	66.15	0.79
Reach 2	1506	Hazel w CC	17.7	232.25	232.75	232.75	232.87	0.002831	1.82	15.93	81.65	0.87
Reach 2	1472	100 Year	20.85	231.99	232.41	232.09	232.43	0.000487	0.78	33.29	63.9	0.4
Reach 2	1472	100 Year w C	28.45	231.99	232.47	232.15	232.5	0.000603	0.96	38.03	86.89	0.46
Reach 2	1472	Hazel	11.64	231.99	232.29	231.93	232.3	0.000359	0.52	25.86	61.91	0.32
Reach 2	1472	Hazel w CC	17.7	231.99	232.37	232.01	232.39	0.000434	0.69	31.27	63.12	0.37
Reach 2	1438	100 Year	20.85	231.79	232.28	232.28	232.39	0.002533	1.78	16.53	78.51	0.87
Reach 2	1438	100 Year w C	28.45	231.79	232.34	232.34	232.46	0.002429	1.91	21.71	89.53	0.87
Reach 2	1438	Hazel	11.64	231.79	232.12	232.12	232.26	0.005342	1.9	7.98	38.48	1.17
Reach 2	1438	Hazel w CC	17.7	231.79	232.24	232.24	232.35	0.002983	1.81	13.47	66.36	0.93
Reach 2	1410	100 Year	20.85	231.6	232.16	232.16	232.27	0.002018	1.82	27.49	116.68	0.84
Reach 2	1410	100 Year w C	28.45	231.6	232.21	232.21	232.34	0.002175	2.03	34.06	119.49	0.89

Reach 2	1410	Hazel	11.64	231.6	232.06	232.06	232.15	0.00185	1.51	16.97	111.55	0.78
Reach 2	1410	Hazel w CC	17.7	231.6	232.13	232.13	232.23	0.001939	1.71	24.42	116.1	0.82
Reach 2	1379	100 Year	20.85	231.4	231.69	231.69	231.77	0.005742	1.69	18.09	106.87	1.09
Reach 2	1379	100 Year w C	28.45	231.4	231.72	231.72	231.82	0.00594	1.88	21.79	108.16	1.13
Reach 2	1379	Hazel	11.64	231.4	231.64	231.64	231.69	0.005651	1.43	12.49	101.3	1.03
Reach 2	1379	Hazel w CC	17.7	231.4	231.67	231.67	231.74	0.005813	1.62	16.14	104.29	1.08
Reach 2	1332	100 Year	20.85	231.05	231.31	231.25	231.36	0.001612	0.9	23.25	109.77	0.61
Reach 2	1332	100 Year w C	28.45	231.05	231.38	231.29	231.42	0.001333	0.98	30.66	116.17	0.58
Reach 2	1332	Hazel	11.64	231.05	231.21	231.19	231.25	0.002563	0.74	12.57	92.09	0.68
Reach 2	1332	Hazel w CC	17.7	231.05	231.28	231.23	231.32	0.00187	0.87	19.83	105.58	0.64
Reach 2	1291	100 Year	20.85	230.6	231.18	231.18	231.29	0.001561	1.66	17.49	74.57	0.75
Reach 2	1291	100 Year w C	28.45	230.6	231.24	231.24	231.36	0.001665	1.84	21.6	77.33	0.79
Reach 2	1291	Hazel	11.64	230.6	231.08	231.08	231.17	0.001576	1.44	10.48	60.73	0.72
Reach 2	1291	Hazel w CC	17.7	230.6	231.16	231.16	231.26	0.001436	1.55	15.89	73.31	0.71
Reach 2	1256	100 Year	20.85	230.18	230.65	230.65	230.76	0.004	1.58	15.38	75.71	0.84
Reach 2	1256	100 Year w C	28.45	230.18	230.71	230.71	230.83	0.003797	1.68	19.8	79.17	0.83
Reach 2	1256	Hazel	11.64	230.18	230.56	230.56	230.65	0.003662	1.29	9.48	62.93	0.78
Reach 2	1256	Hazel w CC	17.7	230.18	230.63	230.63	230.72	0.003835	1.49	13.76	73.2	0.82
Reach 2	1228	100 Year	20.85	229.89	230.1	230.1	230.16	0.004801	1.06	18.35	137.72	0.85
Reach 2	1228	100 Year w C	28.45	229.89	230.12	230.12	230.21	0.00464	1.17	22.35	138.21	0.87
Reach 2	1228	Hazel	11.64	229.89	230.05	230.05	230.1	0.005513	0.9	12.21	131.22	0.86
Reach 2	1228	Hazel w CC	17.7	229.89	230.08	230.08	230.14	0.004907	1.01	16.52	137.49	0.85
Reach 2	1172	100 Year	20.85	229.44	229.85	229.85	229.92	0.003236	1.46	19.42	145.14	0.82
Reach 2	1172	100 Year w C	28.45	229.44	229.88	229.88	229.96	0.003077	1.53	25.11	161.86	0.81
Reach 2	1172	Hazel	11.64	229.44	229.8	229.8	229.85	0.002734	1.22	13.26	122.05	0.74
Reach 2	1172	Hazel w CC	17.7	229.44	229.84	229.84	229.9	0.002879	1.35	17.94	140.3	0.77
Reach 2	1135	100 Year	20.85	229.02	229.35	228.98	229.38	0.000319	0.38	25.72	52.3	0.23
Reach 2	1135	100 Year w C	28.45	229.02	229.4	229.07	229.45	0.000458	0.51	29.16	81.85	0.29
Reach 2	1135	Hazel	11.64	229.02	229.24	228.85	229.26	0.000178	0.2	20.79	43.34	0.16
Reach 2	1135	Hazel w CC	17.7	229.02	229.29	228.94	229.33	0.0003	0.32	23.3	46.15	0.22
Reach 2	1093	100 Year	20.85	228.2	229.36	228.59	229.37	0.000042	0.42	60.93	111.18	0.13
Reach 2	1093	100 Year w C	28.45	228.2	229.42	228.67	229.43	0.000065	0.54	67.64	123.13	0.16
Reach 2	1093	Hazel	11.64	228.2	229.25	228.51	229.25	0.00002	0.27	50.07	70.12	0.09
Reach 2	1093	Hazel w CC	17.7	228.2	229.31	228.57	229.32	0.000037	0.38	55.35	97.04	0.12
Reach 3	1067	100 Year	55.14	224.58	229.36		229.37	0.000027	0.32	195.53	130.02	0.05
Reach 3	1067	100 Year w C	65.44	224.58	229.42		229.43	0.000034	0.36	203.28	131.48	0.05
Reach 3	1067	Hazel	42.03	224.58	229.24		229.25	0.000021	0.28	180.37	128.99	0.04
Reach 3	1067	Hazel w CC	50.35	224.58	229.31		229.31	0.000026	0.31	188.64	129.12	0.05
Reach 3	1053	100 Year	55.18	224.47	229.36		229.37	0.000025	0.38	226.89	132.28	0.06
Reach 3	1053	100 Year w C	65.39	224.47	229.42		229.43	0.000031	0.43	234.7	132.7	0.06
Reach 3	1053	Hazel	42.06	224.47	229.24		229.25	0.000018	0.32	211.51	130.89	0.05
Reach 3	1053	Hazel w CC	50.46	224.47	229.31		229.31	0.000023	0.37	219.88	130.94	0.05
Reach 3	1037	100 Year	55.18	224.01	229.36	227.62	229.37	0.000012	0.21	245.67	127.18	0.04
Reach 3	1037	100 Year w C	65.39	224.01	229.42	227.68	229.43	0.000015	0.24	253.2	127.37	0.04
Reach 3	1037	Hazel	42.06	224.01	229.25	227.52	229.25	0.000009	0.18	230.76	126.92	0.03
Reach 3	1037	Hazel w CC	50.46	224.01	229.31	227.59	229.31	0.000011	0.2	238.9	127.06	0.03
Reach 3	5	Tiffin St		Culvert								
Reach 3	978	100 Year	55.18	223.36	227.78	226.63	228.11	0.002496	2.95	34.03	62.09	0.47
Reach 3	978	100 Year w C	65.39	223.36	227.78	226.86	228.24	0.003516	3.5	33.94	61.87	0.56
Reach 3	978	Hazel	42.06	223.36	227.72		227.93	0.001625	2.36	30.68	47.61	0.38
Reach 3	978	Hazel w CC	50.46	223.36	227.77	226.46	228.05	0.002157	2.73	33.09	59.45	0.44
Reach 3	968	100 Year	55.18	223.54	227.87		227.99	0.000816	1.89	49.04	118.22	0.3
Reach 3	968	100 Year w C	65.39	223.54	227.92		228.07	0.001067	2.18	52.19	136.49	0.35
Reach 3	968	Hazel	42.06	223.54	227.78		227.86	0.000536	1.51	44.49	80.63	0.24
Reach 3	968	Hazel w CC	50.46	223.54	227.85		227.95	0.000711	1.76	47.39	103.83	0.28

Reach 3	958	100 Year	55.18	223.39	227.92	226.77	227.96	0.000428	1.17	69.63	190.05	0.21
Reach 3	958	100 Year w C	65.39	223.39	227.98	227.12	228.03	0.000494	1.27	75.29	196.8	0.23
Reach 3	958	Hazel	42.06	223.39	227.81	226.5	227.84	0.000361	1.05	60.42	175.09	0.19
Reach 3	958	Hazel w CC	50.46	223.39	227.88	226.68	227.92	0.000403	1.13	66.49	182.86	0.21
Reach 3	Parking Lot		Culvert									
Reach 3	906	100 Year	55.18	224.89	226.82	226.17	226.84	0.000126	0.64	96.23	160.44	0.19
Reach 3	906	100 Year w C	65.39	224.89	226.92	226.21	226.94	0.000121	0.66	112.54	178.59	0.19
Reach 3	906	Hazel	42.06	224.89	226.62	226.1	226.64	0.00017	0.65	67.91	120.21	0.21
Reach 3	906	Hazel w CC	50.46	224.89	226.72	226.15	226.74	0.000159	0.68	80.94	144.01	0.21
Reach 3	882	100 Year	72.18	225.17	226.79	226.56	226.83	0.000408	1.34	83.44	210.2	0.4
Reach 3	882	100 Year w C	86.26	225.17	226.89	226.61	226.93	0.000345	1.27	99.48	242.31	0.36
Reach 3	882	Hazel	51.81	225.17	226.51	226.5	226.62	0.001354	2.22	42.77	142.58	0.75
Reach 3	882	Hazel w CC	62.24	225.17	226.68	226.54	226.73	0.000593	1.56	66.39	178.08	0.48
Reach 3	Anne St		Culvert									
Reach 3	740	100 Year	72.18	222.18	226.04	225.26	226.75	0.012033	3.62	19.38	30.65	0.62
Reach 3	740	100 Year w C	86.26	222.18	226.75	226.75	226.9	0.005792	2.42	57.67	136.84	0.43
Reach 3	740	Hazel	51.81	222.18	225.75	224.78	226.19	0.008472	2.87	17.65	27.52	0.51
Reach 3	740	Hazel w CC	62.24	222.18	225.88	225.03	226.46	0.010586	3.29	18.43	29.44	0.58
Reach 3	711	100 Year	72.83	222.02	226.53	223.47	226.53	0.00004	0.44	321.3	130.16	0.07
Reach 3	711	100 Year w C	87.1	222.02	226.77	223.55	226.77	0.000044	0.48	357.19	177.37	0.07
Reach 3	711	Hazel	52.29	222.02	226.05	223.33	226.05	0.000035	0.38	266.83	112.08	0.06
Reach 3	711	Hazel w CC	62.82	222.02	226.28	223.41	226.28	0.000039	0.42	292.6	113.17	0.07
Reach 3	683	100 Year	72.83	221.99	226.51	223.62	226.53	0.00014	0.75	208.53	99.53	0.12
Reach 3	683	100 Year w C	87.1	221.99	226.75	223.76	226.77	0.000149	0.8	235.1	128.18	0.12
Reach 3	683	Hazel	52.29	221.99	226.04	223.41	226.05	0.000138	0.69	163.47	93.03	0.11
Reach 3	683	Hazel w CC	62.82	221.99	226.27	223.52	226.28	0.000144	0.73	184.89	94.54	0.12
Reach 3	648	100 Year	75.07	221.61	226.5		226.52	0.000198	0.85	163.19	87.5	0.13
Reach 3	648	100 Year w C	89.64	221.61	226.74		226.76	0.000212	0.91	185.8	106.99	0.13
Reach 3	648	Hazel	54.6	221.61	226.03		226.04	0.000203	0.8	122.93	81.27	0.13
Reach 3	648	Hazel w CC	65.64	221.61	226.25		226.27	0.000213	0.85	141.82	84.69	0.13
Reach 3	613	100 Year	75.07	221.32	225.7	224.29	226.32	0.006388	3.61	23.99	21.56	0.57
Reach 3	613	100 Year w C	89.64	221.32	225.7	224.62	226.5	0.006748	3.71	23.99	21.56	0.58
Reach 3	613	Hazel	54.6	221.32	225.63	223.79	225.94	0.002651	2.3	23.58	21.07	0.36
Reach 3	613	Hazel w CC	65.64	221.32	225.7	224.06	226.13	0.003618	2.72	23.99	21.56	0.43
Reach 3	Innisfil St		Culvert									
Reach 3	572	100 Year	75.07	221.11	224.14	224.14	225.41	0.020928	5.45	15.52	15.6	1.02
Reach 3	572	100 Year w C	89.64	221.11	224.46	224.46	225.88	0.020459	5.78	17.41	22	1.03
Reach 3	572	Hazel	54.6	221.11	223.66	223.66	224.68	0.021774	4.92	12.62	14.09	1.01
Reach 3	572	Hazel w CC	65.64	221.11	223.92	223.92	225.08	0.021409	5.23	14.2	14.96	1.02
Reach 3	544	100 Year	75.07	220.76	223.36	223.36	223.68	0.007093	3.3	36.32	51.82	0.68
Reach 3	544	100 Year w C	89.64	220.76	223.45	223.45	223.8	0.007503	3.48	41.27	52.65	0.7
Reach 3	544	Hazel	54.6	220.76	223.16	223.16	223.48	0.00703	3.11	26.76	44.63	0.66
Reach 3	544	Hazel w CC	65.64	220.76	223.27	223.27	223.6	0.007166	3.24	31.8	50.02	0.68
Reach 3	532	100 Year	75.07	220.68	223.03		223.39	0.008546	3.43	33.7	29.99	0.74
Reach 3	532	100 Year w C	89.64	220.68	223.16		223.57	0.009249	3.7	37.43	30.75	0.77
Reach 3	532	Hazel	54.6	220.68	222.84		223.12	0.007204	2.96	28.1	28.53	0.67
Reach 3	532	Hazel w CC	65.64	220.68	222.95		223.28	0.00798	3.23	31.21	29.49	0.71
Reach 3	520	100 Year	75.07	220.46	223.1		223.26	0.004533	2.27	44.89	32.63	0.47
Reach 3	520	100 Year w C	89.64	220.46	223.22		223.42	0.005164	2.51	49.16	34.48	0.5
Reach 3	520	Hazel	54.6	220.46	222.89		223.01	0.003644	1.92	38.48	30.86	0.41
Reach 3	520	Hazel w CC	65.64	220.46	223.01		223.15	0.00412	2.11	42.05	31.73	0.44
Reach 3	507	100 Year	75.07	220.29	223.08		223.2	0.002883	2.14	58.26	48.75	0.42
Reach 3	507	100 Year w C	89.64	220.29	223.22		223.35	0.003073	2.28	64.97	50.46	0.44

Reach 3	8	100 Year	76.26	217.4	218.88	218.88	219.56	0.031394	3.65	20.88	15.48	1
Reach 3	8	100 Year w C	91.54	217.4	219.08	219.08	219.82	0.030363	3.82	23.96	16.11	1
Reach 3	8	Hazel	56.53	217.4	218.86		219.25	0.017985	2.75	20.58	15.4	0.76
Reach 3	8	Hazel w CC	67.77	217.4	218.77	218.77	219.41	0.031911	3.55	19.11	15.03	1
Reach 3	2	100 Year	76.26	217.31	219.13	217.55	219.13	0.000023	0.2	376.99	207.53	0.05
Reach 3	2	100 Year w C	91.54	217.31	219.13	217.58	219.13	0.000033	0.25	376.99	207.53	0.06
Reach 3	2	Hazel	56.53	217.31	219.13	217.51	219.13	0.000013	0.15	376.99	207.53	0.04
Reach 3	2	Hazel w CC	67.77	217.31	219.13	217.54	219.13	0.000018	0.18	376.99	207.53	0.04

Hotchkiss Creek - Gauged Flow Scenarios

Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
			(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
Reach 1	2233	2017-05-30	1.69	233.66	234.24		234.28	0.005308	0.96	2.05	9.55	0.54
Reach 1	2233	2017-06-20	1.74	233.66	234.24		234.29	0.005301	0.96	2.12	9.67	0.54
Reach 1	2233	2018-06-13	1.18	233.66	234.16		234.2	0.005252	0.9	1.39	7.03	0.53
Reach 1	2200	2017-05-30	1.69	233.23	234.04		234.06	0.007808	0.68	2.51	8.22	0.37
Reach 1	2200	2017-06-20	1.74	233.23	234.04		234.07	0.007895	0.69	2.55	8.33	0.37
Reach 1	2200	2018-06-13	1.18	233.23	233.99		234	0.006292	0.56	2.11	7	0.32
Reach 1	2150	2017-05-30	1.69	233.17	233.64		233.66	0.00851	0.54	3.53	15.73	0.37
Reach 1	2150	2017-06-20	1.74	233.17	233.65		233.66	0.008289	0.53	3.64	16.18	0.36
Reach 1	2150	2018-06-13	1.18	233.17	233.56		233.58	0.012408	0.59	2.36	13.24	0.44
Reach 1	2104	2017-05-30	1.69	232.67	233.4		233.42	0.003288	0.63	2.93	8.28	0.31
Reach 1	2104	2017-06-20	1.74	232.67	233.41		233.43	0.00338	0.64	2.96	8.39	0.31
Reach 1	2104	2018-06-13	1.18	232.67	233.32		233.33	0.002894	0.55	2.27	7.1	0.29
Reach 1	2057	2017-05-30	1.69	232.4	232.93	232.93	233.03	0.045324	1.35	1.25	6.22	0.96
Reach 1	2057	2017-06-20	1.74	232.4	232.95	232.93	233.03	0.041996	1.31	1.32	6.45	0.93
Reach 1	2057	2018-06-13	1.18	232.4	232.87	232.87	232.96	0.05706	1.31	0.9	5.3	1.02
Reach 1	2012	2017-05-30	1.69	231.88	232.63		232.66	0.003075	0.77	2.19	7.05	0.44
Reach 1	2012	2017-06-20	1.74	231.88	232.63		232.66	0.003166	0.78	2.23	7.1	0.45
Reach 1	2012	2018-06-13	1.18	231.88	232.55		232.58	0.002219	0.7	1.69	5.86	0.42
Reach 1	1962	2017-05-30	1.69	231.68	232.36		232.37	0.014338	0.42	4	27.92	0.36
Reach 1	1962	2017-06-20	1.74	231.68	232.36		232.37	0.013456	0.42	4.15	28.09	0.35
Reach 1	1962	2018-06-13	1.18	231.68	232.28		232.3	0.032781	0.55	2.17	19.21	0.52
Reach 1	1925	2017-05-30	1.69	231.63	232.21		232.22	0.001763	0.57	2.96	8.21	0.3
Reach 1	1925	2017-06-20	1.74	231.63	232.21		232.23	0.001806	0.58	3	8.29	0.3
Reach 1	1925	2018-06-13	1.18	231.63	232.15		232.16	0.001316	0.47	2.53	7.3	0.25
Reach 1	1886	2017-05-30	1.69	231.82	232.08		232.09	0.009279	0.25	4.86	35.04	0.26
Reach 1	1886	2017-06-20	1.74	231.82	232.08		232.09	0.009552	0.26	4.9	35.08	0.27
Reach 1	1886	2018-06-13	1.18	231.82	232.04		232.05	0.010946	0.23	3.55	31.91	0.28
Reach 1	1885		Lat Struct									
Reach 1	1860	2017-05-30	1.69	231.37	231.82		231.83	0.011071	0.46	3.65	24.2	0.38
Reach 1	1860	2017-06-20	1.74	231.37	231.82		231.83	0.010317	0.46	3.83	24.76	0.37
Reach 1	1860	2018-06-13	1.18	231.37	231.79		231.8	0.008726	0.38	3.07	21.59	0.33
Reach 1	1824.1	2017-05-30	1.69	230.76	231.34	231.34	231.41	0.011948	1.18	1.43	10.02	0.99
Reach 1	1824.1	2017-06-20	1.74	230.76	231.33	231.33	231.41	0.01299	1.24	1.41	9.9	1.04
Reach 1	1824.1	2018-06-13	1.18	230.76	231.19	231.19	231.33	0.020142	1.65	0.71	2.6	1.01
Reach 1	1799	2017-05-30	1.69	230.15	231.25	230.54	231.26	0.000386	0.35	4.83	6.68	0.13
Reach 1	1799	2017-06-20	1.74	230.15	231.26	230.55	231.26	0.0004	0.36	4.87	6.7	0.13
Reach 1	1799	2018-06-13	1.18	230.15	230.47	230.47	230.59	0.025828	1.52	0.77	3.33	1.01
Reach 1	Hwy 400		Culvert									
Reach 1	1706.5	2017-05-30	1.69	229.65	231.23		231.23	0.000047	0.16	10.41	30.01	0.05
Reach 1	1706.5	2017-06-20	1.74	229.65	231.23		231.23	0.00005	0.17	10.45	30.07	0.05
Reach 1	1706.5	2018-06-13	1.18	229.65	230.34		230.35	0.000672	0.34	3.46	16.63	0.15
Reach 1	1675	2017-05-30	1.69	228.94	231.23		231.23	0.000017	0.09	23.29	30.08	0.03
Reach 1	1675	2017-06-20	1.74	228.94	231.23		231.23	0.000018	0.1	23.42	30.61	0.03
Reach 1	1675	2018-06-13	1.18	228.94	230.33		230.33	0.000377	0.31	3.97	10.08	0.12
Reach 1	1637	2017-05-30	1.69	228.78	231.23		231.23	0.000006	0.07	35.86	40.75	0.02
Reach 1	1637	2017-06-20	1.74	228.78	231.23		231.23	0.000006	0.07	36.03	40.83	0.02
Reach 1	1637	2018-06-13	1.18	228.78	230.32		230.32	0.000089	0.18	8.21	20.77	0.07

Reach 1	1606	2017-05-30	1.69	228.73	231.23		231.23	0.000003	0.05	43.03	38.96	0.01
Reach 1	1606	2017-06-20	1.74	228.73	231.23		231.23	0.000004	0.05	43.2	39.05	0.01
Reach 1	1606	2018-06-13	1.18	228.73	230.32		230.32	0.000033	0.1	14.39	24.93	0.03
Reach 1	1573	2017-05-30	1.69	228.71	231.23	229.26	231.23	0.000198	0.2	13.33	59.51	0.08
Reach 1	1573	2017-06-20	1.74	228.71	231.23	229.27	231.23	0.000202	0.2	13.58	60.84	0.08
Reach 1	1573	2018-06-13	1.18	228.71	230.31	229.17	230.32	0.000306	0.4	2.93	18.71	0.11
Reach 1	1475		Culvert									
Reach 1	1375.4	2017-05-30	1.69	227.54	227.98	227.98	228.19	0.016387	2.03	0.83	4.39	1.01
Reach 1	1375.4	2017-06-20	1.74	227.54	227.99	227.99	228.2	0.016252	2.05	0.85	4.42	1.01
Reach 1	1375.4	2018-06-13	1.18	227.54	227.89	227.89	228.06	0.017617	1.8	0.66	4.02	1
Reach 1	1351.8	2017-05-30	1.69	226.89	227.47		227.51	0.01035	0.85	1.98	4.63	0.42
Reach 1	1351.8	2017-06-20	1.74	226.89	227.48		227.51	0.010481	0.87	2.01	4.65	0.42
Reach 1	1351.8	2018-06-13	1.18	226.89	227.35		227.39	0.012771	0.81	1.46	4.35	0.45
Reach 1	1333.7	2017-05-30	1.69	226.73	227.25		227.28	0.015893	0.77	2.2	8.32	0.48
Reach 1	1333.7	2017-06-20	1.74	226.73	227.25		227.28	0.015808	0.78	2.25	8.37	0.48
Reach 1	1333.7	2018-06-13	1.18	226.73	227.11		227.15	0.013516	0.86	1.37	4.78	0.51
Reach 1	1311.5	2017-05-30	1.69	226.41	226.87		226.93	0.015713	1.09	1.55	4.5	0.59
Reach 1	1311.5	2017-06-20	1.74	226.41	226.87		226.93	0.015795	1.1	1.58	4.51	0.6
Reach 1	1311.5	2018-06-13	1.18	226.41	226.8		226.85	0.013846	0.92	1.28	4.38	0.55
Reach 1	1290.5	2017-05-30	1.69	226.24	226.68		226.71	0.006843	0.84	2.01	5.94	0.46
Reach 1	1290.5	2017-06-20	1.74	226.24	226.69		226.72	0.006709	0.84	2.06	5.97	0.46
Reach 1	1290.5	2018-06-13	1.18	226.24	226.58		226.62	0.008875	0.8	1.47	5.65	0.5
Reach 1	1265.1	2017-05-30	1.69	225.91	226.52		226.55	0.005595	0.82	2.06	4.26	0.38
Reach 1	1265.1	2017-06-20	1.74	225.91	226.53		226.56	0.005595	0.83	2.1	4.28	0.38
Reach 1	1265.1	2018-06-13	1.18	225.91	226.4		226.43	0.005927	0.75	1.58	4.06	0.38
Reach 1	1250.7	2017-05-30	1.69	225.65	226.39		226.44	0.011537	0.97	1.74	3.08	0.41
Reach 1	1250.7	2017-06-20	1.74	225.65	226.4		226.45	0.01172	0.99	1.76	3.09	0.42
Reach 1	1250.7	2018-06-13	1.18	225.65	226.28		226.32	0.01021	0.83	1.42	2.95	0.38
Reach 1	1233.7	2017-05-30	1.69	225.62	226.21		226.26	0.009394	1	1.69	3.86	0.48
Reach 1	1233.7	2017-06-20	1.74	225.62	226.21		226.26	0.010182	1.04	1.67	3.85	0.5
Reach 1	1233.7	2018-06-13	1.18	225.62	226.12		226.16	0.008624	0.87	1.35	3.68	0.46
Reach 1	1203	2017-05-30	1.69	225.44	226.07	225.77	226.11	0.002913	0.92	1.84	6.19	0.37
Reach 1	1203	2017-06-20	1.74	225.44	226.03	225.78	226.08	0.003837	1.01	1.73	6.12	0.42
Reach 1	1203	2018-06-13	1.18	225.44	225.79	225.7	225.86	0.010828	1.18	1	5.53	0.65
Reach 1	1186		Culvert									
Reach 1	1180	2017-05-30	1.69	224.58	225.66	225.66	225.84	0.00335	1.88	0.9	6.89	1.01
Reach 1	1180	2017-06-20	1.74	224.58	225.66	225.66	225.85	0.003334	1.9	0.92	6.91	1.01
Reach 1	1180	2018-06-13	1.18	224.58	225.58	225.58	225.72	0.003547	1.69	0.7	6.7	1.01
Reach 2	1878	2017-05-30	1.69	233.69	234.05		234.05	0.000003	0.01	46.14	143.27	0.01
Reach 2	1878	2017-06-20	1.74	233.69	234.05		234.05	0.000003	0.01	46.63	143.36	0.01
Reach 2	1878	2018-06-13	1.18	233.69	234.02		234.02	0.000002	0.01	41.12	142.26	0.01
Reach 2	1838	2017-05-30	1.69	233.76	234.05		234.05	0.000003	0.04	29.25	99.85	0.03
Reach 2	1838	2017-06-20	1.74	233.76	234.05		234.05	0.000003	0.04	29.59	100.23	0.03
Reach 2	1838	2018-06-13	1.18	233.76	234.02		234.02	0.000002	0.03	25.86	94.54	0.02
Reach 2	1799	2017-05-30	1.69	233.9	234.05		234.05	0.000035	0.07	12.41	57.14	0.08
Reach 2	1799	2017-06-20	1.74	233.9	234.05		234.05	0.000036	0.07	12.6	58.28	0.08
Reach 2	1799	2018-06-13	1.18	233.9	234.01		234.01	0.000024	0.05	10.61	47.87	0.06
Reach 2	1763	2017-05-30	1.69	233.94	234.05		234.05	0.000006	0.02	23.44	69.84	0.03
Reach 2	1763	2017-06-20	1.74	233.94	234.05		234.05	0.000007	0.02	23.68	70.33	0.03
Reach 2	1763	2018-06-13	1.18	233.94	234.01		234.01	0.000004	0.01	21.17	61.03	0.02
Reach 2	1721	2017-05-30	1.69	233.76	234.03	233.95	234.05	0.000874	0.55	3.16	169.19	0.41

Reach 2	1721	2017-06-20	1.74	233.76	234.03	233.95	234.05	0.000878	0.56	3.22	169.29	0.41
Reach 2	1721	2018-06-13	1.18	233.76	234	233.93	234.01	0.000782	0.46	2.61	168.43	0.38
Reach 2	1675		Bridge									
Reach 2	1626	2017-05-30	1.69	233.19	233.37	233.37	233.43	0.00437	1	1.68	86.79	0.97
Reach 2	1626	2017-06-20	1.74	233.19	233.38	233.38	233.43	0.004144	1	1.74	88.13	0.95
Reach 2	1626	2018-06-13	1.18	233.19	233.35	233.35	233.39	0.004838	0.89	1.3	77.13	0.98
Reach 2	1573	2017-05-30	1.69	232.73	232.74	232.61	232.74	0.001514	0.03	8.8	66.5	0.14
Reach 2	1573	2017-06-20	1.74	232.73	232.74	232.61	232.74	0.001519	0.04	8.97	68.59	0.15
Reach 2	1573	2018-06-13	1.18	232.73	232.71	232.6	232.71	0.001595		6.84	58.91	0
Reach 2	1535	2017-05-30	1.69	232.42	232.59	232.59	232.64	0.004521	1.05	1.62	15.18	1
Reach 2	1535	2017-06-20	1.74	232.42	232.59	232.59	232.64	0.004415	1.06	1.66	15.29	0.99
Reach 2	1535	2018-06-13	1.18	232.42	232.56	232.56	232.61	0.004813	0.93	1.27	14.37	0.99
Reach 2	1506	2017-05-30	1.69	232.25	232.42	232.42	232.48	0.00545	1.08	1.58	13.77	0.98
Reach 2	1506	2017-06-20	1.74	232.25	232.42	232.42	232.48	0.005864	1.11	1.57	13.7	1.01
Reach 2	1506	2018-06-13	1.18	232.25	232.39	232.39	232.44	0.006389	0.99	1.2	12.4	1.01
Reach 2	1472	2017-05-30	1.69	231.99	231.97	231.73	231.97	0.000199		9.02	31.23	0
Reach 2	1472	2017-06-20	1.74	231.99	231.98	231.73	231.98	0.000203		9.13	31.24	0
Reach 2	1472	2018-06-13	1.18	231.99	231.94	231.71	231.94	0.000153		7.97	31.17	0
Reach 2	1438	2017-05-30	1.69	231.79	231.93	231.9	231.96	0.003373	0.68	2.59	20.35	0.75
Reach 2	1438	2017-06-20	1.74	231.79	231.94	231.9	231.96	0.003321	0.69	2.65	20.44	0.75
Reach 2	1438	2018-06-13	1.18	231.79	231.91	231.87	231.93	0.003454	0.54	2.08	19.55	0.71
Reach 2	1410	2017-05-30	1.69	231.6	231.79	231.79	231.84	0.004551	1.02	1.73	16.33	0.99
Reach 2	1410	2017-06-20	1.74	231.6	231.79	231.79	231.85	0.004672	1.04	1.75	16.35	1
Reach 2	1410	2018-06-13	1.18	231.6	231.76	231.76	231.81	0.004991	0.93	1.32	15.05	1
Reach 2	1379	2017-05-30	1.69	231.4	231.52	231.52	231.55	0.004839	0.86	2.93	58.39	0.92
Reach 2	1379	2017-06-20	1.74	231.4	231.53	231.53	231.55	0.004559	0.84	3.06	58.94	0.89
Reach 2	1379	2018-06-13	1.18	231.4	231.51	231.51	231.53	0.005347	0.81	2.04	48.85	0.95
Reach 2	1332	2017-05-30	1.69	231.05	231.04	231.04	231.07	0.005763		2.15	32.67	0
Reach 2	1332	2017-06-20	1.74	231.05	231.04	231.04	231.07	0.006103		2.15	32.68	0
Reach 2	1332	2018-06-13	1.18	231.05	231.02	231.02	231.05	0.006124		1.64	30.39	0
Reach 2	1291	2017-05-30	1.69	230.6	230.77	230.77	230.83	0.004746	1.03	1.64	15.39	1.01
Reach 2	1291	2017-06-20	1.74	230.6	230.78	230.78	230.83	0.004583	1.03	1.69	15.45	0.99
Reach 2	1291	2018-06-13	1.18	230.6	230.74	230.74	230.79	0.004915	0.97	1.22	12.93	1.01
Reach 2	1256	2017-05-30	1.69	230.18	230.34	230.34	230.39	0.002564	0.54	2.1	17.86	0.57
Reach 2	1256	2017-06-20	1.74	230.18	230.35	230.35	230.39	0.002436	0.54	2.19	18.09	0.56
Reach 2	1256	2018-06-13	1.18	230.18	230.32	230.32	230.36	0.002077	0.41	1.72	16.85	0.48
Reach 2	1228	2017-05-30	1.69	229.89	229.97	229.97	229.99	0.006909	0.47	2.98	88.82	0.77
Reach 2	1228	2017-06-20	1.74	229.89	229.97	229.97	229.99	0.006758	0.47	3.07	90	0.77
Reach 2	1228	2018-06-13	1.18	229.89	229.96	229.96	229.98	0.006346	0.41	2.23	71.19	0.73
Reach 2	1172	2017-05-30	1.69	229.44	229.63	229.63	229.68	0.004608	0.92	2.01	26.21	0.87
Reach 2	1172	2017-06-20	1.74	229.44	229.64	229.64	229.68	0.004696	0.93	2.04	26.44	0.88
Reach 2	1172	2018-06-13	1.18	229.44	229.61	229.61	229.65	0.005701	0.88	1.39	18.5	0.94
Reach 2	1135	2017-05-30	1.69	229.02	228.54	228.54	228.63	0.005766		1.31	7.65	0
Reach 2	1135	2017-06-20	1.74	229.02	228.55	228.55	228.63	0.005839		1.33	7.66	0
Reach 2	1135	2018-06-13	1.18	229.02	228.51	228.51	228.57	0.006233		1.03	7.42	0
Reach 2	1093	2017-05-30	1.69	228.2	228.24	228.24	228.31	0.004772	0.35	1.48	11.79	0.78
Reach 2	1093	2017-06-20	1.74	228.2	228.24	228.24	228.31	0.004792	0.36	1.51	12.2	0.8
Reach 2	1093	2018-06-13	1.18	228.2	228.19	228.19	228.26	0.006226		1.04	7.74	0
Reach 3	1067	2017-05-30	1.69	224.58	225.7		225.71	0.000209	0.3	6.15	9.46	0.1
Reach 3	1067	2017-06-20	1.74	224.58	225.72		225.72	0.000208	0.3	6.28	9.52	0.1
Reach 3	1067	2018-06-13	1.18	224.58	225.56		225.56	0.000212	0.27	4.79	8.9	0.1

Reach 3	1053	2017-05-30	1.69	224.47	225.7		225.7	0.000118	0.3	6.34	8.6	0.1
Reach 3	1053	2017-06-20	1.74	224.47	225.72		225.72	0.000119	0.3	6.47	8.65	0.1
Reach 3	1053	2018-06-13	1.18	224.47	225.55		225.56	0.000106	0.26	5.11	8.08	0.09
Reach 3	1037	2017-05-30	1.69	224.01	225.69	224.47	225.7	0.000173	0.52	3.26	7.49	0.13
Reach 3	1037	2017-06-20	1.74	224.01	225.7	224.48	225.71	0.000178	0.53	3.29	7.53	0.13
Reach 3	1037	2018-06-13	1.18	224.01	225.54	224.38	225.55	0.000114	0.4	2.98	7.08	0.1
Reach 3	5	Tiffin St		Culvert								
Reach 3	978	2017-05-30	1.69	223.36	225.6		225.61	0.000055	0.26	6.7	9.31	0.06
Reach 3	978	2017-06-20	1.74	223.36	225.61		225.61	0.000057	0.26	6.73	9.35	0.06
Reach 3	978	2018-06-13	1.18	223.36	225.51		225.51	0.000032	0.19	6.31	8.93	0.05
Reach 3	968	2017-05-30	1.69	223.54	225.6		225.6	0.000029	0.2	10.42	9.54	0.05
Reach 3	968	2017-06-20	1.74	223.54	225.61		225.61	0.00003	0.21	10.5	9.57	0.05
Reach 3	968	2018-06-13	1.18	223.54	225.51		225.51	0.000018	0.15	9.51	9.15	0.04
Reach 3	958	2017-05-30	1.69	223.39	225.6	223.98	225.6	0.000043	0.25	6.88	9.92	0.06
Reach 3	958	2017-06-20	1.74	223.39	225.61	223.99	225.61	0.000045	0.25	6.92	9.95	0.06
Reach 3	958	2018-06-13	1.18	223.39	225.5	223.88	225.51	0.000026	0.18	6.5	9.62	0.05
Reach 3		Parking Lot		Culvert								
Reach 3	906	2017-05-30	1.69	224.89	225.52	225.23	225.57	0.002003	0.92	1.84	30.4	0.38
Reach 3	906	2017-06-20	1.74	224.89	225.53	225.24	225.57	0.002071	0.94	1.85	30.45	0.38
Reach 3	906	2018-06-13	1.18	224.89	225.46	225.16	225.49	0.001389	0.71	1.65	28.35	0.31
Reach 3	882	2017-05-30	1.69	225.17	225.39	225.39	225.49	0.004493	1.37	1.2	27.58	0.97
Reach 3	882	2017-06-20	1.74	225.17	225.39	225.39	225.5	0.004385	1.37	1.23	28.24	0.97
Reach 3	882	2018-06-13	1.18	225.17	225.35	225.35	225.43	0.004714	1.21	0.96	24.48	0.96
Reach 3		Anne St		Culvert								
Reach 3	740	2017-05-30	1.69	222.18	222.9	222.9	223.06	0.058781	1.8	0.97	3.96	0.93
Reach 3	740	2017-06-20	1.74	222.18	222.92	222.92	223.07	0.055263	1.73	1.05	4.44	0.91
Reach 3	740	2018-06-13	1.18	222.18	222.78	222.78	222.94	0.072198	1.78	0.66	2.67	1
Reach 3	711	2017-05-30	1.69	222.02	222.58	222.33	222.6	0.001759	0.65	2.59	6.25	0.32
Reach 3	711	2017-06-20	1.74	222.02	222.59	222.33	222.61	0.001769	0.66	2.64	6.28	0.32
Reach 3	711	2018-06-13	1.18	222.02	222.5	222.28	222.51	0.001632	0.57	2.08	5.87	0.3
Reach 3	683	2017-05-30	1.69	221.99	222.45	222.35	222.5	0.008954	1.04	1.63	5.98	0.61
Reach 3	683	2017-06-20	1.74	221.99	222.46	222.35	222.51	0.008857	1.04	1.68	6.87	0.61
Reach 3	683	2018-06-13	1.18	221.99	222.36	222.29	222.41	0.010269	0.99	1.19	4.9	0.64
Reach 3	648	2017-05-30	1.69	221.61	222.25		222.27	0.00465	0.76	2.3	5.13	0.35
Reach 3	648	2017-06-20	1.74	221.61	222.25		222.28	0.004671	0.77	2.34	5.14	0.35
Reach 3	648	2018-06-13	1.18	221.61	222.15		222.17	0.004636	0.66	1.83	4.82	0.33
Reach 3	613	2017-05-30	1.69	221.32	221.73	221.73	221.88	0.040682	1.7	0.99	3.42	1.01
Reach 3	613	2017-06-20	1.74	221.32	221.74	221.74	221.89	0.040596	1.71	1.02	3.45	1.01
Reach 3	613	2018-06-13	1.18	221.32	221.66	221.66	221.78	0.04157	1.55	0.76	3.16	1.01
Reach 3		Innisfil St		Culvert								
Reach 3	572	2017-05-30	1.69	221.11	221.67		221.75	0.01623	1.31	1.35	4.04	0.65
Reach 3	572	2017-06-20	1.74	221.11	221.67		221.76	0.016242	1.33	1.38	4.08	0.65
Reach 3	572	2018-06-13	1.18	221.11	221.59		221.66	0.015964	1.14	1.07	3.68	0.63
Reach 3	544	2017-05-30	1.69	220.76	221.26		221.33	0.013696	1.23	1.39	4.35	0.68
Reach 3	544	2017-06-20	1.74	220.76	221.26		221.34	0.01371	1.24	1.42	4.38	0.68
Reach 3	544	2018-06-13	1.18	220.76	221.18		221.25	0.01353	1.1	1.08	4.03	0.67
Reach 3	532	2017-05-30	1.69	220.68	221.14		221.2	0.00897	1.06	1.63	4.81	0.55
Reach 3	532	2017-06-20	1.74	220.68	221.15		221.2	0.008967	1.07	1.66	4.84	0.56
Reach 3	532	2018-06-13	1.18	220.68	221.06		221.11	0.009238	0.94	1.28	4.48	0.54
Reach 3	520	2017-05-30	1.69	220.46	220.93		221.02	0.023914	1.35	1.26	3.94	0.76

Reach 3	520	2017-06-20	1.74	220.46	220.94		221.03	0.023821	1.36	1.28	3.97	0.76
Reach 3	520	2018-06-13	1.18	220.46	220.85		220.93	0.024911	1.22	0.97	3.55	0.75
Reach 3	507	2017-05-30	1.69	220.29	220.79		220.84	0.007739	0.98	1.73	4.47	0.49
Reach 3	507	2017-06-20	1.74	220.29	220.8		220.85	0.007767	1	1.76	4.5	0.5
Reach 3	507	2018-06-13	1.18	220.29	220.71		220.75	0.007425	0.85	1.39	4.17	0.47
Reach 3	485	2017-05-30	1.69	220.02	220.41	220.39	220.54	0.02861	1.56	1.08	3.72	0.92
Reach 3	485	2017-06-20	1.74	220.02	220.42	220.4	220.54	0.028338	1.56	1.11	3.75	0.92
Reach 3	485	2018-06-13	1.18	220.02	220.33	220.33	220.44	0.032119	1.48	0.8	3.43	0.98
Reach 3	466	2017-05-30	1.69	219.52	220.14		220.19	0.010931	0.93	1.81	4.15	0.45
Reach 3	466	2017-06-20	1.74	219.52	220.15		220.2	0.010911	0.94	1.85	4.18	0.45
Reach 3	466	2018-06-13	1.18	219.52	220.04		220.08	0.011206	0.84	1.4	3.86	0.44
Reach 3	447	2017-05-30	1.69	219.35	219.95		220	0.008441	0.98	1.72	3.87	0.47
Reach 3	447	2017-06-20	1.74	219.35	219.96		220.01	0.008477	0.99	1.75	3.89	0.47
Reach 3	447	2018-06-13	1.18	219.35	219.86		219.9	0.00796	0.87	1.36	3.66	0.45
Reach 3	424	2017-05-30	1.69	219.17	219.72		219.79	0.01011	1.17	1.47	4.05	0.59
Reach 3	424	2017-06-20	1.74	219.17	219.73		219.8	0.010091	1.18	1.5	4.1	0.59
Reach 3	424	2018-06-13	1.18	219.17	219.63		219.69	0.010186	1.04	1.14	3.57	0.57
Reach 3	404	2017-05-30	1.69	219.04	219.55		219.61	0.007846	1.09	1.59	3.85	0.53
Reach 3	404	2017-06-20	1.74	219.04	219.56		219.62	0.007844	1.11	1.62	3.86	0.54
Reach 3	404	2018-06-13	1.18	219.04	219.46		219.51	0.008026	0.97	1.25	3.73	0.52
Reach 3	385	2017-05-30	1.69	218.75	219.47		219.5	0.003788	0.85	2.02	3.63	0.35
Reach 3	385	2017-06-20	1.74	218.75	219.47		219.51	0.003879	0.86	2.04	3.64	0.36
Reach 3	385	2018-06-13	1.18	218.75	219.39		219.42	0.00281	0.68	1.76	3.5	0.3
Reach 3	333	2017-05-30	1.69	218.65	219.43	218.93	219.44	0.000402	0.34	5	7.7	0.13
Reach 3	333	2017-06-20	1.74	218.65	219.44	218.93	219.44	0.000415	0.35	5.04	7.71	0.14
Reach 3	333	2018-06-13	1.18	218.65	219.37	218.89	219.37	0.000268	0.26	4.52	7.63	0.11
Reach 3	Bradford St		Culvert									
Reach 3	182	2017-05-30	1.69	218.86	219.43		219.44	0.001708	0.48	3.63	11.23	0.26
Reach 3	182	2017-06-20	1.74	218.86	219.43		219.44	0.001717	0.48	3.69	11.26	0.27
Reach 3	182	2018-06-13	1.18	218.86	219.36		219.37	0.001608	0.41	2.95	10.83	0.25
Reach 3	162	2017-05-30	1.69	218.88	219.23	219.23	219.32	0.029129	1.31	1.29	7.55	1.01
Reach 3	162	2017-06-20	1.74	218.88	219.24	219.24	219.33	0.029071	1.32	1.32	7.66	1.01
Reach 3	162	2018-06-13	1.18	218.88	219.19	219.19	219.26	0.030695	1.24	0.95	6.2	1.01
Reach 3	135	2017-05-30	1.69	217.5	219.13	217.65	219.13	0.000007	0.1	17.07	11	0.03
Reach 3	135	2017-06-20	1.74	217.5	219.13	217.66	219.13	0.000008	0.1	17.07	11	0.03
Reach 3	135	2018-06-13	1.18	217.5	219.13	217.63	219.13	0.000003	0.07	17.07	11	0.02
Reach 3	Lakeshore Drive		Bridge									
Reach 3	87	2017-05-30	1.69	217.5	219.13		219.13	0.000007	0.08	20.75	17.26	0.02
Reach 3	87	2017-06-20	1.74	217.5	219.13		219.13	0.000007	0.08	20.75	17.26	0.02
Reach 3	87	2018-06-13	1.18	217.5	219.13		219.13	0.000003	0.06	20.75	17.26	0.01
Reach 3	45	2017-05-30	1.69	217.4	219.13	217.51	219.13	0.000002	0.05	30.84	18.9	0.01
Reach 3	45	2017-06-20	1.74	217.4	219.13	217.51	219.13	0.000002	0.06	30.84	18.9	0.01
Reach 3	45	2018-06-13	1.18	217.4	219.13	217.49	219.13	0.000001	0.04	30.84	18.9	0.01
Reach 3	Pedestrain Bridg		Bridge									
Reach 3	8	2017-05-30	1.69	217.4	219.13		219.13	0.000009	0.07	24.82	16.26	0.02
Reach 3	8	2017-06-20	1.74	217.4	219.13		219.13	0.00001	0.07	24.82	16.26	0.02
Reach 3	8	2018-06-13	1.18	217.4	219.13		219.13	0.000005	0.05	24.82	16.26	0.01
Reach 3	2	2017-05-30	1.69	217.31	219.13	217.34	219.13	0	0	376.99	207.53	0
Reach 3	2	2017-06-20	1.74	217.31	219.13	217.34	219.13	0	0	376.99	207.53	0
Reach 3	2	2018-06-13	1.18	217.31	219.13	217.33	219.13	0	0	376.99	207.53	0

Hotchkiss Creek - Supplemental Flow Scenarios

Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
			(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
Reach 3	906	100 Year	72.18	224.89	227.15	226.23	227.16	0.000056	0.51	163.3	198.03	0.13
Reach 3	906	100 Year w	86.26	224.89	227.21	226.29	227.22	0.000065	0.57	175	205.02	0.14
Reach 3	906	Hazel	51.81	224.89	227.05	226.15	227.06	0.00004	0.41	144.4	193.85	0.11
Reach 3	906	Hazel w CC	62.24	224.89	227.1	226.19	227.11	0.000048	0.46	154.27	196.55	0.12
Reach 3	882	100 Year	72.18	225.17	227.15		227.16	0.000034	0.33	183.22	275.12	0.08
Reach 3	882	100 Year w	86.26	225.17	227.21		227.22	0.000041	0.37	193.4	277.91	0.08
Reach 3	882	Hazel	51.81	225.17	227.05		227.06	0.000024	0.27	166.73	269.07	0.06
Reach 3	882	Hazel w CC	62.24	225.17	227.1		227.11	0.000029	0.3	175.35	273.51	0.07
Reach 3	871	100 Year	72.18	225.39	227.15		227.16	0.000019	0.25	287.88	333.05	0.09
Reach 3	871	100 Year w	86.26	225.39	227.22		227.22	0.000022	0.28	308.46	333.05	0.09
Reach 3	871	Hazel	51.81	225.39	227.05		227.06	0.000014	0.2	255.51	317.06	0.07
Reach 3	871	Hazel w CC	62.24	225.39	227.11		227.11	0.000017	0.23	272.21	324.6	0.08
Reach 3	862	100 Year	72.18	225.79	227.15		227.16	0.000043	0.28	247.47	309.66	0.09
Reach 3	862	100 Year w	86.26	225.79	227.21		227.22	0.00005	0.31	266.57	313.07	0.1
Reach 3	862	Hazel	51.81	225.79	227.05		227.06	0.000032	0.22	217.14	301.73	0.07
Reach 3	862	Hazel w CC	62.24	225.79	227.1		227.11	0.000038	0.25	232.87	306.47	0.08
Reach 3	852	100 Year	72.18	225.65	227.15		227.16	0.000072	0.42	168.97	227.47	0.15
Reach 3	852	100 Year w	86.26	225.65	227.21		227.22	0.000081	0.47	182.87	233.12	0.16
Reach 3	852	Hazel	51.81	225.65	227.05		227.06	0.000055	0.34	147.17	221.05	0.13
Reach 3	852	Hazel w CC	62.24	225.65	227.1		227.11	0.000064	0.38	158.5	223.48	0.14
Reach 3	827	100 Year	72.18	226.09	227.13		227.15	0.000143	0.72	135.47	200.73	0.24
Reach 3	827	100 Year w	86.26	226.09	227.19		227.21	0.000162	0.8	147.05	202.97	0.25
Reach 3	827	Hazel	51.81	226.09	227.04		227.05	0.000108	0.59	117.1	193.62	0.2
Reach 3	827	Hazel w CC	62.24	226.09	227.09		227.11	0.000126	0.66	126.61	196.93	0.22
Reach 3	809	100 Year	72.18	225.86	227.13		227.15	0.000173	0.64	118.8	196.67	0.24
Reach 3	809	100 Year w	86.26	225.86	227.19		227.21	0.000193	0.69	130.25	199.5	0.26
Reach 3	809	Hazel	51.81	225.86	227.04		227.05	0.000138	0.56	100.68	190.83	0.22
Reach 3	809	Hazel w CC	62.24	225.86	227.09		227.1	0.000157	0.61	110.08	192.46	0.23
Reach 3	780	100 Year	72.18	226.49	226.99	226.96	227.13	0.003499	0.34	51.63	175.09	0.26
Reach 3	780	100 Year w	86.26	226.49	227.05	227.01	227.19	0.002983	0.37	61.72	176.96	0.25
Reach 3	780	Hazel	51.81	226.49	226.91	226.9	227.03	0.004371	0.34	37.85	157.09	0.28
Reach 3	780	Hazel w CC	62.24	226.49	226.96	226.93	227.08	0.003776	0.34	45.19	164.37	0.27
Reach 3	758	100 Year	72.18	226.25	226.83	226.83	227.02	0.006901	0.57	39.97	111.31	0.38
Reach 3	758	100 Year w	86.26	226.25	226.88	226.88	227.09	0.006659	0.58	45.85	118.58	0.37
Reach 3	758	Hazel	51.81	226.25	226.74	226.74	226.9	0.007609	0.54	30.86	101.01	0.39
Reach 3	758	Hazel w CC	62.24	226.25	226.79	226.79	226.96	0.007385	0.56	35.33	106.61	0.38
Reach 3	750	100 Year	72.18	225.66	226.51	226.51	226.76	0.0126	1.23	34.96	73.48	0.57
Reach 3	750	100 Year w	86.26	225.66	226.59	226.59	226.84	0.011962	1.26	40.98	82.59	0.56
Reach 3	750	Hazel	51.81	225.66	226.37	226.37	226.61	0.01587	1.23	25.47	58.61	0.62
Reach 3	750	Hazel w CC	62.24	225.66	226.46	226.46	226.69	0.01273	1.17	31.33	68.42	0.57
Reach 3	738	100 Year	72.83	222.16	226.3		226.33	0.00038	1.05	124.48	89.88	0.17
Reach 3	738	100 Year w	87.1	222.16	226.52		226.55	0.000375	1.08	144.15	94.57	0.17
Reach 3	738	Hazel	52.29	222.16	226.02		226.04	0.000335	0.94	99.86	83.57	0.16
Reach 3	738	Hazel w CC	62.82	222.16	226.16		226.19	0.000368	1.01	111.96	87.01	0.17
Reach 3	692	100 Year	75.07	222.08	226.3		226.32	0.000159	0.82	205.43	105.36	0.13
Reach 3	692	100 Year w	89.64	222.08	226.52		226.53	0.000172	0.88	228.15	110.51	0.14
Reach 3	692	Hazel	54.6	222.08	226.02		226.03	0.000125	0.69	176.22	101.54	0.11
Reach 3	692	Hazel w CC	65.64	222.08	226.16		226.17	0.000148	0.77	190.71	103.35	0.12
Reach 3	617	100 Year	75.07	221.56	226.22		226.29	0.000796	1.42	73.83	35.6	0.21
Reach 3	617	100 Year w	89.64	221.56	226.42		226.5	0.000884	1.54	82.02	45.09	0.23
Reach 3	617	Hazel	54.6	221.56	225.97		226.01	0.000509	1.09	66.3	24.84	0.17
Reach 3	617	Hazel w CC	65.64	221.56	226.1		226.15	0.000655	1.26	69.74	29.57	0.19

Reach 3	613	100 Year	75.07	221.32	225.7	224.26	226.24	0.003409	3.21	23.99	21.56	0.5
Reach 3	613	100 Year w	89.64	221.32	225.63	224.58	226.42	0.005154	3.9	23.57	21.06	0.62
Reach 3	613	Hazel	54.6	221.32	225.7	223.78	225.98	0.001803	2.33	23.99	21.56	0.37
Reach 3	613	Hazel w CC	65.64	221.32	225.7	224.04	226.11	0.002607	2.8	23.99	21.56	0.44

Hotchkiss Creek - Calibration +25% Mannings

Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
			(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
Reach 1	2233	100 Year	19.33	233.66	235.81		235.81	0.00019	0.24	81.46	102.56	0.09
Reach 1	2233	Hazel	13.21	233.66	235.71		235.71	0.000143	0.19	70.87	102.03	0.07
Reach 1	2233	Hazel w CC	15.92	233.66	235.78		235.78	0.000146	0.21	78.47	102.43	0.07
Reach 1	2200	100 Year	19.33	233.23	235.81		235.81	0.00005	0.13	114.94	178.12	0.03
Reach 1	2200	Hazel	13.21	233.23	235.7		235.7	0.000034	0.1	98.48	142.5	0.02
Reach 1	2200	Hazel w CC	15.92	233.23	235.78		235.78	0.000038	0.11	109.93	169.92	0.03
Reach 1	2150	100 Year	19.33	233.17	235.81		235.81	0.000028	0.1	152.16	173.8	0.02
Reach 1	2150	Hazel	13.21	233.17	235.7		235.7	0.000018	0.08	135.13	155.92	0.02
Reach 1	2150	Hazel w CC	15.92	233.17	235.78		235.78	0.000021	0.08	147.28	169.12	0.02
Reach 1	2104	100 Year	19.33	232.67	235.8		235.81	0.000019	0.09	194.62	191.14	0.02
Reach 1	2104	Hazel	13.21	232.67	235.7		235.7	0.000012	0.07	176.29	169.4	0.01
Reach 1	2104	Hazel w CC	15.92	232.67	235.78		235.78	0.000014	0.07	189.34	185.17	0.02
Reach 1	2057	100 Year	19.33	232.4	235.8		235.8	0.000018	0.1	179.13	173.05	0.02
Reach 1	2057	Hazel	13.21	232.4	235.7		235.7	0.000011	0.08	162.27	160.25	0.02
Reach 1	2057	Hazel w CC	15.92	232.4	235.78		235.78	0.000013	0.09	174.38	167.11	0.02
Reach 1	2012	100 Year	19.33	231.88	235.8		235.8	0.000003	0.05	339.86	368.21	0.01
Reach 1	2012	Hazel	13.21	231.88	235.7		235.7	0.000002	0.04	306.59	303.01	0.01
Reach 1	2012	Hazel w CC	15.92	231.88	235.78		235.78	0.000002	0.05	329.99	338.74	0.01
Reach 1	1962	100 Year	20.21	231.68	235.8		235.8	0.000001	0.03	448.63	381.45	0
Reach 1	1962	Hazel	14.15	231.68	235.7		235.7	0.000001	0.02	411.34	342.39	0
Reach 1	1962	Hazel w CC	17.06	231.68	235.78		235.78	0.000001	0.03	438.03	378.69	0
Reach 1	1925	100 Year	20.21	231.63	235.8		235.8	0.000001	0.03	612.3	429.51	0
Reach 1	1925	Hazel	14.15	231.63	235.7		235.7	0	0.02	569.78	409.86	0
Reach 1	1925	Hazel w CC	17.06	231.63	235.78		235.78	0	0.02	600.49	420.26	0
Reach 1	1886	100 Year	43.17	231.82	235.8		235.8	0.000003	0.04	687.92	398.48	0.01
Reach 1	1886	Hazel	33.69	231.82	235.7		235.7	0.000002	0.03	647.38	397.84	0.01
Reach 1	1886	Hazel w CC	39.93	231.82	235.78		235.78	0.000002	0.04	676.82	398.29	0.01
Reach 1	1885		Lat Struct									
Reach 1	1860	100 Year	40.36	231.37	235.8		235.8	0.000002	0.05	778.25	488.5	0.01
Reach 1	1860	Hazel	32.71	231.37	235.7		235.7	0.000002	0.04	728.52	488.13	0.01
Reach 1	1860	Hazel w CC	37.95	231.37	235.78		235.78	0.000002	0.04	764.63	488.4	0.01
Reach 1	1824.1	100 Year	32.22	230.76	235.8		235.8	0.000001	0.03	971.74	553.61	0
Reach 1	1824.1	Hazel	28.41	230.76	235.7		235.7	0.000001	0.03	915.37	553.24	0
Reach 1	1824.1	Hazel w CC	31.19	230.76	235.78		235.78	0.000001	0.03	956.31	553.49	0
Reach 1	1799	100 Year	22.31	230.15	235.8	231.62	235.8	0.000054	0.34	78.27	561.99	0.05
Reach 1	1799	Hazel	22.03	230.15	235.69	231.62	235.7	0.000057	0.34	75.36	558.42	0.05
Reach 1	1799	Hazel w CC	22.22	230.15	235.77	231.62	235.77	0.000055	0.34	77.47	561.81	0.05
Reach 1	Hwy 400		Culvert									
Reach 1	1706.5	100 Year	22.31	229.65	231.72		231.84	0.004503	1.56	14.34	37.3	0.37
Reach 1	1706.5	Hazel	22.03	229.65	231.72		231.84	0.004399	1.54	14.33	37.29	0.37
Reach 1	1706.5	Hazel w CC	22.22	229.65	231.72		231.85	0.004439	1.55	14.36	37.36	0.37
Reach 1	1675	100 Year	22.31	228.94	231.71		231.73	0.001118	0.75	40.16	39.49	0.18
Reach 1	1675	Hazel	22.03	228.94	231.71		231.73	0.001092	0.74	40.14	39.48	0.18
Reach 1	1675	Hazel w CC	22.22	228.94	231.71		231.73	0.001098	0.74	40.32	39.56	0.18
Reach 1	1637	100 Year	22.31	228.78	231.69		231.7	0.000468	0.59	56.53	48.95	0.13
Reach 1	1637	Hazel	22.03	228.78	231.69		231.7	0.000457	0.58	56.52	48.95	0.13
Reach 1	1637	Hazel w CC	22.22	228.78	231.69		231.7	0.00046	0.58	56.75	49.02	0.13

Reach 1	1606	100 Year	22.9	228.73	231.68		231.69	0.000359	0.49	62.31	47.01	0.11
Reach 1	1606	Hazel	22.97	228.73	231.68		231.69	0.000361	0.49	62.3	47	0.11
Reach 1	1606	Hazel w CC	23.34	228.73	231.68		231.69	0.00037	0.5	62.5	47.14	0.11
Reach 1	1573	100 Year	22.9	228.71	231.65	231.3	231.66	0.001883	0.67	55.28	115.06	0.21
Reach 1	1573	Hazel	22.97	228.71	231.65	231.3	231.66	0.001901	0.68	55.23	115	0.21
Reach 1	1573	Hazel w CC	23.34	228.71	231.65	231.3	231.67	0.001916	0.68	55.68	115.46	0.21
Reach 1	1475		Culvert									
Reach 1	1375.4	100 Year	22.9	227.54	230.67	229.93	231.36	0.005756	3.68	6.22	34.51	0.67
Reach 1	1375.4	Hazel	22.97	227.54	230.63	229.93	231.35	0.006049	3.74	6.14	32.71	0.68
Reach 1	1375.4	Hazel w CC	23.34	227.54	230.64		231.37	0.006204	3.79	6.15	32.99	0.69
Reach 1	1351.8	100 Year	22.9	226.89	231.15		231.15	0.000072	0.24	97.81	92.34	0.04
Reach 1	1351.8	Hazel	22.97	226.89	231.12		231.13	0.000079	0.25	95.58	91.89	0.04
Reach 1	1351.8	Hazel w CC	23.34	226.89	231.14		231.15	0.000076	0.24	97.46	92.27	0.04
Reach 1	1333.7	100 Year	22.9	226.73	231.15		231.15	0.000042	0.18	125.22	108.31	0.03
Reach 1	1333.7	Hazel	22.97	226.73	231.12		231.13	0.000045	0.18	122.74	106.24	0.03
Reach 1	1333.7	Hazel w CC	23.34	226.73	231.14		231.15	0.000044	0.18	124.83	107.99	0.03
Reach 1	1311.5	100 Year	22.9	226.41	231.15		231.15	0.00002	0.12	179.14	164.93	0.02
Reach 1	1311.5	Hazel	22.97	226.41	231.12		231.12	0.000022	0.12	175.59	151.63	0.02
Reach 1	1311.5	Hazel w CC	23.34	226.41	231.14		231.14	0.000021	0.12	178.58	163.77	0.02
Reach 1	1290.5	100 Year	22.9	226.24	231.15		231.15	0.000011	0.11	232.49	154.85	0.02
Reach 1	1290.5	Hazel	22.97	226.24	231.12		231.12	0.000011	0.11	228.85	150.88	0.02
Reach 1	1290.5	Hazel w CC	23.34	226.24	231.14		231.14	0.000011	0.11	231.92	154.28	0.02
Reach 1	1265.1	100 Year	22.9	225.91	231.15		231.15	0.000021	0.11	220.99	197.53	0.02
Reach 1	1265.1	Hazel	22.97	225.91	231.12		231.12	0.000023	0.11	216.22	195.98	0.02
Reach 1	1265.1	Hazel w CC	23.34	225.91	231.14		231.14	0.000022	0.11	220.24	197.29	0.02
Reach 1	1250.7	100 Year	22.9	225.65	231.15		231.15	0.000019	0.13	295.73	210.98	0.02
Reach 1	1250.7	Hazel	22.97	225.65	231.12		231.12	0.00002	0.14	290.61	210.19	0.02
Reach 1	1250.7	Hazel w CC	23.34	225.65	231.14		231.14	0.00002	0.14	294.92	210.86	0.02
Reach 1	1233.7	100 Year	31.44	225.62	231.15		231.15	0.000028	0.17	331.14	199.44	0.03
Reach 1	1233.7	Hazel	28.46	225.62	231.12		231.12	0.000024	0.16	326.38	195.66	0.02
Reach 1	1233.7	Hazel w CC	30.38	225.62	231.14		231.14	0.000026	0.17	330.39	198.41	0.02
Reach 1	1203	100 Year	31.44	225.44	231.14	227.68	231.15	0.000062	0.29	194.15	122.55	0.05
Reach 1	1203	Hazel	28.46	225.44	231.12	227.54	231.12	0.000053	0.27	191.27	121.19	0.05
Reach 1	1203	Hazel w CC	30.38	225.44	231.14	227.64	231.14	0.000058	0.28	193.71	122.23	0.05
Reach 1	1186		Culvert									
Reach 1	1180	100 Year	31.44	224.58	229.34		229.36	0.000127	0.8	72.96	117.62	0.19
Reach 1	1180	Hazel	28.46	224.58	229.23		229.25	0.000185	0.92	59.17	116.71	0.23
Reach 1	1180	Hazel w CC	30.38	224.58	229.31		229.32	0.000142	0.84	68.42	117.38	0.2
Reach 2	1878	100 Year	0.1	233.69	234.84		234.84	0	0	234.88	320.94	0
Reach 2	1878	Hazel	0.1	233.69	234.46		234.46	0	0	123.86	269.47	0
Reach 2	1878	Hazel w CC	0.1	233.69	234.61		234.61	0	0	166.81	283.52	0
Reach 2	1838	100 Year	28.56	233.76	234.84		234.84	0.000015	0.21	193.13	322.84	0.07
Reach 2	1838	Hazel	11.76	233.76	234.45		234.46	0.000014	0.15	89.59	202.12	0.06
Reach 2	1838	Hazel w CC	17.81	233.76	234.61		234.61	0.000016	0.18	124.68	257.01	0.06
Reach 2	1799	100 Year	28.56	233.9	234.84		234.84	0.000047	0.33	139.21	294.79	0.11
Reach 2	1799	Hazel	11.76	233.9	234.45		234.45	0.000066	0.26	51.61	143.69	0.12
Reach 2	1799	Hazel w CC	17.81	233.9	234.61		234.61	0.00006	0.3	79.62	206.13	0.12
Reach 2	1763	100 Year	28.56	233.94	234.84		234.84	0.000035	0.27	167.66	283.38	0.1
Reach 2	1763	Hazel	11.76	233.94	234.45		234.45	0.000046	0.2	73.01	186.43	0.1
Reach 2	1763	Hazel w CC	17.81	233.94	234.61		234.61	0.000043	0.24	106.39	232.64	0.1
Reach 2	1721	100 Year	28.56	233.76	234.68	234.46	234.82	0.001983	1.79	19.57	268.46	0.63

Reach 2	1721	Hazel	11.76	233.76	234.37	234.21	234.44	0.001666	1.21	11.63	199.48	0.53
Reach 2	1721	Hazel w CC	17.81	233.76	234.5	234.31	234.59	0.001816	1.46	14.86	220.04	0.58
Reach 2	1675	Bridge										
Reach 2	1626	100 Year	28.56	233.19	233.92	233.92	234.19	0.003821	2.46	14.04	180.46	0.98
Reach 2	1626	Hazel	11.76	233.19	233.65	233.65	233.81	0.004344	1.84	6.94	172.94	0.95
Reach 2	1626	Hazel w CC	17.81	233.19	233.75	233.75	233.96	0.004226	2.13	9.49	176.81	0.98
Reach 2	1573	100 Year	28.56	232.73	233.36	232.85	233.37	0.00064	0.86	100.26	178.73	0.36
Reach 2	1573	Hazel	11.76	232.73	233.09	232.76	233.1	0.00073	0.6	54.26	162.53	0.35
Reach 2	1573	Hazel w CC	17.81	232.73	233.21	232.81	233.22	0.000637	0.7	73.99	170.92	0.34
Reach 2	1535	100 Year	28.56	232.42	233.13	233.13	233.31	0.00284	2.14	19.08	57.45	0.84
Reach 2	1535	Hazel	11.76	232.42	232.87	232.87	233.02	0.003909	1.81	7.91	32.6	0.91
Reach 2	1535	Hazel w CC	17.81	232.42	232.99	232.99	233.15	0.003312	1.97	11.96	40.17	0.87
Reach 2	1506	100 Year	28.56	232.25	232.86	232.86	232.97	0.003353	1.83	26.62	105.94	0.78
Reach 2	1506	Hazel	11.76	232.25	232.7	232.7	232.79	0.003756	1.54	12.14	66.88	0.78
Reach 2	1506	Hazel w CC	17.81	232.25	232.77	232.77	232.87	0.003355	1.64	18.14	89.76	0.76
Reach 2	1472	100 Year	28.56	231.99	232.49	232.15	232.52	0.000859	0.94	39.65	99.26	0.44
Reach 2	1472	Hazel	11.76	231.99	232.3	231.93	232.31	0.000523	0.52	26.57	62.02	0.31
Reach 2	1472	Hazel w CC	17.81	231.99	232.39	232.01	232.4	0.000629	0.68	32.14	63.45	0.36
Reach 2	1438	100 Year	28.56	231.79	232.34	232.34	232.46	0.003741	1.9	21.95	89.72	0.87
Reach 2	1438	Hazel	11.76	231.79	232.17	232.15	232.26	0.005128	1.64	9.71	41.78	0.94
Reach 2	1438	Hazel w CC	17.81	231.79	232.25	232.25	232.36	0.00432	1.76	14.01	70.02	0.9
Reach 2	1410	100 Year	28.56	231.6	232.21	232.21	232.34	0.003394	2.03	34.24	119.67	0.89
Reach 2	1410	Hazel	11.76	231.6	232.07	232.07	232.16	0.00287	1.5	17.24	111.81	0.77
Reach 2	1410	Hazel w CC	17.81	231.6	232.13	232.13	232.23	0.003052	1.72	24.52	116.12	0.82
Reach 2	1379	100 Year	28.56	231.4	231.73	231.73	231.82	0.009026	1.86	22.07	108.25	1.11
Reach 2	1379	Hazel	11.76	231.4	231.64	231.64	231.69	0.008587	1.41	12.7	101.46	1.02
Reach 2	1379	Hazel w CC	17.81	231.4	231.67	231.67	231.74	0.009243	1.63	16.14	104.29	1.09
Reach 2	1332	100 Year	28.56	231.05	231.41	231.29	231.45	0.001548	0.9	34.1	118.91	0.51
Reach 2	1332	Hazel	11.76	231.05	231.24	231.19	231.27	0.002239	0.65	15.67	96.44	0.54
Reach 2	1332	Hazel w CC	17.81	231.05	231.32	231.23	231.35	0.001712	0.75	23.86	112.63	0.51
Reach 2	1291	100 Year	28.56	230.6	231.24	231.24	231.36	0.002592	1.84	21.75	78	0.78
Reach 2	1291	Hazel	11.76	230.6	231.08	231.08	231.17	0.002481	1.44	10.56	60.87	0.73
Reach 2	1291	Hazel w CC	17.81	230.6	231.14	231.14	231.26	0.002936	1.71	14.16	70.88	0.81
Reach 2	1256	100 Year	28.56	230.18	230.71	230.71	230.83	0.005806	1.66	20.03	79.41	0.82
Reach 2	1256	Hazel	11.76	230.18	230.57	230.57	230.65	0.005608	1.28	9.68	63.34	0.78
Reach 2	1256	Hazel w CC	17.81	230.18	230.63	230.63	230.72	0.005989	1.49	13.86	73.34	0.81
Reach 2	1228	100 Year	28.56	229.89	230.15	230.13	230.21	0.0046	1.01	25.73	138.62	0.7
Reach 2	1228	Hazel	11.76	229.89	230.07	230.05	230.1	0.00492	0.76	14.71	136.76	0.67
Reach 2	1228	Hazel w CC	17.81	229.89	230.1	230.08	230.15	0.004511	0.85	19.48	137.86	0.67
Reach 2	1172	100 Year	28.56	229.44	229.89	229.89	229.96	0.004701	1.51	25.43	162.3	0.8
Reach 2	1172	Hazel	11.76	229.44	229.8	229.8	229.85	0.004313	1.23	13.34	122.3	0.74
Reach 2	1172	Hazel w CC	17.81	229.44	229.84	229.84	229.9	0.004581	1.36	17.94	140.3	0.78
Reach 2	1135	100 Year	28.56	229.02	229.4	229.07	229.46	0.000697	0.51	29.8	85.47	0.28
Reach 2	1135	Hazel	11.76	229.02	229.23	228.86	229.25	0.000296	0.21	20.49	42.43	0.16
Reach 2	1135	Hazel w CC	17.81	229.02	229.3	228.94	229.33	0.00046	0.32	23.61	46.25	0.22
Reach 2	1093	100 Year	28.56	228.2	229.42	228.67	229.44	0.000102	0.54	68	123.59	0.16
Reach 2	1093	Hazel	11.76	228.2	229.24	228.51	229.24	0.000033	0.27	49.53	68.86	0.09
Reach 2	1093	Hazel w CC	17.81	228.2	229.31	228.57	229.32	0.000057	0.38	55.79	98.98	0.12
Reach 3	1067	100 Year	65.44	224.58	229.42		229.43	0.000053	0.36	203.4	131.48	0.05
Reach 3	1067	Hazel	42.03	224.58	229.24		229.24	0.000033	0.28	179.24	128.97	0.04
Reach 3	1067	Hazel w CC	50.35	224.58	229.31		229.32	0.00004	0.31	189.03	129.12	0.05

Reach 3	1053	100 Year	65.39	224.47	229.42		229.43	0.000049	0.43	234.79	132.71	0.06
Reach 3	1053	Hazel	42.06	224.47	229.24		229.24	0.000029	0.32	210.35	130.88	0.05
Reach 3	1053	Hazel w CC	50.46	224.47	229.31		229.32	0.000036	0.37	220.26	130.94	0.05
Reach 3	1037	100 Year	65.39	224.01	229.42	227.68	229.43	0.000024	0.24	253.26	127.37	0.04
Reach 3	1037	Hazel	42.06	224.01	229.24	227.52	229.24	0.000014	0.18	229.62	126.9	0.03
Reach 3	1037	Hazel w CC	50.46	224.01	229.31	227.59	229.31	0.000017	0.2	239.25	127.07	0.03
Reach 3	5	Tiffin St		Culvert								
Reach 3	978	100 Year	65.39	223.36	227.8	226.86	228.24	0.005232	3.42	35.41	67.51	0.55
Reach 3	978	Hazel	42.06	223.36	227.74		227.94	0.002471	2.33	31.42	50.49	0.37
Reach 3	978	Hazel w CC	50.46	223.36	227.78	226.46	228.05	0.003283	2.7	33.89	61.77	0.43
Reach 3	968	100 Year	65.39	223.54	227.92		228.07	0.001673	2.18	52.14	136.36	0.35
Reach 3	968	Hazel	42.06	223.54	227.79		227.87	0.000831	1.5	44.77	83.43	0.24
Reach 3	968	Hazel w CC	50.46	223.54	227.85		227.95	0.001109	1.75	47.53	104.55	0.28
Reach 3	958	100 Year	65.39	223.39	227.97	227.12	228.03	0.000787	1.28	74.82	196.59	0.23
Reach 3	958	Hazel	42.06	223.39	227.81	226.5	227.85	0.000555	1.04	60.83	175.82	0.19
Reach 3	958	Hazel w CC	50.46	223.39	227.88	226.68	227.92	0.000633	1.13	66.45	182.75	0.21
Reach 3		Parking Lot		Culvert								
Reach 3	906	100 Year	65.39	224.89	226.92	226.21	226.94	0.000188	0.66	112.94	178.75	0.19
Reach 3	906	Hazel	42.06	224.89	226.63	226.1	226.65	0.000259	0.64	68.8	120.89	0.21
Reach 3	906	Hazel w CC	50.46	224.89	226.73	226.15	226.75	0.000243	0.67	81.9	146.04	0.2
Reach 3	882	100 Year	86.26	225.17	226.89	226.61	226.93	0.000544	1.27	99.34	242.09	0.36
Reach 3	882	Hazel	51.81	225.17	226.53	226.5	226.63	0.001724	2.02	46.17	146.02	0.67
Reach 3	882	Hazel w CC	62.24	225.17	226.68	226.54	226.73	0.000911	1.54	66.9	179.9	0.48
Reach 3		Anne St		Culvert								
Reach 3	740	100 Year	86.26	222.18	226.75	226.75	226.9	0.009127	2.43	57.54	136.62	0.43
Reach 3	740	Hazel	51.81	222.18	225.77	224.78	226.2	0.012969	2.85	17.77	27.8	0.51
Reach 3	740	Hazel w CC	62.24	222.18	225.9	225.03	226.47	0.01617	3.27	18.56	29.58	0.57
Reach 3	711	100 Year	87.1	222.02	226.78	223.55	226.78	0.000068	0.48	359.99	179.18	0.07
Reach 3	711	Hazel	52.29	222.02	226.06	223.33	226.07	0.000054	0.38	268.35	112.13	0.06
Reach 3	711	Hazel w CC	62.82	222.02	226.29	223.41	226.3	0.00006	0.42	294.26	113.23	0.07
Reach 3	683	100 Year	87.1	221.99	226.77	223.76	226.78	0.000228	0.79	237.01	129.51	0.12
Reach 3	683	Hazel	52.29	221.99	226.05	223.41	226.06	0.000211	0.68	164.66	93.14	0.11
Reach 3	683	Hazel w CC	62.82	221.99	226.28	223.52	226.29	0.00022	0.72	186.19	94.63	0.11
Reach 3	648	100 Year	89.64	221.61	226.75		226.77	0.000326	0.9	187.04	107.58	0.13
Reach 3	648	Hazel	54.6	221.61	226.04		226.05	0.000314	0.79	123.72	81.41	0.12
Reach 3	648	Hazel w CC	65.64	221.61	226.27		226.28	0.000328	0.84	142.71	84.82	0.13
Reach 3	613	100 Year	89.64	221.32	225.7	224.62	226.5	0.010553	3.71	23.99	21.56	0.58
Reach 3	613	Hazel	54.6	221.32	225.63	223.79	225.94	0.004146	2.3	23.58	21.07	0.36
Reach 3	613	Hazel w CC	65.64	221.32	225.7	224.06	226.13	0.005659	2.72	23.99	21.56	0.43
Reach 3		Innisfil St		Culvert								
Reach 3	572	100 Year	89.64	221.11	224.46	224.46	225.88	0.032015	5.78	17.41	22	1.03
Reach 3	572	Hazel	54.6	221.11	223.66	223.66	224.68	0.034075	4.93	12.62	14.09	1.01
Reach 3	572	Hazel w CC	65.64	221.11	223.92	223.92	225.08	0.033501	5.23	14.2	14.96	1.02
Reach 3	544	100 Year	89.64	220.76	223.45	223.45	223.8	0.011755	3.48	41.26	52.65	0.7
Reach 3	544	Hazel	54.6	220.76	223.16	223.16	223.48	0.011008	3.11	26.76	44.62	0.66
Reach 3	544	Hazel w CC	65.64	220.76	223.27	223.27	223.6	0.011214	3.24	31.81	50.03	0.68
Reach 3	532	100 Year	89.64	220.68	223.32		223.63	0.010345	3.27	42.58	32.27	0.66
Reach 3	532	Hazel	54.6	220.68	222.95		223.18	0.008543	2.67	31.35	29.52	0.59
Reach 3	532	Hazel w CC	65.64	220.68	223.08		223.33	0.009178	2.88	35.12	30.26	0.61
Reach 3	520	100 Year	89.64	220.46	223.32		223.49	0.006922	2.38	52.38	35.91	0.47

Reach 3	520	Hazel	54.6	220.46	222.96		223.06	0.004978	1.83	40.41	31.34	0.39
Reach 3	520	Hazel w CC	65.64	220.46	223.08		223.21	0.005578	2	44.38	32.43	0.41
Reach 3	507	100 Year	89.64	220.29	223.28		223.4	0.004165	2.16	68.42	51.26	0.41
Reach 3	507	Hazel	54.6	220.29	222.92		223	0.003492	1.8	50.37	46.63	0.37
Reach 3	507	Hazel w CC	65.64	220.29	223.04		223.14	0.003766	1.93	56.39	48.37	0.38
Reach 3	485	100 Year	90.45	220.02	222.97		223.26	0.008414	2.78	40.93	38.28	0.54
Reach 3	485	Hazel	55.16	220.02	222.56		222.85	0.010927	2.84	26.44	32.53	0.6
Reach 3	485	Hazel w CC	66.14	220.02	222.76		223	0.008429	2.63	33.03	35.57	0.53
Reach 3	466	100 Year	90.45	219.52	222.61	222.56	223.02	0.017318	3.45	41.49	39.73	0.68
Reach 3	466	Hazel	55.16	219.52	222.09	222.09	222.55	0.021836	3.35	23.5	26.9	0.73
Reach 3	466	Hazel w CC	66.14	219.52	222.2	222.18	222.72	0.024011	3.63	26.68	29.63	0.77
Reach 3	447	100 Year	90.45	219.35	222.66		222.77	0.004876	1.98	72.85	61.8	0.37
Reach 3	447	Hazel	55.16	219.35	221.93		222.1	0.009937	2.34	35.74	41.68	0.5
Reach 3	447	Hazel w CC	66.14	219.35	222.28		222.39	0.005937	1.99	51.75	50.16	0.39
Reach 3	424	100 Year	90.45	219.17	222.65		222.69	0.001409	1.45	113.96	79.56	0.26
Reach 3	424	Hazel	55.16	219.17	221.86		221.95	0.003471	1.9	55.53	64.22	0.38
Reach 3	424	Hazel w CC	66.14	219.17	222.25		222.3	0.001829	1.52	83.01	76.17	0.29
Reach 3	404	100 Year	90.45	219.04	222.63		222.66	0.001117	1.32	125.88	79.68	0.23
Reach 3	404	Hazel	55.16	219.04	221.81		221.88	0.003039	1.82	63.24	73.33	0.36
Reach 3	404	Hazel w CC	66.14	219.04	222.23		222.27	0.001385	1.35	94.81	76.15	0.25
Reach 3	385	100 Year	92.2	218.75	222.61		222.64	0.00116	1.26	120.43	83.09	0.21
Reach 3	385	Hazel	56.25	218.75	221.76		221.82	0.002636	1.59	63.21	60.69	0.31
Reach 3	385	Hazel w CC	67.58	218.75	222.2		222.24	0.001366	1.26	90.82	64.94	0.23
Reach 3	333	100 Year	92.2	218.65	222.56	221.45	222.6	0.000665	1.1	114.68	94.72	0.18
Reach 3	333	Hazel	56.25	218.65	221.42	220.55	221.61	0.004115	2.14	37.33	40.15	0.42
Reach 3	333	Hazel w CC	67.58	218.65	222.1	220.76	222.16	0.001235	1.37	74.98	76.33	0.24
Reach 3	Bradford St	Culvert										
Reach 3	182	100 Year	92.2	218.86	221.44		221.57	0.003152	1.98	66.12	79.34	0.41
Reach 3	182	Hazel	56.25	218.86	220.42	220.42	221.02	0.022209	3.56	17	59.26	0.99
Reach 3	182	Hazel w CC	67.58	218.86	220.58	220.58	221.25	0.021471	3.79	19.21	61.79	0.99
Reach 3	162	100 Year	91.54	218.88	221.48		221.5	0.000314	0.63	140.37	101.43	0.13
Reach 3	162	Hazel	56.53	218.88	220.25	220.25	220.47	0.01145	2.29	27.84	62.1	0.7
Reach 3	162	Hazel w CC	67.77	218.88	220.44		220.59	0.005556	1.78	40.96	76.84	0.5
Reach 3	135	100 Year	91.54	217.5	221.41	219.5	221.48	0.000806	1.34	97.77	105.82	0.23
Reach 3	135	Hazel	56.53	217.5	219.74	218.96	220.04	0.00426	2.42	23.67	16.97	0.52
Reach 3	135	Hazel w CC	67.77	217.5	220.1	219.13	220.42	0.003697	2.49	27.64	99.08	0.5
Reach 3	Lakeshore Drive	Bridge										
Reach 3	87	100 Year	91.54	217.5	220.04		220.44	0.00663	2.81	32.6	19.71	0.57
Reach 3	87	Hazel	56.53	217.5	219.47		219.73	0.005948	2.24	25.22	18.93	0.51
Reach 3	87	Hazel w CC	67.77	217.5	219.67		219.98	0.006168	2.44	27.82	19.47	0.53
Reach 3	45	100 Year	91.54	217.4	219.96	218.8	220.15	0.003185	1.92	48.28	22.57	0.4
Reach 3	45	Hazel	56.53	217.4	219.37	218.42	219.5	0.002828	1.59	35.56	20.3	0.38
Reach 3	45	Hazel w CC	67.77	217.4	219.58	218.55	219.72	0.002979	1.71	39.82	21.2	0.39
Reach 3	Pedestrain Bridg	Bridge										
Reach 3	8	100 Year	91.54	217.4	219.08	219.08	219.82	0.047511	3.82	23.96	16.11	1
Reach 3	8	Hazel	56.53	217.4	218.86		219.25	0.028127	2.75	20.58	15.41	0.76
Reach 3	8	Hazel w CC	67.77	217.4	218.77	218.77	219.41	0.049878	3.55	19.12	15.03	1
Reach 3	2	100 Year	91.54	217.31	219.13	217.58	219.13	0.000052	0.25	376.99	207.53	0.06
Reach 3	2	Hazel	56.53	217.31	219.13	217.51	219.13	0.00002	0.15	376.99	207.53	0.04
Reach 3	2	Hazel w CC	67.77	217.31	219.13	217.54	219.13	0.000029	0.18	376.99	207.53	0.04

Hotchkiss Creek - Calibration -25% Mannings

Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
			(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
Reach 1	2233	100 Year	19.33	233.66	235.8		235.81	0.00007	0.25	80.85	102.53	0.09
Reach 1	2233	Hazel	13.21	233.66	235.7		235.7	0.000053	0.19	70.21	101.98	0.07
Reach 1	2233	Hazel w CC	15.92	233.66	235.77		235.77	0.000055	0.21	77.59	102.39	0.08
Reach 1	2200	100 Year	19.33	233.23	235.8		235.8	0.000018	0.13	114.22	177.3	0.03
Reach 1	2200	Hazel	13.21	233.23	235.7		235.7	0.000013	0.1	97.74	141.69	0.02
Reach 1	2200	Hazel w CC	15.92	233.23	235.77		235.77	0.000014	0.11	108.72	167.22	0.03
Reach 1	2150	100 Year	19.33	233.17	235.8		235.8	0.00001	0.1	151.65	173.41	0.02
Reach 1	2150	Hazel	13.21	233.17	235.7		235.7	0.000007	0.08	134.45	154.98	0.02
Reach 1	2150	Hazel w CC	15.92	233.17	235.77		235.77	0.000008	0.08	146.21	167.95	0.02
Reach 1	2104	100 Year	19.33	232.67	235.8		235.8	0.000007	0.09	194.2	190.51	0.02
Reach 1	2104	Hazel	13.21	232.67	235.7		235.7	0.000004	0.07	175.63	169.11	0.01
Reach 1	2104	Hazel w CC	15.92	232.67	235.77		235.77	0.000005	0.07	188.25	184.27	0.02
Reach 1	2057	100 Year	19.33	232.4	235.8		235.8	0.000006	0.1	178.84	172.87	0.02
Reach 1	2057	Hazel	13.21	232.4	235.7		235.7	0.000004	0.08	161.69	159.58	0.02
Reach 1	2057	Hazel w CC	15.92	232.4	235.77		235.77	0.000005	0.09	173.47	166.54	0.02
Reach 1	2012	100 Year	19.33	231.88	235.8		235.8	0.000001	0.05	339.3	366.8	0.01
Reach 1	2012	Hazel	13.21	231.88	235.7		235.7	0.000001	0.04	305.53	302.65	0.01
Reach 1	2012	Hazel w CC	15.92	231.88	235.77		235.77	0.000001	0.05	328.19	333.92	0.01
Reach 1	1962	100 Year	20.21	231.68	235.8		235.8	0.000001	0.03	448.08	381.33	0
Reach 1	1962	Hazel	14.15	231.68	235.7		235.7	0	0.02	410.15	339.11	0
Reach 1	1962	Hazel w CC	17.06	231.68	235.77		235.77	0	0.03	436.03	377.83	0
Reach 1	1925	100 Year	20.21	231.63	235.8		235.8	0	0.03	611.69	428.28	0
Reach 1	1925	Hazel	14.15	231.63	235.7		235.7	0	0.02	568.37	409.7	0
Reach 1	1925	Hazel w CC	17.06	231.63	235.77		235.77	0	0.02	598.27	419.16	0
Reach 1	1886	100 Year	43.17	231.82	235.8		235.8	0.000001	0.04	687.36	398.47	0.01
Reach 1	1886	Hazel	33.69	231.82	235.7		235.7	0.000001	0.03	646.01	397.82	0.01
Reach 1	1886	Hazel w CC	39.93	231.82	235.77		235.77	0.000001	0.04	674.73	398.25	0.01
Reach 1	1885		Lat Struct									
Reach 1	1860	100 Year	40.56	231.37	235.8		235.8	0.000001	0.05	777.58	488.5	0.01
Reach 1	1860	Hazel	32.99	231.37	235.7		235.7	0.000001	0.04	726.85	488.12	0.01
Reach 1	1860	Hazel w CC	37.78	231.37	235.77		235.77	0.000001	0.04	762.09	488.38	0.01
Reach 1	1824.1	100 Year	32.56	230.76	235.8		235.8	0	0.03	971.01	553.61	0
Reach 1	1824.1	Hazel	28.92	230.76	235.7		235.7	0	0.03	913.49	553.23	0
Reach 1	1824.1	Hazel w CC	31.03	230.76	235.77		235.77	0	0.03	953.44	553.47	0
Reach 1	1799	100 Year	22.52	230.15	235.8	231.63	235.8	0.00002	0.34	78.23	561.97	0.05
Reach 1	1799	Hazel	22.23	230.15	235.69	231.62	235.7	0.000021	0.35	75.26	558.17	0.05
Reach 1	1799	Hazel w CC	22.42	230.15	235.76	231.63	235.77	0.00002	0.34	77.32	561.79	0.05
Reach 1	Hwy 400		Culvert									
Reach 1	1706.5	100 Year	22.52	229.65	231.64		231.78	0.001931	1.65	13.68	35.59	0.4
Reach 1	1706.5	Hazel	22.23	229.65	231.64		231.77	0.001872	1.62	13.7	35.62	0.4
Reach 1	1706.5	Hazel w CC	22.42	229.65	231.64		231.78	0.001892	1.63	13.73	35.66	0.4
Reach 1	1675	100 Year	22.52	228.94	231.67		231.69	0.000455	0.78	38.65	38.84	0.19
Reach 1	1675	Hazel	22.23	228.94	231.67		231.69	0.000441	0.77	38.72	38.86	0.19
Reach 1	1675	Hazel w CC	22.42	228.94	231.68		231.7	0.000444	0.77	38.87	38.92	0.19
Reach 1	1637	100 Year	22.52	228.78	231.67		231.68	0.000181	0.61	55.46	48.61	0.14
Reach 1	1637	Hazel	22.23	228.78	231.67		231.68	0.000176	0.6	55.55	48.64	0.14
Reach 1	1637	Hazel w CC	22.42	228.78	231.67		231.68	0.000177	0.6	55.73	48.69	0.14

Reach 1	1606	100 Year	23.11	228.73	231.66		231.67	0.000135	0.5	61.67	46.64	0.11
Reach 1	1606	Hazel	23.17	228.73	231.67		231.67	0.000135	0.5	61.75	46.67	0.11
Reach 1	1606	Hazel w CC	23.54	228.73	231.67		231.68	0.000139	0.51	61.91	46.75	0.11
Reach 1	1573	100 Year	23.11	228.71	231.65	231.3	231.66	0.000687	0.68	55.4	115.18	0.21
Reach 1	1573	Hazel	23.17	228.71	231.65	231.3	231.67	0.000683	0.68	55.6	115.38	0.21
Reach 1	1573	Hazel w CC	23.54	228.71	231.66	231.3	231.67	0.00069	0.68	56	115.79	0.21
Reach 1	1475		Culvert									
Reach 1	1375.4	100 Year	23.11	227.54	230.68		231.38	0.002089	3.7	6.24	36.03	0.67
Reach 1	1375.4	Hazel	23.17	227.54	230.62	229.95	231.35	0.002255	3.79	6.11	32.08	0.69
Reach 1	1375.4	Hazel w CC	23.54	227.54	230.64		231.38	0.00228	3.83	6.15	32.91	0.7
Reach 1	1351.8	100 Year	23.11	226.89	231.17		231.17	0.000025	0.23	99.81	93.03	0.04
Reach 1	1351.8	Hazel	23.17	226.89	231.13		231.13	0.000029	0.25	95.89	91.95	0.04
Reach 1	1351.8	Hazel w CC	23.54	226.89	231.16		231.16	0.000027	0.24	98.49	92.57	0.04
Reach 1	1333.7	100 Year	23.11	226.73	231.17		231.17	0.000015	0.17	127.51	109.4	0.03
Reach 1	1333.7	Hazel	23.17	226.73	231.13		231.13	0.000016	0.18	123.16	106.48	0.03
Reach 1	1333.7	Hazel w CC	23.54	226.73	231.16		231.16	0.000016	0.18	126.05	108.77	0.03
Reach 1	1311.5	100 Year	23.11	226.41	231.17		231.17	0.000007	0.11	182.5	166.87	0.02
Reach 1	1311.5	Hazel	23.17	226.41	231.13		231.13	0.000008	0.12	176.24	153.59	0.02
Reach 1	1311.5	Hazel w CC	23.54	226.41	231.16		231.16	0.000008	0.12	180.39	165.91	0.02
Reach 1	1290.5	100 Year	23.11	226.24	231.17		231.17	0.000004	0.11	235.95	159.15	0.02
Reach 1	1290.5	Hazel	23.17	226.24	231.13		231.13	0.000004	0.11	229.55	151.7	0.02
Reach 1	1290.5	Hazel w CC	23.54	226.24	231.16		231.16	0.000004	0.11	233.8	156.22	0.02
Reach 1	1265.1	100 Year	23.11	225.91	231.17		231.17	0.000007	0.11	225.58	199.81	0.02
Reach 1	1265.1	Hazel	23.17	225.91	231.13		231.13	0.000008	0.12	217.19	196.29	0.02
Reach 1	1265.1	Hazel w CC	23.54	225.91	231.16		231.16	0.000008	0.11	222.76	197.99	0.02
Reach 1	1250.7	100 Year	23.11	225.65	231.17		231.17	0.000007	0.13	300.66	211.72	0.02
Reach 1	1250.7	Hazel	23.17	225.65	231.13		231.13	0.000007	0.14	291.69	210.36	0.02
Reach 1	1250.7	Hazel w CC	23.54	225.65	231.16		231.16	0.000007	0.14	297.66	211.27	0.02
Reach 1	1233.7	100 Year	31.65	225.62	231.17		231.17	0.000001	0.17	335.87	200.87	0.03
Reach 1	1233.7	Hazel	28.66	225.62	231.13		231.13	0.000009	0.16	327.44	196.42	0.02
Reach 1	1233.7	Hazel w CC	30.58	225.62	231.16		231.16	0.000009	0.17	333.03	200.57	0.02
Reach 1	1203	100 Year	31.65	225.44	231.17	227.7	231.17	0.000022	0.29	197.17	124.71	0.05
Reach 1	1203	Hazel	28.66	225.44	231.13	227.55	231.13	0.000019	0.27	192	121.29	0.05
Reach 1	1203	Hazel w CC	30.58	225.44	231.15	227.65	231.16	0.000021	0.28	195.42	123.51	0.05
Reach 1	1186		Culvert									
Reach 1	1180	100 Year	31.65	224.58	229.34		229.36	0.000047	0.81	72.66	117.61	0.19
Reach 1	1180	Hazel	28.66	224.58	229.22		229.25	0.00007	0.94	58.52	116.67	0.23
Reach 1	1180	Hazel w CC	30.58	224.58	229.3		229.32	0.000053	0.84	68.17	117.36	0.2
Reach 2	1878	100 Year	0.1	233.69	234.83		234.83	0	0	229.47	311.84	0
Reach 2	1878	Hazel	0.1	233.69	234.41		234.41	0	0	111.89	263.08	0
Reach 2	1878	Hazel w CC	0.1	233.69	234.56		234.56	0	0	153.73	280.86	0
Reach 2	1838	100 Year	28.36	233.76	234.82		234.83	0.000006	0.21	187.64	318.85	0.07
Reach 2	1838	Hazel	11.56	233.76	234.41		234.41	0.000007	0.16	80.75	191.91	0.07
Reach 2	1838	Hazel w CC	17.61	233.76	234.56		234.56	0.000006	0.18	113.25	234.09	0.07
Reach 2	1799	100 Year	28.36	233.9	234.82		234.82	0.000018	0.34	134.32	292.09	0.12
Reach 2	1799	Hazel	11.56	233.9	234.41		234.41	0.000032	0.28	45.8	114.75	0.14
Reach 2	1799	Hazel w CC	17.61	233.9	234.56		234.56	0.000028	0.32	70.35	192.02	0.14
Reach 2	1763	100 Year	28.36	233.94	234.82		234.82	0.000014	0.28	163.22	281.14	0.1
Reach 2	1763	Hazel	11.56	233.94	234.41		234.41	0.00002	0.2	65.41	161.19	0.11
Reach 2	1763	Hazel w CC	17.61	233.94	234.56		234.56	0.00002	0.26	96.11	223.77	0.11
Reach 2	1721	100 Year	28.36	233.76	234.66	234.46	234.81	0.000764	1.82	19.09	263.08	0.65

Reach 2	1721	Hazel	11.56	233.76	234.31	234.21	234.4	0.000897	1.36	10.05	191.55	0.64
Reach 2	1721	Hazel w CC	17.61	233.76	234.43	234.31	234.55	0.000949	1.63	13.07	211.43	0.68
Reach 2	1675	Bridge										
Reach 2	1626	100 Year	28.36	233.19	233.91	233.91	234.18	0.001371	2.45	14.01	180.45	0.97
Reach 2	1626	Hazel	11.56	233.19	233.64	233.64	233.8	0.001567	1.83	6.86	172.83	0.95
Reach 2	1626	Hazel w CC	17.61	233.19	233.75	233.75	233.96	0.00151	2.12	9.45	176.69	0.97
Reach 2	1573	100 Year	28.36	232.73	233.33	232.85	233.34	0.000274	0.9	94.69	178.68	0.39
Reach 2	1573	Hazel	11.56	232.73	233.05	232.76	233.06	0.000359	0.64	48.16	157.31	0.4
Reach 2	1573	Hazel w CC	17.61	232.73	233.18	232.81	233.18	0.000287	0.74	68.31	169.02	0.38
Reach 2	1535	100 Year	28.36	232.42	233.13	233.13	233.3	0.001028	2.14	18.95	56.93	0.84
Reach 2	1535	Hazel	11.56	232.42	232.87	232.87	233.02	0.001423	1.81	7.77	32.1	0.91
Reach 2	1535	Hazel w CC	17.61	232.42	232.99	232.99	233.15	0.001156	1.94	12.01	40.46	0.86
Reach 2	1506	100 Year	28.36	232.25	232.86	232.86	232.97	0.001201	1.82	26.56	105.88	0.78
Reach 2	1506	Hazel	11.56	232.25	232.69	232.69	232.78	0.001368	1.54	11.92	66.26	0.78
Reach 2	1506	Hazel w CC	17.61	232.25	232.75	232.75	232.87	0.001563	1.8	16.04	82.13	0.86
Reach 2	1472	100 Year	28.36	231.99	232.46	232.14	232.49	0.000373	0.98	36.76	76.21	0.47
Reach 2	1472	Hazel	11.56	231.99	232.27	231.92	232.29	0.000224	0.53	25.02	61.82	0.34
Reach 2	1472	Hazel w CC	17.61	231.99	232.36	232	232.38	0.000266	0.7	30.45	62.8	0.38
Reach 2	1438	100 Year	28.36	231.79	232.34	232.34	232.46	0.001352	1.9	21.82	89.62	0.87
Reach 2	1438	Hazel	11.56	231.79	232.12	232.12	232.26	0.002984	1.89	7.98	38.48	1.16
Reach 2	1438	Hazel w CC	17.61	231.79	232.24	232.24	232.35	0.001687	1.8	13.43	66.21	0.93
Reach 2	1410	100 Year	28.36	231.6	232.21	232.21	232.34	0.001241	2.03	33.9	119.33	0.89
Reach 2	1410	Hazel	11.56	231.6	232.06	232.06	232.15	0.001047	1.5	16.85	111.43	0.78
Reach 2	1410	Hazel w CC	17.61	231.6	232.13	232.13	232.23	0.001097	1.71	24.34	116.09	0.82
Reach 2	1379	100 Year	28.36	231.4	231.73	231.73	231.82	0.003214	1.85	22.07	108.25	1.1
Reach 2	1379	Hazel	11.56	231.4	231.63	231.63	231.69	0.003277	1.44	12.34	101.19	1.04
Reach 2	1379	Hazel w CC	17.61	231.4	231.67	231.67	231.74	0.003438	1.64	15.87	104.02	1.1
Reach 2	1332	100 Year	28.36	231.05	231.35	231.29	231.4	0.001095	1.08	26.97	114.06	0.69
Reach 2	1332	Hazel	11.56	231.05	231.19	231.19	231.25	0.002077	0.79	10.93	90.15	0.79
Reach 2	1332	Hazel w CC	17.61	231.05	231.25	231.23	231.31	0.00178	1	16.69	98.46	0.8
Reach 2	1291	100 Year	28.36	230.6	231.24	231.24	231.36	0.000946	1.84	21.54	77.3	0.79
Reach 2	1291	Hazel	11.56	230.6	231.08	231.08	231.17	0.000899	1.44	10.38	60.57	0.73
Reach 2	1291	Hazel w CC	17.61	230.6	231.15	231.15	231.25	0.000939	1.63	14.92	72.67	0.76
Reach 2	1256	100 Year	28.36	230.18	230.7	230.7	230.83	0.002185	1.68	19.66	79.03	0.83
Reach 2	1256	Hazel	11.56	230.18	230.56	230.56	230.65	0.002024	1.28	9.53	63.03	0.77
Reach 2	1256	Hazel w CC	17.61	230.18	230.63	230.63	230.72	0.002192	1.49	13.66	73.06	0.82
Reach 2	1228	100 Year	28.36	229.89	230.12	230.12	230.21	0.002619	1.17	22.34	138.21	0.86
Reach 2	1228	Hazel	11.56	229.89	230.05	230.05	230.1	0.003097	0.9	12.19	131.17	0.86
Reach 2	1228	Hazel w CC	17.61	229.89	230.08	230.08	230.14	0.002838	1.02	16.38	137.48	0.86
Reach 2	1172	100 Year	28.36	229.44	229.88	229.88	229.96	0.001731	1.52	25.13	161.89	0.81
Reach 2	1172	Hazel	11.56	229.44	229.8	229.8	229.85	0.001577	1.23	13.1	121.55	0.75
Reach 2	1172	Hazel w CC	17.61	229.44	229.84	229.84	229.89	0.001617	1.35	17.94	140.3	0.77
Reach 2	1135	100 Year	28.36	229.02	229.39	229.07	229.45	0.000267	0.51	28.61	75.66	0.29
Reach 2	1135	Hazel	11.56	229.02	229.22	228.85	229.24	0.000109	0.2	20.13	42.18	0.16
Reach 2	1135	Hazel w CC	17.61	229.02	229.29	228.94	229.33	0.000169	0.32	23.26	46.14	0.22
Reach 2	1093	100 Year	28.36	228.2	229.42	228.67	229.43	0.000037	0.54	67.28	121.95	0.16
Reach 2	1093	Hazel	11.56	228.2	229.23	228.51	229.24	0.000012	0.27	49.09	67.99	0.09
Reach 2	1093	Hazel w CC	17.61	228.2	229.31	228.57	229.32	0.000021	0.37	55.41	97.28	0.12
Reach 3	1067	100 Year	65.44	224.58	229.42		229.43	0.000019	0.36	203.08	131.48	0.05
Reach 3	1067	Hazel	42.03	224.58	229.23		229.23	0.000012	0.28	178.64	128.96	0.04
Reach 3	1067	Hazel w CC	50.35	224.58	229.31		229.31	0.000014	0.31	188.84	129.12	0.05

Reach 3	1053	100 Year	65.39	224.47	229.42		229.43	0.000018	0.44	234.54	132.7	0.06
Reach 3	1053	Hazel	42.06	224.47	229.23		229.23	0.00001	0.33	209.77	130.88	0.05
Reach 3	1053	Hazel w CC	50.46	224.47	229.31		229.31	0.000013	0.37	220.11	130.94	0.05
Reach 3	1037	100 Year	65.39	224.01	229.42	227.68	229.42	0.000009	0.24	253.06	127.37	0.04
Reach 3	1037	Hazel	42.06	224.01	229.23	227.52	229.23	0.000005	0.18	229.09	126.89	0.03
Reach 3	1037	Hazel w CC	50.46	224.01	229.31	227.59	229.31	0.000006	0.2	239.13	127.07	0.03
Reach 3	5	Tiffin St		Culvert								
Reach 3	978	100 Year	65.39	223.36	227.73	226.86	228.24	0.002159	3.62	31.35	50.22	0.58
Reach 3	978	Hazel	42.06	223.36	227.72		227.93	0.00091	2.35	30.65	44.65	0.38
Reach 3	978	Hazel w CC	50.46	223.36	227.75	226.46	228.04	0.001258	2.77	31.93	53.87	0.44
Reach 3	968	100 Year	65.39	223.54	227.9		228.05	0.000624	2.21	50.63	130.24	0.35
Reach 3	968	Hazel	42.06	223.54	227.78		227.86	0.000302	1.51	44.56	81.47	0.24
Reach 3	968	Hazel w CC	50.46	223.54	227.83		227.94	0.000408	1.77	46.8	101.03	0.28
Reach 3	958	100 Year	65.39	223.39	227.97	227.06	228.02	0.000294	1.3	73.87	196.26	0.24
Reach 3	958	Hazel	42.06	223.39	227.81	226.5	227.84	0.000201	1.04	60.73	175.43	0.19
Reach 3	958	Hazel w CC	50.46	223.39	227.88	226.68	227.92	0.000234	1.14	65.79	181.2	0.21
Reach 3		Parking Lot		Culvert								
Reach 3	906	100 Year	65.39	224.89	226.92	226.21	226.93	0.000069	0.67	112.09	178.45	0.19
Reach 3	906	Hazel	42.06	224.89	226.62	226.1	226.64	0.000099	0.65	67.37	119.24	0.21
Reach 3	906	Hazel w CC	50.46	224.89	226.72	226.15	226.74	0.000092	0.68	80.37	141.52	0.21
Reach 3	882	100 Year	86.26	225.17	226.89	226.61	226.93	0.000196	1.27	99.42	242.23	0.36
Reach 3	882	Hazel	51.81	225.17	226.51	226.5	226.62	0.000773	2.23	42.67	142.49	0.76
Reach 3	882	Hazel w CC	62.24	225.17	226.68	226.54	226.73	0.000338	1.56	66.27	177.67	0.48
Reach 3		Anne St		Culvert								
Reach 3	740	100 Year	86.26	222.18	226.75	226.75	226.9	0.003269	2.42	57.68	136.87	0.43
Reach 3	740	Hazel	51.81	222.18	225.73	224.77	226.18	0.004864	2.89	17.55	27.27	0.52
Reach 3	740	Hazel w CC	62.24	222.18	225.86	225.03	226.45	0.006093	3.32	18.31	29.33	0.58
Reach 3	711	100 Year	87.1	222.02	226.75	223.55	226.76	0.000025	0.48	354.83	174.59	0.07
Reach 3	711	Hazel	52.29	222.02	226.04	223.34	226.04	0.00002	0.39	265.6	112.06	0.06
Reach 3	711	Hazel w CC	62.82	222.02	226.27	223.41	226.27	0.000022	0.42	291.23	113.12	0.07
Reach 3	683	100 Year	87.1	221.99	226.74	223.76	226.75	0.000085	0.8	233.49	125.6	0.12
Reach 3	683	Hazel	52.29	221.99	226.03	223.41	226.04	0.000079	0.69	162.52	92.95	0.11
Reach 3	683	Hazel w CC	62.82	221.99	226.26	223.52	226.27	0.000082	0.73	183.81	94.46	0.12
Reach 3	648	100 Year	89.64	221.61	226.73		226.75	0.000121	0.91	184.73	106.48	0.13
Reach 3	648	Hazel	54.6	221.61	226.02		226.04	0.000116	0.8	122.3	81.17	0.13
Reach 3	648	Hazel w CC	65.64	221.61	226.25		226.26	0.000121	0.85	141.08	84.57	0.13
Reach 3	613	100 Year	89.64	221.32	225.7	224.62	226.5	0.003802	3.71	23.99	21.56	0.58
Reach 3	613	Hazel	54.6	221.32	225.63	223.79	225.94	0.001493	2.3	23.58	21.08	0.36
Reach 3	613	Hazel w CC	65.64	221.32	225.7	224.06	226.13	0.002038	2.72	23.99	21.56	0.43
Reach 3		Innisfil St		Culvert								
Reach 3	572	100 Year	89.64	221.11	224.46	224.46	225.88	0.011537	5.78	17.41	22	1.03
Reach 3	572	Hazel	54.6	221.11	223.66	223.66	224.68	0.01228	4.93	12.62	14.09	1.01
Reach 3	572	Hazel w CC	65.64	221.11	223.92	223.92	225.08	0.012071	5.23	14.2	14.96	1.02
Reach 3	544	100 Year	89.64	220.76	223.45	223.45	223.8	0.004238	3.48	41.26	52.65	0.7
Reach 3	544	Hazel	54.6	220.76	223.16	223.16	223.48	0.003968	3.11	26.76	44.62	0.66
Reach 3	544	Hazel w CC	65.64	220.76	223.27	223.27	223.6	0.004043	3.24	31.81	50.03	0.68
Reach 3	532	100 Year	89.64	220.68	223.01	223.01	223.55	0.007196	4.16	33.11	29.88	0.9
Reach 3	532	Hazel	54.6	220.68	222.7	222.65	223.08	0.005983	3.42	24.04	26.72	0.8
Reach 3	532	Hazel w CC	65.64	220.68	222.78	222.78	223.24	0.006899	3.78	26.35	27.94	0.86
Reach 3	520	100 Year	89.64	220.46	223.15		223.36	0.003329	2.63	46.56	33.34	0.53

Reach 3	520	Hazel	54.6	220.46	222.83		222.96	0.002371	2.02	36.54	30.2	0.44
Reach 3	520	Hazel w CC	65.64	220.46	222.94		223.1	0.002695	2.23	39.84	31.2	0.47
Reach 3	507	100 Year	89.64	220.29	223.16		223.31	0.001938	2.38	62.37	49.85	0.46
Reach 3	507	Hazel	54.6	220.29	222.82		222.93	0.001557	1.95	46.23	44.85	0.4
Reach 3	507	Hazel w CC	65.64	220.29	222.94		223.06	0.001731	2.12	51.37	47.03	0.43
Reach 3	485	100 Year	90.45	220.02	222.79	222.79	223.22	0.005099	3.44	34.31	36.09	0.69
Reach 3	485	Hazel	55.16	220.02	222.52	222.52	222.85	0.004538	3.01	25.06	31.45	0.64
Reach 3	485	Hazel w CC	66.14	220.02	222.62	222.62	222.97	0.00464	3.14	28.42	33.4	0.65
Reach 3	466	100 Year	90.45	219.52	222.56	222.56	223.02	0.006934	3.6	39.73	39.16	0.71
Reach 3	466	Hazel	55.16	219.52	222.09	222.09	222.55	0.007864	3.35	23.5	26.9	0.73
Reach 3	466	Hazel w CC	66.14	219.52	222.18	222.18	222.72	0.008977	3.68	26.22	29.46	0.79
Reach 3	447	100 Year	90.45	219.35	222.56		222.68	0.00216	2.14	66.53	58.72	0.4
Reach 3	447	Hazel	55.16	219.35	221.66	221.66	222.01	0.007777	3.17	25.61	35.1	0.72
Reach 3	447	Hazel w CC	66.14	219.35	222.13		222.29	0.002982	2.26	44.97	45.56	0.46
Reach 3	424	100 Year	90.45	219.17	222.59		222.64	0.000575	1.53	109.14	79.09	0.27
Reach 3	424	Hazel	55.16	219.17	221.66		221.81	0.002341	2.46	42.91	59.76	0.52
Reach 3	424	Hazel w CC	66.14	219.17	222.17		222.23	0.000792	1.63	76.77	73.19	0.31
Reach 3	404	100 Year	90.45	219.04	222.59		222.62	0.000438	1.36	122.35	79.25	0.23
Reach 3	404	Hazel	55.16	219.04	221.64		221.76	0.001957	2.32	50.81	71.97	0.47
Reach 3	404	Hazel w CC	66.14	219.04	222.17		222.21	0.000579	1.44	90.04	75.59	0.26
Reach 3	385	100 Year	92.2	218.75	222.58		222.61	0.000444	1.29	117.89	82.37	0.22
Reach 3	385	Hazel	56.25	218.75	221.64		221.72	0.001353	1.84	55.71	59.89	0.36
Reach 3	385	Hazel w CC	67.58	218.75	222.16		222.2	0.000539	1.31	87.86	64.26	0.24
Reach 3	333	100 Year	92.2	218.65	222.56	221.45	222.6	0.00024	1.1	114.67	94.72	0.18
Reach 3	333	Hazel	56.25	218.65	221.42	220.55	221.61	0.001483	2.14	37.33	40.14	0.42
Reach 3	333	Hazel w CC	67.58	218.65	222.1	220.76	222.16	0.000445	1.37	74.99	76.33	0.24
Reach 3	Bradford St	Culvert										
Reach 3	182	100 Year	92.2	218.86	221.21	221.21	221.49	0.002506	2.75	48.43	75.74	0.6
Reach 3	182	Hazel	56.25	218.86	220.42	220.42	221.02	0.008003	3.56	17	59.26	0.99
Reach 3	182	Hazel w CC	67.58	218.86	220.58	220.58	221.25	0.007739	3.79	19.21	61.79	0.99
Reach 3	162	100 Year	91.54	218.88	220.67		220.81	0.001255	1.58	60.86	91.83	0.41
Reach 3	162	Hazel	56.53	218.88	220.25	220.25	220.47	0.004129	2.3	27.84	62.1	0.7
Reach 3	162	Hazel w CC	67.77	218.88	220.3	220.3	220.56	0.004331	2.42	31.01	63.37	0.73
Reach 3	135	100 Year	91.54	217.5	219.5	219.5	220.49	0.005893	4.4	21.07	12.43	1
Reach 3	135	Hazel	56.53	217.5	219.39	218.96	219.81	0.002733	2.88	19.86	11.85	0.67
Reach 3	135	Hazel w CC	67.77	217.5	219.14	219.13	219.95	0.006344	3.99	17.17	11.01	1
Reach 3	Lakeshore Drive	Bridge										
Reach 3	87	100 Year	91.54	217.5	219.71		220.24	0.003837	3.24	28.28	19.49	0.7
Reach 3	87	Hazel	56.53	217.5	219.2		219.55	0.003554	2.61	21.67	17.43	0.65
Reach 3	87	Hazel w CC	67.77	217.5	219.37		219.78	0.003731	2.85	23.81	17.96	0.67
Reach 3	45	100 Year	91.54	217.4	219.77	218.8	219.99	0.001484	2.1	43.99	21.87	0.46
Reach 3	45	Hazel	56.53	217.4	219.21	218.42	219.37	0.001299	1.75	32.4	19.39	0.43
Reach 3	45	Hazel w CC	67.77	217.4	219.39	218.55	219.57	0.001423	1.89	35.94	20.39	0.45
Reach 3	Pedestrain Bridg	Bridge										
Reach 3	8	100 Year	91.54	217.4	219.08	219.08	219.82	0.017122	3.82	23.96	16.11	1
Reach 3	8	Hazel	56.53	217.4	218.86		219.25	0.010146	2.75	20.58	15.4	0.76
Reach 3	8	Hazel w CC	67.77	217.4	218.77	218.77	219.41	0.017973	3.55	19.12	15.03	1
Reach 3	2	100 Year	91.54	217.31	219.13	217.58	219.13	0.000019	0.25	376.99	207.53	0.06
Reach 3	2	Hazel	56.53	217.31	219.13	217.51	219.13	0.000007	0.15	376.99	207.53	0.04
Reach 3	2	Hazel w CC	67.77	217.31	219.13	217.53	219.13	0.00001	0.18	376.99	207.53	0.04

Hotchkiss Creek - Calibration +50% Expansion / Contraction

Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
			(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
Reach 1	2233	100 Year	19.33	233.66	235.81		235.81	0.000123	0.24	81.13	102.54	0.09
Reach 1	2233	Hazel	13.21	233.66	235.7		235.7	0.000092	0.19	70.62	102.01	0.07
Reach 1	2233	Hazel w CC	15.92	233.66	235.77		235.77	0.000097	0.21	77.68	102.39	0.08
Reach 1	2200	100 Year	19.33	233.23	235.8		235.81	0.000032	0.13	114.52	177.65	0.03
Reach 1	2200	Hazel	13.21	233.23	235.7		235.7	0.000022	0.1	98.21	142.19	0.02
Reach 1	2200	Hazel w CC	15.92	233.23	235.77		235.77	0.000025	0.11	108.74	167.28	0.03
Reach 1	2150	100 Year	19.33	233.17	235.8		235.8	0.000018	0.1	151.84	173.56	0.02
Reach 1	2150	Hazel	13.21	233.17	235.7		235.7	0.000012	0.08	134.9	155.55	0.02
Reach 1	2150	Hazel w CC	15.92	233.17	235.77		235.77	0.000013	0.08	146.15	167.89	0.02
Reach 1	2104	100 Year	19.33	232.67	235.8		235.8	0.000012	0.09	194.34	190.72	0.02
Reach 1	2104	Hazel	13.21	232.67	235.7		235.7	0.000008	0.07	176.08	169.29	0.01
Reach 1	2104	Hazel w CC	15.92	232.67	235.77		235.77	0.000009	0.07	188.15	184.18	0.02
Reach 1	2057	100 Year	19.33	232.4	235.8		235.8	0.000011	0.1	178.93	172.93	0.02
Reach 1	2057	Hazel	13.21	232.4	235.7		235.7	0.000007	0.08	162.1	160.11	0.02
Reach 1	2057	Hazel w CC	15.92	232.4	235.77		235.77	0.000009	0.09	173.34	165.88	0.02
Reach 1	2012	100 Year	19.33	231.88	235.8		235.8	0.000002	0.05	339.44	367.15	0.01
Reach 1	2012	Hazel	13.21	231.88	235.7		235.7	0.000001	0.04	306.28	302.9	0.01
Reach 1	2012	Hazel w CC	15.92	231.88	235.77		235.77	0.000001	0.05	327.9	331.24	0.01
Reach 1	1962	100 Year	20.21	231.68	235.8		235.8	0.000001	0.03	448.21	381.36	0
Reach 1	1962	Hazel	14.15	231.68	235.7		235.7	0.000001	0.02	410.99	341.4	0
Reach 1	1962	Hazel w CC	17.06	231.68	235.77		235.77	0.000001	0.03	435.69	374.56	0
Reach 1	1925	100 Year	20.21	231.63	235.8		235.8	0	0.03	611.83	428.57	0
Reach 1	1925	Hazel	14.15	231.63	235.7		235.7	0	0.02	569.37	409.82	0
Reach 1	1925	Hazel w CC	17.06	231.63	235.77		235.77	0	0.02	597.89	418.97	0
Reach 1	1886	100 Year	43.17	231.82	235.8		235.8	0.000002	0.04	687.49	398.47	0.01
Reach 1	1886	Hazel	33.69	231.82	235.7		235.7	0.000001	0.03	646.98	397.83	0.01
Reach 1	1886	Hazel w CC	39.93	231.82	235.77		235.77	0.000002	0.04	674.36	398.24	0.01
Reach 1	1885		Lat Struct									
Reach 1	1860	100 Year	40.72	231.37	235.8		235.8	0.000001	0.05	777.71	488.5	0.01
Reach 1	1860	Hazel	32.94	231.37	235.7		235.7	0.000001	0.04	728.02	488.13	0.01
Reach 1	1860	Hazel w CC	37.95	231.37	235.77		235.77	0.000001	0.04	761.61	488.38	0.01
Reach 1	1824.1	100 Year	32.73	230.76	235.8		235.8	0	0.03	971.13	553.61	0
Reach 1	1824.1	Hazel	28.79	230.76	235.7		235.7	0	0.03	914.8	553.23	0
Reach 1	1824.1	Hazel w CC	31.19	230.76	235.77		235.77	0	0.03	952.88	553.47	0
Reach 1	1799	100 Year	22.34	230.15	235.79	231.63	235.8	0.000034	0.34	78.21	561.97	0.05
Reach 1	1799	Hazel	22.05	230.15	235.69	231.61	235.7	0.000037	0.35	75.3	558.29	0.05
Reach 1	1799	Hazel w CC	22.24	230.15	235.76	231.62	235.77	0.000035	0.34	77.27	561.78	0.05
Reach 1	Hwy 400		Culvert									
Reach 1	1706.5	100 Year	22.34	229.65	231.71		231.83	0.002963	1.57	14.22	37.06	0.38
Reach 1	1706.5	Hazel	22.05	229.65	231.71		231.83	0.002878	1.55	14.24	37.09	0.37
Reach 1	1706.5	Hazel w CC	22.24	229.65	231.71		231.83	0.002916	1.56	14.25	37.13	0.37
Reach 1	1675	100 Year	22.34	228.94	231.69		231.71	0.000753	0.76	39.42	39.15	0.19
Reach 1	1675	Hazel	22.05	228.94	231.69		231.71	0.000729	0.75	39.51	39.19	0.18
Reach 1	1675	Hazel w CC	22.24	228.94	231.69		231.71	0.000738	0.75	39.59	39.22	0.18
Reach 1	1637	100 Year	22.34	228.78	231.68		231.69	0.000308	0.6	55.98	48.78	0.14
Reach 1	1637	Hazel	22.05	228.78	231.68		231.69	0.000298	0.59	56.12	48.82	0.13
Reach 1	1637	Hazel w CC	22.24	228.78	231.68		231.69	0.000302	0.59	56.2	48.85	0.13

Reach 1	1606	100 Year	22.93	228.73	231.67		231.68	0.000233	0.5	61.99	46.79	0.11
Reach 1	1606	Hazel	22.99	228.73	231.67		231.68	0.000233	0.5	62.11	46.88	0.11
Reach 1	1606	Hazel w CC	23.36	228.73	231.67		231.68	0.00024	0.5	62.18	46.92	0.11
Reach 1	1573	100 Year	22.93	228.71	231.65	231.3	231.66	0.001197	0.67	55.44	115.22	0.21
Reach 1	1573	Hazel	22.99	228.71	231.66	231.29	231.67	0.001182	0.67	55.77	115.56	0.2
Reach 1	1573	Hazel w CC	23.36	228.71	231.66	231.3	231.67	0.001212	0.68	55.89	115.68	0.21
Reach 1	1475		Culvert									
Reach 1	1375.4	100 Year	22.93	227.54	230.81	229.93	231.45	0.00318	3.53	6.5	45.34	0.62
Reach 1	1375.4	Hazel	22.99	227.54	230.76		231.42	0.003376	3.59	6.4	41.32	0.64
Reach 1	1375.4	Hazel w CC	23.36	227.54	230.78	229.96	231.45	0.003407	3.63	6.44	43.64	0.65
Reach 1	1351.8	100 Year	22.93	226.89	231.16		231.16	0.000045	0.23	98.67	92.65	0.04
Reach 1	1351.8	Hazel	22.99	226.89	231.12		231.12	0.000051	0.25	95.05	91.78	0.04
Reach 1	1351.8	Hazel w CC	23.36	226.89	231.15		231.15	0.000048	0.24	97.64	92.3	0.04
Reach 1	1333.7	100 Year	22.93	226.73	231.16		231.16	0.000026	0.17	126.2	108.83	0.03
Reach 1	1333.7	Hazel	22.99	226.73	231.12		231.12	0.000029	0.18	122.18	105.92	0.03
Reach 1	1333.7	Hazel w CC	23.36	226.73	231.15		231.15	0.000028	0.18	125.06	108.17	0.03
Reach 1	1311.5	100 Year	22.93	226.41	231.16		231.16	0.000013	0.11	180.57	165.95	0.02
Reach 1	1311.5	Hazel	22.99	226.41	231.12		231.12	0.000014	0.12	174.79	149.66	0.02
Reach 1	1311.5	Hazel w CC	23.36	226.41	231.15		231.15	0.000014	0.12	178.92	164.46	0.02
Reach 1	1290.5	100 Year	22.93	226.24	231.16		231.16	0.000007	0.11	233.95	156.36	0.02
Reach 1	1290.5	Hazel	22.99	226.24	231.12		231.12	0.000007	0.11	228.04	150.02	0.02
Reach 1	1290.5	Hazel w CC	23.36	226.24	231.15		231.15	0.000007	0.11	232.27	154.63	0.02
Reach 1	1265.1	100 Year	22.93	225.91	231.16		231.16	0.000013	0.11	222.94	198.03	0.02
Reach 1	1265.1	Hazel	22.99	225.91	231.12		231.12	0.000015	0.12	215.19	194.93	0.02
Reach 1	1265.1	Hazel w CC	23.36	225.91	231.15		231.15	0.000014	0.11	220.73	197.45	0.02
Reach 1	1250.7	100 Year	22.93	225.65	231.16		231.16	0.000012	0.13	297.82	211.3	0.02
Reach 1	1250.7	Hazel	22.99	225.65	231.12		231.12	0.000013	0.14	289.53	210.03	0.02
Reach 1	1250.7	Hazel w CC	23.36	225.65	231.15		231.15	0.000013	0.14	295.46	210.94	0.02
Reach 1	1233.7	100 Year	31.47	225.62	231.16		231.16	0.000017	0.17	333.15	200.58	0.03
Reach 1	1233.7	Hazel	28.48	225.62	231.12		231.12	0.000015	0.16	325.4	194.94	0.02
Reach 1	1233.7	Hazel w CC	30.4	225.62	231.15		231.15	0.000017	0.17	330.93	199.15	0.02
Reach 1	1203	100 Year	31.47	225.44	231.15	227.68	231.16	0.000039	0.29	195.41	123.5	0.05
Reach 1	1203	Hazel	28.48	225.44	231.11	227.54	231.12	0.000034	0.27	190.68	121.1	0.05
Reach 1	1203	Hazel w CC	30.4	225.44	231.14	227.64	231.14	0.000037	0.28	194.06	122.49	0.05
Reach 1	1186		Culvert									
Reach 1	1180	100 Year	31.47	224.58	229.36		229.37	0.000077	0.78	74.43	117.68	0.19
Reach 1	1180	Hazel	28.48	224.58	229.24		229.26	0.000109	0.89	61.03	116.82	0.22
Reach 1	1180	Hazel w CC	30.4	224.58	229.31		229.33	0.000088	0.83	69.11	117.43	0.2
Reach 2	1878	100 Year	0.1	233.69	234.83		234.83	0	0	231.95	314.96	0
Reach 2	1878	Hazel	0.1	233.69	234.44		234.44	0	0	120.03	267.18	0
Reach 2	1878	Hazel w CC	0.1	233.69	234.6		234.6	0	0	163.02	282.88	0
Reach 2	1838	100 Year	28.55	233.76	234.83		234.83	0.00001	0.21	190.15	320.29	0.07
Reach 2	1838	Hazel	11.74	233.76	234.44		234.44	0.00001	0.15	86.73	197.48	0.06
Reach 2	1838	Hazel w CC	17.79	233.76	234.6		234.6	0.000011	0.18	121.25	252.2	0.07
Reach 2	1799	100 Year	28.55	233.9	234.83		234.83	0.000031	0.33	136.53	293.19	0.12
Reach 2	1799	Hazel	11.74	233.9	234.44		234.44	0.000046	0.27	49.62	133.69	0.13
Reach 2	1799	Hazel w CC	17.79	233.9	234.59		234.6	0.000041	0.31	76.89	202.35	0.13
Reach 2	1763	100 Year	28.55	233.94	234.83		234.83	0.000023	0.28	165.18	282.08	0.1
Reach 2	1763	Hazel	11.74	233.94	234.44		234.44	0.000031	0.2	70.49	177.91	0.1
Reach 2	1763	Hazel w CC	17.79	233.94	234.59		234.59	0.00003	0.25	103.4	229.59	0.11
Reach 2	1721	100 Year	28.55	233.76	234.65	234.46	234.8	0.001409	1.85	18.89	259.46	0.66

Reach 2	1721	Hazel	11.74	233.76	234.35	234.21	234.42	0.001239	1.27	11.03	196.23	0.57
Reach 2	1721	Hazel w CC	17.79	233.76	234.47	234.31	234.58	0.001334	1.52	14.17	218	0.62
Reach 2	1675	Bridge										
Reach 2	1626	100 Year	28.55	233.19	233.92	233.92	234.19	0.00243	2.46	14.04	180.46	0.98
Reach 2	1626	Hazel	11.74	233.19	233.65	233.65	233.81	0.002776	1.84	6.92	172.91	0.95
Reach 2	1626	Hazel w CC	17.79	233.19	233.75	233.75	233.96	0.002668	2.13	9.51	176.87	0.97
Reach 2	1573	100 Year	28.55	232.73	233.35	232.85	233.36	0.000428	0.88	98.82	178.72	0.37
Reach 2	1573	Hazel	11.74	232.73	233.08	232.76	233.08	0.000521	0.62	52.29	162.14	0.37
Reach 2	1573	Hazel w CC	17.79	232.73	233.2	232.81	233.21	0.000435	0.71	72.35	170.39	0.36
Reach 2	1535	100 Year	28.55	232.42	233.13	233.13	233.31	0.001803	2.14	19.1	57.53	0.84
Reach 2	1535	Hazel	11.74	232.42	232.87	232.87	233.02	0.002475	1.81	7.92	32.61	0.91
Reach 2	1535	Hazel w CC	17.79	232.42	232.99	232.99	233.15	0.002061	1.95	12.06	40.71	0.87
Reach 2	1506	100 Year	28.55	232.25	232.86	232.86	232.97	0.002115	1.83	26.71	106.02	0.78
Reach 2	1506	Hazel	11.74	232.25	232.69	232.69	232.79	0.002469	1.56	11.96	66.37	0.79
Reach 2	1506	Hazel w CC	17.79	232.25	232.77	232.77	232.87	0.002133	1.64	18.14	89.76	0.76
Reach 2	1472	100 Year	28.55	231.99	232.48	232.15	232.51	0.000584	0.95	38.6	90.74	0.45
Reach 2	1472	Hazel	11.74	231.99	232.29	231.93	232.3	0.000358	0.52	25.99	61.92	0.32
Reach 2	1472	Hazel w CC	17.79	231.99	232.38	232.01	232.4	0.000426	0.69	31.54	63.22	0.37
Reach 2	1438	100 Year	28.55	231.79	232.34	232.34	232.46	0.002533	1.94	21.42	89.29	0.89
Reach 2	1438	Hazel	11.74	231.79	232.15	232.15	232.26	0.003884	1.73	9.04	40.72	1.01
Reach 2	1438	Hazel w CC	17.79	231.79	232.25	232.25	232.36	0.002753	1.76	14	69.92	0.9
Reach 2	1410	100 Year	28.55	231.6	232.21	232.21	232.34	0.002161	2.03	34.24	119.67	0.89
Reach 2	1410	Hazel	11.74	231.6	232.07	232.07	232.15	0.00182	1.5	17.24	111.81	0.77
Reach 2	1410	Hazel w CC	17.79	231.6	232.13	232.13	232.23	0.001938	1.72	24.54	116.13	0.82
Reach 2	1379	100 Year	28.55	231.4	231.73	231.73	231.82	0.005746	1.86	22.07	108.25	1.11
Reach 2	1379	Hazel	11.74	231.4	231.64	231.64	231.69	0.005767	1.44	12.48	101.29	1.04
Reach 2	1379	Hazel w CC	17.79	231.4	231.67	231.67	231.74	0.005876	1.63	16.14	104.29	1.08
Reach 2	1332	100 Year	28.55	231.05	231.39	231.29	231.43	0.001261	0.96	31.32	116.9	0.57
Reach 2	1332	Hazel	11.74	231.05	231.21	231.19	231.26	0.0024	0.73	12.95	92.46	0.67
Reach 2	1332	Hazel w CC	17.79	231.05	231.3	231.23	231.33	0.001533	0.83	21.27	107.59	0.59
Reach 2	1291	100 Year	28.55	230.6	231.24	231.24	231.36	0.0017	1.86	21.49	77.28	0.79
Reach 2	1291	Hazel	11.74	230.6	231.08	231.08	231.17	0.001584	1.44	10.53	60.81	0.73
Reach 2	1291	Hazel w CC	17.79	230.6	231.14	231.14	231.26	0.001855	1.7	14.2	70.97	0.8
Reach 2	1256	100 Year	28.55	230.18	230.71	230.71	230.83	0.00371	1.66	20	79.38	0.82
Reach 2	1256	Hazel	11.74	230.18	230.57	230.57	230.65	0.003666	1.29	9.54	63.06	0.78
Reach 2	1256	Hazel w CC	17.79	230.18	230.63	230.63	230.72	0.00388	1.49	13.76	73.19	0.82
Reach 2	1228	100 Year	28.55	229.89	230.13	230.13	230.21	0.004398	1.15	22.76	138.26	0.85
Reach 2	1228	Hazel	11.74	229.89	230.05	230.05	230.1	0.005263	0.89	12.44	131.89	0.84
Reach 2	1228	Hazel w CC	17.79	229.89	230.08	230.08	230.14	0.005176	1.03	16.31	137.47	0.87
Reach 2	1172	100 Year	28.55	229.44	229.89	229.89	229.96	0.002998	1.51	25.41	162.27	0.8
Reach 2	1172	Hazel	11.74	229.44	229.8	229.8	229.85	0.00272	1.22	13.37	122.38	0.74
Reach 2	1172	Hazel w CC	17.79	229.44	229.84	229.84	229.9	0.00291	1.36	17.94	140.3	0.78
Reach 2	1135	100 Year	28.55	229.02	229.4	229.07	229.45	0.000456	0.51	29.33	82.69	0.28
Reach 2	1135	Hazel	11.74	229.02	229.24	228.86	229.26	0.000176	0.21	20.97	43.63	0.16
Reach 2	1135	Hazel w CC	17.79	229.02	229.31	228.94	229.34	0.000286	0.32	23.79	46.3	0.21
Reach 2	1093	100 Year	28.55	228.2	229.42	228.67	229.43	0.000066	0.54	67.09	121.46	0.16
Reach 2	1093	Hazel	11.74	228.2	229.25	228.51	229.25	0.00002	0.27	50.2	70.35	0.09
Reach 2	1093	Hazel w CC	17.79	228.2	229.32	228.57	229.32	0.000036	0.38	55.94	99.68	0.12
Reach 3	1067	100 Year	65.44	224.58	229.42		229.42	0.000034	0.37	202.55	131.48	0.05
Reach 3	1067	Hazel	42.03	224.58	229.25		229.25	0.000021	0.28	180.61	128.99	0.04
Reach 3	1067	Hazel w CC	50.35	224.58	229.31		229.32	0.000025	0.31	189.37	129.13	0.05

Reach 3	1053	100 Year	65.39	224.47	229.42		229.42	0.000031	0.44	233.96	132.68	0.06
Reach 3	1053	Hazel	42.06	224.47	229.25		229.25	0.000018	0.32	211.76	130.89	0.05
Reach 3	1053	Hazel w CC	50.46	224.47	229.31		229.32	0.000023	0.37	220.62	130.94	0.05
Reach 3	1037	100 Year	65.39	224.01	229.42	227.68	229.42	0.000015	0.24	252.43	127.35	0.04
Reach 3	1037	Hazel	42.06	224.01	229.25	227.52	229.25	0.000008	0.18	230.97	126.92	0.03
Reach 3	1037	Hazel w CC	50.46	224.01	229.31	227.59	229.32	0.000011	0.2	239.57	127.07	0.03
Reach 3	5	Tiffin St		Culvert								
Reach 3	978	100 Year	65.39	223.36	227.91	226.84	228.21	0.002456	2.99	45.08	106.81	0.47
Reach 3	978	Hazel	42.06	223.36	227.78		227.97	0.001439	2.24	34.25	62.63	0.36
Reach 3	978	Hazel w CC	50.46	223.36	227.83	226.46	228.07	0.001849	2.56	37.75	82.69	0.41
Reach 3	968	100 Year	65.39	223.54	227.94		228.08	0.001032	2.15	53.65	141.25	0.34
Reach 3	968	Hazel	42.06	223.54	227.8		227.88	0.000519	1.49	45.42	91.67	0.24
Reach 3	968	Hazel w CC	50.46	223.54	227.86		227.96	0.000699	1.74	48.03	107.82	0.28
Reach 3	958	100 Year	65.39	223.39	227.98	227.12	228.03	0.000492	1.27	75.4	196.84	0.23
Reach 3	958	Hazel	42.06	223.39	227.82	226.5	227.86	0.000339	1.02	61.8	176.56	0.19
Reach 3	958	Hazel w CC	50.46	223.39	227.89	226.68	227.93	0.000401	1.12	66.62	183.23	0.21
Reach 3		Parking Lot		Culvert								
Reach 3	906	100 Year	65.39	224.89	226.94	226.21	226.96	0.00011	0.64	116.82	186.26	0.18
Reach 3	906	Hazel	42.06	224.89	226.63	226.1	226.65	0.000162	0.64	69.25	121.23	0.2
Reach 3	906	Hazel w CC	50.46	224.89	226.74	226.15	226.76	0.000147	0.66	83.66	149.06	0.2
Reach 3	882	100 Year	86.26	225.17	226.91	226.61	226.95	0.000304	1.2	103.76	245.83	0.34
Reach 3	882	Hazel	51.81	225.17	226.55	226.5	226.63	0.00093	1.87	49.04	149.88	0.62
Reach 3	882	Hazel w CC	62.24	225.17	226.7	226.54	226.75	0.00051	1.45	69.86	185.82	0.45
Reach 3		Anne St		Culvert								
Reach 3	740	100 Year	86.26	222.18	226.83	226.75	226.93	0.003489	1.91	70.74	158.15	0.34
Reach 3	740	Hazel	51.81	222.18	225.88	224.78	226.28	0.007345	2.74	18.42	29.43	0.48
Reach 3	740	Hazel w CC	62.24	222.18	226.06	225.03	226.58	0.008729	3.1	19.52	30.81	0.53
Reach 3	711	100 Year	87.1	222.02	226.88	223.55	226.88	0.000038	0.46	378.59	193.68	0.07
Reach 3	711	Hazel	52.29	222.02	226.09	223.33	226.1	0.000034	0.38	271.7	112.26	0.06
Reach 3	711	Hazel w CC	62.82	222.02	226.34	223.41	226.34	0.000037	0.41	299.54	113.43	0.06
Reach 3	683	100 Year	87.1	221.99	226.87	223.76	226.88	0.000128	0.75	250.76	138.62	0.11
Reach 3	683	Hazel	52.29	221.99	226.08	223.41	226.09	0.000129	0.67	167.55	93.38	0.11
Reach 3	683	Hazel w CC	62.82	221.99	226.33	223.52	226.34	0.000132	0.71	190.74	95.05	0.11
Reach 3	648	100 Year	89.64	221.61	226.86		226.88	0.000179	0.85	199.11	120	0.12
Reach 3	648	Hazel	54.6	221.61	226.07		226.09	0.000191	0.78	126.54	81.89	0.12
Reach 3	648	Hazel w CC	65.64	221.61	226.32		226.33	0.000195	0.82	147.14	85.45	0.12
Reach 3	613	100 Year	89.64	221.32	225.7	224.62	226.5	0.006748	3.71	23.99	21.56	0.58
Reach 3	613	Hazel	54.6	221.32	225.63	223.79	225.94	0.002651	2.3	23.58	21.07	0.36
Reach 3	613	Hazel w CC	65.64	221.32	225.7	224.06	226.13	0.003618	2.72	23.99	21.56	0.43
Reach 3		Innisfil St		Culvert								
Reach 3	572	100 Year	89.64	221.11	224.46	224.46	225.88	0.020459	5.78	17.41	22	1.03
Reach 3	572	Hazel	54.6	221.11	223.66	223.66	224.68	0.021774	4.92	12.62	14.09	1.01
Reach 3	572	Hazel w CC	65.64	221.11	223.92	223.92	225.08	0.021409	5.23	14.2	14.96	1.02
Reach 3	544	100 Year	89.64	220.76	223.45	223.45	223.8	0.007503	3.48	41.27	52.65	0.7
Reach 3	544	Hazel	54.6	220.76	223.16	223.16	223.48	0.00703	3.11	26.76	44.63	0.66
Reach 3	544	Hazel w CC	65.64	220.76	223.27	223.27	223.6	0.007166	3.24	31.8	50.02	0.68
Reach 3	532	100 Year	89.64	220.68	223.22		223.59	0.008	3.51	39.58	31.49	0.72
Reach 3	532	Hazel	54.6	220.68	222.89		223.14	0.006383	2.83	29.49	29.04	0.63
Reach 3	532	Hazel w CC	65.64	220.68	223.01		223.3	0.006972	3.07	32.87	29.83	0.66
Reach 3	520	100 Year	89.64	220.46	223.25		223.44	0.004964	2.47	49.93	34.77	0.49

Reach 3	520	Hazel	54.6	220.46	222.91		223.03	0.003522	1.89	38.95	30.97	0.41
Reach 3	520	Hazel w CC	65.64	220.46	223.03		223.16	0.003974	2.08	42.61	31.86	0.43
Reach 3	507	100 Year	89.64	220.29	223.23		223.36	0.002989	2.26	65.63	50.61	0.43
Reach 3	507	Hazel	54.6	220.29	222.88		222.98	0.0024	1.85	48.92	45.99	0.38
Reach 3	507	Hazel w CC	65.64	220.29	223		223.11	0.002642	2	54.44	47.94	0.4
Reach 3	485	100 Year	90.45	220.02	222.83	222.79	223.22	0.008063	3.28	35.68	36.57	0.66
Reach 3	485	Hazel	55.16	220.02	222.52	222.52	222.85	0.008054	3.01	25.05	31.44	0.64
Reach 3	485	Hazel w CC	66.14	220.02	222.62	222.62	222.97	0.008231	3.13	28.41	33.4	0.65
Reach 3	466	100 Year	90.45	219.52	222.56	222.56	223.02	0.012307	3.6	39.74	39.16	0.71
Reach 3	466	Hazel	55.16	219.52	222.09	222.09	222.55	0.013966	3.35	23.5	26.9	0.73
Reach 3	466	Hazel w CC	66.14	219.52	222.18	222.18	222.72	0.015935	3.68	26.22	29.46	0.79
Reach 3	447	100 Year	90.45	219.35	222.62		222.73	0.00341	2.05	70.21	61.01	0.38
Reach 3	447	Hazel	55.16	219.35	221.83		222.05	0.008447	2.61	31.61	39.41	0.57
Reach 3	447	Hazel w CC	66.14	219.35	222.22		222.35	0.004319	2.09	48.97	48.25	0.42
Reach 3	424	100 Year	90.45	219.17	222.62		222.66	0.00096	1.49	111.45	79.3	0.26
Reach 3	424	Hazel	55.16	219.17	221.79		221.89	0.002781	2.09	50.76	63.25	0.43
Reach 3	424	Hazel w CC	66.14	219.17	222.21		222.26	0.001258	1.56	80.04	75	0.3
Reach 3	404	100 Year	90.45	219.04	222.61		222.64	0.000748	1.34	123.94	79.48	0.23
Reach 3	404	Hazel	55.16	219.04	221.75		221.83	0.002362	1.97	58.82	72.89	0.39
Reach 3	404	Hazel w CC	66.14	219.04	222.2		222.24	0.000951	1.39	92.46	75.86	0.25
Reach 3	385	100 Year	92.2	218.75	222.59		222.63	0.000767	1.28	119.02	82.69	0.22
Reach 3	385	Hazel	56.25	218.75	221.72		221.78	0.0019	1.67	60.56	60.4	0.33
Reach 3	385	Hazel w CC	67.58	218.75	222.18		222.22	0.000912	1.29	89.42	64.73	0.23
Reach 3	333	100 Year	92.2	218.65	222.56	221.45	222.6	0.000424	1.1	114.68	94.73	0.18
Reach 3	333	Hazel	56.25	218.65	221.42	220.56	221.61	0.002628	2.14	37.33	40.15	0.42
Reach 3	333	Hazel w CC	67.58	218.65	222.1	220.76	222.16	0.000788	1.37	74.99	76.34	0.24
Reach 3	Bradford St	Culvert										
Reach 3	182	100 Year	92.2	218.86	221.34		221.52	0.002785	2.27	58.44	77.89	0.48
Reach 3	182	Hazel	56.25	218.86	220.42	220.42	221.02	0.014186	3.56	17	59.26	0.99
Reach 3	182	Hazel w CC	67.58	218.86	220.58	220.58	221.25	0.013711	3.79	19.21	61.79	0.99
Reach 3	162	100 Year	91.54	218.88	221.36		221.4	0.000258	0.69	129.04	100.94	0.15
Reach 3	162	Hazel	56.53	218.88	220.25	220.25	220.47	0.00731	2.29	27.83	62.1	0.7
Reach 3	162	Hazel w CC	67.77	218.88	220.3	220.3	220.56	0.007668	2.42	30.99	63.34	0.73
Reach 3	135	100 Year	91.54	217.5	221.25	219.5	221.35	0.000827	1.64	80.28	105.53	0.29
Reach 3	135	Hazel	56.53	217.5	219.63	218.96	219.96	0.003231	2.55	22.45	14.89	0.56
Reach 3	135	Hazel w CC	67.77	217.5	219.83	219.13	220.23	0.00341	2.79	24.69	45.65	0.58
Reach 3	Lakeshore Drive	Bridge										
Reach 3	87	100 Year	91.54	217.5	219.96		220.39	0.004709	2.9	31.58	19.66	0.59
Reach 3	87	Hazel	56.53	217.5	219.41		219.68	0.004283	2.32	24.33	18.48	0.54
Reach 3	87	Hazel w CC	67.77	217.5	219.58		219.91	0.004555	2.54	26.63	19.4	0.57
Reach 3	45	100 Year	91.54	217.4	219.89	218.8	220.09	0.00224	1.99	46.61	22.3	0.42
Reach 3	45	Hazel	56.53	217.4	219.32	218.42	219.46	0.001944	1.64	34.61	20.06	0.39
Reach 3	45	Hazel w CC	67.77	217.4	219.5	218.55	219.66	0.002142	1.78	38.18	20.9	0.41
Reach 3	Pedestrain Bridg	Bridge										
Reach 3	8	100 Year	91.54	217.4	219.08	219.08	219.82	0.030366	3.82	23.96	16.11	1
Reach 3	8	Hazel	56.53	217.4	218.94		219.28	0.015197	2.59	21.83	15.71	0.7
Reach 3	8	Hazel w CC	67.77	217.4	218.79	218.77	219.41	0.029988	3.47	19.53	15.14	0.98
Reach 3	2	100 Year	91.54	217.31	219.13	217.58	219.13	0.000033	0.25	376.99	207.53	0.06
Reach 3	2	Hazel	56.53	217.31	219.13	217.51	219.13	0.000013	0.15	376.99	207.53	0.04
Reach 3	2	Hazel w CC	67.77	217.31	219.13	217.53	219.13	0.000018	0.18	376.99	207.53	0.04

Hotchkiss Creek - Calibration -50% Expansion / Contraction

Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
			(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
Reach 1	2233	100 Year	19.33	233.66	235.8		235.81	0.000124	0.24	80.89	102.53	0.09
Reach 1	2233	Hazel	13.21	233.66	235.7		235.7	0.000095	0.2	70.02	101.97	0.07
Reach 1	2233	Hazel w CC	15.92	233.66	235.78		235.78	0.000095	0.21	78.03	102.41	0.08
Reach 1	2200	100 Year	19.33	233.23	235.8		235.8	0.000032	0.13	114.18	177.26	0.03
Reach 1	2200	Hazel	13.21	233.23	235.7		235.7	0.000022	0.1	97.4	141.41	0.02
Reach 1	2200	Hazel w CC	15.92	233.23	235.77		235.78	0.000024	0.11	109.36	168.64	0.03
Reach 1	2150	100 Year	19.33	233.17	235.8		235.8	0.000018	0.1	151.54	173.33	0.02
Reach 1	2150	Hazel	13.21	233.17	235.7		235.7	0.000012	0.08	134.04	154.6	0.02
Reach 1	2150	Hazel w CC	15.92	233.17	235.77		235.77	0.000013	0.08	146.8	168.6	0.02
Reach 1	2104	100 Year	19.33	232.67	235.8		235.8	0.000012	0.09	194.03	190.25	0.02
Reach 1	2104	Hazel	13.21	232.67	235.7		235.7	0.000008	0.07	175.15	168.95	0.01
Reach 1	2104	Hazel w CC	15.92	232.67	235.77		235.77	0.000009	0.07	188.87	184.78	0.02
Reach 1	2057	100 Year	19.33	232.4	235.8		235.8	0.000012	0.1	178.64	172.74	0.02
Reach 1	2057	Hazel	13.21	232.4	235.7		235.7	0.000007	0.08	161.22	159.2	0.02
Reach 1	2057	Hazel w CC	15.92	232.4	235.77		235.77	0.000008	0.09	174	166.88	0.02
Reach 1	2012	100 Year	19.33	231.88	235.8		235.8	0.000002	0.05	338.89	365.74	0.01
Reach 1	2012	Hazel	13.21	231.88	235.7		235.7	0.000001	0.04	304.63	302.34	0.01
Reach 1	2012	Hazel w CC	15.92	231.88	235.77		235.77	0.000001	0.05	329.25	336.77	0.01
Reach 1	1962	100 Year	20.21	231.68	235.8		235.8	0.000001	0.03	447.64	381.24	0
Reach 1	1962	Hazel	14.15	231.68	235.7		235.7	0.000001	0.02	409.15	336.37	0
Reach 1	1962	Hazel w CC	17.06	231.68	235.77		235.77	0.000001	0.03	437.22	378.34	0
Reach 1	1925	100 Year	20.21	231.63	235.8		235.8	0	0.03	611.2	427.28	0
Reach 1	1925	Hazel	14.15	231.63	235.7		235.7	0	0.02	567.15	409.56	0
Reach 1	1925	Hazel w CC	17.06	231.63	235.77		235.77	0	0.02	599.59	419.81	0
Reach 1	1886	100 Year	43.17	231.82	235.8		235.8	0.000002	0.04	686.9	398.46	0.01
Reach 1	1886	Hazel	33.69	231.82	235.7		235.7	0.000001	0.03	644.83	397.8	0.01
Reach 1	1886	Hazel w CC	39.93	231.82	235.77		235.77	0.000002	0.04	675.99	398.27	0.01
Reach 1	1885		Lat Struct									
Reach 1	1860	100 Year	40.63	231.37	235.8		235.8	0.000001	0.05	777.02	488.49	0.01
Reach 1	1860	Hazel	33.66	231.37	235.7		235.7	0.000001	0.04	725.39	488.11	0.01
Reach 1	1860	Hazel w CC	37.75	231.37	235.77		235.77	0.000001	0.04	763.63	488.4	0.01
Reach 1	1824.1	100 Year	32.66	230.76	235.8		235.8	0	0.03	970.37	553.6	0
Reach 1	1824.1	Hazel	31.05	230.76	235.7		235.7	0.000001	0.03	911.84	553.22	0
Reach 1	1824.1	Hazel w CC	30.98	230.76	235.77		235.77	0	0.03	955.19	553.49	0
Reach 1	1799	100 Year	22.51	230.15	235.79	231.63	235.8	0.000035	0.34	78.22	561.97	0.05
Reach 1	1799	Hazel	22.21	230.15	235.69	231.62	235.69	0.000038	0.35	75.19	558.05	0.05
Reach 1	1799	Hazel w CC	22.42	230.15	235.77	231.63	235.77	0.000036	0.34	77.43	561.81	0.05
Reach 1	Hwy 400		Culvert									
Reach 1	1706.5	100 Year	22.51	229.65	231.64		231.78	0.003379	1.64	13.73	35.66	0.4
Reach 1	1706.5	Hazel	22.21	229.65	231.65		231.78	0.00328	1.62	13.74	35.68	0.39
Reach 1	1706.5	Hazel w CC	22.42	229.65	231.65		231.78	0.003329	1.63	13.76	35.71	0.4
Reach 1	1675	100 Year	22.51	228.94	231.69		231.71	0.000772	0.77	39.28	39.09	0.19
Reach 1	1675	Hazel	22.21	228.94	231.69		231.71	0.000751	0.76	39.3	39.1	0.19
Reach 1	1675	Hazel w CC	22.42	228.94	231.69		231.71	0.000759	0.76	39.41	39.15	0.19
Reach 1	1637	100 Year	22.51	228.78	231.68		231.69	0.000313	0.6	55.94	48.76	0.14
Reach 1	1637	Hazel	22.21	228.78	231.68		231.69	0.000304	0.59	55.98	48.78	0.13
Reach 1	1637	Hazel w CC	22.42	228.78	231.68		231.69	0.000308	0.6	56.12	48.82	0.14

Reach 1	1606	100 Year	23.1	228.73	231.67		231.68	0.000236	0.5	61.97	46.78	0.11
Reach 1	1606	Hazel	23.15	228.73	231.67		231.68	0.000237	0.5	62.01	46.8	0.11
Reach 1	1606	Hazel w CC	23.54	228.73	231.67		231.68	0.000244	0.51	62.13	46.88	0.11
Reach 1	1573	100 Year	23.1	228.71	231.65	231.3	231.66	0.001217	0.68	55.4	115.17	0.21
Reach 1	1573	Hazel	23.15	228.71	231.65	231.3	231.66	0.001218	0.68	55.48	115.26	0.21
Reach 1	1573	Hazel w CC	23.54	228.71	231.66	231.3	231.67	0.001243	0.69	55.73	115.51	0.21
Reach 1	1475		Culvert									
Reach 1	1375.4	100 Year	23.1	227.54	230.48	229.94	231.28	0.004607	3.95	5.84	21.25	0.74
Reach 1	1375.4	Hazel	23.15	227.54	230.4	229.95	231.25	0.005076	4.07	5.68	16.94	0.77
Reach 1	1375.4	Hazel w CC	23.54	227.54	230.4	229.97	231.28	0.005284	4.15	5.67	16.81	0.79
Reach 1	1351.8	100 Year	23.1	226.89	231.16		231.16	0.000046	0.24	98.51	92.58	0.04
Reach 1	1351.8	Hazel	23.15	226.89	231.12		231.12	0.000052	0.25	94.93	91.76	0.04
Reach 1	1351.8	Hazel w CC	23.54	226.89	231.14		231.14	0.00005	0.25	97.06	92.19	0.04
Reach 1	1333.7	100 Year	23.1	226.73	231.16		231.16	0.000027	0.18	126.05	108.77	0.03
Reach 1	1333.7	Hazel	23.15	226.73	231.12		231.12	0.00003	0.18	122.09	105.86	0.03
Reach 1	1333.7	Hazel w CC	23.54	226.73	231.14		231.14	0.000029	0.18	124.45	107.67	0.03
Reach 1	1311.5	100 Year	23.1	226.41	231.16		231.16	0.000013	0.12	180.4	165.91	0.02
Reach 1	1311.5	Hazel	23.15	226.41	231.12		231.12	0.000014	0.12	174.7	149.49	0.02
Reach 1	1311.5	Hazel w CC	23.54	226.41	231.14		231.14	0.000014	0.12	178.09	162.74	0.02
Reach 1	1290.5	100 Year	23.1	226.24	231.16		231.16	0.000007	0.11	233.81	156.22	0.02
Reach 1	1290.5	Hazel	23.15	226.24	231.12		231.12	0.000007	0.11	227.97	149.96	0.02
Reach 1	1290.5	Hazel w CC	23.54	226.24	231.14		231.14	0.000007	0.11	231.45	153.81	0.02
Reach 1	1265.1	100 Year	23.1	225.91	231.16		231.16	0.000013	0.11	222.74	197.98	0.02
Reach 1	1265.1	Hazel	23.15	225.91	231.12		231.12	0.000015	0.12	215.1	194.9	0.02
Reach 1	1265.1	Hazel w CC	23.54	225.91	231.14		231.14	0.000014	0.12	219.65	197.1	0.02
Reach 1	1250.7	100 Year	23.1	225.65	231.16		231.16	0.000012	0.13	297.62	211.27	0.02
Reach 1	1250.7	Hazel	23.15	225.65	231.12		231.12	0.000013	0.14	289.44	210.02	0.02
Reach 1	1250.7	Hazel w CC	23.54	225.65	231.14		231.14	0.000013	0.14	294.32	210.77	0.02
Reach 1	1233.7	100 Year	31.64	225.62	231.16		231.16	0.000018	0.17	332.97	200.57	0.03
Reach 1	1233.7	Hazel	28.64	225.62	231.12		231.12	0.000015	0.16	325.31	194.87	0.02
Reach 1	1233.7	Hazel w CC	30.58	225.62	231.14		231.14	0.000017	0.17	329.86	197.68	0.03
Reach 1	1203	100 Year	31.64	225.44	231.15	227.69	231.16	0.000039	0.29	195.35	123.45	0.05
Reach 1	1203	Hazel	28.64	225.44	231.11	227.55	231.12	0.000034	0.27	190.67	121.1	0.05
Reach 1	1203	Hazel w CC	30.58	225.44	231.14	227.65	231.14	0.000038	0.28	193.45	122.03	0.05
Reach 1	1186		Culvert									
Reach 1	1180	100 Year	31.64	224.58	229.33		229.34	0.000089	0.84	70.82	117.53	0.2
Reach 1	1180	Hazel	28.64	224.58	229.22		229.24	0.000127	0.95	57.86	116.63	0.24
Reach 1	1180	Hazel w CC	30.58	224.58	229.3		229.32	0.000096	0.86	67.45	117.3	0.21
Reach 2	1878	100 Year	0.1	233.69	234.8		234.8	0	0	222.76	303.98	0
Reach 2	1878	Hazel	0.1	233.69	234.42		234.42	0	0	115.17	264.84	0
Reach 2	1878	Hazel w CC	0.1	233.69	234.58		234.58	0	0	156.8	281.76	0
Reach 2	1838	100 Year	28.36	233.76	234.8		234.8	0.000011	0.22	180.7	314.88	0.07
Reach 2	1838	Hazel	11.58	233.76	234.42		234.42	0.000011	0.15	83.16	193.9	0.06
Reach 2	1838	Hazel w CC	17.61	233.76	234.57		234.57	0.000011	0.18	115.85	238.28	0.07
Reach 2	1799	100 Year	28.36	233.9	234.8		234.8	0.000036	0.35	127.85	287.96	0.12
Reach 2	1799	Hazel	11.58	233.9	234.42		234.42	0.000051	0.28	47.27	123.84	0.13
Reach 2	1799	Hazel w CC	17.61	233.9	234.57		234.57	0.000046	0.32	72.46	198.95	0.13
Reach 2	1763	100 Year	28.36	233.94	234.8		234.8	0.000027	0.29	156.91	278.4	0.1
Reach 2	1763	Hazel	11.58	233.94	234.42		234.42	0.000033	0.2	67.39	169.19	0.1
Reach 2	1763	Hazel w CC	17.61	233.94	234.57		234.57	0.000033	0.25	98.48	225.37	0.11
Reach 2	1721	100 Year	28.36	233.76	234.63	234.46	234.79	0.001537	1.9	18.3	249.82	0.69

Reach 2	1721	Hazel	11.58	233.76	234.34	234.21	234.41	0.001327	1.29	10.68	195.21	0.59
Reach 2	1721	Hazel w CC	17.61	233.76	234.46	234.31	234.56	0.001428	1.55	13.77	215.67	0.63
Reach 2	1675	Bridge										
Reach 2	1626	100 Year	28.36	233.19	233.91	233.91	234.18	0.002463	2.47	13.91	180.41	0.98
Reach 2	1626	Hazel	11.58	233.19	233.64	233.64	233.8	0.002811	1.84	6.82	172.79	0.96
Reach 2	1626	Hazel w CC	17.61	233.19	233.75	233.75	233.96	0.002671	2.12	9.44	176.66	0.97
Reach 2	1573	100 Year	28.36	232.73	233.33	232.85	233.34	0.000469	0.9	95.71	178.69	0.39
Reach 2	1573	Hazel	11.58	232.73	233.06	232.76	233.07	0.000582	0.63	49.75	159.98	0.38
Reach 2	1573	Hazel w CC	17.61	232.73	233.18	232.81	233.19	0.000482	0.73	69.46	169.44	0.37
Reach 2	1535	100 Year	28.36	232.42	233.13	233.13	233.3	0.001812	2.14	18.95	56.93	0.84
Reach 2	1535	Hazel	11.58	232.42	232.87	232.87	233.02	0.002475	1.8	7.82	32.29	0.91
Reach 2	1535	Hazel w CC	17.61	232.42	232.99	232.99	233.15	0.002033	1.94	12.02	40.52	0.86
Reach 2	1506	100 Year	28.36	232.25	232.86	232.86	232.97	0.002119	1.83	26.56	105.88	0.78
Reach 2	1506	Hazel	11.58	232.25	232.69	232.69	232.78	0.002438	1.55	11.88	66.16	0.79
Reach 2	1506	Hazel w CC	17.61	232.25	232.75	232.75	232.87	0.002757	1.8	16.04	82.13	0.86
Reach 2	1472	100 Year	28.36	231.99	232.47	232.14	232.5	0.000619	0.96	37.57	82.45	0.46
Reach 2	1472	Hazel	11.58	231.99	232.28	231.93	232.29	0.000376	0.52	25.41	61.86	0.33
Reach 2	1472	Hazel w CC	17.61	231.99	232.37	232	232.39	0.000447	0.69	30.91	62.98	0.38
Reach 2	1438	100 Year	28.36	231.79	232.34	232.34	232.46	0.00239	1.9	21.8	89.6	0.87
Reach 2	1438	Hazel	11.58	231.79	232.12	232.12	232.26	0.005279	1.89	7.98	38.48	1.16
Reach 2	1438	Hazel w CC	17.61	231.79	232.24	232.24	232.35	0.002979	1.8	13.43	66.18	0.93
Reach 2	1410	100 Year	28.36	231.6	232.21	232.21	232.34	0.002194	2.04	33.87	119.3	0.9
Reach 2	1410	Hazel	11.58	231.6	232.06	232.06	232.15	0.001854	1.51	16.84	111.43	0.78
Reach 2	1410	Hazel w CC	17.61	231.6	232.13	232.13	232.23	0.001928	1.71	24.38	116.1	0.82
Reach 2	1379	100 Year	28.36	231.4	231.72	231.72	231.82	0.005924	1.87	21.77	108.15	1.13
Reach 2	1379	Hazel	11.58	231.4	231.63	231.63	231.69	0.005802	1.44	12.34	101.19	1.05
Reach 2	1379	Hazel w CC	17.61	231.4	231.67	231.67	231.74	0.005755	1.61	16.14	104.29	1.07
Reach 2	1332	100 Year	28.36	231.05	231.38	231.29	231.42	0.001396	0.99	30.12	115.83	0.6
Reach 2	1332	Hazel	11.58	231.05	231.21	231.19	231.25	0.002642	0.74	12.38	91.9	0.69
Reach 2	1332	Hazel w CC	17.61	231.05	231.28	231.23	231.32	0.001801	0.86	20.02	105.89	0.63
Reach 2	1291	100 Year	28.36	230.6	231.24	231.24	231.36	0.001663	1.84	21.56	77.31	0.79
Reach 2	1291	Hazel	11.58	230.6	231.08	231.08	231.17	0.001618	1.45	10.3	60.43	0.73
Reach 2	1291	Hazel w CC	17.61	230.6	231.15	231.15	231.25	0.001655	1.63	14.92	72.67	0.76
Reach 2	1256	100 Year	28.36	230.18	230.7	230.7	230.83	0.003852	1.68	19.66	79.03	0.83
Reach 2	1256	Hazel	11.58	230.18	230.56	230.56	230.65	0.0036	1.28	9.5	62.98	0.78
Reach 2	1256	Hazel w CC	17.61	230.18	230.63	230.63	230.72	0.003877	1.49	13.65	73.04	0.82
Reach 2	1228	100 Year	28.36	229.89	230.12	230.12	230.21	0.004605	1.17	22.36	138.21	0.86
Reach 2	1228	Hazel	11.58	229.89	230.05	230.05	230.1	0.005481	0.9	12.18	131.16	0.86
Reach 2	1228	Hazel w CC	17.61	229.89	230.08	230.08	230.14	0.005001	1.02	16.38	137.48	0.86
Reach 2	1172	100 Year	28.36	229.44	229.88	229.88	229.96	0.00306	1.52	25.11	161.86	0.81
Reach 2	1172	Hazel	11.58	229.44	229.8	229.8	229.85	0.002888	1.25	12.91	120.63	0.76
Reach 2	1172	Hazel w CC	17.61	229.44	229.84	229.84	229.89	0.002876	1.35	17.88	140.12	0.77
Reach 2	1135	100 Year	28.36	229.02	229.37	229.07	229.44	0.000511	0.51	27.47	69.15	0.3
Reach 2	1135	Hazel	11.58	229.02	229.22	228.86	229.24	0.000193	0.2	20.1	42.17	0.16
Reach 2	1135	Hazel w CC	17.61	229.02	229.29	228.94	229.32	0.000306	0.32	23.05	46.02	0.22
Reach 2	1093	100 Year	28.36	228.2	229.41	228.67	229.42	0.000067	0.54	66.31	119.66	0.16
Reach 2	1093	Hazel	11.58	228.2	229.23	228.51	229.24	0.000021	0.27	49.14	68.1	0.09
Reach 2	1093	Hazel w CC	17.61	228.2	229.31	228.57	229.31	0.000036	0.38	55.26	96.71	0.12
Reach 3	1067	100 Year	65.44	224.58	229.41		229.42	0.000035	0.37	201.98	131.48	0.05
Reach 3	1067	Hazel	42.03	224.58	229.23		229.23	0.000021	0.28	178.64	128.96	0.04
Reach 3	1067	Hazel w CC	50.35	224.58	229.31		229.31	0.000026	0.31	188.55	129.12	0.05

Reach 3	1053	100 Year	65.39	224.47	229.41		229.42	0.000032	0.44	233.4	132.67	0.06
Reach 3	1053	Hazel	42.06	224.47	229.23		229.23	0.000018	0.33	209.76	130.88	0.05
Reach 3	1053	Hazel w CC	50.46	224.47	229.31		229.31	0.000023	0.37	219.8	130.94	0.05
Reach 3	1037	100 Year	65.39	224.01	229.41	227.68	229.42	0.000015	0.24	252.01	127.34	0.04
Reach 3	1037	Hazel	42.06	224.01	229.23	227.52	229.23	0.000009	0.18	229.09	126.89	0.03
Reach 3	1037	Hazel w CC	50.46	224.01	229.31	227.59	229.31	0.000011	0.2	238.86	127.06	0.03
Reach 3	5	Tiffin St		Culvert								
Reach 3	978	100 Year	65.39	223.36	226.86	226.86	228.45	0.012769	5.6	11.73	13.77	1.02
Reach 3	978	Hazel	42.06	223.36	227.67		227.9	0.00176	2.43	28.69	36.77	0.39
Reach 3	978	Hazel w CC	50.46	223.36	227.68	226.46	228.01	0.002504	2.9	28.93	37.23	0.47
Reach 3	968	100 Year	65.39	223.54	227.91		228.06	0.001084	2.19	51.51	134.45	0.35
Reach 3	968	Hazel	42.06	223.54	227.78		227.86	0.000538	1.51	44.4	79.01	0.24
Reach 3	968	Hazel w CC	50.46	223.54	227.83		227.94	0.000722	1.77	46.86	101.22	0.28
Reach 3	958	100 Year	65.39	223.39	227.99	227.12	228.04	0.000478	1.26	76.24	197.12	0.23
Reach 3	958	Hazel	42.06	223.39	227.81	226.5	227.85	0.000355	1.04	60.77	175.77	0.19
Reach 3	958	Hazel w CC	50.46	223.39	227.88	226.68	227.92	0.000402	1.13	66.55	183.05	0.21
Reach 3		Parking Lot		Culvert								
Reach 3	906	100 Year	65.39	224.89	226.92	226.21	226.93	0.000121	0.67	112.32	178.52	0.19
Reach 3	906	Hazel	42.06	224.89	226.62	226.1	226.64	0.000174	0.65	67.35	119.2	0.21
Reach 3	906	Hazel w CC	50.46	224.89	226.7	226.15	226.72	0.000172	0.69	78.31	137.41	0.21
Reach 3	882	100 Year	86.26	225.17	226.89	226.61	226.93	0.000345	1.27	99.48	242.31	0.36
Reach 3	882	Hazel	51.81	225.17	226.5	226.5	226.62	0.001404	2.26	42.2	142.05	0.77
Reach 3	882	Hazel w CC	62.24	225.17	226.65	226.54	226.71	0.0007	1.68	62.77	172.35	0.53
Reach 3		Anne St		Culvert								
Reach 3	740	100 Year	86.26	222.18	226.75	226.75	226.9	0.005792	2.42	57.67	136.84	0.43
Reach 3	740	Hazel	51.81	222.18	225.6	224.78	226.09	0.010083	3.03	16.75	24.98	0.56
Reach 3	740	Hazel w CC	62.24	222.18	225.65	225.03	226.33	0.013764	3.58	17.03	25.93	0.65
Reach 3	711	100 Year	87.1	222.02	226.65	223.55	226.65	0.00005	0.51	338.15	150.76	0.08
Reach 3	711	Hazel	52.29	222.02	226.01	223.33	226.01	0.000037	0.39	261.98	111.99	0.06
Reach 3	711	Hazel w CC	62.82	222.02	226.22	223.41	226.22	0.000042	0.43	285.73	112.86	0.07
Reach 3	683	100 Year	87.1	221.99	226.64	223.76	226.65	0.000172	0.84	221.24	110.7	0.13
Reach 3	683	Hazel	52.29	221.99	226	223.41	226.01	0.000147	0.7	159.43	92.68	0.12
Reach 3	683	Hazel w CC	62.82	221.99	226.21	223.52	226.22	0.000156	0.75	179.1	94.12	0.12
Reach 3	648	100 Year	89.64	221.61	226.62		226.64	0.000243	0.96	173.78	93.43	0.14
Reach 3	648	Hazel	54.6	221.61	225.98		226	0.000216	0.82	119.38	80.29	0.13
Reach 3	648	Hazel w CC	65.64	221.61	226.19		226.21	0.000232	0.87	136.58	83.84	0.14
Reach 3	613	100 Year	89.64	221.32	225.7	224.62	226.5	0.006748	3.71	23.99	21.56	0.58
Reach 3	613	Hazel	54.6	221.32	225.63	223.79	225.94	0.002651	2.3	23.58	21.07	0.36
Reach 3	613	Hazel w CC	65.64	221.32	225.7	224.06	226.13	0.003618	2.72	23.99	21.56	0.43
Reach 3		Innisfil St		Culvert								
Reach 3	572	100 Year	89.64	221.11	224.46	224.46	225.88	0.020459	5.78	17.41	22	1.03
Reach 3	572	Hazel	54.6	221.11	223.66	223.66	224.68	0.021774	4.92	12.62	14.09	1.01
Reach 3	572	Hazel w CC	65.64	221.11	223.92	223.92	225.08	0.021409	5.23	14.2	14.96	1.02
Reach 3	544	100 Year	89.64	220.76	223.45	223.45	223.8	0.007503	3.48	41.27	52.65	0.7
Reach 3	544	Hazel	54.6	220.76	223.16	223.16	223.48	0.00703	3.11	26.76	44.63	0.66
Reach 3	544	Hazel w CC	65.64	220.76	223.27	223.27	223.6	0.007164	3.24	31.81	50.03	0.68
Reach 3	532	100 Year	89.64	220.68	223.02	223.02	223.55	0.012472	4.13	33.4	29.93	0.89
Reach 3	532	Hazel	54.6	220.68	222.77		223.1	0.008645	3.17	26.12	27.87	0.73
Reach 3	532	Hazel w CC	65.64	220.68	222.86	222.78	223.25	0.009959	3.5	28.6	28.71	0.78
Reach 3	520	100 Year	89.64	220.46	223.2		223.4	0.005389	2.54	48.35	34.17	0.51

Reach 3	520	Hazel	54.6	220.46	222.88		223	0.003772	1.94	38.01	30.72	0.42
Reach 3	520	Hazel w CC	65.64	220.46	222.99		223.14	0.004274	2.14	41.5	31.6	0.45
Reach 3	507	100 Year	89.64	220.29	223.2		223.34	0.003165	2.31	64.28	50.3	0.44
Reach 3	507	Hazel	54.6	220.29	222.86		222.96	0.002547	1.89	47.76	45.48	0.39
Reach 3	507	Hazel w CC	65.64	220.29	222.97		223.09	0.00281	2.05	53.16	47.6	0.41
Reach 3	485	100 Year	90.45	220.02	222.81	222.79	223.22	0.00853	3.36	35	36.34	0.67
Reach 3	485	Hazel	55.16	220.02	222.52	222.52	222.85	0.008054	3.01	25.05	31.44	0.64
Reach 3	485	Hazel w CC	66.14	220.02	222.62	222.62	222.97	0.008229	3.13	28.41	33.4	0.65
Reach 3	466	100 Year	90.45	219.52	222.56	222.56	223.02	0.012307	3.6	39.74	39.16	0.71
Reach 3	466	Hazel	55.16	219.52	222.09	222.09	222.55	0.013966	3.35	23.5	26.9	0.73
Reach 3	466	Hazel w CC	66.14	219.52	222.18	222.18	222.72	0.015937	3.68	26.22	29.46	0.79
Reach 3	447	100 Year	90.45	219.35	222.59		222.71	0.003577	2.08	68.56	60.27	0.39
Reach 3	447	Hazel	55.16	219.35	221.72	221.66	222.02	0.011491	2.95	27.71	36.13	0.66
Reach 3	447	Hazel w CC	66.14	219.35	222.18		222.32	0.004705	2.16	47.17	46.27	0.44
Reach 3	424	100 Year	90.45	219.17	222.61		222.66	0.000967	1.5	111.16	79.27	0.26
Reach 3	424	Hazel	55.16	219.17	221.74		221.86	0.003161	2.2	48.14	62.12	0.45
Reach 3	424	Hazel w CC	66.14	219.17	222.2		222.25	0.001293	1.58	79.2	74.54	0.3
Reach 3	404	100 Year	90.45	219.04	222.61		222.64	0.000748	1.34	123.9	79.48	0.23
Reach 3	404	Hazel	55.16	219.04	221.7		221.8	0.002745	2.1	55.57	72.48	0.42
Reach 3	404	Hazel w CC	66.14	219.04	222.19		222.23	0.000967	1.4	91.92	75.8	0.26
Reach 3	385	100 Year	92.2	218.75	222.59		222.63	0.000767	1.28	118.99	82.68	0.22
Reach 3	385	Hazel	56.25	218.75	221.68		221.75	0.002118	1.75	58.26	60.16	0.34
Reach 3	385	Hazel w CC	67.58	218.75	222.17		222.21	0.000926	1.3	88.96	64.66	0.23
Reach 3	333	100 Year	92.2	218.65	222.56	221.45	222.6	0.000424	1.1	114.68	94.73	0.18
Reach 3	333	Hazel	56.25	218.65	221.42	220.56	221.61	0.002628	2.14	37.33	40.15	0.42
Reach 3	333	Hazel w CC	67.58	218.65	222.1	220.75	222.16	0.000788	1.37	74.99	76.34	0.24
Reach 3	Bradford St	Culvert										
Reach 3	182	100 Year	92.2	218.86	221.21	221.21	221.49	0.004438	2.75	48.42	75.74	0.6
Reach 3	182	Hazel	56.25	218.86	220.42	220.42	221.02	0.014186	3.56	17	59.26	0.99
Reach 3	182	Hazel w CC	67.58	218.86	220.58	220.58	221.25	0.013711	3.79	19.21	61.8	0.99
Reach 3	162	100 Year	91.54	218.88	220.59		220.76	0.003252	1.83	52.95	88.74	0.49
Reach 3	162	Hazel	56.53	218.88	220.25	220.25	220.47	0.00731	2.29	27.83	62.1	0.7
Reach 3	162	Hazel w CC	67.77	218.88	220.3	220.3	220.56	0.007668	2.42	30.99	63.34	0.73
Reach 3	135	100 Year	91.54	217.5	219.5	219.5	220.49	0.010484	4.4	21.04	12.42	1
Reach 3	135	Hazel	56.53	217.5	219.49	218.96	219.87	0.004046	2.73	20.97	12.39	0.62
Reach 3	135	Hazel w CC	67.77	217.5	219.69	219.13	220.14	0.004245	2.98	23.08	15.4	0.65
Reach 3	Lakeshore Drive	Bridge										
Reach 3	87	100 Year	91.54	217.5	219.77		220.28	0.006216	3.15	29.06	19.53	0.67
Reach 3	87	Hazel	56.53	217.5	219.26		219.58	0.005633	2.52	22.41	17.56	0.61
Reach 3	87	Hazel w CC	67.77	217.5	219.45		219.82	0.005741	2.73	24.84	18.8	0.63
Reach 3	45	100 Year	91.54	217.4	219.84	218.8	220.05	0.002398	2.03	45.48	22.11	0.44
Reach 3	45	Hazel	56.53	217.4	219.25	218.42	219.4	0.002172	1.71	33.16	19.64	0.41
Reach 3	45	Hazel w CC	67.77	217.4	219.46	218.55	219.63	0.002271	1.82	37.37	20.72	0.42
Reach 3	Pedestrian Bridg	Bridge										
Reach 3	8	100 Year	91.54	217.4	219.08	219.08	219.82	0.030363	3.82	23.96	16.11	1
Reach 3	8	Hazel	56.53	217.4	218.73	218.61	219.2	0.023916	3.04	18.59	14.84	0.87
Reach 3	8	Hazel w CC	67.77	217.4	218.77	218.77	219.41	0.031875	3.55	19.12	15.03	1
Reach 3	2	100 Year	91.54	217.31	219.13	217.58	219.13	0.000033	0.25	376.99	207.53	0.06
Reach 3	2	Hazel	56.53	217.31	219.13	217.51	219.13	0.000013	0.15	376.99	207.53	0.04
Reach 3	2	Hazel w CC	67.77	217.31	219.13	217.54	219.13	0.000018	0.18	376.99	207.53	0.04

Kidds Creek - Flood Flow Scenarios

Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
			(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
Reach 1	3898	100 Year	31.38	271.92	273.54		273.8	0.022641	2.54	14.43	13.58	0.64
Reach 1	3898	100 Year w C	38.52	271.92	273.71		273.99	0.022257	2.69	16.74	14.17	0.65
Reach 1	3898	Hazel	27.72	271.92	273.45		273.69	0.02272	2.44	13.2	13.17	0.64
Reach 1	3898	Hazel w CC	33.41	271.92	273.59		273.86	0.022521	2.58	15.1	13.75	0.65
Reach 1	3879	100 Year	31.38	271.55	273.42		273.56	0.00578	1.88	21.38	18.43	0.46
Reach 1	3879	100 Year w C	38.52	271.55	273.6		273.76	0.005803	2.01	24.68	19.27	0.47
Reach 1	3879	Hazel	27.72	271.55	273.33		273.46	0.005778	1.81	19.61	18.03	0.46
Reach 1	3879	Hazel w CC	33.41	271.55	273.47		273.62	0.005789	1.92	22.34	18.68	0.47
Reach 1	3861	100 Year	31.38	271.25	273.2		273.42	0.011829	2	16.17	14.18	0.47
Reach 1	3861	100 Year w C	38.52	271.25	273.33		273.6	0.013357	2.23	18.2	17.76	0.51
Reach 1	3861	Hazel	27.72	271.25	273.12		273.32	0.011122	1.89	15.09	13.66	0.46
Reach 1	3861	Hazel w CC	33.41	271.25	273.24		273.47	0.012192	2.06	16.76	14.47	0.48
Reach 1	3843	100 Year	31.38	271.16	273.09		273.24	0.006853	1.67	23.38	26.22	0.4
Reach 1	3843	100 Year w C	38.52	271.16	273.24		273.4	0.006823	1.76	27.46	27.85	0.4
Reach 1	3843	Hazel	27.72	271.16	273		273.14	0.006912	1.63	21.16	25.25	0.4
Reach 1	3843	Hazel w CC	33.41	271.16	273.13		273.29	0.006807	1.7	24.61	26.72	0.4
Reach 1	3834	100 Year	31.58	271.11	272.73	272.73	273.13	0.018202	2.79	13.97	18.77	0.73
Reach 1	3834	100 Year w C	38.81	271.11	272.87	272.87	273.29	0.018012	2.94	16.64	20.26	0.73
Reach 1	3834	Hazel	28.02	271.11	272.64	272.64	273.04	0.019172	2.74	12.35	17.43	0.74
Reach 1	3834	Hazel w CC	33.78	271.11	272.79	272.79	273.18	0.017512	2.8	15.02	19.44	0.72
Reach 1	3822	100 Year	31.58	270.92	272.79		272.88	0.00594	1.38	25.91	23.6	0.33
Reach 1	3822	100 Year w C	38.81	270.92	272.94		273.04	0.006294	1.5	29.59	25.25	0.35
Reach 1	3822	Hazel	28.02	270.92	272.7		272.78	0.005789	1.32	23.87	22.46	0.33
Reach 1	3822	Hazel w CC	33.78	270.92	272.84		272.93	0.006041	1.42	27.11	24.22	0.34
Reach 1	3803	100 Year	31.58	270.73	272.56		272.73	0.010053	1.82	19.92	21.37	0.44
Reach 1	3803	100 Year w C	38.81	270.73	272.69		272.88	0.010775	1.98	23	23.9	0.46
Reach 1	3803	Hazel	28.02	270.73	272.48		272.64	0.009603	1.73	18.34	19.9	0.42
Reach 1	3803	Hazel w CC	33.78	270.73	272.6		272.78	0.010375	1.88	20.86	22.42	0.45
Reach 1	3786	100 Year	31.58	270.57	272.07	272.07	272.43	0.033376	2.91	12.51	19.06	0.79
Reach 1	3786	100 Year w C	38.81	270.57	272.21	272.21	272.58	0.032061	3.04	15.29	21.59	0.78
Reach 1	3786	Hazel	28.02	270.57	272	272	272.35	0.03326	2.81	11.25	17.9	0.78
Reach 1	3786	Hazel w CC	33.78	270.57	272.12	272.12	272.48	0.03282	2.95	13.4	19.95	0.78
Reach 1	3768	100 Year	31.58	270.3	271.99		272.1	0.005689	1.76	25.68	24.93	0.44
Reach 1	3768	100 Year w C	38.81	270.3	272.13		272.25	0.00598	1.9	29.07	25.66	0.46
Reach 1	3768	Hazel	28.02	270.3	271.92		272.02	0.005529	1.68	23.91	24.59	0.43
Reach 1	3768	Hazel w CC	33.78	270.3	272.04		272.14	0.005782	1.8	26.74	25.14	0.45
Reach 1	3753	100 Year	31.58	270.1	271.85		271.99	0.00886	2.23	21.25	26.07	0.56
Reach 1	3753	100 Year w C	38.81	270.1	271.98		272.14	0.008967	2.36	24.79	26.96	0.57
Reach 1	3753	Hazel	28.02	270.1	271.78		271.91	0.008763	2.15	19.41	25.42	0.55
Reach 1	3753	Hazel w CC	33.78	270.1	271.89		272.04	0.008904	2.27	22.35	26.43	0.56
Reach 1	3740	100 Year	31.58	270.02	271.72		271.85	0.01214	2.05	20.69	25.39	0.52
Reach 1	3740	100 Year w C	38.81	270.02	271.85		272	0.012108	2.16	24.2	26.93	0.52
Reach 1	3740	Hazel	28.02	270.02	271.65		271.78	0.012018	1.98	18.96	24.38	0.51
Reach 1	3740	Hazel w CC	33.78	270.02	271.76		271.9	0.012173	2.09	21.76	25.98	0.52
Reach 1	3722	100 Year	31.58	269.9	271.49		271.64	0.011322	1.82	20.99	23.57	0.47
Reach 1	3722	100 Year w C	38.81	269.9	271.6		271.78	0.011887	1.96	23.73	24.08	0.49
Reach 1	3722	Hazel	28.02	269.9	271.43		271.57	0.01072	1.73	19.72	23.33	0.46
Reach 1	3722	Hazel w CC	33.78	269.9	271.52		271.68	0.011598	1.87	21.79	23.72	0.48
Reach 1	3696	100 Year	31.58	269.49	270.99	270.99	271.32	0.012617	3.19	17.27	27.21	0.85
Reach 1	3696	100 Year w C	38.81	269.49	271.11	271.11	271.45	0.012564	3.35	20.52	28.61	0.85
Reach 1	3696	Hazel	28.02	269.49	270.9	270.9	271.24	0.014006	3.21	14.75	24.76	0.88
Reach 1	3696	Hazel w CC	33.78	269.49	271.04	271.04	271.36	0.012393	3.22	18.41	27.64	0.84

Reach 1	3675	100 Year	31.58	269.19	270.6	270.47	270.77	0.013111	2.63	20.57	31.55	0.74
Reach 1	3675	100 Year w C	38.81	269.19	270.73		270.91	0.011854	2.68	25.03	33.77	0.72
Reach 1	3675	Hazel	28.02	269.19	270.54	270.43	270.71	0.013017	2.55	18.84	30.89	0.73
Reach 1	3675	Hazel w CC	33.78	269.19	270.63	270.51	270.81	0.012896	2.66	21.8	32.2	0.74
Reach 1	3657	100 Year	31.58	268.93	270.22	270.18	270.46	0.023374	2.79	16.95	25.56	0.82
Reach 1	3657	100 Year w C	38.81	268.93	270.33	270.23	270.61	0.024542	3.04	19.83	28.54	0.85
Reach 1	3657	Hazel	28.02	268.93	270.15	270.12	270.39	0.024886	2.76	15.16	24.7	0.83
Reach 1	3657	Hazel w CC	33.78	268.93	270.25	270.21	270.5	0.023918	2.87	17.66	25.79	0.83
Reach 1	3631	100 Year	31.58	268.5	269.88		270.08	0.009921	2.49	19.67	28.05	0.7
Reach 1	3631	100 Year w C	38.81	268.5	269.98		270.2	0.010091	2.65	22.72	29.4	0.72
Reach 1	3631	Hazel	28.02	268.5	269.86		270.03	0.008341	2.26	19.18	27.79	0.64
Reach 1	3631	Hazel w CC	33.78	268.5	269.94		270.13	0.008807	2.43	21.6	29.04	0.67
Reach 1	3615	100 Year	30.84	268.13	269.52	269.5	269.81	0.026384	2.79	14.62	27.07	0.8
Reach 1	3615	100 Year w C	38.05	268.13	269.64	269.64	269.95	0.024574	2.86	18.04	30.59	0.78
Reach 1	3615	Hazel	29.01	268.13	269.49	269.48	269.78	0.026572	2.75	13.88	25.68	0.8
Reach 1	3615	Hazel w CC	34.98	268.13	269.62	269.62	269.9	0.022839	2.72	17.39	30.3	0.75
Reach 1	3597	100 Year	30.84	267.71	269.28		269.48	0.012004	2.54	17.93	27.75	0.71
Reach 1	3597	100 Year w C	38.05	267.71	269.39		269.6	0.011959	2.67	20.97	29.13	0.71
Reach 1	3597	Hazel	29.01	267.71	269.25	269.16	269.45	0.012064	2.51	17.09	27.27	0.71
Reach 1	3597	Hazel w CC	34.98	267.71	269.35		269.56	0.011518	2.58	20	28.76	0.7
Reach 1	3580	100 Year	30.84	267.49	268.98	268.98	269.29	0.009605	2.98	19.17	32.33	0.81
Reach 1	3580	100 Year w C	38.05	267.49	269.11	269.11	269.42	0.009082	3.08	23.53	35.02	0.81
Reach 1	3580	Hazel	29.01	267.49	268.95	268.95	269.25	0.009661	2.94	18.12	31.68	0.81
Reach 1	3580	Hazel w CC	34.98	267.49	269.05	269.05	269.36	0.009554	3.07	21.45	33.94	0.82
Reach 1	3559	100 Year	30.84	267.28	268.6		268.74	0.015341	2.42	21.09	33.4	0.69
Reach 1	3559	100 Year w C	38.05	267.28	269.08		269.14	0.004125	1.56	37.96	36.63	0.38
Reach 1	3559	Hazel	29.01	267.28	268.56		268.7	0.016128	2.43	19.86	33.09	0.71
Reach 1	3559	Hazel w CC	34.98	267.28	268.93		269	0.005534	1.7	32.53	35.75	0.43
Reach 1	3537	100 Year	30.84	266.68	268.38		268.48	0.008756	1.87	23.02	30.43	0.47
Reach 1	3537	100 Year w C	38.05	266.68	269.03		269.07	0.001915	1.1	44.59	35.4	0.23
Reach 1	3537	Hazel	29.01	266.68	268.31		268.42	0.010249	1.96	20.88	29.64	0.51
Reach 1	3537	Hazel w CC	34.98	266.68	268.87		268.91	0.002422	1.18	38.9	34.33	0.26
Reach 1	3506	100 Year	30.84	266.17	268.25		268.31	0.003382	1.62	34.01	31.91	0.38
Reach 1	3506	100 Year w C	38.05	266.17	269		269.03	0.001015	1.11	60.9	39.25	0.22
Reach 1	3506	Hazel	29.01	266.17	268.16		268.23	0.003718	1.64	31.3	30.92	0.39
Reach 1	3506	Hazel w CC	34.98	266.17	268.83		268.86	0.001187	1.15	54.34	37.67	0.23
Reach 1	3481	100 Year	30.84	265.92	268.2		268.26	0.001306	1.45	42.22	32.78	0.31
Reach 1	3481	100 Year w C	38.05	265.92	268.98		269.01	0.000529	1.13	70.25	39.75	0.21
Reach 1	3481	Hazel	29.01	265.92	268.12		268.17	0.001384	1.45	39.36	31.95	0.32
Reach 1	3481	Hazel w CC	34.98	265.92	268.81		268.84	0.000579	1.13	63.59	38.19	0.21
Reach 1	3465	100 Year	30.84	265.57	268.21		268.24	0.000638	1.11	47.03	30.48	0.22
Reach 1	3465	100 Year w C	38.05	265.57	268.98		269	0.000323	0.94	73.55	38.57	0.16
Reach 1	3465	Hazel	29.01	265.57	268.12		268.15	0.000657	1.1	44.37	29.83	0.22
Reach 1	3465	Hazel w CC	34.98	265.57	268.81		268.83	0.000347	0.94	67.09	37.02	0.17
Reach 1	3443	100 Year	30.84	265.1	268.21		268.23	0.000348	0.76	56.07	30.69	0.14
Reach 1	3443	100 Year w C	38.05	265.1	268.98		268.99	0.000193	0.66	81.93	35.83	0.11
Reach 1	3443	Hazel	29.01	265.1	268.12		268.14	0.000352	0.75	53.38	30.23	0.14
Reach 1	3443	Hazel w CC	34.98	265.1	268.81		268.82	0.000201	0.65	75.89	34.94	0.11
Reach 1	3419	100 Year	32.06	264.73	268.2		268.21	0.00053	0.75	57.54	27.74	0.13
Reach 1	3419	100 Year w C	39.55	264.73	268.97		268.99	0.000324	0.68	80.63	31.63	0.11
Reach 1	3419	Hazel	30.38	264.73	268.11		268.13	0.000536	0.74	55.1	27.36	0.13
Reach 1	3419	Hazel w CC	36.64	264.73	268.8		268.82	0.000336	0.67	75.28	30.89	0.11
Reach 1	3389	100 Year	32.06	264.22	268.19		268.2	0.000196	0.63	75.25	30.54	0.1
Reach 1	3389	100 Year w C	39.55	264.22	268.97		268.98	0.000142	0.61	100.61	35.18	0.09
Reach 1	3389	Hazel	30.38	264.22	268.1		268.12	0.000194	0.62	72.56	30.23	0.1

Reach 1	3389	Hazel w CC	36.64	264.22	268.8		268.81	0.000141	0.59	94.69	33.88	0.09
Reach 1	3364	100 Year	32.06	263.75	268.19		268.2	0.00013	0.59	90.56	33.63	0.09
Reach 1	3364	100 Year w C	39.55	263.75	268.97		268.98	0.000095	0.57	118.48	37.18	0.08
Reach 1	3364	Hazel	30.38	263.75	268.1		268.11	0.000127	0.58	87.61	33.14	0.09
Reach 1	3364	Hazel w CC	36.64	263.75	268.8		268.8	0.000095	0.56	112.15	36.81	0.08
Reach 1	3342	100 Year	32.06	263.43	268.19		268.2	0.000094	0.51	103.42	33.28	0.08
Reach 1	3342	100 Year w C	39.55	263.43	268.97		268.97	0.000075	0.51	129.96	35.06	0.07
Reach 1	3342	Hazel	30.38	263.43	268.1		268.11	0.000092	0.5	100.48	33.11	0.07
Reach 1	3342	Hazel w CC	36.64	263.43	268.8		268.8	0.000073	0.49	124	34.63	0.07
Reach 1	3325	100 Year	32.06	263.15	268.19		268.19	0.000084	0.39	105.3	33.46	0.06
Reach 1	3325	100 Year w C	39.55	263.15	268.97		268.97	0.000068	0.38	131.96	35.15	0.05
Reach 1	3325	Hazel	30.38	263.15	268.1		268.11	0.000081	0.38	102.35	33.19	0.05
Reach 1	3325	Hazel w CC	36.64	263.15	268.8		268.8	0.000067	0.37	125.98	34.77	0.05
Reach 1	3302	100 Year	39.51	262.92	266.11	266.11	267.71	0.030376	4.83	7.67	20.71	0.88
Reach 1	3302	100 Year w C	48.61	262.92	266.58	266.58	268.42	0.028603	5.15	8.84	22.47	0.87
Reach 1	3302	Hazel	38.51	262.92	266.06	266.06	267.63	0.030656	4.8	7.54	20.43	0.88
Reach 1	3302	Hazel w CC	46.54	262.92	266.47	266.47	268.26	0.029064	5.09	8.57	22.12	0.87
Reach 1	Cundles Rd W		Culvert									
Reach 1	3207	100 Year	39.51	260.13	263.31	263.31	264.87	0.008327	5.54	7.13	69.07	1
Reach 1	3207	100 Year w C	48.61	260.13	263.76	263.76	265.56	0.007969	5.94	8.18	74.04	1.01
Reach 1	3207	Hazel	38.51	260.13	263.25	263.25	264.79	0.008383	5.49	7.01	68.59	1
Reach 1	3207	Hazel w CC	46.54	260.13	263.66	263.66	265.41	0.008041	5.85	7.95	73.09	1.01
Reach 1	3177	100 Year	39.51	259.43	261.1	261.1	261.41	0.007058	2.74	22.37	44.24	0.72
Reach 1	3177	100 Year w C	48.61	259.43	261.21	261.21	261.54	0.007248	2.91	27.32	47	0.74
Reach 1	3177	Hazel	38.51	259.43	261.09	261.09	261.4	0.007073	2.72	21.71	44.07	0.72
Reach 1	3177	Hazel w CC	46.54	259.43	261.19	261.19	261.51	0.007151	2.86	26.33	46.57	0.74
Reach 1	3146.633	100 Year	39.51	259.07	260.67	260.67	260.97	0.00682	2.67	24.35	46.89	0.74
Reach 1	3146.633	100 Year w C	48.61	259.07	260.77	260.77	261.1	0.007317	2.9	28.92	48.42	0.78
Reach 1	3146.633	Hazel	38.51	259.07	260.64	260.64	260.95	0.007272	2.72	22.9	46.35	0.76
Reach 1	3146.633	Hazel w CC	46.54	259.07	260.74	260.74	261.07	0.007367	2.87	27.62	47.96	0.78
Reach 1	3113	100 Year	39.51	258.54	260.23	260.23	260.56	0.008377	2.93	23.9	41.21	0.76
Reach 1	3113	100 Year w C	48.61	258.54	260.35	260.35	260.7	0.00847	3.1	28.82	42.42	0.78
Reach 1	3113	Hazel	38.51	258.54	260.24	260.24	260.55	0.007618	2.81	24.4	41.29	0.73
Reach 1	3113	Hazel w CC	46.54	258.54	260.33	260.33	260.67	0.008339	3.05	27.92	42.23	0.77
Reach 1	3077	100 Year	39.51	257.8	259.66	259.66	260.01	0.005836	3.08	22.45	35.01	0.75
Reach 1	3077	100 Year w C	48.61	257.8	259.81	259.81	260.16	0.005631	3.2	27.97	38.43	0.75
Reach 1	3077	Hazel	38.51	257.8	259.65	259.65	260	0.005864	3.07	21.85	34.77	0.75
Reach 1	3077	Hazel w CC	46.54	257.8	259.76	259.76	260.13	0.005975	3.24	26.15	37.84	0.77
Reach 1	3044	100 Year	39.51	257.26	259.05	259.05	259.35	0.005247	2.85	25.79	47.87	0.71
Reach 1	3044	100 Year w C	48.61	257.26	259.16	259.16	259.48	0.005409	3.02	31.21	49.11	0.73
Reach 1	3044	Hazel	38.51	257.26	259.03	259.03	259.34	0.005311	2.85	24.92	47.58	0.71
Reach 1	3044	Hazel w CC	46.54	257.26	259.14	259.14	259.45	0.005343	2.98	30.12	48.94	0.72
Reach 1	3011	100 Year	39.51	256.77	258.53	258.53	258.82	0.009758	3.05	25.2	44.35	0.77
Reach 1	3011	100 Year w C	48.61	256.77	258.64	258.64	258.94	0.010036	3.24	30.11	47.03	0.79
Reach 1	3011	Hazel	38.51	256.77	258.52	258.52	258.81	0.009648	3.02	24.73	44.15	0.76
Reach 1	3011	Hazel w CC	46.54	256.77	258.6	258.6	258.92	0.010308	3.23	28.53	45.76	0.8
Reach 1	2973	100 Year	39.51	256.31	257.83	257.83	258.13	0.006141	2.82	25.14	43.81	0.75
Reach 1	2973	100 Year w C	48.61	256.31	257.92	257.92	258.27	0.00693	3.11	28.84	47	0.81
Reach 1	2973	Hazel	38.51	256.31	257.82	257.82	258.12	0.006154	2.8	24.49	43.59	0.75
Reach 1	2973	Hazel w CC	46.54	256.31	257.9	257.9	258.24	0.006653	3.03	28.23	45.95	0.79
Reach 1	2938	100 Year	39.51	255.55	257.29	257.29	257.54	0.006388	2.77	33.11	68.18	0.7
Reach 1	2938	100 Year w C	48.61	255.55	257.39	257.39	257.64	0.006481	2.9	40.2	71.41	0.72
Reach 1	2938	Hazel	38.51	255.55	257.25	257.25	257.52	0.006953	2.85	30.65	66.29	0.73
Reach 1	2938	Hazel w CC	46.54	255.55	257.36	257.36	257.62	0.006739	2.92	37.96	70.9	0.73

Reach 1	2899	100 Year	39.51	254.61	256.45	256.45	256.75	0.005824	2.84	28.26	55.14	0.69
Reach 1	2899	100 Year w C	48.61	254.61	256.56	256.56	256.87	0.006126	3.04	34.41	57.9	0.71
Reach 1	2899	Hazel	38.51	254.61	256.42	256.42	256.73	0.006102	2.88	26.71	54.28	0.7
Reach 1	2899	Hazel w CC	46.54	254.61	256.55	256.55	256.85	0.005689	2.92	34.19	57.84	0.69
Reach 1	2845	100 Year	39.51	253.43	255.1	255.1	255.38	0.00711	2.87	31.3	57.18	0.74
Reach 1	2845	100 Year w C	48.61	253.43	255.19	255.19	255.49	0.007608	3.08	36.54	58.55	0.77
Reach 1	2845	Hazel	38.51	253.43	255.09	255.09	255.36	0.007053	2.84	30.67	56.99	0.74
Reach 1	2845	Hazel w CC	46.54	253.43	255.18	255.18	255.46	0.007482	3.04	35.44	58.28	0.76
Reach 1	2798	100 Year	39.51	252.78	254.41	254.41	254.72	0.010453	2.92	22.38	39.82	0.75
Reach 1	2798	100 Year w C	48.61	252.78	254.51	254.51	254.86	0.011142	3.15	26.55	42.29	0.79
Reach 1	2798	Hazel	38.51	252.78	254.39	254.39	254.71	0.010477	2.9	21.77	39.46	0.75
Reach 1	2798	Hazel w CC	46.54	252.78	254.48	254.48	254.83	0.011353	3.13	25.25	41.06	0.79
Reach 1	2758	100 Year	39.51	252.26	253.89	253.89	254.2	0.006698	3	24.89	47.71	0.78
Reach 1	2758	100 Year w C	48.61	252.26	254	254	254.33	0.006856	3.18	30.46	51.87	0.8
Reach 1	2758	Hazel	38.51	252.26	253.88	253.88	254.18	0.006608	2.96	24.41	47.6	0.78
Reach 1	2758	Hazel w CC	46.54	252.26	253.98	253.98	254.3	0.006695	3.12	29.53	51.56	0.79
Reach 1	2718	100 Year	39.51	251.43	253.03	253.03	253.32	0.008914	2.98	25.32	46.3	0.82
Reach 1	2718	100 Year w C	48.61	251.43	253.14	253.14	253.45	0.008906	3.15	30.82	49.89	0.83
Reach 1	2718	Hazel	38.51	251.43	253.02	253.02	253.31	0.008837	2.96	24.82	46.12	0.81
Reach 1	2718	Hazel w CC	46.54	251.43	253.11	253.11	253.42	0.009106	3.14	29.34	49.25	0.83
Reach 1	2680	100 Year	39.51	251.24	252.52	252.52	252.76	0.012759	2.94	28.11	53.78	0.87
Reach 1	2680	100 Year w C	48.61	251.24	252.57	252.57	252.86	0.015277	3.31	30.9	56.16	0.96
Reach 1	2680	Hazel	38.51	251.24	252.51	252.51	252.75	0.012276	2.88	27.97	53.73	0.85
Reach 1	2680	Hazel w CC	46.54	251.24	252.57	252.56	252.84	0.013823	3.15	31.06	56.53	0.91
Reach 1	2641	100 Year	39.69	250.52	252.09	252.09	252.32	0.007675	2.97	29.05	58.08	0.81
Reach 1	2641	100 Year w C	48.96	250.52	252.17	252.17	252.42	0.008236	3.19	33.69	59.15	0.84
Reach 1	2641	Hazel	41.37	250.52	252.11	252.11	252.33	0.007506	2.97	30.4	58.39	0.8
Reach 1	2641	Hazel w CC	50.07	250.52	252.17	252.17	252.43	0.008361	3.22	34.11	59.25	0.85
Reach 1	2602	100 Year	39.69	250.16	251.9		251.95	0.002165	1.77	55.28	85.95	0.44
Reach 1	2602	100 Year w C	48.96	250.16	252.06		252.11	0.001771	1.71	69.62	88.59	0.41
Reach 1	2602	Hazel	41.37	250.16	251.97		252.01	0.001778	1.65	61.5	87.99	0.4
Reach 1	2602	Hazel w CC	50.07	250.16	252.12		252.16	0.001489	1.6	75.27	89.21	0.37
Reach 1	2564	100 Year	39.69	249.82	251.9		251.91	0.000393	0.85	112.63	92.84	0.19
Reach 1	2564	100 Year w C	48.96	249.82	252.06		252.07	0.00041	0.92	127.48	94.69	0.2
Reach 1	2564	Hazel	41.37	249.82	251.97		251.98	0.00036	0.84	119.07	93.67	0.19
Reach 1	2564	Hazel w CC	50.07	249.82	252.12		252.13	0.00038	0.9	133.45	96.9	0.19
Reach 1	2530	100 Year	39.69	249.43	251.9		251.9	0.000089	0.46	149.85	79.27	0.1
Reach 1	2530	100 Year w C	48.96	249.43	252.05		252.06	0.000106	0.52	162.42	80.05	0.11
Reach 1	2530	Hazel	41.37	249.43	251.97		251.97	0.000087	0.46	155.33	79.59	0.1
Reach 1	2530	Hazel w CC	50.07	249.43	252.12		252.12	0.0001	0.51	167.45	80.5	0.1
Reach 1	2489	100 Year	39.69	248.85	251.89		251.9	0.000064	0.43	159.42	73.11	0.08
Reach 1	2489	100 Year w C	48.96	248.85	252.05		252.06	0.000079	0.5	170.97	73.86	0.09
Reach 1	2489	Hazel	41.37	248.85	251.96		251.97	0.000063	0.44	164.48	73.44	0.08
Reach 1	2489	Hazel w CC	50.07	248.85	252.11		252.12	0.000076	0.49	175.62	74.16	0.09
Reach 1	2438	100 Year	39.69	248.74	251.89		251.89	0.000084	0.49	132.41	66.04	0.09
Reach 1	2438	100 Year w C	48.96	248.74	252.04		252.05	0.000102	0.56	142.77	66.84	0.1
Reach 1	2438	Hazel	41.37	248.74	251.96		251.96	0.000083	0.49	136.98	66.4	0.09
Reach 1	2438	Hazel w CC	50.07	248.74	252.11		252.11	0.000098	0.55	146.99	67.07	0.1
Reach 1	2406	100 Year	39.69	248.2	251.89		251.89	0.000039	0.3	192.14	86.65	0.05
Reach 1	2406	100 Year w C	48.96	248.2	252.04		252.05	0.000049	0.34	205.8	88.4	0.06
Reach 1	2406	Hazel	41.37	248.2	251.96		251.96	0.000039	0.3	198.16	87.38	0.05
Reach 1	2406	Hazel w CC	50.07	248.2	252.11		252.11	0.000048	0.34	211.41	89.81	0.06
Reach 1	2387	100 Year	39.69	247.9	251.89		251.89	0.000022	0.32	259.21	107.75	0.05
Reach 1	2387	100 Year w C	48.96	247.9	252.04		252.05	0.000028	0.37	276.17	109.6	0.06
Reach 1	2387	Hazel	41.37	247.9	251.96		251.96	0.000022	0.33	266.69	108.5	0.05
Reach 1	2387	Hazel w CC	50.07	247.9	252.11		252.11	0.000027	0.37	283.1	110.19	0.06

Reach 1	2374	100 Year	39.69	247.9	251.89		251.89	0.000012	0.24	373.39	177.86	0.04
Reach 1	2374	100 Year w C	48.96	247.9	252.05		252.05	0.000015	0.27	401.34	179.74	0.04
Reach 1	2374	Hazel	41.37	247.9	251.96		251.96	0.000012	0.24	385.73	178.77	0.04
Reach 1	2374	Hazel w CC	50.07	247.9	252.11		252.11	0.000014	0.27	412.7	180.58	0.04
Reach 1	2358	100 Year	39.69	247.92	251.89		251.89	0.000009	0.15	427.79	195.38	0.02
Reach 1	2358	100 Year w C	48.96	247.92	252.05		252.05	0.000011	0.17	458.6	198.86	0.03
Reach 1	2358	Hazel	41.37	247.92	251.96		251.96	0.000009	0.15	441.37	196.92	0.02
Reach 1	2358	Hazel w CC	50.07	247.92	252.11		252.11	0.000011	0.17	471.19	200.29	0.03
Reach 1	2303	100 Year	39.69	246.89	251.89		251.89	0.000005	0.17	510.1	178.41	0.02
Reach 1	2303	100 Year w C	48.96	246.89	252.04		252.05	0.000007	0.2	538.14	180.88	0.03
Reach 1	2303	Hazel	41.37	246.89	251.96		251.96	0.000005	0.17	522.47	179.27	0.02
Reach 1	2303	Hazel w CC	50.07	246.89	252.11		252.11	0.000007	0.2	549.58	181.81	0.03
Reach 1	2242	100 Year	46.38	246.02	251.89		251.89	0.000005	0.15	550.75	159.34	0.02
Reach 1	2242	100 Year w C	56.25	246.02	252.04		252.04	0.000007	0.17	575.71	160.31	0.02
Reach 1	2242	Hazel	48.83	246.02	251.96		251.96	0.000005	0.15	561.79	159.78	0.02
Reach 1	2242	Hazel w CC	59.13	246.02	252.11		252.11	0.000007	0.18	585.82	160.72	0.02
Reach 1	2203	100 Year	46.38	245.78	251.89		251.89	0.000004	0.14	572.99	153.16	0.02
Reach 1	2203	100 Year w C	56.25	245.78	252.04		252.04	0.000006	0.16	597.05	154.95	0.02
Reach 1	2203	Hazel	48.83	245.78	251.96		251.96	0.000004	0.14	583.61	154.14	0.02
Reach 1	2203	Hazel w CC	59.13	245.78	252.11		252.11	0.000006	0.16	606.83	155.35	0.02
Reach 1	2170	100 Year	46.38	245.35	251.89		251.89	0.000003	0.13	647.18	153.5	0.02
Reach 1	2170	100 Year w C	56.25	245.35	252.04		252.04	0.000003	0.16	671.22	154.5	0.02
Reach 1	2170	Hazel	48.83	245.35	251.96		251.96	0.000003	0.14	657.81	153.98	0.02
Reach 1	2170	Hazel w CC	59.13	245.35	252.11		252.11	0.000004	0.16	680.96	154.8	0.02
Reach 1	2113	100 Year	50.22	245.24	251.79	248.47	251.86	0.000827	1.64	99.37	235.54	0.29
Reach 1	2113	100 Year w C	61.04	245.24	251.99	248.89	252.03	0.000569	1.42	146.29	236.91	0.24
Reach 1	2113	Hazel	54.47	245.24	251.88	248.63	251.94	0.000664	1.5	122.01	236.17	0.26
Reach 1	2113	Hazel w CC	65.99	245.24	252.06	249.07	252.1	0.000519	1.37	163.04	237.68	0.23
Reach 1	Reservoir Embank	Culvert										
Reach 1	2029	100 Year	50.22	242.98	251.76		251.86	0.00037	1.55	91.77	210.53	0.22
Reach 1	2029	100 Year w C	61.04	242.98	251.93		252.02	0.000361	1.57	128.37	211.24	0.22
Reach 1	2029	Hazel	54.47	242.98	251.84		251.93	0.000361	1.55	108.36	210.78	0.22
Reach 1	2029	Hazel w CC	65.99	242.98	252		252.09	0.000358	1.57	142.96	211.51	0.22
Reach 1	2023	100 Year	50.22	242.94	251.81		251.81	0.000004	0.25	544.71	208.05	0.03
Reach 1	2023	100 Year w C	61.04	242.94	251.97		251.98	0.000005	0.28	579.64	209.22	0.03
Reach 1	2023	Hazel	54.47	242.94	251.88		251.88	0.000005	0.26	560.39	208.53	0.03
Reach 1	2023	Hazel w CC	65.99	242.94	252.04		252.04	0.000006	0.3	593.64	209.73	0.03
Reach 1	2018	100 Year	50.22	242.87	251.8	245.96	251.81	0.000044	0.58	300.67	203.48	0.08
Reach 1	2018	100 Year w C	61.04	242.87	251.97	246.38	251.97	0.000049	0.63	334.78	204.62	0.08
Reach 1	2018	Hazel	54.47	242.87	251.88	246.13	251.88	0.000046	0.6	316	204	0.08
Reach 1	2018	Hazel w CC	65.99	242.87	252.03	246.57	252.04	0.000052	0.65	348.44	205.05	0.09
Reach 1	Hwy 400	Culvert										
Reach 1	1930	100 Year	50.22	242.22	245.33	245.33	246.86	0.008411	5.49	9.14	104.45	1
Reach 1	1930	100 Year w C	61.04	242.22	245.75	245.75	247.5	0.008062	5.86	10.41	111.08	1.01
Reach 1	1930	Hazel	54.47	242.22	245.5	245.5	247.12	0.008233	5.64	9.66	107.88	1
Reach 1	1930	Hazel w CC	65.99	242.22	245.93	245.93	247.78	0.00793	6.02	10.96	114.18	1.01
Reach 1	1845	100 Year	50.22	241.85	242.69		242.74	0.006214	1.53	50.04	87.01	0.57
Reach 1	1845	100 Year w C	61.04	241.85	242.77		242.83	0.005998	1.61	57.23	88.13	0.56
Reach 1	1845	Hazel	54.47	241.85	242.71		242.77	0.006249	1.58	52.58	87.48	0.57
Reach 1	1845	Hazel w CC	65.99	241.85	242.81		242.87	0.005696	1.63	61.12	88.82	0.55
Reach 1	1754	100 Year	50.22	240.25	241.85	241.85	242.05	0.008942	2.85	41.64	86.78	0.73
Reach 1	1754	100 Year w C	61.04	240.25	241.92	241.92	242.13	0.009611	3.04	47.32	87.58	0.77
Reach 1	1754	Hazel	54.47	240.25	241.88	241.88	242.08	0.008923	2.89	44.52	87.15	0.74
Reach 1	1754	Hazel w CC	65.99	240.25	241.93	241.93	242.16	0.01061	3.21	48.4	87.75	0.81

Reach 1	1718	100 Year	50.22	239.71	241.37		241.4	0.003853	1.21	71.1	93.82	0.31
Reach 1	1718	100 Year w C	61.04	239.71	241.46		241.49	0.00397	1.27	79.93	94.86	0.31
Reach 1	1718	Hazel	54.47	239.71	241.4		241.43	0.003938	1.24	74.43	94.21	0.31
Reach 1	1718	Hazel w CC	65.99	239.71	241.49		241.53	0.004092	1.31	83.25	95.25	0.32
Reach 1	1679	100 Year	50.22	239.11	241.26	240.74	241.28	0.001993	0.93	81.37	98.76	0.26
Reach 1	1679	100 Year w C	61.04	239.11	241.35	240.8	241.38	0.002146	1	90.12	100.31	0.27
Reach 1	1679	Hazel	54.47	239.11	241.29	240.76	241.32	0.002086	0.96	84.5	99.32	0.27
Reach 1	1679	Hazel w CC	65.99	239.11	241.38	240.81	241.41	0.002265	1.04	93.13	100.81	0.28
Reach 1	0	Rail Trail	Culvert									
Reach 1	1662	100 Year	50.22	239.12	240.78	240.78	240.95	0.018835	3.12	35.19	82.11	0.94
Reach 1	1662	100 Year w C	61.04	239.12	240.82	240.82	241.01	0.020277	3.33	39.1	83.42	0.98
Reach 1	1662	Hazel	54.47	239.12	240.8	240.8	240.97	0.019348	3.2	36.83	82.48	0.95
Reach 1	1662	Hazel w CC	65.99	239.12	240.84	240.84	241.04	0.021046	3.43	40.66	84.07	1
Reach 1	1612	100 Year	50.22	238.22	239.8		239.82	0.001759	0.94	69.71	62.8	0.25
Reach 1	1612	100 Year w C	61.04	238.22	239.92		239.96	0.001842	1.02	77.83	63.4	0.26
Reach 1	1612	Hazel	54.47	238.22	239.87		239.9	0.001696	0.95	74.3	63.19	0.24
Reach 1	1612	Hazel w CC	65.99	238.22	239.99		240.02	0.001834	1.04	81.92	63.65	0.26
Reach 1	1577	100 Year	50.22	237.68	239.75		239.77	0.001142	1.12	72.03	52.62	0.26
Reach 1	1577	100 Year w C	61.04	237.68	239.87		239.9	0.001299	1.24	78.5	53.33	0.28
Reach 1	1577	Hazel	54.47	237.68	239.82		239.85	0.001147	1.15	75.89	53.04	0.26
Reach 1	1577	Hazel w CC	65.99	237.68	239.93		239.97	0.001336	1.28	81.87	53.7	0.28
Reach 1	1553	100 Year	50.22	237.28	239.71	238.58	239.74	0.001371	0.97	62.45	43.37	0.2
Reach 1	1553	100 Year w C	61.04	237.28	239.82	238.67	239.87	0.001611	1.09	67.45	43.57	0.22
Reach 1	1553	Hazel	54.47	237.28	239.78	238.62	239.82	0.001395	1	65.58	43.5	0.21
Reach 1	1553	Hazel w CC	65.99	237.28	239.89	238.71	239.93	0.001678	1.13	70.1	43.7	0.23
Reach 1	1509	100 Year	49.41	236.23	239.54	239.11	239.65	0.002092	1.93	47.95	57.77	0.45
Reach 1	1509	100 Year w C	59.96	236.23	239.65	239.21	239.76	0.002192	2.05	54.28	59.93	0.46
Reach 1	1509	Hazel	55.57	236.23	239.61	239.17	239.72	0.002174	2.01	51.74	59.52	0.46
Reach 1	1509	Hazel w CC	67.28	236.23	239.7	239.29	239.82	0.002385	2.17	56.93	61	0.48
Reach 1		Wellington St W	Culvert									
Reach 1	1447	100 Year	49.41	235.29	238.73	238.73	238.89	0.002646	2.49	37.27	82.73	0.52
Reach 1	1447	100 Year w C	59.96	235.29	238.78	238.78	238.95	0.002977	2.67	41.16	83	0.55
Reach 1	1447	Hazel	55.57	235.29	238.75	238.75	238.93	0.002972	2.65	38.96	82.84	0.55
Reach 1	1447	Hazel w CC	67.28	235.29	238.8	238.8	238.99	0.003243	2.81	43.35	83.15	0.58
Reach 1	1412.792	100 Year	49.41	234.63	237.03	237.03	237.2	0.012452	2.63	30.88	73.57	0.6
Reach 1	1412.792	100 Year w C	59.96	234.63	237.08	237.08	237.27	0.012977	2.73	35.2	79.65	0.62
Reach 1	1412.792	Hazel	55.57	234.63	237.06	237.06	237.24	0.012934	2.71	33.29	76.84	0.62
Reach 1	1412.792	Hazel w CC	67.28	234.63	237.12	237.12	237.32	0.013402	2.81	37.91	85.34	0.63
Reach 1		Thomson St	Culvert									
Reach 1	1330	100 Year	49.41	232.58	234.47	234.47	234.66	0.012874	2.88	31.57	67.74	0.78
Reach 1	1330	100 Year w C	59.96	232.58	234.52	234.52	234.74	0.014304	3.11	35.2	73.77	0.83
Reach 1	1330	Hazel	55.57	232.58	234.51	234.51	234.71	0.012551	2.9	34.92	73.58	0.78
Reach 1	1330	Hazel w CC	67.28	232.58	234.59	234.59	234.8	0.012596	3.02	40.96	77.57	0.78
Reach 1	1309	100 Year	49.41	232.37	233.99	233.99	234.2	0.018115	2.81	28.13	61.72	0.83
Reach 1	1309	100 Year w C	59.96	232.37	234.06	234.06	234.28	0.018005	2.91	32.71	67.46	0.84
Reach 1	1309	Hazel	55.57	232.37	234.03	234.03	234.25	0.017722	2.85	31.06	65.56	0.83
Reach 1	1309	Hazel w CC	67.28	232.37	234.12	234.12	234.33	0.016659	2.89	36.71	74.89	0.81
Reach 1	1289	100 Year	49.41	232.04	233.79	233.79	233.99	0.004876	1.49	30.36	75.58	0.43
Reach 1	1289	100 Year w C	59.96	232.04	233.85	233.85	234.07	0.00481	1.54	35.31	76.15	0.43
Reach 1	1289	Hazel	55.57	232.04	233.82	233.82	234.04	0.004863	1.52	33.24	75.91	0.43
Reach 1	1289	Hazel w CC	67.28	232.04	233.89	233.89	234.12	0.004818	1.57	38.34	76.52	0.44
Reach 1	1271	100 Year	49.41	231.68	233.29	233.29	233.52	0.004315	1.6	26.39	65.53	0.46
Reach 1	1271	100 Year w C	59.96	231.68	233.35	233.35	233.61	0.004441	1.68	30.66	66.36	0.48

Reach 1	1271	Hazel	55.57	231.68	233.33	233.33	233.57	0.004358	1.64	29.03	66.17	0.47
Reach 1	1271	Hazel w CC	67.28	231.68	233.4	233.4	233.67	0.004442	1.72	33.62	66.68	0.48
Reach 1	1250	100 Year	49.41	231.14	232.81	232.81	233.03	0.009357	2.21	28.65	69.7	0.63
Reach 1	1250	100 Year w C	59.96	231.14	232.86	232.86	233.12	0.009484	2.29	32.23	70.76	0.64
Reach 1	1250	Hazel	55.57	231.14	232.84	232.84	233.08	0.009851	2.3	30.34	70.02	0.65
Reach 1	1250	Hazel w CC	67.28	231.14	232.91	232.91	233.18	0.008916	2.27	35.32	71.67	0.62
Reach 1	1226	100 Year	49.41	230.79	232.53	232.53	232.71	0.00817	2.53	29.64	71.58	0.67
Reach 1	1226	100 Year w C	59.96	230.79	232.59	232.59	232.78	0.007668	2.53	34.5	76.66	0.66
Reach 1	1226	Hazel	55.57	230.79	232.57	232.57	232.75	0.007666	2.5	32.8	75.69	0.66
Reach 1	1226	Hazel w CC	67.28	230.79	232.63	232.63	232.82	0.007762	2.58	37.08	78.73	0.67
Reach 1	1204	100 Year	49.41	230.52	232.06	232.06	232.25	0.006687	2.25	26.32	66.9	0.71
Reach 1	1204	100 Year w C	59.96	230.52	232.12	232.12	232.33	0.00677	2.35	30.36	73	0.72
Reach 1	1204	Hazel	55.57	230.52	232.09	232.09	232.3	0.007058	2.35	28.17	69.4	0.74
Reach 1	1204	Hazel w CC	67.28	230.52	232.16	232.16	232.39	0.006773	2.4	33.15	74.75	0.73
Reach 1	Eccles St N @ So		Culvert									
Reach 1	1177	100 Year	49.41	230.04	231.7	231.7	231.87	0.007792	2.03	27.23	79.17	0.67
Reach 1	1177	100 Year w C	59.96	230.04	231.74	231.74	231.95	0.007809	2.1	31.14	84.82	0.68
Reach 1	1177	Hazel	55.57	230.04	231.73	231.73	231.92	0.007702	2.06	29.66	83.77	0.67
Reach 1	1177	Hazel w CC	67.28	230.04	231.78	231.78	232	0.007341	2.09	34.66	91.32	0.66
Reach 1	1158	100 Year	49.41	229.69	231.29	231.29	231.52	0.004262	1.46	26.05	61.73	0.46
Reach 1	1158	100 Year w C	59.96	229.69	231.35	231.35	231.61	0.00425	1.51	29.97	62.51	0.46
Reach 1	1158	Hazel	55.57	229.69	231.32	231.32	231.57	0.004271	1.49	28.34	62.12	0.46
Reach 1	1158	Hazel w CC	67.28	229.69	231.4	231.4	231.67	0.00403	1.52	33.15	64.46	0.46
Reach 1	1144	100 Year	49.41	229.45	230.67	230.67	230.84	0.009267	1.89	27.09	77.15	0.65
Reach 1	1144	100 Year w C	59.96	229.45	230.71	230.71	230.91	0.009638	2	30.46	78.23	0.67
Reach 1	1144	Hazel	55.57	229.45	230.7	230.7	230.88	0.009291	1.94	29.3	78.08	0.65
Reach 1	1144	Hazel w CC	67.28	229.45	230.75	230.75	230.96	0.00923	2.01	33.36	78.66	0.66
Reach 1	1114	100 Year	49.67	228.97	230.21	230.16	230.38	0.013945	2.5	30.06	61.51	0.81
Reach 1	1114	100 Year w C	60.24	228.97	230.28	230.23	230.46	0.013731	2.59	34.68	65.83	0.81
Reach 1	1114	Hazel	55.96	228.97	230.28	230.2	230.44	0.012067	2.43	34.46	65.76	0.76
Reach 1	1114	Hazel w CC	67.76	228.97	230.32	230.27	230.52	0.013765	2.67	37.64	66.66	0.81
Reach 1	1087	100 Year	49.67	228.16	229.74	229.74	229.96	0.016677	2.74	26.48	56.4	0.83
Reach 1	1087	100 Year w C	60.24	228.16	229.82	229.82	230.05	0.016225	2.83	31.27	59.41	0.82
Reach 1	1087	Hazel	55.96	228.16	229.75	229.75	230.01	0.019234	2.97	27.48	57.45	0.89
Reach 1	1087	Hazel w CC	67.76	228.16	229.86	229.86	230.11	0.016202	2.9	33.87	60.48	0.83
Reach 1	1056	100 Year	49.67	227.65	229.14	229.14	229.38	0.011845	3.01	29.34	49.96	0.83
Reach 1	1056	100 Year w C	60.24	227.65	229.2	229.2	229.48	0.012989	3.26	32.81	53.3	0.87
Reach 1	1056	Hazel	55.96	227.65	229.17	229.17	229.44	0.012896	3.19	31.13	51.09	0.87
Reach 1	1056	Hazel w CC	67.76	227.65	229.24	229.24	229.56	0.014543	3.51	35.15	62.25	0.93
Reach 1	1013	100 Year	49.67	226.81	228.84		228.92	0.002114	1.6	48.71	60.1	0.4
Reach 1	1013	100 Year w C	60.24	226.81	228.95		229.04	0.002259	1.72	55.34	60.91	0.41
Reach 1	1013	Hazel	55.96	226.81	228.9		228.99	0.002204	1.67	52.73	60.62	0.41
Reach 1	1013	Hazel w CC	67.76	226.81	229.01		229.12	0.002375	1.8	59.45	61.49	0.42
Reach 1	993	100 Year	49.67	226.49	228.53	228.53	228.8	0.006482	2.93	32.13	51.37	0.74
Reach 1	993	100 Year w C	60.24	226.49	228.61	228.61	228.91	0.007043	3.15	36.15	58.39	0.77
Reach 1	993	Hazel	55.96	226.49	228.57	228.57	228.86	0.006911	3.08	34.41	56.73	0.76
Reach 1	993	Hazel w CC	67.76	226.49	228.67	228.67	228.98	0.007128	3.25	39.43	64.29	0.78
Reach 1	Donald St		Culvert									
Reach 1	953	100 Year	50.67	225.54	228.19	228.19	228.34	0.002828	2.32	39.13	110.23	0.47
Reach 1	953	100 Year w C	61.39	225.54	228.23	228.23	228.41	0.0032	2.5	44.34	110.38	0.5
Reach 1	953	Hazel	58.03	225.54	228.22	228.22	228.39	0.003118	2.46	42.59	110.33	0.49
Reach 1	953	Hazel w CC	70.3	225.54	228.27	228.27	228.45	0.003467	2.63	48.27	110.49	0.52
Reach 1	921	100 Year	50.67	224.89	227.48	226.52	227.49	0.000745	0.83	95.31	82.03	0.17
Reach 1	921	100 Year w C	61.39	224.89	227.64	226.65	227.66	0.000733	0.86	108.72	83.37	0.17

Reach 1	921	Hazel	58.03	224.89	227.59	226.63	227.61	0.00074	0.85	104.47	82.74	0.17
Reach 1	921	Hazel w CC	70.3	224.89	227.78	226.71	227.8	0.000709	0.87	120.45	89.25	0.17
Reach 1	875	100 Year	50.67	224.27	227.33	226.99	227.43	0.002378	1.76	39.02	45.24	0.33
Reach 1	875	100 Year w C	61.39	224.27	227.51	227.17	227.6	0.001848	1.61	47.12	45.61	0.29
Reach 1	875	Hazel	58.03	224.27	227.45	227.15	227.55	0.001991	1.65	44.61	45.42	0.3
Reach 1	875	Hazel w CC	70.3	224.27	227.65	227.22	227.74	0.001535	1.51	53.79	46.4	0.27
Reach 1	866	100 Year	50.67	224.21	226.89	226.89	227.36	0.007795	2.92	16.96	16.65	0.58
Reach 1	866	100 Year w C	61.39	224.21	227.05	227.05	227.53	0.007741	3.03	20.08	22.64	0.58
Reach 1	866	Hazel	58.03	224.21	227.01	227.01	227.48	0.00796	3.04	19.16	21.85	0.59
Reach 1	866	Hazel w CC	70.3	224.21	227.13	227.13	227.67	0.007811	3.1	21.89	23.28	0.59
Reach 1	848	100 Year	50.67	223.93	226.75		226.84	0.002092	1.81	42.45	40.6	0.35
Reach 1	848	100 Year w C	61.39	223.93	226.45		226.7	0.006475	2.95	32.04	32.27	0.61
Reach 1	848	Hazel	58.03	223.93	226.4		226.65	0.006675	2.95	30.37	31.8	0.61
Reach 1	848	Hazel w CC	70.3	223.93	226.71		226.9	0.00448	2.62	40.74	39.17	0.51
Reach 1	816	100 Year	50.67	223.12	225.47	225.47	226.44	0.015588	4.49	12	28.88	0.97
Reach 1	816	100 Year w C	61.39	223.12	226.37	226.17	226.54	0.002505	2.27	48.11	63.59	0.41
Reach 1	816	Hazel	58.03	223.12	226.31	226.15	226.49	0.002707	2.32	44.2	61.21	0.43
Reach 1	816	Hazel w CC	70.3	223.12	226.68	226.24	226.78	0.001349	1.78	69.25	72.55	0.31
Reach 1	Eccles St N	Culvert										
Reach 1	788	100 Year	50.84	222.94	224.98	224.98	226.01	0.004943	2.47	15.39	19.85	0.56
Reach 1	788	100 Year w C	61.61	222.94	225.26	225.26	226.43	0.004579	2.59	17.63	24.18	0.55
Reach 1	788	Hazel	58.66	222.94	225.19	225.19	226.32	0.004668	2.56	17.03	20.93	0.55
Reach 1	788	Hazel w CC	71.02	222.94	225.47	225.47	226.78	0.004479	2.71	19.29	33.32	0.55
Reach 1	762	100 Year	50.84	222.55	224.46	224.41	224.75	0.008895	2.93	22.61	30.89	0.7
Reach 1	762	100 Year w C	61.61	222.55	224.6	224.53	224.89	0.008001	2.92	26.89	31.7	0.67
Reach 1	762	Hazel	58.66	222.55	224.57	224.5	224.86	0.008122	2.91	25.87	31.52	0.67
Reach 1	762	Hazel w CC	71.02	222.55	224.71	224.61	225.01	0.007441	2.92	30.24	32.28	0.65
Reach 1	735	100 Year	50.84	222.44	224.04	224.04	224.42	0.016627	3.45	19.87	26.05	0.88
Reach 1	735	100 Year w C	61.61	222.44	224.15	224.15	224.57	0.016893	3.65	22.91	26.81	0.9
Reach 1	735	Hazel	58.66	222.44	224.12	224.12	224.53	0.017076	3.62	21.98	26.61	0.9
Reach 1	735	Hazel w CC	71.02	222.44	224.24	224.24	224.69	0.016916	3.79	25.46	27.29	0.91
Reach 1	707	100 Year	50.84	221.96	223.97		224.2	0.000864	2.56	24.91	21.51	0.59
Reach 1	707	100 Year w C	61.61	221.96	224.1		224.37	0.000947	2.8	27.73	22.43	0.62
Reach 1	707	Hazel	58.66	221.96	224.05		224.32	0.00095	2.76	26.71	22.09	0.62
Reach 1	707	Hazel w CC	71.02	221.96	224.27		224.54	0.00089	2.86	31.56	23.71	0.61
Reach 1	675	100 Year	50.84	221.75	223.83		224.15	0.001835	3.1	25.17	21.19	0.7
Reach 1	675	100 Year w C	61.61	221.75	223.81	223.7	224.3	0.002797	3.81	24.81	21.01	0.86
Reach 1	675	Hazel	58.66	221.75	223.81	223.65	224.25	0.002527	3.62	24.84	21.03	0.82
Reach 1	675	Hazel w CC	71.02	221.75	223.83	223.83	224.46	0.003556	4.32	25.24	21.23	0.97
Reach 1	641	100 Year	50.84	221.5	223.9		224.06	0.000889	1.66	29.83	25.43	0.35
Reach 1	641	100 Year w C	61.61	221.5	223.93		224.16	0.001199	1.95	30.76	25.71	0.41
Reach 1	641	Hazel	58.66	221.5	223.92		224.13	0.001127	1.88	30.36	25.64	0.4
Reach 1	641	Hazel w CC	71.02	221.5	223.92		224.23	0.00164	2.27	30.44	25.66	0.48
Reach 1	611	100 Year	50.84	221.24	223.92		224.02	0.000396	1.54	38.76	33.14	0.31
Reach 1	611	100 Year w C	61.61	221.24	223.97		224.11	0.000518	1.78	40.36	33.23	0.36
Reach 1	611	Hazel	58.66	221.24	223.95		224.08	0.000491	1.73	39.73	33.2	0.35
Reach 1	611	Hazel w CC	71.02	221.24	223.98		224.16	0.000675	2.04	40.64	33.25	0.41
Reach 1	581	100 Year	50.84	220.83	223.76	223.76	223.97	0.000961	2.77	34.47	78.99	0.64
Reach 1	581	100 Year w C	61.61	220.83	223.82	223.82	224.06	0.001132	3.04	38.67	84.13	0.7
Reach 1	581	Hazel	58.66	220.83	223.82	223.82	224.03	0.001012	2.87	38.95	84.49	0.66
Reach 1	581	Hazel w CC	71.02	220.83	223.87	223.87	224.11	0.001185	3.14	43.38	87.97	0.71
Reach 1	550	Dunlop St	Culvert									
Reach 1	503	100 Year	50.84	219.88	223.34	223.34	223.65	0.015054	2.51	21.15	39.48	1.02
Reach 1	503	100 Year w C	61.61	219.88	223.43	223.43	223.76	0.013938	2.63	24.64	41.6	1

Reach 1	9	100 Year	51.75	217.24	219.04	219.04	219.93	0.034565	4.18	12.38	19.62	1
Reach 1	9	100 Year w C	62.61	217.24	219.53	219.53	219.64	0.011725	1.72	46.91	160	0.52
Reach 1	9	Hazel	60.69	217.24	219.52	219.52	219.63	0.011832	1.72	45.78	159.95	0.52
Reach 1	9	Hazel w CC	73.53	217.24	219.55	219.55	219.68	0.01276	1.82	50.74	160.17	0.54
Reach 1	3	100 Year	51.75	217.3	219.13	217.53	219.13	0.00002	0.19	274.07	149.79	0.05
Reach 1	3	100 Year w C	62.61	217.3	219.13	217.56	219.13	0.000029	0.23	274.07	149.79	0.05
Reach 1	3	Hazel	60.69	217.3	219.13	217.56	219.13	0.000028	0.23	274.07	149.79	0.05
Reach 1	3	Hazel w CC	73.53	217.3	219.13	217.59	219.13	0.000041	0.27	274.07	149.79	0.06

Kidds Creek - Gauged Flow Scenarios

Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
			(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
Reach 1	3898	100 Year	31.38	271.92	273.54		273.8	0.022641	2.54	14.43	13.58	0.64
Reach 1	3898	Hazel	27.72	271.92	273.45		273.69	0.02272	2.44	13.2	13.17	0.64
Reach 1	3898	Hazel w CC	33.41	271.92	273.59		273.86	0.022521	2.58	15.1	13.75	0.65
Reach 1	3879	100 Year	31.38	271.55	273.42		273.56	0.00578	1.88	21.38	18.43	0.46
Reach 1	3879	Hazel	27.72	271.55	273.33		273.46	0.005778	1.81	19.61	18.03	0.46
Reach 1	3879	Hazel w CC	33.41	271.55	273.47		273.62	0.005789	1.92	22.34	18.68	0.47
Reach 1	3861	100 Year	31.38	271.25	273.2		273.42	0.011829	2	16.17	14.18	0.47
Reach 1	3861	Hazel	27.72	271.25	273.12		273.32	0.011122	1.89	15.09	13.66	0.46
Reach 1	3861	Hazel w CC	33.41	271.25	273.24		273.47	0.012192	2.06	16.76	14.47	0.48
Reach 1	3843	100 Year	31.38	271.16	273.09		273.24	0.006853	1.67	23.38	26.22	0.4
Reach 1	3843	Hazel	27.72	271.16	273		273.14	0.006912	1.63	21.16	25.25	0.4
Reach 1	3843	Hazel w CC	33.41	271.16	273.13		273.29	0.006807	1.7	24.61	26.72	0.4
Reach 1	3834	100 Year	31.58	271.11	272.73	272.73	273.13	0.018202	2.79	13.97	18.77	0.73
Reach 1	3834	Hazel	28.02	271.11	272.64	272.64	273.04	0.019172	2.74	12.35	17.43	0.74
Reach 1	3834	Hazel w CC	33.78	271.11	272.79	272.79	273.18	0.017512	2.8	15.02	19.44	0.72
Reach 1	3822	100 Year	31.58	270.92	272.79		272.88	0.00594	1.38	25.91	23.6	0.33
Reach 1	3822	Hazel	28.02	270.92	272.7		272.78	0.005789	1.32	23.87	22.46	0.33
Reach 1	3822	Hazel w CC	33.78	270.92	272.84		272.93	0.006041	1.42	27.11	24.22	0.34
Reach 1	3803	100 Year	31.58	270.73	272.56		272.73	0.010053	1.82	19.92	21.37	0.44
Reach 1	3803	Hazel	28.02	270.73	272.48		272.64	0.009603	1.73	18.34	19.9	0.42
Reach 1	3803	Hazel w CC	33.78	270.73	272.6		272.78	0.010375	1.88	20.86	22.42	0.45
Reach 1	3786	100 Year	31.58	270.57	272.07	272.07	272.43	0.033376	2.91	12.51	19.06	0.79
Reach 1	3786	Hazel	28.02	270.57	272	272	272.35	0.03326	2.81	11.25	17.9	0.78
Reach 1	3786	Hazel w CC	33.78	270.57	272.12	272.12	272.48	0.03282	2.95	13.4	19.95	0.78
Reach 1	3768	100 Year	31.58	270.3	271.99		272.1	0.005689	1.76	25.68	24.93	0.44
Reach 1	3768	Hazel	28.02	270.3	271.92		272.02	0.005529	1.68	23.91	24.59	0.43
Reach 1	3768	Hazel w CC	33.78	270.3	272.04		272.14	0.005782	1.8	26.74	25.14	0.45
Reach 1	3753	100 Year	31.58	270.1	271.85		271.99	0.00886	2.23	21.25	26.07	0.56
Reach 1	3753	Hazel	28.02	270.1	271.78		271.91	0.008763	2.15	19.41	25.42	0.55
Reach 1	3753	Hazel w CC	33.78	270.1	271.89		272.04	0.008904	2.27	22.35	26.43	0.56
Reach 1	3740	100 Year	31.58	270.02	271.72		271.85	0.01214	2.05	20.69	25.39	0.52
Reach 1	3740	Hazel	28.02	270.02	271.65		271.78	0.012018	1.98	18.96	24.38	0.51
Reach 1	3740	Hazel w CC	33.78	270.02	271.76		271.9	0.012173	2.09	21.76	25.98	0.52
Reach 1	3722	100 Year	31.58	269.9	271.49		271.64	0.011322	1.82	20.99	23.57	0.47
Reach 1	3722	Hazel	28.02	269.9	271.43		271.57	0.01072	1.73	19.72	23.33	0.46
Reach 1	3722	Hazel w CC	33.78	269.9	271.52		271.68	0.011598	1.87	21.79	23.72	0.48
Reach 1	3696	100 Year	31.58	269.49	270.99	270.99	271.32	0.012617	3.19	17.27	27.21	0.85
Reach 1	3696	Hazel	28.02	269.49	270.9	270.9	271.24	0.014006	3.21	14.75	24.76	0.88
Reach 1	3696	Hazel w CC	33.78	269.49	271.04	271.04	271.36	0.012393	3.22	18.41	27.64	0.84
Reach 1	3675	100 Year	31.58	269.19	270.6	270.47	270.77	0.013111	2.63	20.57	31.55	0.74
Reach 1	3675	Hazel	28.02	269.19	270.54	270.43	270.71	0.013017	2.55	18.84	30.89	0.73
Reach 1	3675	Hazel w CC	33.78	269.19	270.63	270.51	270.81	0.012896	2.66	21.8	32.2	0.74
Reach 1	3657	100 Year	31.58	268.93	270.22	270.18	270.46	0.023374	2.79	16.95	25.56	0.82
Reach 1	3657	Hazel	28.02	268.93	270.15	270.12	270.39	0.024886	2.76	15.16	24.7	0.83
Reach 1	3657	Hazel w CC	33.78	268.93	270.25	270.21	270.5	0.023918	2.87	17.66	25.79	0.83
Reach 1	3631	100 Year	31.58	268.5	269.88		270.08	0.009921	2.49	19.67	28.05	0.7
Reach 1	3631	Hazel	28.02	268.5	269.86		270.03	0.008341	2.26	19.18	27.79	0.64
Reach 1	3631	Hazel w CC	33.78	268.5	269.94		270.13	0.008807	2.43	21.6	29.04	0.67

Reach 1	3615	100 Year	30.84	268.13	269.52	269.5	269.81	0.026384	2.79	14.62	27.07	0.8
Reach 1	3615	Hazel	29.01	268.13	269.49	269.48	269.78	0.026572	2.75	13.88	25.68	0.8
Reach 1	3615	Hazel w CC	34.98	268.13	269.62	269.62	269.9	0.022839	2.72	17.39	30.3	0.75
Reach 1	3597	100 Year	30.84	267.71	269.28		269.48	0.012004	2.54	17.93	27.75	0.71
Reach 1	3597	Hazel	29.01	267.71	269.25	269.16	269.45	0.012064	2.51	17.09	27.27	0.71
Reach 1	3597	Hazel w CC	34.98	267.71	269.35		269.56	0.011518	2.58	20	28.76	0.7
Reach 1	3580	100 Year	30.84	267.49	268.98	268.98	269.29	0.009605	2.98	19.17	32.33	0.81
Reach 1	3580	Hazel	29.01	267.49	268.95	268.95	269.25	0.009661	2.94	18.12	31.68	0.81
Reach 1	3580	Hazel w CC	34.98	267.49	269.05	269.05	269.36	0.009554	3.07	21.45	33.94	0.82
Reach 1	3559	100 Year	30.84	267.28	268.6		268.74	0.015341	2.42	21.09	33.4	0.69
Reach 1	3559	Hazel	29.01	267.28	268.56		268.7	0.016128	2.43	19.86	33.09	0.71
Reach 1	3559	Hazel w CC	34.98	267.28	268.93		269	0.005534	1.7	32.53	35.75	0.43
Reach 1	3537	100 Year	30.84	266.68	268.38		268.48	0.008756	1.87	23.02	30.43	0.47
Reach 1	3537	Hazel	29.01	266.68	268.31		268.42	0.010249	1.96	20.88	29.64	0.51
Reach 1	3537	Hazel w CC	34.98	266.68	268.87		268.91	0.002422	1.18	38.9	34.33	0.26
Reach 1	3506	100 Year	30.84	266.17	268.25		268.31	0.003382	1.62	34.01	31.91	0.38
Reach 1	3506	Hazel	29.01	266.17	268.16		268.23	0.003718	1.64	31.3	30.92	0.39
Reach 1	3506	Hazel w CC	34.98	266.17	268.83		268.86	0.001187	1.15	54.34	37.67	0.23
Reach 1	3481	100 Year	30.84	265.92	268.2		268.26	0.001306	1.45	42.22	32.78	0.31
Reach 1	3481	Hazel	29.01	265.92	268.12		268.17	0.001384	1.45	39.36	31.95	0.32
Reach 1	3481	Hazel w CC	34.98	265.92	268.81		268.84	0.000579	1.13	63.59	38.19	0.21
Reach 1	3465	100 Year	30.84	265.57	268.21		268.24	0.000638	1.11	47.03	30.48	0.22
Reach 1	3465	Hazel	29.01	265.57	268.12		268.15	0.000657	1.1	44.37	29.83	0.22
Reach 1	3465	Hazel w CC	34.98	265.57	268.81		268.83	0.000347	0.94	67.09	37.02	0.17
Reach 1	3443	100 Year	30.84	265.1	268.21		268.23	0.000348	0.76	56.07	30.69	0.14
Reach 1	3443	Hazel	29.01	265.1	268.12		268.14	0.000352	0.75	53.38	30.23	0.14
Reach 1	3443	Hazel w CC	34.98	265.1	268.81		268.82	0.000201	0.65	75.89	34.94	0.11
Reach 1	3419	100 Year	32.06	264.73	268.2		268.21	0.00053	0.75	57.54	27.74	0.13
Reach 1	3419	Hazel	30.38	264.73	268.11		268.13	0.000536	0.74	55.1	27.36	0.13
Reach 1	3419	Hazel w CC	36.64	264.73	268.8		268.82	0.000336	0.67	75.28	30.89	0.11
Reach 1	3389	100 Year	32.06	264.22	268.19		268.2	0.000196	0.63	75.25	30.54	0.1
Reach 1	3389	Hazel	30.38	264.22	268.1		268.12	0.000194	0.62	72.56	30.23	0.1
Reach 1	3389	Hazel w CC	36.64	264.22	268.8		268.81	0.000141	0.59	94.69	33.88	0.09
Reach 1	3364	100 Year	32.06	263.75	268.19		268.2	0.00013	0.59	90.56	33.63	0.09
Reach 1	3364	Hazel	30.38	263.75	268.1		268.11	0.000127	0.58	87.61	33.14	0.09
Reach 1	3364	Hazel w CC	36.64	263.75	268.8		268.8	0.000095	0.56	112.15	36.81	0.08
Reach 1	3342	100 Year	32.06	263.43	268.19		268.2	0.000094	0.51	103.42	33.28	0.08
Reach 1	3342	Hazel	30.38	263.43	268.1		268.11	0.000092	0.5	100.48	33.11	0.07
Reach 1	3342	Hazel w CC	36.64	263.43	268.8		268.8	0.000073	0.49	124	34.63	0.07
Reach 1	3325	100 Year	32.06	263.15	268.19		268.19	0.000084	0.39	105.3	33.46	0.06
Reach 1	3325	Hazel	30.38	263.15	268.1		268.11	0.000081	0.38	102.35	33.19	0.05
Reach 1	3325	Hazel w CC	36.64	263.15	268.8		268.8	0.000067	0.37	125.98	34.77	0.05
Reach 1	3302	100 Year	39.51	262.92	266.11	266.11	267.71	0.030376	4.83	7.67	20.71	0.88
Reach 1	3302	Hazel	38.51	262.92	266.06	266.06	267.63	0.030656	4.8	7.54	20.43	0.88
Reach 1	3302	Hazel w CC	46.54	262.92	266.47	266.47	268.26	0.029064	5.09	8.57	22.12	0.87
Reach 1	Cundles Rd W		Culvert									
Reach 1	3207	100 Year	39.51	260.13	263.31	263.31	264.87	0.008327	5.54	7.13	69.07	1
Reach 1	3207	Hazel	38.51	260.13	263.25	263.25	264.79	0.008383	5.49	7.01	68.59	1
Reach 1	3207	Hazel w CC	46.54	260.13	263.66	263.66	265.41	0.008041	5.85	7.95	73.09	1.01
Reach 1	3177	100 Year	39.51	259.43	261.1	261.1	261.41	0.007058	2.74	22.37	44.24	0.72
Reach 1	3177	Hazel	38.51	259.43	261.09	261.09	261.4	0.007073	2.72	21.71	44.07	0.72
Reach 1	3177	Hazel w CC	46.54	259.43	261.19	261.19	261.51	0.007151	2.86	26.33	46.57	0.74

Reach 1	2489	100 Year	39.69	248.85	251.89		251.9	0.000064	0.43	159.42	73.11	0.08
Reach 1	2489	Hazel	41.37	248.85	251.96		251.97	0.000063	0.44	164.48	73.44	0.08
Reach 1	2489	Hazel w CC	50.07	248.85	252.11		252.12	0.000076	0.49	175.62	74.16	0.09
Reach 1	2438	100 Year	39.69	248.74	251.89		251.89	0.000084	0.49	132.41	66.04	0.09
Reach 1	2438	Hazel	41.37	248.74	251.96		251.96	0.000083	0.49	136.98	66.4	0.09
Reach 1	2438	Hazel w CC	50.07	248.74	252.11		252.11	0.000098	0.55	146.99	67.07	0.1
Reach 1	2406	100 Year	39.69	248.2	251.89		251.89	0.000039	0.3	192.14	86.65	0.05
Reach 1	2406	Hazel	41.37	248.2	251.96		251.96	0.000039	0.3	198.16	87.38	0.05
Reach 1	2406	Hazel w CC	50.07	248.2	252.11		252.11	0.000048	0.34	211.41	89.81	0.06
Reach 1	2387	100 Year	39.69	247.9	251.89		251.89	0.000022	0.32	259.21	107.75	0.05
Reach 1	2387	Hazel	41.37	247.9	251.96		251.96	0.000022	0.33	266.69	108.5	0.05
Reach 1	2387	Hazel w CC	50.07	247.9	252.11		252.11	0.000027	0.37	283.1	110.19	0.06
Reach 1	2374	100 Year	39.69	247.9	251.89		251.89	0.000012	0.24	373.39	177.86	0.04
Reach 1	2374	Hazel	41.37	247.9	251.96		251.96	0.000012	0.24	385.73	178.77	0.04
Reach 1	2374	Hazel w CC	50.07	247.9	252.11		252.11	0.000014	0.27	412.7	180.58	0.04
Reach 1	2358	100 Year	39.69	247.92	251.89		251.89	0.000009	0.15	427.79	195.38	0.02
Reach 1	2358	Hazel	41.37	247.92	251.96		251.96	0.000009	0.15	441.37	196.92	0.02
Reach 1	2358	Hazel w CC	50.07	247.92	252.11		252.11	0.000011	0.17	471.19	200.29	0.03
Reach 1	2303	100 Year	39.69	246.89	251.89		251.89	0.000005	0.17	510.1	178.41	0.02
Reach 1	2303	Hazel	41.37	246.89	251.96		251.96	0.000005	0.17	522.47	179.27	0.02
Reach 1	2303	Hazel w CC	50.07	246.89	252.11		252.11	0.000007	0.2	549.58	181.81	0.03
Reach 1	2242	100 Year	46.38	246.02	251.89		251.89	0.000005	0.15	550.75	159.34	0.02
Reach 1	2242	Hazel	48.83	246.02	251.96		251.96	0.000005	0.15	561.79	159.78	0.02
Reach 1	2242	Hazel w CC	59.13	246.02	252.11		252.11	0.000007	0.18	585.82	160.72	0.02
Reach 1	2203	100 Year	46.38	245.78	251.89		251.89	0.000004	0.14	572.99	153.16	0.02
Reach 1	2203	Hazel	48.83	245.78	251.96		251.96	0.000004	0.14	583.61	154.14	0.02
Reach 1	2203	Hazel w CC	59.13	245.78	252.11		252.11	0.000006	0.16	606.83	155.35	0.02
Reach 1	2170	100 Year	46.38	245.35	251.89		251.89	0.000003	0.13	647.18	153.5	0.02
Reach 1	2170	Hazel	48.83	245.35	251.96		251.96	0.000003	0.14	657.81	153.98	0.02
Reach 1	2170	Hazel w CC	59.13	245.35	252.11		252.11	0.000004	0.16	680.96	154.8	0.02
Reach 1	2113	100 Year	50.22	245.24	251.79	248.47	251.86	0.000827	1.64	99.37	235.54	0.29
Reach 1	2113	Hazel	54.47	245.24	251.88	248.63	251.94	0.000664	1.5	122.01	236.17	0.26
Reach 1	2113	Hazel w CC	65.99	245.24	252.06	249.07	252.1	0.000519	1.37	163.04	237.68	0.23
Reach 1	Reservoir Embank	Culvert										
Reach 1	2029	100 Year	50.22	242.98	251.76		251.86	0.00037	1.55	91.77	210.53	0.22
Reach 1	2029	Hazel	54.47	242.98	251.84		251.93	0.000361	1.55	108.36	210.78	0.22
Reach 1	2029	Hazel w CC	65.99	242.98	252		252.09	0.000358	1.57	142.96	211.51	0.22
Reach 1	2023	100 Year	50.22	242.94	251.81		251.81	0.000004	0.25	544.71	208.05	0.03
Reach 1	2023	Hazel	54.47	242.94	251.88		251.88	0.000005	0.26	560.39	208.53	0.03
Reach 1	2023	Hazel w CC	65.99	242.94	252.04		252.04	0.000006	0.3	593.64	209.73	0.03
Reach 1	2018	100 Year	50.22	242.87	251.8	245.96	251.81	0.000044	0.58	300.67	203.48	0.08
Reach 1	2018	Hazel	54.47	242.87	251.88	246.13	251.88	0.000046	0.6	316	204	0.08
Reach 1	2018	Hazel w CC	65.99	242.87	252.03	246.57	252.04	0.000052	0.65	348.44	205.05	0.09
Reach 1	Hwy 400	Culvert										
Reach 1	1930	100 Year	50.22	242.22	245.33	245.33	246.86	0.008411	5.49	9.14	104.45	1
Reach 1	1930	Hazel	54.47	242.22	245.5	245.5	247.12	0.008233	5.64	9.66	107.88	1
Reach 1	1930	Hazel w CC	65.99	242.22	245.93	245.93	247.78	0.00793	6.02	10.96	114.18	1.01
Reach 1	1845	100 Year	50.22	241.85	242.69		242.74	0.006214	1.53	50.04	87.01	0.57
Reach 1	1845	Hazel	54.47	241.85	242.71		242.77	0.006249	1.58	52.58	87.48	0.57
Reach 1	1845	Hazel w CC	65.99	241.85	242.81		242.87	0.005696	1.63	61.12	88.82	0.55
Reach 1	1754	100 Year	50.22	240.25	241.85	241.85	242.05	0.008942	2.85	41.64	86.78	0.73

Reach 1	1204	100 Year	49.41	230.52	232.06	232.06	232.25	0.006687	2.25	26.32	66.9	0.71
Reach 1	1204	Hazel	55.57	230.52	232.09	232.09	232.3	0.007058	2.35	28.17	69.4	0.74
Reach 1	1204	Hazel w CC	67.28	230.52	232.16	232.16	232.39	0.006773	2.4	33.15	74.75	0.73
Reach 1	Eccles St N @ So		Culvert									
Reach 1	1177	100 Year	49.41	230.04	231.7	231.7	231.87	0.007792	2.03	27.23	79.17	0.67
Reach 1	1177	Hazel	55.57	230.04	231.73	231.73	231.92	0.007702	2.06	29.66	83.77	0.67
Reach 1	1177	Hazel w CC	67.28	230.04	231.78	231.78	232	0.007341	2.09	34.66	91.32	0.66
Reach 1	1158	100 Year	49.41	229.69	231.29	231.29	231.52	0.004262	1.46	26.05	61.73	0.46
Reach 1	1158	Hazel	55.57	229.69	231.32	231.32	231.57	0.004271	1.49	28.34	62.12	0.46
Reach 1	1158	Hazel w CC	67.28	229.69	231.4	231.4	231.67	0.00403	1.52	33.15	64.46	0.46
Reach 1	1144	100 Year	49.41	229.45	230.67	230.67	230.84	0.009267	1.89	27.09	77.15	0.65
Reach 1	1144	Hazel	55.57	229.45	230.7	230.7	230.88	0.009291	1.94	29.3	78.08	0.65
Reach 1	1144	Hazel w CC	67.28	229.45	230.75	230.75	230.96	0.00923	2.01	33.36	78.66	0.66
Reach 1	1114	100 Year	49.67	228.97	230.21	230.16	230.38	0.013945	2.5	30.06	61.51	0.81
Reach 1	1114	Hazel	55.96	228.97	230.28	230.2	230.44	0.012067	2.43	34.46	65.76	0.76
Reach 1	1114	Hazel w CC	67.76	228.97	230.32	230.27	230.52	0.013765	2.67	37.64	66.66	0.81
Reach 1	1087	100 Year	49.67	228.16	229.74	229.74	229.96	0.016677	2.74	26.48	56.4	0.83
Reach 1	1087	Hazel	55.96	228.16	229.75	229.75	230.01	0.019234	2.97	27.48	57.45	0.89
Reach 1	1087	Hazel w CC	67.76	228.16	229.86	229.86	230.11	0.016202	2.9	33.87	60.48	0.83
Reach 1	1056	100 Year	49.67	227.65	229.14	229.14	229.38	0.011845	3.01	29.34	49.96	0.83
Reach 1	1056	Hazel	55.96	227.65	229.17	229.17	229.44	0.012896	3.19	31.13	51.09	0.87
Reach 1	1056	Hazel w CC	67.76	227.65	229.24	229.24	229.56	0.014543	3.51	35.15	62.25	0.93
Reach 1	1013	100 Year	49.67	226.81	228.84		228.92	0.002114	1.6	48.71	60.1	0.4
Reach 1	1013	Hazel	55.96	226.81	228.9		228.99	0.002204	1.67	52.73	60.62	0.41
Reach 1	1013	Hazel w CC	67.76	226.81	229.01		229.12	0.002375	1.8	59.45	61.49	0.42
Reach 1	993	100 Year	49.67	226.49	228.53	228.53	228.8	0.006482	2.93	32.13	51.37	0.74
Reach 1	993	Hazel	55.96	226.49	228.57	228.57	228.86	0.006911	3.08	34.41	56.73	0.76
Reach 1	993	Hazel w CC	67.76	226.49	228.67	228.67	228.98	0.007128	3.25	39.43	64.29	0.78
Reach 1	Donald St		Culvert									
Reach 1	953	100 Year	50.67	225.54	228.19	228.19	228.34	0.002828	2.32	39.13	110.23	0.47
Reach 1	953	Hazel	58.03	225.54	228.22	228.22	228.39	0.003118	2.46	42.59	110.33	0.49
Reach 1	953	Hazel w CC	70.3	225.54	228.27	228.27	228.45	0.003467	2.63	48.27	110.49	0.52
Reach 1	921	100 Year	50.67	224.89	227.48	226.52	227.49	0.000745	0.83	95.31	82.03	0.17
Reach 1	921	Hazel	58.03	224.89	227.59	226.63	227.61	0.00074	0.85	104.47	82.74	0.17
Reach 1	921	Hazel w CC	70.3	224.89	227.78	226.71	227.8	0.000709	0.87	120.45	89.25	0.17
Reach 1	875	100 Year	50.67	224.27	227.33	226.99	227.43	0.002378	1.76	39.02	45.24	0.33
Reach 1	875	Hazel	58.03	224.27	227.45	227.15	227.55	0.001991	1.65	44.61	45.42	0.3
Reach 1	875	Hazel w CC	70.3	224.27	227.65	227.22	227.74	0.001535	1.51	53.79	46.4	0.27
Reach 1	866	100 Year	50.67	224.21	226.89	226.89	227.36	0.007795	2.92	16.96	16.65	0.58
Reach 1	866	Hazel	58.03	224.21	227.01	227.01	227.48	0.00796	3.04	19.16	21.85	0.59
Reach 1	866	Hazel w CC	70.3	224.21	227.13	227.13	227.67	0.007811	3.1	21.89	23.28	0.59
Reach 1	848	100 Year	50.67	223.93	226.75		226.84	0.002092	1.81	42.45	40.6	0.35
Reach 1	848	Hazel	58.03	223.93	226.4		226.65	0.006675	2.95	30.37	31.8	0.61
Reach 1	848	Hazel w CC	70.3	223.93	226.71		226.9	0.00448	2.62	40.74	39.17	0.51
Reach 1	816	100 Year	50.67	223.12	225.47	225.47	226.44	0.015588	4.49	12	28.88	0.97
Reach 1	816	Hazel	58.03	223.12	226.31	226.15	226.49	0.002707	2.32	44.2	61.21	0.43
Reach 1	816	Hazel w CC	70.3	223.12	226.68	226.24	226.78	0.001349	1.78	69.25	72.55	0.31
Reach 1	Eccles St N		Culvert									
Reach 1	788	100 Year	50.84	222.94	224.98	224.98	226.01	0.004943	2.47	15.39	19.85	0.56
Reach 1	788	Hazel	58.66	222.94	225.19	225.19	226.32	0.004668	2.56	17.03	20.93	0.55
Reach 1	788	Hazel w CC	71.02	222.94	225.47	225.47	226.78	0.004479	2.71	19.29	33.32	0.55

Reach 1	762	100 Year	50.84	222.55	224.46	224.41	224.75	0.008895	2.93	22.61	30.89	0.7
Reach 1	762	Hazel	58.66	222.55	224.57	224.5	224.86	0.008122	2.91	25.87	31.52	0.67
Reach 1	762	Hazel w CC	71.02	222.55	224.71	224.61	225.01	0.007441	2.92	30.24	32.28	0.65
Reach 1	735	100 Year	50.84	222.44	224.04	224.04	224.42	0.016627	3.45	19.87	26.05	0.88
Reach 1	735	Hazel	58.66	222.44	224.12	224.12	224.53	0.017076	3.62	21.98	26.61	0.9
Reach 1	735	Hazel w CC	71.02	222.44	224.24	224.24	224.69	0.016916	3.79	25.46	27.29	0.91
Reach 1	707	100 Year	50.84	221.96	223.97		224.2	0.000864	2.56	24.91	21.51	0.59
Reach 1	707	Hazel	58.66	221.96	224.05		224.32	0.00095	2.76	26.71	22.09	0.62
Reach 1	707	Hazel w CC	71.02	221.96	224.27		224.54	0.00089	2.86	31.56	23.71	0.61
Reach 1	675	100 Year	50.84	221.75	223.83		224.15	0.001835	3.1	25.17	21.19	0.7
Reach 1	675	Hazel	58.66	221.75	223.81	223.65	224.25	0.002527	3.62	24.84	21.03	0.82
Reach 1	675	Hazel w CC	71.02	221.75	223.83	223.83	224.46	0.003556	4.32	25.24	21.23	0.97
Reach 1	641	100 Year	50.84	221.5	223.9		224.06	0.000889	1.66	29.83	25.43	0.35
Reach 1	641	Hazel	58.66	221.5	223.92		224.13	0.001127	1.88	30.36	25.64	0.4
Reach 1	641	Hazel w CC	71.02	221.5	223.92		224.23	0.00164	2.27	30.44	25.66	0.48
Reach 1	611	100 Year	50.84	221.24	223.92		224.02	0.000396	1.54	38.76	33.14	0.31
Reach 1	611	Hazel	58.66	221.24	223.95		224.08	0.000491	1.73	39.73	33.2	0.35
Reach 1	611	Hazel w CC	71.02	221.24	223.98		224.16	0.000675	2.04	40.64	33.25	0.41
Reach 1	581	100 Year	50.84	220.83	223.76	223.76	223.97	0.000961	2.77	34.47	78.99	0.64
Reach 1	581	Hazel	58.66	220.83	223.82	223.82	224.03	0.001012	2.87	38.95	84.49	0.66
Reach 1	581	Hazel w CC	71.02	220.83	223.87	223.87	224.11	0.001185	3.14	43.38	87.97	0.71
Reach 1	Dunlop St		Culvert									
Reach 1	503	100 Year	50.84	219.88	223.34	223.34	223.65	0.015054	2.51	21.15	39.48	1.02
Reach 1	503	Hazel	58.66	219.88	223.4	223.4	223.73	0.014165	2.6	23.73	41.27	1
Reach 1	503	Hazel w CC	71.02	219.88	223.49	223.49	223.86	0.013448	2.74	27.39	42.45	1
Reach 1	466	100 Year	50.84	219.34	222.04		222.16	0.00149	1.51	34.45	23.17	0.38
Reach 1	466	Hazel	58.66	219.34	222.07		222.22	0.001893	1.71	35.03	23.35	0.42
Reach 1	466	Hazel w CC	71.02	219.34	222.11		222.31	0.002571	2.02	36.01	23.63	0.5
Reach 1	429	100 Year	50.84	218.95	222.07	220.44	222.11	0.000358	0.94	53.9	27.72	0.21
Reach 1	429	Hazel	58.66	218.95	222.1	220.55	222.16	0.000459	1.07	54.8	28.6	0.24
Reach 1	429	Hazel w CC	71.02	218.95	222.15	220.7	222.23	0.000632	1.26	56.36	29.95	0.28
Reach 1	373	100 Year	29.84	221.54	222.01	221.97	222.09	0.008995	1.54	25.11	91.41	0.75
Reach 1	373	Hazel	34.42	221.54	222.06	221.99	222.13	0.007314	1.49	29.43	93.07	0.69
Reach 1	373	Hazel w CC	41.67	221.54	222.13	222.03	222.2	0.005584	1.43	36.3	95.6	0.62
Reach 1	328	100 Year	29.84	221.54	221.96	221.77	222	0.002427	0.7	38.4	100.24	0.38
Reach 1	328	Hazel	34.42	221.54	222.02	221.8	222.05	0.002105	0.72	44.02	101.33	0.36
Reach 1	328	Hazel w CC	41.67	221.54	222.1	221.83	222.14	0.001787	0.75	52.43	103.46	0.34
Reach 1	311	100 Year	51.6	220.84	221.68	221.68	221.88	0.009532	2.24	27.68	67.72	0.84
Reach 1	311	Hazel	60.23	220.84	221.74	221.74	221.95	0.009287	2.33	31.58	70.46	0.84
Reach 1	311	Hazel w CC	72.86	220.84	221.79	221.79	222.03	0.010033	2.53	35.53	71.98	0.89
Reach 1	280	100 Year	51.6	221.04	221.27	221.27	221.51	0.012375	0.61	24.93	61.11	0.67
Reach 1	280	Hazel	60.23	221.04	221.35	221.35	221.58	0.010436	0.81	30.1	66.88	0.68
Reach 1	280	Hazel w CC	72.86	221.04	221.42	221.42	221.67	0.010094	1.04	35.1	68.48	0.71
Reach 1	248	100 Year	51.6	220.53	220.85		220.91	0.001817	0.4	52.55	84.2	0.29
Reach 1	248	Hazel	60.23	220.53	220.9		220.96	0.001999	0.49	56.72	85.18	0.32
Reach 1	248	Hazel w CC	72.86	220.53	220.99		221.06	0.002042	0.61	64.29	86.97	0.34
Reach 1	217	100 Year	51.6	219.55	220.77	220.52	220.84	0.002781	1.46	47.36	78.99	0.47
Reach 1	217	Hazel	60.23	219.55	220.81	220.56	220.89	0.00312	1.58	50.34	79.3	0.51
Reach 1	217	Hazel w CC	72.86	219.55	220.9	220.62	220.98	0.003016	1.64	57.35	80.03	0.5
Reach 1	170	100 Year	51.6	219.9	220.41	220.41	220.6	0.016203	2.04	27.2	74.32	1
Reach 1	170	Hazel	60.23	219.9	220.52	220.44	220.67	0.009908	1.85	35.37	79.32	0.82

Reach 1	170	Hazel w CC	72.86	219.9	220.52	220.52	220.74	0.014119	2.22	35.67	79.42	0.97
Reach 1	116	100 Year	51.6	218.7	219.9	219.7	220.13	0.005402	2.25	25.19	41.49	0.68
Reach 1	116	Hazel	60.23	218.7	219.79	219.79	220.19	0.010631	2.97	22.12	26.59	0.94
Reach 1	116	Hazel w CC	72.86	218.7	220.11	220.11	220.33	0.004775	2.37	41.18	121.2	0.66
Reach 1	80	100 Year	51.75	218.68	219.94	219.49	219.99	0.001289	1.13	58.02	89.82	0.34
Reach 1	80	Hazel	60.69	218.68	219.83	219.56	219.92	0.00287	1.58	48.33	82.33	0.49
Reach 1	80	Hazel w CC	73.53	218.68	219.88	219.68	220	0.003232	1.74	53.06	87.29	0.53
Reach 1	39	100 Year	51.75	217.7	219.91	219.07	219.95	0.000563	1.04	88.29	188.47	0.23
Reach 1	39	Hazel	60.69	217.7	219.75	219.2	219.84	0.001385	1.55	58.5	149.64	0.36
Reach 1	39	Hazel w CC	73.53	217.7	219.77	219.35	219.89	0.001926	1.84	61.18	164.97	0.42
Reach 1	24	100 Year	51.75	217.24	219.91	219.03	219.94	0.000585	0.97	91.41	150.64	0.24
Reach 1	24	Hazel	60.69	217.24	219.61	219.61	219.8	0.004048	2.24	47.16	143.56	0.61
Reach 1	24	Hazel w CC	73.53	217.24	219.72	219.68	219.86	0.003123	2.07	63.03	147.65	0.54
Reach 1	Pedestrian Bridg		Culvert									
Reach 1	9	100 Year	51.75	217.24	219.04	219.04	219.93	0.034565	4.18	12.38	19.62	1
Reach 1	9	Hazel	60.69	217.24	219.52	219.52	219.63	0.011832	1.72	45.78	159.95	0.52
Reach 1	9	Hazel w CC	73.53	217.24	219.55	219.55	219.68	0.01276	1.82	50.74	160.17	0.54
Reach 1	3	100 Year	51.75	217.3	219.13	217.53	219.13	0.00002	0.19	274.07	149.79	0.05
Reach 1	3	Hazel	60.69	217.3	219.13	217.56	219.13	0.000028	0.23	274.07	149.79	0.05
Reach 1	3	Hazel w CC	73.53	217.3	219.13	217.59	219.13	0.000041	0.27	274.07	149.79	0.06

Kidds Creek - Calibration +25% Mannings

Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
			(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
Reach 1	3898	100 Year	31.38	271.92	273.72		273.9	0.022538	2.17	16.88	14.2	0.52
Reach 1	3898	Hazel	27.72	271.92	273.62		273.79	0.022523	2.09	15.49	13.85	0.52
Reach 1	3898	Hazel w CC	33.41	271.92	273.77		273.97	0.022344	2.21	17.69	14.4	0.52
Reach 1	3879	100 Year	31.38	271.55	273.55		273.66	0.006709	1.7	23.76	19.04	0.4
Reach 1	3879	Hazel	27.72	271.55	273.45		273.55	0.006616	1.63	21.87	18.56	0.4
Reach 1	3879	Hazel w CC	33.41	271.55	273.61		273.73	0.006655	1.73	24.91	19.32	0.4
Reach 1	3861	100 Year	31.38	271.25	273.31		273.5	0.014334	1.84	17.85	16.58	0.42
Reach 1	3861	Hazel	27.72	271.25	273.23		273.39	0.013521	1.73	16.57	14.38	0.41
Reach 1	3861	Hazel w CC	33.41	271.25	273.36		273.56	0.01509	1.91	18.66	20.41	0.43
Reach 1	3843	100 Year	31.38	271.16	273.14		273.27	0.00926	1.59	24.75	26.78	0.37
Reach 1	3843	Hazel	27.72	271.16	273.05		273.18	0.009298	1.54	22.44	25.82	0.37
Reach 1	3843	Hazel w CC	33.41	271.16	273.19		273.33	0.009149	1.6	26.1	27.32	0.37
Reach 1	3834	100 Year	31.58	271.11	272.91		273.16	0.016683	2.3	17.45	20.79	0.57
Reach 1	3834	Hazel	28.02	271.11	272.82		273.07	0.01709	2.24	15.64	19.76	0.57
Reach 1	3834	Hazel w CC	33.78	271.11	272.96		273.22	0.016515	2.33	18.49	21.12	0.57
Reach 1	3822	100 Year	31.58	270.92	272.89		272.97	0.007286	1.27	28.42	24.85	0.3
Reach 1	3822	Hazel	28.02	270.92	272.8		272.87	0.007057	1.21	26.27	23.8	0.29
Reach 1	3822	Hazel w CC	33.78	270.92	272.94		273.02	0.007414	1.31	29.64	25.27	0.3
Reach 1	3803	100 Year	31.58	270.73	272.64		272.78	0.012749	1.69	21.8	23.16	0.4
Reach 1	3803	Hazel	28.02	270.73	272.56		272.7	0.012215	1.61	20.04	21.5	0.39
Reach 1	3803	Hazel w CC	33.78	270.73	272.68		272.83	0.012953	1.73	22.87	23.84	0.4
Reach 1	3786	100 Year	31.58	270.57	272.24		272.46	0.029636	2.37	16.04	22.04	0.6
Reach 1	3786	Hazel	28.02	270.57	272.16		272.38	0.030779	2.33	14.24	20.74	0.61
Reach 1	3786	Hazel w CC	33.78	270.57	272.29		272.51	0.028804	2.39	17.17	22.66	0.6
Reach 1	3768	100 Year	31.58	270.3	272.12		272.2	0.006292	1.56	28.9	25.62	0.38
Reach 1	3768	Hazel	28.02	270.3	272.04		272.12	0.006094	1.48	26.93	25.18	0.37
Reach 1	3768	Hazel w CC	33.78	270.3	272.17		272.25	0.00639	1.6	30.12	25.95	0.38
Reach 1	3753	100 Year	31.58	270.1	271.99		272.09	0.00916	1.91	24.92	26.99	0.46
Reach 1	3753	Hazel	28.02	270.1	271.91		272.01	0.009004	1.84	22.89	26.55	0.45
Reach 1	3753	Hazel w CC	33.78	270.1	272.03		272.14	0.009198	1.95	26.17	27.23	0.46
Reach 1	3740	100 Year	31.58	270.02	271.85		271.95	0.012607	1.76	24.14	26.91	0.43
Reach 1	3740	Hazel	28.02	270.02	271.78		271.87	0.012437	1.7	22.19	26.15	0.42
Reach 1	3740	Hazel w CC	33.78	270.02	271.9		272	0.012567	1.79	25.4	27.28	0.43
Reach 1	3722	100 Year	31.58	269.9	271.61		271.72	0.012183	1.59	23.81	24.09	0.4
Reach 1	3722	Hazel	28.02	269.9	271.55		271.65	0.011513	1.5	22.39	23.83	0.38
Reach 1	3722	Hazel w CC	33.78	269.9	271.65		271.77	0.012237	1.62	24.88	24.28	0.4
Reach 1	3696	100 Year	31.58	269.49	271.01	271.01	271.32	0.019009	3.14	17.55	27.33	0.83
Reach 1	3696	Hazel	28.02	269.49	270.91	270.91	271.24	0.021122	3.16	14.99	24.96	0.87
Reach 1	3696	Hazel w CC	33.78	269.49	271.03	271.03	271.36	0.019557	3.23	18.34	27.62	0.85
Reach 1	3675	100 Year	31.58	269.19	270.71		270.83	0.013319	2.24	24.28	33.41	0.61
Reach 1	3675	Hazel	28.02	269.19	270.64		270.76	0.013813	2.2	21.84	32.22	0.61
Reach 1	3675	Hazel w CC	33.78	269.19	270.75		270.88	0.013219	2.28	25.59	34.04	0.61
Reach 1	3657	100 Year	31.58	268.93	270.36		270.53	0.023096	2.39	20.58	29.04	0.66
Reach 1	3657	Hazel	28.02	268.93	270.29		270.45	0.022882	2.29	18.6	26.86	0.65
Reach 1	3657	Hazel w CC	33.78	268.93	270.39		270.57	0.023472	2.45	21.56	29.72	0.67
Reach 1	3631	100 Year	31.58	268.5	269.96		270.11	0.011522	2.23	21.95	29.15	0.61
Reach 1	3631	Hazel	28.02	268.5	269.93		270.07	0.009956	2.05	21.23	28.88	0.56
Reach 1	3631	Hazel w CC	33.78	268.5	270.03		270.17	0.010252	2.18	24	29.81	0.58

Reach 1	3615	100 Year	30.84	268.13	269.65		269.84	0.024012	2.27	18.39	30.74	0.62
Reach 1	3615	Hazel	29.01	268.13	269.62		269.81	0.024335	2.25	17.46	30.36	0.62
Reach 1	3615	Hazel w CC	34.98	268.13	269.72		269.92	0.023593	2.32	20.51	32.54	0.62
Reach 1	3597	100 Year	30.84	267.71	269.39		269.53	0.0122	2.16	21.03	29.15	0.58
Reach 1	3597	Hazel	29.01	267.71	269.36		269.5	0.012265	2.13	20.08	28.79	0.58
Reach 1	3597	Hazel w CC	34.98	267.71	269.46		269.61	0.012249	2.23	23.08	30.26	0.58
Reach 1	3580	100 Year	30.84	267.49	268.99	268.99	269.29	0.014565	2.94	19.44	32.49	0.8
Reach 1	3580	Hazel	29.01	267.49	268.96	268.96	269.25	0.014502	2.89	18.46	31.89	0.8
Reach 1	3580	Hazel w CC	34.98	267.49	269.06	269.06	269.36	0.01454	3.04	21.71	34.08	0.81
Reach 1	3559	100 Year	30.84	267.28	268.72		268.81	0.014263	1.99	25.24	34.39	0.54
Reach 1	3559	Hazel	29.01	267.28	268.68		268.77	0.015011	1.99	23.78	34.07	0.55
Reach 1	3559	Hazel w CC	34.98	267.28	269.01		269.06	0.006717	1.55	35.4	36.2	0.38
Reach 1	3537	100 Year	30.84	266.68	268.49		268.56	0.009271	1.61	26.36	31.4	0.39
Reach 1	3537	Hazel	29.01	266.68	268.42		268.5	0.0104	1.66	24.28	30.89	0.41
Reach 1	3537	Hazel w CC	34.98	266.68	268.92		268.96	0.003323	1.12	40.67	34.71	0.24
Reach 1	3506	100 Year	30.84	266.17	268.3		268.36	0.004609	1.54	35.86	32.68	0.35
Reach 1	3506	Hazel	29.01	266.17	268.22		268.28	0.004975	1.55	33.15	31.42	0.36
Reach 1	3506	Hazel w CC	34.98	266.17	268.86		268.89	0.00176	1.12	55.37	37.98	0.23
Reach 1	3481	100 Year	30.84	265.92	268.24		268.29	0.001911	1.42	43.32	33.07	0.3
Reach 1	3481	Hazel	29.01	265.92	268.15		268.2	0.002021	1.42	40.43	32.29	0.31
Reach 1	3481	Hazel w CC	34.98	265.92	268.82		268.86	0.000881	1.12	64.23	38.33	0.21
Reach 1	3465	100 Year	30.84	265.57	268.23		268.26	0.000957	1.09	47.8	30.66	0.22
Reach 1	3465	Hazel	29.01	265.57	268.14		268.17	0.000985	1.09	45.11	30.03	0.22
Reach 1	3465	Hazel w CC	34.98	265.57	268.82		268.84	0.000533	0.93	67.56	37.13	0.17
Reach 1	3443	100 Year	30.84	265.1	268.23		268.24	0.000529	0.75	56.67	30.8	0.14
Reach 1	3443	Hazel	29.01	265.1	268.14		268.16	0.000534	0.74	53.97	30.33	0.14
Reach 1	3443	Hazel w CC	34.98	265.1	268.82		268.83	0.000311	0.65	76.22	34.99	0.11
Reach 1	3419	100 Year	32.06	264.73	268.21		268.23	0.000813	0.74	57.93	27.81	0.13
Reach 1	3419	Hazel	30.38	264.73	268.12		268.14	0.000822	0.73	55.48	27.42	0.13
Reach 1	3419	Hazel w CC	36.64	264.73	268.81		268.82	0.000522	0.67	75.46	30.92	0.11
Reach 1	3389	100 Year	32.06	264.22	268.2		268.21	0.000304	0.63	75.53	30.57	0.1
Reach 1	3389	Hazel	30.38	264.22	268.11		268.12	0.000301	0.62	72.83	30.26	0.1
Reach 1	3389	Hazel w CC	36.64	264.22	268.8		268.81	0.00022	0.59	94.78	33.9	0.09
Reach 1	3364	100 Year	32.06	263.75	268.2		268.21	0.000202	0.59	90.79	33.67	0.09
Reach 1	3364	Hazel	30.38	263.75	268.11		268.12	0.000198	0.58	87.83	33.17	0.09
Reach 1	3364	Hazel w CC	36.64	263.75	268.8		268.8	0.000149	0.56	112.18	36.81	0.08
Reach 1	3342	100 Year	32.06	263.43	268.19		268.2	0.000147	0.51	103.6	33.29	0.08
Reach 1	3342	Hazel	30.38	263.43	268.11		268.11	0.000143	0.5	100.65	33.12	0.07
Reach 1	3342	Hazel w CC	36.64	263.43	268.8		268.8	0.000115	0.49	123.99	34.63	0.07
Reach 1	3325	100 Year	32.06	263.15	268.19		268.2	0.00013	0.39	105.45	33.48	0.06
Reach 1	3325	Hazel	30.38	263.15	268.1		268.11	0.000126	0.38	102.49	33.2	0.05
Reach 1	3325	Hazel w CC	36.64	263.15	268.79		268.8	0.000104	0.37	125.95	34.77	0.05
Reach 1	3302	100 Year	39.51	262.92	266.11	266.11	267.71	0.047713	4.84	7.66	20.68	0.88
Reach 1	3302	Hazel	38.51	262.92	266.05	266.05	267.63	0.048085	4.8	7.53	20.41	0.88
Reach 1	3302	Hazel w CC	46.54	262.92	266.48	266.48	268.26	0.044983	5.07	8.6	22.15	0.87
Reach 1	Cundles Rd W		Culvert									
Reach 1	3207	100 Year	39.51	260.13	263.31	263.31	264.87	0.013041	5.54	7.13	69.07	1
Reach 1	3207	Hazel	38.51	260.13	263.25	263.25	264.79	0.013128	5.49	7.01	68.59	1
Reach 1	3207	Hazel w CC	46.54	260.13	263.67	263.67	265.41	0.012504	5.84	7.97	73.16	1
Reach 1	3177	100 Year	39.51	259.43	261.11	261.11	261.41	0.010802	2.72	22.64	44.31	0.72
Reach 1	3177	Hazel	38.51	259.43	261.09	261.09	261.4	0.010835	2.7	21.98	44.14	0.72
Reach 1	3177	Hazel w CC	46.54	259.43	261.2	261.2	261.51	0.010985	2.84	26.59	46.68	0.73

Reach 1	2489	100 Year	39.69	248.85	251.9		251.91	0.000099	0.43	160.17	73.16	0.08
Reach 1	2489	Hazel	41.37	248.85	251.96		251.97	0.000099	0.44	164.42	73.44	0.08
Reach 1	2489	Hazel w CC	50.07	248.85	252.13		252.13	0.000117	0.49	176.51	74.21	0.09
Reach 1	2438	100 Year	39.69	248.74	251.9		251.9	0.00013	0.49	132.95	66.08	0.09
Reach 1	2438	Hazel	41.37	248.74	251.95		251.96	0.00013	0.49	136.79	66.38	0.09
Reach 1	2438	Hazel w CC	50.07	248.74	252.12		252.12	0.000152	0.55	147.63	67.11	0.1
Reach 1	2406	100 Year	39.69	248.2	251.9		251.9	0.000061	0.3	192.77	86.74	0.05
Reach 1	2406	Hazel	41.37	248.2	251.95		251.96	0.000061	0.3	197.82	87.35	0.05
Reach 1	2406	Hazel w CC	50.07	248.2	252.12		252.12	0.000074	0.34	212.16	90.04	0.06
Reach 1	2387	100 Year	39.69	247.9	251.9		251.9	0.000035	0.32	259.95	107.82	0.05
Reach 1	2387	Hazel	41.37	247.9	251.95		251.96	0.000035	0.33	266.23	108.45	0.05
Reach 1	2387	Hazel w CC	50.07	247.9	252.12		252.12	0.000042	0.37	283.99	110.24	0.06
Reach 1	2374	100 Year	39.69	247.9	251.9		251.9	0.000019	0.24	374.6	177.95	0.04
Reach 1	2374	Hazel	41.37	247.9	251.95		251.95	0.000019	0.24	384.95	178.72	0.04
Reach 1	2374	Hazel w CC	50.07	247.9	252.12		252.12	0.000022	0.27	414.12	180.67	0.04
Reach 1	2358	100 Year	39.69	247.92	251.9		251.9	0.000014	0.15	429.11	195.53	0.02
Reach 1	2358	Hazel	41.37	247.92	251.95		251.95	0.000014	0.15	440.49	196.82	0.02
Reach 1	2358	Hazel w CC	50.07	247.92	252.12		252.12	0.000017	0.17	472.74	200.47	0.03
Reach 1	2303	100 Year	39.69	246.89	251.9		251.9	0.000008	0.17	511.26	178.5	0.02
Reach 1	2303	Hazel	41.37	246.89	251.95		251.95	0.000008	0.17	521.64	179.22	0.02
Reach 1	2303	Hazel w CC	50.07	246.89	252.12		252.12	0.00001	0.19	550.94	181.9	0.03
Reach 1	2242	100 Year	46.38	246.02	251.89		251.89	0.000008	0.15	551.76	159.38	0.02
Reach 1	2242	Hazel	48.83	246.02	251.95		251.95	0.000008	0.15	561.02	159.75	0.02
Reach 1	2242	Hazel w CC	59.13	246.02	252.11		252.12	0.000011	0.18	586.98	160.76	0.02
Reach 1	2203	100 Year	46.38	245.78	251.89		251.89	0.000007	0.14	573.94	153.26	0.02
Reach 1	2203	Hazel	48.83	245.78	251.95		251.95	0.000007	0.14	582.85	154.09	0.02
Reach 1	2203	Hazel w CC	59.13	245.78	252.11		252.11	0.000009	0.16	607.93	155.4	0.02
Reach 1	2170	100 Year	46.38	245.35	251.89		251.89	0.000004	0.13	648.13	153.55	0.02
Reach 1	2170	Hazel	48.83	245.35	251.95		251.95	0.000004	0.14	657.04	153.94	0.02
Reach 1	2170	Hazel w CC	59.13	245.35	252.11		252.11	0.000006	0.16	682.05	154.84	0.02
Reach 1	2113	100 Year	50.22	245.24	251.8	248.47	251.87	0.001235	1.61	102.11	235.62	0.28
Reach 1	2113	Hazel	54.47	245.24	251.87	248.65	251.93	0.001074	1.52	120.04	236.12	0.26
Reach 1	2113	Hazel w CC	65.99	245.24	252.06	249.08	252.1	0.000789	1.35	164.99	237.75	0.23
Reach 1	Reservoir Embank		Culvert									
Reach 1	2029	100 Year	50.22	242.98	251.75		251.86	0.000584	1.55	91.12	210.52	0.22
Reach 1	2029	Hazel	54.47	242.98	251.83		251.93	0.000573	1.55	107.27	210.77	0.22
Reach 1	2029	Hazel w CC	65.99	242.98	252.01		252.1	0.000543	1.55	145.74	211.56	0.22
Reach 1	2023	100 Year	50.22	242.94	251.8		251.81	0.000006	0.25	544.15	208.03	0.03
Reach 1	2023	Hazel	54.47	242.94	251.88		251.88	0.000007	0.26	559.45	208.5	0.03
Reach 1	2023	Hazel w CC	65.99	242.94	252.05		252.05	0.000009	0.3	596.04	209.82	0.03
Reach 1	2018	100 Year	50.22	242.87	251.8	245.97	251.8	0.00007	0.58	300.1	203.46	0.08
Reach 1	2018	Hazel	54.47	242.87	251.87	246.13	251.88	0.000072	0.6	315.07	203.97	0.08
Reach 1	2018	Hazel w CC	65.99	242.87	252.05	246.58	252.05	0.000079	0.64	350.82	205.13	0.09
Reach 1	Hwy 400		Culvert									
Reach 1	1930	100 Year	50.22	242.22	245.33	245.33	246.86	0.013172	5.49	9.14	104.45	1
Reach 1	1930	Hazel	54.47	242.22	245.5	245.5	247.12	0.012931	5.64	9.65	107.86	1
Reach 1	1930	Hazel w CC	65.99	242.22	245.95	245.95	247.78	0.012284	6	11	114.26	1
Reach 1	1845	100 Year	50.22	241.85	242.8		242.83	0.005568	1.27	59.66	88.45	0.44
Reach 1	1845	Hazel	54.47	241.85	242.83		242.87	0.005652	1.31	62.53	89.14	0.44
Reach 1	1845	Hazel w CC	65.99	241.85	242.93		242.97	0.00546	1.38	71.37	90.3	0.44
Reach 1	1754	100 Year	50.22	240.25	241.85	241.85	242.05	0.014101	2.86	41.5	86.76	0.74

Reach 1	1204	100 Year	49.41	230.52	232.05	232.05	232.25	0.01094	2.29	25.91	66.37	0.73
Reach 1	1204	Hazel	55.57	230.52	232.09	232.09	232.3	0.010902	2.34	28.33	70.4	0.73
Reach 1	1204	Hazel w CC	67.28	230.52	232.15	232.15	232.39	0.010846	2.42	32.89	74.6	0.74
Reach 1	Eccles St N @ So		Culvert									
Reach 1	1177	100 Year	49.41	230.04	231.69	231.69	231.87	0.012504	2.05	27.02	78.91	0.68
Reach 1	1177	Hazel	55.57	230.04	231.73	231.73	231.92	0.012082	2.07	29.66	83.77	0.67
Reach 1	1177	Hazel w CC	67.28	230.04	231.79	231.79	232	0.011333	2.08	34.86	91.33	0.66
Reach 1	1158	100 Year	49.41	229.69	231.28	231.28	231.52	0.006826	1.47	25.86	61.7	0.47
Reach 1	1158	Hazel	55.57	229.69	231.32	231.32	231.57	0.006746	1.5	28.27	62.1	0.47
Reach 1	1158	Hazel w CC	67.28	229.69	231.4	231.4	231.67	0.00642	1.53	32.98	64.38	0.46
Reach 1	1144	100 Year	49.41	229.45	230.67	230.67	230.84	0.014406	1.89	27.17	77.2	0.65
Reach 1	1144	Hazel	55.57	229.45	230.71	230.7	230.88	0.013447	1.88	30.1	78.19	0.63
Reach 1	1144	Hazel w CC	67.28	229.45	230.77	230.75	230.96	0.012462	1.89	35.08	79.85	0.61
Reach 1	1114	100 Year	49.67	228.97	230.3	230.16	230.41	0.01331	2.06	35.85	66.15	0.64
Reach 1	1114	Hazel	55.96	228.97	230.33	230.2	230.46	0.013946	2.16	38.34	66.85	0.66
Reach 1	1114	Hazel w CC	67.76	228.97	230.41	230.27	230.55	0.014239	2.27	43.45	68.41	0.67
Reach 1	1087	100 Year	49.67	228.16	229.8	229.73	229.97	0.019785	2.46	29.85	58.78	0.73
Reach 1	1087	Hazel	55.96	228.16	229.85	229.75	230.03	0.018134	2.44	33.34	60.29	0.7
Reach 1	1087	Hazel w CC	67.76	228.16	229.94	229.86	230.12	0.017371	2.49	38.51	64.24	0.69
Reach 1	1056	100 Year	49.67	227.65	229.14	229.14	229.38	0.018538	3.01	29.34	49.96	0.83
Reach 1	1056	Hazel	55.96	227.65	229.18	229.18	229.44	0.019687	3.16	31.42	51.23	0.86
Reach 1	1056	Hazel w CC	67.76	227.65	229.32	229.32	229.58	0.018098	3.24	40.14	67.69	0.84
Reach 1	1013	100 Year	49.67	226.81	228.88		228.95	0.002918	1.52	51.25	60.46	0.37
Reach 1	1013	Hazel	55.96	226.81	228.95		229.03	0.003033	1.59	55.46	60.92	0.38
Reach 1	1013	Hazel w CC	67.76	226.81	229.06		229.16	0.003249	1.71	62.6	63.58	0.4
Reach 1	993	100 Year	49.67	226.49	228.53	228.53	228.8	0.010264	2.94	31.99	51.03	0.74
Reach 1	993	Hazel	55.96	226.49	228.58	228.58	228.86	0.010783	3.07	34.45	56.78	0.76
Reach 1	993	Hazel w CC	67.76	226.49	228.67	228.67	228.98	0.011338	3.27	39.19	63.97	0.79
Reach 1	Donald St		Culvert									
Reach 1	953	100 Year	50.67	225.54	228.18	228.18	228.34	0.004483	2.33	38.9	110.23	0.47
Reach 1	953	Hazel	58.03	225.54	228.22	228.22	228.39	0.0048	2.44	42.94	110.34	0.49
Reach 1	953	Hazel w CC	70.3	225.54	228.27	228.27	228.45	0.00528	2.59	48.86	110.52	0.51
Reach 1	921	100 Year	50.67	224.89	227.51	226.52	227.53	0.001058	0.8	98.39	82.27	0.16
Reach 1	921	Hazel	58.03	224.89	227.63	226.63	227.64	0.001051	0.82	107.83	83.04	0.16
Reach 1	921	Hazel w CC	70.3	224.89	227.81	226.71	227.83	0.001028	0.85	123.66	90.16	0.16
Reach 1	875	100 Year	50.67	224.27	227.35	226.99	227.44	0.003503	1.71	39.75	45.27	0.32
Reach 1	875	Hazel	58.03	224.27	227.47	227.15	227.56	0.002905	1.6	45.55	45.49	0.29
Reach 1	875	Hazel w CC	70.3	224.27	227.67	227.22	227.75	0.002299	1.49	54.5	46.5	0.26
Reach 1	866	100 Year	50.67	224.21	226.89	226.89	227.35	0.012465	2.96	17	16.8	0.59
Reach 1	866	Hazel	58.03	224.21	227.01	227.01	227.48	0.012184	3.01	19.31	22.15	0.58
Reach 1	866	Hazel w CC	70.3	224.21	227.13	227.13	227.67	0.012041	3.08	22.01	23.33	0.59
Reach 1	848	100 Year	50.67	223.93	226.83		226.9	0.002725	1.68	45.54	42.77	0.32
Reach 1	848	Hazel	58.03	223.93	226.48		226.69	0.008492	2.71	32.81	32.47	0.56
Reach 1	848	Hazel w CC	70.3	223.93	226.75		226.93	0.006272	2.51	42.53	40.66	0.49
Reach 1	816	100 Year	50.67	223.12	225.46	225.46	226.43	0.024859	4.51	11.93	28.71	0.98
Reach 1	816	Hazel	58.03	223.12	226.3	226.14	226.48	0.00432	2.34	43.82	61	0.43
Reach 1	816	Hazel w CC	70.3	223.12	226.68	226.24	226.78	0.002122	1.78	69.13	72.52	0.31
Reach 1	Eccles St N		Culvert									
Reach 1	788	100 Year	50.84	222.94	224.99	224.99	226.01	0.00768	2.46	15.43	19.87	0.56
Reach 1	788	Hazel	58.66	222.94	225.19	225.19	226.32	0.007251	2.55	17.07	20.97	0.55
Reach 1	788	Hazel w CC	71.02	222.94	225.48	225.48	226.77	0.006963	2.71	19.34	33.4	0.55

Reach 1	762	100 Year	50.84	222.55	224.62	224.42	224.81	0.008106	2.36	27.35	31.78	0.54
Reach 1	762	Hazel	58.66	222.55	224.71	224.49	224.91	0.007845	2.4	30.37	32.3	0.54
Reach 1	762	Hazel w CC	71.02	222.55	224.83	224.59	225.06	0.007904	2.5	34.21	33.02	0.54
Reach 1	735	100 Year	50.84	222.44	224.03	224.03	224.42	0.026301	3.47	19.78	26.02	0.89
Reach 1	735	Hazel	58.66	222.44	224.12	224.12	224.53	0.026264	3.6	22.13	26.64	0.9
Reach 1	735	Hazel w CC	71.02	222.44	224.31	224.24	224.7	0.02222	3.55	27.16	27.61	0.84
Reach 1	707	100 Year	50.84	221.96	224.04		224.24	0.001161	2.42	26.37	21.98	0.55
Reach 1	707	Hazel	58.66	221.96	224.12		224.36	0.001287	2.62	28.21	22.58	0.58
Reach 1	707	Hazel w CC	71.02	221.96	224.3		224.56	0.001297	2.78	32.47	24.03	0.59
Reach 1	675	100 Year	50.84	221.75	223.89		224.18	0.002542	2.97	26.43	21.81	0.66
Reach 1	675	Hazel	58.66	221.75	223.89		224.28	0.003338	3.41	26.57	21.88	0.76
Reach 1	675	Hazel w CC	71.02	221.75	223.85	223.83	224.46	0.005319	4.25	25.72	21.46	0.95
Reach 1	641	100 Year	50.84	221.5	223.92		224.08	0.001316	1.62	30.46	25.66	0.34
Reach 1	641	Hazel	58.66	221.5	223.94		224.14	0.001653	1.83	31.1	25.76	0.39
Reach 1	641	Hazel w CC	71.02	221.5	223.96		224.25	0.002337	2.19	31.51	25.83	0.46
Reach 1	611	100 Year	50.84	221.24	223.93		224.03	0.000601	1.52	39.23	33.17	0.31
Reach 1	611	Hazel	58.66	221.24	223.96		224.09	0.000744	1.7	40.23	33.23	0.34
Reach 1	611	Hazel w CC	71.02	221.24	223.99		224.17	0.001023	2.01	41.15	33.28	0.4
Reach 1	581	100 Year	50.84	220.83	223.76	223.76	223.97	0.001527	2.79	34.24	78.4	0.65
Reach 1	581	Hazel	58.66	220.83	223.82	223.82	224.03	0.001603	2.89	38.78	84.27	0.66
Reach 1	581	Hazel w CC	71.02	220.83	223.88	223.88	224.11	0.001788	3.08	44.14	88.29	0.69
Reach 1	Dunlop St		Culvert									
Reach 1	503	100 Year	50.84	219.88	223.35	223.35	223.65	0.022494	2.47	21.47	39.62	1
Reach 1	503	Hazel	58.66	219.88	223.41	223.41	223.73	0.021332	2.56	24.04	41.41	0.99
Reach 1	503	Hazel w CC	71.02	219.88	223.5	223.5	223.86	0.020525	2.72	27.63	42.5	0.99
Reach 1	466	100 Year	50.84	219.34	222.1		222.2	0.002122	1.46	35.65	23.53	0.36
Reach 1	466	Hazel	58.66	219.34	222.13		222.27	0.002634	1.64	36.56	23.79	0.4
Reach 1	466	Hazel w CC	71.02	219.34	222.2		222.38	0.003416	1.9	38.2	24.22	0.46
Reach 1	429	100 Year	50.84	218.95	222.1	220.45	222.15	0.000538	0.93	54.91	28.71	0.21
Reach 1	429	Hazel	58.66	218.95	222.14	220.55	222.2	0.000683	1.05	56.09	29.74	0.24
Reach 1	429	Hazel w CC	71.02	218.95	222.21	220.7	222.29	0.001016	1.22	58.26	34.85	0.28
Reach 1	373	100 Year	29.84	221.54	222.06	221.97	222.12	0.007959	1.26	30.17	93.15	0.58
Reach 1	373	Hazel	34.42	221.54	222.11	221.99	222.17	0.0069	1.25	34.65	95.03	0.55
Reach 1	373	Hazel w CC	41.67	221.54	222.18	222.03	222.24	0.005823	1.24	41.39	97.53	0.51
Reach 1	328	100 Year	29.84	221.54	222	221.77	222.03	0.00288	0.65	41.96	101.08	0.33
Reach 1	328	Hazel	34.42	221.54	222.06	221.8	222.08	0.002558	0.67	47.79	103.27	0.32
Reach 1	328	Hazel w CC	41.67	221.54	222.14	221.83	222.17	0.002274	0.71	55.96	103.46	0.31
Reach 1	311	100 Year	51.6	220.84	221.68	221.68	221.88	0.014869	2.24	27.72	67.76	0.84
Reach 1	311	Hazel	60.23	220.84	221.73	221.73	221.95	0.014958	2.35	31.23	70.24	0.85
Reach 1	311	Hazel w CC	72.86	220.84	221.8	221.8	222.03	0.015397	2.52	35.8	72.08	0.88
Reach 1	280	100 Year	51.6	221.04	221.27	221.27	221.51	0.019379	0.61	24.93	61.11	0.67
Reach 1	280	Hazel	60.23	221.04	221.35	221.35	221.58	0.01663	0.8	29.9	66.81	0.68
Reach 1	280	Hazel w CC	72.86	221.04	221.42	221.42	221.67	0.016408	1.04	34.63	68.35	0.72
Reach 1	248	100 Year	51.6	220.53	220.92		220.96	0.002153	0.43	58.04	85.49	0.27
Reach 1	248	Hazel	60.23	220.53	220.98		221.03	0.002325	0.51	62.94	86.6	0.29
Reach 1	248	Hazel w CC	72.86	220.53	221.06		221.12	0.002449	0.61	70.48	88.47	0.31
Reach 1	217	100 Year	51.6	219.55	220.83	220.53	220.88	0.003319	1.32	51.58	79.43	0.42
Reach 1	217	Hazel	60.23	219.55	220.87	220.57	220.94	0.003613	1.42	55.35	79.82	0.44
Reach 1	217	Hazel w CC	72.86	219.55	220.95	220.63	221.03	0.003748	1.51	61.72	80.67	0.45
Reach 1	170	100 Year	51.6	219.9	220.45	220.41	220.6	0.018288	1.84	30.25	76.23	0.87
Reach 1	170	Hazel	60.23	219.9	220.57	220.44	220.69	0.01112	1.67	39.45	81.11	0.7

Reach 1	170	Hazel w CC	72.86	219.9	220.6	220.52	220.76	0.013039	1.88	42.29	81.39	0.77
Reach 1	116	100 Year	51.6	218.7	219.98	219.7	220.16	0.006337	2.04	29.36	57.4	0.59
Reach 1	116	Hazel	60.23	218.7	219.94	219.79	220.22	0.009822	2.49	27.38	52.12	0.74
Reach 1	116	Hazel w CC	72.86	218.7	220.11	220.11	220.33	0.007447	2.37	41.29	121.28	0.65
Reach 1	80	100 Year	51.75	218.68	219.96	219.49	220.01	0.001824	1.09	60.03	90.48	0.32
Reach 1	80	Hazel	60.69	218.68	219.88	219.57	219.96	0.003484	1.44	52.88	87.15	0.44
Reach 1	80	Hazel w CC	73.53	218.68	219.98	219.68	220.07	0.003345	1.5	62.04	91.6	0.43
Reach 1	39	100 Year	51.75	217.7	219.92	219.07	219.95	0.000862	1.03	89.16	188.5	0.23
Reach 1	39	Hazel	60.69	217.7	219.76	219.2	219.85	0.002107	1.53	60.05	160.88	0.35
Reach 1	39	Hazel w CC	73.53	217.7	219.8	219.35	219.93	0.003023	1.86	67.54	181.92	0.42
Reach 1	24	100 Year	51.75	217.24	219.91	219.03	219.94	0.000917	0.97	91.41	150.64	0.24
Reach 1	24	Hazel	60.69	217.24	219.69	219.62	219.8	0.003988	1.84	58.47	147.23	0.49
Reach 1	24	Hazel w CC	73.53	217.24	219.73	219.69	219.86	0.004686	2.03	64.15	147.75	0.53
Reach 1	Pedestrian Bridg		Culvert									
Reach 1	9	100 Year	51.75	217.24	219.04	219.04	219.93	0.054074	4.18	12.38	19.62	1
Reach 1	9	Hazel	60.69	217.24	219.52	219.52	219.63	0.019073	1.74	45.33	159.93	0.53
Reach 1	9	Hazel w CC	73.53	217.24	219.54	219.54	219.68	0.022377	1.91	48.89	160.09	0.57
Reach 1	3	100 Year	51.75	217.3	219.13	217.53	219.13	0.000032	0.19	274.07	149.79	0.05
Reach 1	3	Hazel	60.69	217.3	219.13	217.56	219.13	0.000043	0.23	274.07	149.79	0.05
Reach 1	3	Hazel w CC	73.53	217.3	219.13	217.59	219.13	0.000064	0.27	274.07	149.79	0.06

Kidds Creek - Calibration -25% Mannings

Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
			(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
Reach 1	3898	100 Year	31.38	271.92	273.29	273.28	273.72	0.026624	3.27	11.14	12.44	0.9
Reach 1	3898	Hazel	27.72	271.92	273.21	273.2	273.61	0.026982	3.16	10.17	12.08	0.9
Reach 1	3898	Hazel w CC	33.41	271.92	273.33	273.31	273.78	0.026409	3.32	11.67	12.63	0.91
Reach 1	3879	100 Year	31.38	271.55	273.28		273.46	0.004708	2.14	18.8	17.84	0.55
Reach 1	3879	Hazel	27.72	271.55	273.19		273.36	0.004801	2.08	17.13	17.47	0.55
Reach 1	3879	Hazel w CC	33.41	271.55	273.33		273.52	0.00467	2.18	19.69	18.05	0.55
Reach 1	3861	100 Year	31.38	271.25	273.08		273.35	0.00903	2.23	14.46	13.44	0.54
Reach 1	3861	Hazel	27.72	271.25	273.01		273.25	0.008523	2.1	13.5	13.09	0.53
Reach 1	3861	Hazel w CC	33.41	271.25	273.12		273.4	0.009308	2.29	14.96	13.62	0.55
Reach 1	3843	100 Year	31.38	271.16	273.03		273.2	0.004515	1.78	22	25.63	0.43
Reach 1	3843	Hazel	27.72	271.16	272.96		273.11	0.004366	1.69	20.05	23.7	0.42
Reach 1	3843	Hazel w CC	33.41	271.16	273.08		273.25	0.00448	1.8	23.17	26.13	0.43
Reach 1	3834	100 Year	31.58	271.11	272.74	272.74	273.13	0.010133	2.77	14.05	18.84	0.72
Reach 1	3834	Hazel	28.02	271.11	272.64	272.64	273.03	0.01093	2.76	12.29	17.38	0.74
Reach 1	3834	Hazel w CC	33.78	271.11	272.8	272.8	273.18	0.009526	2.76	15.24	19.56	0.71
Reach 1	3822	100 Year	31.58	270.92	272.66		272.77	0.004565	1.54	22.93	21.78	0.38
Reach 1	3822	Hazel	28.02	270.92	272.57		272.68	0.004511	1.48	21.18	21.25	0.38
Reach 1	3822	Hazel w CC	33.78	270.92	272.7		272.83	0.00472	1.59	23.93	22.57	0.39
Reach 1	3803	100 Year	31.58	270.73	272.4		272.64	0.008639	2.12	16.79	19.01	0.53
Reach 1	3803	Hazel	28.02	270.73	272.33		272.56	0.008345	2.02	15.5	18.14	0.52
Reach 1	3803	Hazel w CC	33.78	270.73	272.43		272.69	0.008917	2.18	17.48	19.46	0.54
Reach 1	3786	100 Year	31.58	270.57	272.08	272.08	272.43	0.018402	2.89	12.63	19.16	0.78
Reach 1	3786	Hazel	28.02	270.57	272.01	272.01	272.35	0.018222	2.79	11.39	18.03	0.77
Reach 1	3786	Hazel w CC	33.78	270.57	272.12	272.12	272.48	0.018057	2.93	13.54	20.09	0.78
Reach 1	3768	100 Year	31.58	270.3	271.87		272.01	0.00464	2.01	22.65	24.37	0.53
Reach 1	3768	Hazel	28.02	270.3	271.8		271.93	0.00455	1.93	21.02	24.07	0.52
Reach 1	3768	Hazel w CC	33.78	270.3	271.91		272.05	0.00472	2.06	23.57	24.53	0.53
Reach 1	3753	100 Year	31.58	270.1	271.68		271.91	0.008576	2.72	17.09	23.7	0.72
Reach 1	3753	Hazel	28.02	270.1	271.62		271.83	0.008535	2.63	15.55	21.87	0.71
Reach 1	3753	Hazel w CC	33.78	270.1	271.72		271.95	0.008631	2.77	18.01	24.54	0.73
Reach 1	3740	100 Year	31.58	270.02	271.57		271.77	0.011385	2.48	17.06	23.41	0.66
Reach 1	3740	Hazel	28.02	270.02	271.5		271.7	0.011689	2.43	15.41	22.19	0.66
Reach 1	3740	Hazel w CC	33.78	270.02	271.61		271.82	0.011388	2.52	17.95	23.91	0.66
Reach 1	3722	100 Year	31.58	269.9	271.3		271.55	0.012415	2.33	16.73	22.71	0.64
Reach 1	3722	Hazel	28.02	269.9	271.26		271.49	0.011541	2.2	15.8	22.51	0.62
Reach 1	3722	Hazel w CC	33.78	269.9	271.34		271.6	0.012167	2.35	17.64	22.9	0.64
Reach 1	3696	100 Year	31.58	269.49	271.01	271.01	271.32	0.006849	3.14	17.55	27.33	0.83
Reach 1	3696	Hazel	28.02	269.49	270.91	270.91	271.24	0.007611	3.16	14.99	24.96	0.87
Reach 1	3696	Hazel w CC	33.78	269.49	271.03	271.03	271.36	0.007046	3.23	18.34	27.62	0.85
Reach 1	3675	100 Year	31.58	269.19	270.47	270.47	270.75	0.012373	3.19	16.84	29.8	0.94
Reach 1	3675	Hazel	28.02	269.19	270.43	270.43	270.69	0.011885	3.05	15.55	28.99	0.92
Reach 1	3675	Hazel w CC	33.78	269.19	270.51	270.51	270.79	0.012145	3.22	17.92	30.61	0.94
Reach 1	3657	100 Year	31.58	268.93	270.18	270.18	270.46	0.015754	2.98	15.86	25.03	0.89
Reach 1	3657	Hazel	28.02	268.93	270.12	270.12	270.39	0.016183	2.91	14.37	24.38	0.89
Reach 1	3657	Hazel w CC	33.78	268.93	270.21	270.21	270.5	0.015994	3.05	16.58	25.38	0.9
Reach 1	3631	100 Year	31.58	268.5	269.75	269.75	270.04	0.009228	2.97	16.23	26.07	0.88
Reach 1	3631	Hazel	28.02	268.5	269.72	269.69	269.98	0.008316	2.77	15.42	25.72	0.83
Reach 1	3631	Hazel w CC	33.78	268.5	269.78	269.78	270.08	0.009173	3.02	17.11	26.44	0.88

Reach 1	3615	100 Year	30.84	268.13	269.51	269.51	269.82	0.015954	2.86	14.21	26.21	0.83
Reach 1	3615	Hazel	29.01	268.13	269.48	269.48	269.78	0.015874	2.82	13.56	25.39	0.82
Reach 1	3615	Hazel w CC	34.98	268.13	269.61	269.61	269.9	0.013246	2.76	17.19	30.13	0.76
Reach 1	3597	100 Year	30.84	267.71	269.19	269.19	269.46	0.009911	2.93	15.43	25.77	0.84
Reach 1	3597	Hazel	29.01	267.71	269.16	269.16	269.43	0.009789	2.87	14.81	25.51	0.84
Reach 1	3597	Hazel w CC	34.98	267.71	269.22	269.22	269.53	0.010821	3.12	16.39	26.29	0.89
Reach 1	3580	100 Year	30.84	267.49	268.99	268.99	269.29	0.005286	2.95	19.38	32.45	0.81
Reach 1	3580	Hazel	29.01	267.49	268.95	268.95	269.25	0.005385	2.92	18.22	31.74	0.81
Reach 1	3580	Hazel w CC	34.98	267.49	269.06	269.06	269.36	0.005239	3.04	21.71	34.08	0.81
Reach 1	3559	100 Year	30.84	267.28	268.48	268.48	268.71	0.015576	3.03	17.1	32.17	0.91
Reach 1	3559	Hazel	29.01	267.28	268.46	268.46	268.68	0.015278	2.97	16.47	31.95	0.9
Reach 1	3559	Hazel w CC	34.98	267.28	268.84		268.93	0.004156	1.89	29.52	35.18	0.49
Reach 1	3537	100 Year	30.84	266.68	268.26		268.41	0.008116	2.28	19.34	29.21	0.6
Reach 1	3537	Hazel	29.01	266.68	268.17		268.36	0.010624	2.5	16.83	28.5	0.68
Reach 1	3537	Hazel w CC	34.98	266.68	268.82		268.87	0.001569	1.24	37.1	33.82	0.28
Reach 1	3506	100 Year	30.84	266.17	268.2		268.27	0.002151	1.69	32.41	31.2	0.4
Reach 1	3506	Hazel	29.01	266.17	268.11		268.19	0.002425	1.73	29.65	30.51	0.42
Reach 1	3506	Hazel w CC	34.98	266.17	268.8		268.83	0.00071	1.17	53.17	37.32	0.24
Reach 1	3481	100 Year	30.84	265.92	268.18		268.24	0.000779	1.48	41.3	32.55	0.32
Reach 1	3481	Hazel	29.01	265.92	268.09		268.15	0.000828	1.48	38.43	31.66	0.33
Reach 1	3481	Hazel w CC	34.98	265.92	268.79		268.82	0.000338	1.15	62.73	37.99	0.22
Reach 1	3465	100 Year	30.84	265.57	268.19		268.22	0.000373	1.12	46.38	30.32	0.22
Reach 1	3465	Hazel	29.01	265.57	268.1		268.13	0.000385	1.12	43.72	29.63	0.23
Reach 1	3465	Hazel w CC	34.98	265.57	268.79		268.81	0.000201	0.95	66.37	36.85	0.17
Reach 1	3443	100 Year	30.84	265.1	268.19		268.21	0.000201	0.76	55.56	30.61	0.14
Reach 1	3443	Hazel	29.01	265.1	268.1		268.12	0.000204	0.75	52.87	30.14	0.14
Reach 1	3443	Hazel w CC	34.98	265.1	268.79		268.8	0.000116	0.65	75.3	34.86	0.11
Reach 1	3419	100 Year	32.06	264.73	268.18		268.2	0.000303	0.75	57.2	27.69	0.13
Reach 1	3419	Hazel	30.38	264.73	268.1		268.11	0.000307	0.74	54.76	27.31	0.13
Reach 1	3419	Hazel w CC	36.64	264.73	268.79		268.8	0.000192	0.67	74.84	30.82	0.11
Reach 1	3389	100 Year	32.06	264.22	268.18		268.2	0.000111	0.64	75	30.51	0.1
Reach 1	3389	Hazel	30.38	264.22	268.09		268.11	0.00011	0.62	72.31	30.2	0.1
Reach 1	3389	Hazel w CC	36.64	264.22	268.79		268.8	0.00008	0.59	94.3	33.79	0.09
Reach 1	3364	100 Year	32.06	263.75	268.18		268.19	0.000074	0.6	90.34	33.6	0.09
Reach 1	3364	Hazel	30.38	263.75	268.09		268.1	0.000072	0.58	87.39	33.1	0.09
Reach 1	3364	Hazel w CC	36.64	263.75	268.79		268.79	0.000054	0.56	111.78	36.79	0.08
Reach 1	3342	100 Year	32.06	263.43	268.18		268.19	0.000053	0.51	103.24	33.27	0.08
Reach 1	3342	Hazel	30.38	263.43	268.1		268.1	0.000052	0.5	100.3	33.1	0.07
Reach 1	3342	Hazel w CC	36.64	263.43	268.79		268.79	0.000042	0.49	123.67	34.6	0.07
Reach 1	3325	100 Year	32.06	263.15	268.18		268.19	0.000047	0.39	105.14	33.45	0.06
Reach 1	3325	Hazel	30.38	263.15	268.09		268.1	0.000046	0.38	102.19	33.17	0.05
Reach 1	3325	Hazel w CC	36.64	263.15	268.79		268.79	0.000038	0.37	125.67	34.75	0.05
Reach 1	3302	100 Year	39.51	262.92	266.11	266.11	267.71	0.017187	4.84	7.66	20.68	0.88
Reach 1	3302	Hazel	38.51	262.92	266.05	266.05	267.63	0.017321	4.8	7.53	20.41	0.88
Reach 1	3302	Hazel w CC	46.54	262.92	266.48	266.48	268.26	0.016207	5.07	8.6	22.15	0.87
Reach 1	Cundles Rd W		Culvert									
Reach 1	3207	100 Year	39.51	260.13	263.31	263.31	264.87	0.004702	5.54	7.13	69.07	1
Reach 1	3207	Hazel	38.51	260.13	263.25	263.25	264.79	0.004733	5.49	7.01	68.59	1
Reach 1	3207	Hazel w CC	46.54	260.13	263.67	263.67	265.41	0.004508	5.84	7.97	73.16	1
Reach 1	3177	100 Year	39.51	259.43	261.11	261.11	261.41	0.003893	2.72	22.65	44.31	0.72
Reach 1	3177	Hazel	38.51	259.43	261.09	261.09	261.4	0.003907	2.7	21.97	44.14	0.72
Reach 1	3177	Hazel w CC	46.54	259.43	261.2	261.2	261.51	0.00396	2.84	26.59	46.68	0.73

Reach 1	2489	100 Year	39.69	248.85	251.9		251.9	0.000036	0.43	159.58	73.12	0.08
Reach 1	2489	Hazel	41.37	248.85	251.95		251.96	0.000036	0.44	163.82	73.4	0.08
Reach 1	2489	Hazel w CC	50.07	248.85	252.12		252.12	0.000043	0.49	175.77	74.17	0.09
Reach 1	2438	100 Year	39.69	248.74	251.89		251.9	0.000047	0.49	132.66	66.06	0.09
Reach 1	2438	Hazel	41.37	248.74	251.95		251.96	0.000047	0.49	136.49	66.36	0.09
Reach 1	2438	Hazel w CC	50.07	248.74	252.11		252.12	0.000055	0.55	147.26	67.09	0.1
Reach 1	2406	100 Year	39.69	248.2	251.89		251.9	0.000022	0.3	192.54	86.71	0.05
Reach 1	2406	Hazel	41.37	248.2	251.95		251.95	0.000022	0.3	197.58	87.32	0.05
Reach 1	2406	Hazel w CC	50.07	248.2	252.11		252.12	0.000027	0.34	211.86	89.95	0.06
Reach 1	2387	100 Year	39.69	247.9	251.89		251.89	0.000012	0.32	259.73	107.8	0.05
Reach 1	2387	Hazel	41.37	247.9	251.95		251.95	0.000013	0.33	265.99	108.43	0.05
Reach 1	2387	Hazel w CC	50.07	247.9	252.11		252.11	0.000015	0.37	283.68	110.22	0.06
Reach 1	2374	100 Year	39.69	247.9	251.89		251.89	0.000007	0.24	374.28	177.93	0.04
Reach 1	2374	Hazel	41.37	247.9	251.95		251.95	0.000007	0.24	384.59	178.7	0.04
Reach 1	2374	Hazel w CC	50.07	247.9	252.11		252.11	0.000008	0.27	413.67	180.64	0.04
Reach 1	2358	100 Year	39.69	247.92	251.89		251.89	0.000005	0.15	428.78	195.49	0.02
Reach 1	2358	Hazel	41.37	247.92	251.95		251.95	0.000005	0.15	440.13	196.78	0.02
Reach 1	2358	Hazel w CC	50.07	247.92	252.11		252.11	0.000006	0.17	472.28	200.42	0.03
Reach 1	2303	100 Year	39.69	246.89	251.89		251.89	0.000003	0.17	511.03	178.48	0.02
Reach 1	2303	Hazel	41.37	246.89	251.95		251.95	0.000003	0.17	521.38	179.2	0.02
Reach 1	2303	Hazel w CC	50.07	246.89	252.11		252.11	0.000004	0.19	550.61	181.88	0.03
Reach 1	2242	100 Year	46.38	246.02	251.89		251.89	0.000003	0.15	551.61	159.37	0.02
Reach 1	2242	Hazel	48.83	246.02	251.95		251.95	0.000003	0.15	560.84	159.74	0.02
Reach 1	2242	Hazel w CC	59.13	246.02	252.11		252.11	0.000004	0.18	586.76	160.75	0.02
Reach 1	2203	100 Year	46.38	245.78	251.89		251.89	0.000002	0.14	573.82	153.24	0.02
Reach 1	2203	Hazel	48.83	245.78	251.95		251.95	0.000003	0.14	582.71	154.08	0.02
Reach 1	2203	Hazel w CC	59.13	245.78	252.11		252.11	0.000003	0.16	607.75	155.39	0.02
Reach 1	2170	100 Year	46.38	245.35	251.89		251.89	0.000001	0.13	648.02	153.54	0.02
Reach 1	2170	Hazel	48.83	245.35	251.95		251.95	0.000002	0.14	656.92	153.94	0.02
Reach 1	2170	Hazel w CC	59.13	245.35	252.11		252.11	0.000002	0.16	681.89	154.84	0.02
Reach 1	2113	100 Year	50.22	245.24	251.8	248.47	251.87	0.000445	1.61	102.09	235.62	0.28
Reach 1	2113	Hazel	54.47	245.24	251.87	248.65	251.93	0.000387	1.52	119.99	236.12	0.26
Reach 1	2113	Hazel w CC	65.99	245.24	252.06	249.08	252.1	0.000285	1.35	164.95	237.75	0.23
Reach 1	Reservoir Embank		Culvert									
Reach 1	2029	100 Year	50.22	242.98	251.75		251.86	0.000211	1.55	91.1	210.52	0.22
Reach 1	2029	Hazel	54.47	242.98	251.83		251.93	0.000207	1.55	107.24	210.77	0.22
Reach 1	2029	Hazel w CC	65.99	242.98	252.01		252.1	0.000196	1.55	145.7	211.56	0.22
Reach 1	2023	100 Year	50.22	242.94	251.8		251.81	0.000002	0.25	544.14	208.03	0.03
Reach 1	2023	Hazel	54.47	242.94	251.88		251.88	0.000003	0.26	559.44	208.5	0.03
Reach 1	2023	Hazel w CC	65.99	242.94	252.05		252.05	0.000003	0.3	596.02	209.82	0.03
Reach 1	2018	100 Year	50.22	242.87	251.8	245.97	251.8	0.000025	0.58	300.11	203.46	0.08
Reach 1	2018	Hazel	54.47	242.87	251.87	246.13	251.88	0.000026	0.6	315.07	203.97	0.08
Reach 1	2018	Hazel w CC	65.99	242.87	252.05	246.58	252.05	0.000029	0.64	350.82	205.13	0.09
Reach 1	Hwy 400		Culvert									
Reach 1	1930	100 Year	50.22	242.22	245.33	245.33	246.86	0.004749	5.49	9.14	104.45	1
Reach 1	1930	Hazel	54.47	242.22	245.5	245.5	247.12	0.004662	5.64	9.65	107.86	1
Reach 1	1930	Hazel w CC	65.99	242.22	245.95	245.95	247.78	0.004429	6	11	114.26	1
Reach 1	1845	100 Year	50.22	241.85	242.55		242.64	0.00823	2.06	38.24	84.56	0.84
Reach 1	1845	Hazel	54.47	241.85	242.57		242.67	0.008169	2.1	40.34	85.05	0.84
Reach 1	1845	Hazel w CC	65.99	241.85	242.65		242.76	0.007222	2.14	47.32	86.51	0.81
Reach 1	1754	100 Year	50.22	240.25	241.85	241.85	242.05	0.005082	2.86	41.49	86.76	0.74

Reach 1	1754	Hazel	54.47	240.25	241.88	241.88	242.08	0.005082	2.9	44.33	87.12	0.74
Reach 1	1754	Hazel w CC	65.99	240.25	241.94	241.94	242.16	0.005722	3.16	49.23	87.87	0.79
Reach 1	1718	100 Year	50.22	239.71	241.31		241.35	0.002709	1.32	66.04	92.86	0.34
Reach 1	1718	Hazel	54.47	239.71	241.36		241.4	0.002582	1.32	70.82	93.78	0.33
Reach 1	1718	Hazel w CC	65.99	239.71	241.45		241.49	0.002674	1.39	79.31	94.79	0.34
Reach 1	1679	100 Year	50.22	239.11	241.25	240.74	241.27	0.001174	0.94	80.21	98.54	0.27
Reach 1	1679	Hazel	54.47	239.11	241.3	240.76	241.33	0.001132	0.95	85.53	99.49	0.26
Reach 1	1679	Hazel w CC	65.99	239.11	241.39	240.82	241.42	0.001235	1.03	94.13	101.06	0.28
Reach 1	0	Rail Trail		Culvert								
Reach 1	1662	100 Year	50.22	239.12	240.77	240.77	240.95	0.011028	3.17	34.75	82.06	0.95
Reach 1	1662	Hazel	54.47	239.12	240.79	240.79	240.97	0.0113	3.25	36.39	82.31	0.97
Reach 1	1662	Hazel w CC	65.99	239.12	240.85	240.85	241.04	0.011464	3.38	41.12	84.26	0.99
Reach 1	1612	100 Year	50.22	238.22	239.74		239.77	0.001152	0.99	66.43	62.46	0.26
Reach 1	1612	Hazel	54.47	238.22	239.8		239.84	0.00114	1.01	70.22	62.85	0.27
Reach 1	1612	Hazel w CC	65.99	238.22	239.93		239.97	0.001203	1.1	78.03	63.42	0.28
Reach 1	1577	100 Year	50.22	237.68	239.71		239.74	0.000693	1.15	70.32	52.43	0.26
Reach 1	1577	Hazel	54.47	237.68	239.77		239.8	0.000713	1.19	73.46	52.78	0.27
Reach 1	1577	Hazel w CC	65.99	237.68	239.89		239.93	0.000815	1.32	79.77	53.46	0.29
Reach 1	1553	100 Year	50.22	237.28	239.69	238.58	239.72	0.000806	0.99	61.57	43.32	0.21
Reach 1	1553	Hazel	54.47	237.28	239.75	238.62	239.79	0.000842	1.03	64.09	43.44	0.21
Reach 1	1553	Hazel w CC	65.99	237.28	239.86	238.71	239.91	0.00099	1.15	69.02	43.64	0.23
Reach 1	1509	100 Year	49.41	236.23	239.57	239.11	239.66	0.001097	1.87	49.27	58.71	0.43
Reach 1	1509	Hazel	55.57	236.23	239.61	239.17	239.72	0.001226	2.01	51.75	59.52	0.46
Reach 1	1509	Hazel w CC	67.28	236.23	239.73	239.29	239.84	0.001219	2.08	58.81	61.27	0.46
Reach 1		Wellington St W		Culvert								
Reach 1	1447	100 Year	49.41	235.29	238.73	238.73	238.89	0.001511	2.5	37.14	82.72	0.52
Reach 1	1447	Hazel	55.57	235.29	238.76	238.76	238.93	0.001623	2.61	39.47	82.88	0.54
Reach 1	1447	Hazel w CC	67.28	235.29	238.8	238.8	239	0.001823	2.8	43.46	83.15	0.57
Reach 1	1412.792	100 Year	49.41	234.63	237.02	237.02	237.2	0.007255	2.66	30.49	73.1	0.61
Reach 1	1412.792	Hazel	55.57	234.63	237.06	237.06	237.24	0.007207	2.69	33.45	77.04	0.61
Reach 1	1412.792	Hazel w CC	67.28	234.63	237.12	237.12	237.32	0.007398	2.78	38.22	85.93	0.62
Reach 1		Thomson St		Culvert								
Reach 1	1330	100 Year	49.41	232.58	234.47	234.47	234.66	0.00719	2.86	31.69	67.96	0.78
Reach 1	1330	Hazel	55.57	232.58	234.51	234.51	234.71	0.007127	2.91	34.83	73.52	0.78
Reach 1	1330	Hazel w CC	67.28	232.58	234.59	234.59	234.8	0.007247	3.04	40.68	77.49	0.79
Reach 1	1309	100 Year	49.41	232.37	233.99	233.99	234.2	0.010132	2.8	28.22	61.84	0.83
Reach 1	1309	Hazel	55.57	232.37	234.03	234.03	234.25	0.01001	2.85	31.04	65.54	0.83
Reach 1	1309	Hazel w CC	67.28	232.37	234.11	234.11	234.33	0.009428	2.89	36.66	74.77	0.81
Reach 1	1289	100 Year	49.41	232.04	233.78	233.78	233.99	0.002811	1.51	30.14	75.57	0.44
Reach 1	1289	Hazel	55.57	232.04	233.82	233.82	234.04	0.002789	1.53	33.08	75.89	0.44
Reach 1	1289	Hazel w CC	67.28	232.04	233.89	233.89	234.12	0.002748	1.58	38.24	76.51	0.44
Reach 1	1271	100 Year	49.41	231.68	233.29	233.29	233.52	0.002444	1.6	26.39	65.53	0.47
Reach 1	1271	Hazel	55.57	231.68	233.33	233.33	233.57	0.002465	1.64	29.04	66.17	0.47
Reach 1	1271	Hazel w CC	67.28	231.68	233.4	233.4	233.67	0.002494	1.72	33.74	66.69	0.48
Reach 1	1250	100 Year	49.41	231.14	232.81	232.81	233.03	0.005265	2.21	28.7	69.7	0.63
Reach 1	1250	Hazel	55.57	231.14	232.84	232.84	233.08	0.005444	2.28	30.57	70.11	0.64
Reach 1	1250	Hazel w CC	67.28	231.14	232.9	232.9	233.18	0.005146	2.29	35.1	71.61	0.63
Reach 1	1226	100 Year	49.41	230.79	232.53	232.53	232.71	0.004619	2.53	29.64	71.58	0.68
Reach 1	1226	Hazel	55.57	230.79	232.57	232.57	232.75	0.004363	2.51	32.72	75.63	0.66
Reach 1	1226	Hazel w CC	67.28	230.79	232.62	232.62	232.82	0.004515	2.61	36.73	78.36	0.67

Reach 1	1204	100 Year	49.41	230.52	232.06	232.06	232.25	0.003907	2.28	26.02	66.5	0.73
Reach 1	1204	Hazel	55.57	230.52	232.09	232.09	232.3	0.004013	2.36	28.12	69.34	0.74
Reach 1	1204	Hazel w CC	67.28	230.52	232.15	232.15	232.39	0.003914	2.43	32.89	74.6	0.74
Reach 1	Eccles St N @ So		Culvert									
Reach 1	1177	100 Year	49.41	230.04	231.69	231.69	231.87	0.004501	2.05	27.04	78.94	0.68
Reach 1	1177	Hazel	55.57	230.04	231.73	231.73	231.92	0.004361	2.07	29.66	83.77	0.67
Reach 1	1177	Hazel w CC	67.28	230.04	231.79	231.79	232	0.004091	2.08	34.86	91.33	0.66
Reach 1	1158	100 Year	49.41	229.69	231.28	231.28	231.52	0.002474	1.47	25.82	61.69	0.47
Reach 1	1158	Hazel	55.57	229.69	231.32	231.32	231.57	0.002534	1.52	27.87	62.02	0.48
Reach 1	1158	Hazel w CC	67.28	229.69	231.4	231.4	231.67	0.002318	1.53	32.98	64.38	0.46
Reach 1	1144	100 Year	49.41	229.45	230.67	230.67	230.84	0.005391	1.92	26.84	77	0.66
Reach 1	1144	Hazel	55.57	229.45	230.7	230.7	230.88	0.00541	1.96	29.02	78.04	0.66
Reach 1	1144	Hazel w CC	67.28	229.45	230.75	230.75	230.96	0.005372	2.03	33.06	78.52	0.67
Reach 1	1114	100 Year	49.67	228.97	230.16	230.16	230.37	0.01048	2.8	27.22	57.1	0.93
Reach 1	1114	Hazel	55.96	228.97	230.2	230.2	230.42	0.010562	2.88	29.48	60.3	0.93
Reach 1	1114	Hazel w CC	67.76	228.97	230.27	230.27	230.51	0.010333	2.98	34.04	65.65	0.93
Reach 1	1087	100 Year	49.67	228.16	229.73	229.73	229.96	0.009637	2.76	26.23	56.12	0.84
Reach 1	1087	Hazel	55.96	228.16	229.79	229.79	230.02	0.009196	2.79	29.69	58.71	0.82
Reach 1	1087	Hazel w CC	67.76	228.16	229.86	229.86	230.11	0.009297	2.92	33.68	60.42	0.84
Reach 1	1056	100 Year	49.67	227.65	229.13	229.13	229.38	0.006731	3.02	29.26	49.93	0.83
Reach 1	1056	Hazel	55.96	227.65	229.17	229.17	229.44	0.007166	3.17	31.3	51.18	0.86
Reach 1	1056	Hazel w CC	67.76	227.65	229.24	229.24	229.56	0.008202	3.51	35.15	62.25	0.93
Reach 1	1013	100 Year	49.67	226.81	228.8		228.89	0.001334	1.67	46.5	59.73	0.42
Reach 1	1013	Hazel	55.96	226.81	228.86		228.96	0.001399	1.75	50.3	60.35	0.43
Reach 1	1013	Hazel w CC	67.76	226.81	228.97		229.08	0.001499	1.88	56.93	61.13	0.45
Reach 1	993	100 Year	49.67	226.49	228.52	228.52	228.8	0.003748	2.95	31.82	50.63	0.74
Reach 1	993	Hazel	55.96	226.49	228.58	228.58	228.86	0.00387	3.07	34.51	56.85	0.76
Reach 1	993	Hazel w CC	67.76	226.49	228.67	228.67	228.98	0.004064	3.26	39.27	64.05	0.79
Reach 1	Donald St		Culvert									
Reach 1	953	100 Year	50.67	225.54	228.18	228.18	228.34	0.001602	2.33	39.08	110.23	0.47
Reach 1	953	Hazel	58.03	225.54	228.22	228.22	228.39	0.001737	2.44	42.87	110.34	0.49
Reach 1	953	Hazel w CC	70.3	225.54	228.27	228.27	228.45	0.001903	2.59	48.88	110.52	0.51
Reach 1	921	100 Year	50.67	224.89	227.43	226.52	227.45	0.00047	0.87	91.77	81.76	0.18
Reach 1	921	Hazel	58.03	224.89	227.55	226.63	227.57	0.000453	0.88	101.63	82.52	0.18
Reach 1	921	Hazel w CC	70.3	224.89	227.74	226.71	227.76	0.000428	0.9	117.61	87.2	0.17
Reach 1	875	100 Year	50.67	224.27	227.3	226.99	227.41	0.001521	1.86	37.56	45.2	0.35
Reach 1	875	Hazel	58.03	224.27	227.44	227.15	227.53	0.001192	1.7	43.86	45.4	0.31
Reach 1	875	Hazel w CC	70.3	224.27	227.64	227.22	227.73	0.000907	1.54	53.11	46.31	0.27
Reach 1	866	100 Year	50.67	224.21	226.89	226.89	227.35	0.004496	2.96	17	16.8	0.59
Reach 1	866	Hazel	58.03	224.21	227.01	227.01	227.48	0.004422	3.02	19.27	22.12	0.59
Reach 1	866	Hazel w CC	70.3	224.21	227.13	227.13	227.67	0.004313	3.07	22.06	23.35	0.58
Reach 1	848	100 Year	50.67	223.93	226.69		226.79	0.001376	1.92	39.82	38.1	0.38
Reach 1	848	Hazel	58.03	223.93	226.32		226.63	0.004764	3.24	27.76	31.06	0.68
Reach 1	848	Hazel w CC	70.3	223.93	226.66		226.87	0.002789	2.72	39.04	35.55	0.54
Reach 1	816	100 Year	50.67	223.12	225.46	225.46	226.43	0.00896	4.51	11.93	28.71	0.98
Reach 1	816	Hazel	58.03	223.12	226.3	226.14	226.48	0.001564	2.35	43.74	60.95	0.43
Reach 1	816	Hazel w CC	70.3	223.12	226.68	226.24	226.77	0.000779	1.79	68.66	72.42	0.31
Reach 1	Eccles St N		Culvert									
Reach 1	788	100 Year	50.84	222.94	224.99	224.99	226.01	0.002775	2.46	15.43	19.87	0.56
Reach 1	788	Hazel	58.66	222.94	225.19	225.19	226.32	0.00262	2.55	17.07	20.96	0.55
Reach 1	788	Hazel w CC	71.02	222.94	225.48	225.48	226.77	0.002516	2.71	19.33	33.39	0.55

Reach 1	762	100 Year	50.84	222.55	224.42	224.42	224.75	0.005975	3.14	21.14	30.61	0.76
Reach 1	762	Hazel	58.66	222.55	224.49	224.49	224.85	0.006052	3.25	23.45	31.05	0.77
Reach 1	762	Hazel w CC	71.02	222.55	224.59	224.59	224.99	0.006148	3.4	26.67	31.66	0.78
Reach 1	735	100 Year	50.84	222.44	224.03	224.03	224.42	0.009477	3.47	19.79	26.03	0.89
Reach 1	735	Hazel	58.66	222.44	224.12	224.12	224.53	0.009466	3.6	22.13	26.64	0.9
Reach 1	735	Hazel w CC	71.02	222.44	224.24	224.24	224.69	0.009663	3.81	25.34	27.27	0.92
Reach 1	707	100 Year	50.84	221.96	223.91		224.16	0.00057	2.7	23.57	21.1	0.63
Reach 1	707	Hazel	58.66	221.96	224		224.29	0.000609	2.88	25.54	21.7	0.66
Reach 1	707	Hazel w CC	71.02	221.96	224.23		224.52	0.000546	2.94	30.63	23.39	0.63
Reach 1	675	100 Year	50.84	221.75	223.78		224.13	0.001161	3.22	24.1	20.67	0.73
Reach 1	675	Hazel	58.66	221.75	223.71	223.65	224.23	0.001773	3.9	22.87	20.12	0.9
Reach 1	675	Hazel w CC	71.02	221.75	223.83	223.83	224.46	0.001995	4.31	25.33	21.27	0.97
Reach 1	641	100 Year	50.84	221.5	223.88		224.05	0.000527	1.69	29.34	25.19	0.36
Reach 1	641	Hazel	58.66	221.5	223.89		224.11	0.000686	1.93	29.58	25.31	0.41
Reach 1	641	Hazel w CC	71.02	221.5	223.86		224.2	0.001064	2.39	28.99	25.07	0.51
Reach 1	611	100 Year	50.84	221.24	223.91		224.02	0.000229	1.55	38.49	33.12	0.32
Reach 1	611	Hazel	58.66	221.24	223.93		224.07	0.000288	1.75	39.25	33.17	0.35
Reach 1	611	Hazel w CC	71.02	221.24	223.95		224.14	0.00041	2.1	39.66	33.19	0.42
Reach 1	581	100 Year	50.84	220.83	223.76	223.76	223.97	0.000551	2.79	34.25	78.41	0.65
Reach 1	581	Hazel	58.66	220.83	223.82	223.82	224.03	0.000579	2.89	38.78	84.27	0.66
Reach 1	581	Hazel w CC	71.02	220.83	223.88	223.88	224.11	0.000645	3.08	44.16	88.29	0.69
Reach 1	Dunlop St		Culvert									
Reach 1	503	100 Year	50.84	219.88	223.34	223.34	223.65	0.008711	2.52	20.98	39.4	1.03
Reach 1	503	Hazel	58.66	219.88	223.41	223.41	223.73	0.007717	2.57	24.01	41.4	0.99
Reach 1	503	Hazel w CC	71.02	219.88	223.49	223.49	223.86	0.007629	2.75	27.35	42.44	1
Reach 1	466	100 Year	50.84	219.34	222.02		222.14	0.000884	1.54	33.83	22.98	0.38
Reach 1	466	Hazel	58.66	219.34	222.03		222.18	0.001155	1.76	34.06	23.05	0.44
Reach 1	466	Hazel w CC	71.02	219.34	222.03		222.26	0.001674	2.13	34.21	23.1	0.53
Reach 1	429	100 Year	50.84	218.95	222.05	220.45	222.1	0.000206	0.95	53.51	27.56	0.22
Reach 1	429	Hazel	58.66	218.95	222.08	220.55	222.14	0.000267	1.08	54.13	27.92	0.25
Reach 1	429	Hazel w CC	71.02	218.95	222.11	220.7	222.19	0.000377	1.29	54.98	28.78	0.29
Reach 1	373	100 Year	29.84	221.54	221.97	221.97	222.08	0.008024	1.82	21.62	89.48	0.93
Reach 1	373	Hazel	34.42	221.54	221.99	221.99	222.12	0.008159	1.9	23.61	90.58	0.95
Reach 1	373	Hazel w CC	41.67	221.54	222.06	222.03	222.17	0.005733	1.77	29.94	93.12	0.81
Reach 1	328	100 Year	29.84	221.54	221.92	221.77	221.96	0.001951	0.77	34.27	99.14	0.44
Reach 1	328	Hazel	34.42	221.54	221.98	221.8	222.02	0.001564	0.78	40.33	100.79	0.41
Reach 1	328	Hazel w CC	41.67	221.54	222.07	221.83	222.1	0.001275	0.8	48.69	103.46	0.38
Reach 1	311	100 Year	51.6	220.84	221.68	221.68	221.88	0.005361	2.24	27.72	67.76	0.84
Reach 1	311	Hazel	60.23	220.84	221.73	221.73	221.95	0.005393	2.35	31.23	70.24	0.85
Reach 1	311	Hazel w CC	72.86	220.84	221.8	221.8	222.03	0.005551	2.52	35.8	72.08	0.88
Reach 1	280	100 Year	51.6	221.04	221.27	221.27	221.51	0.006987	0.61	24.93	61.11	0.67
Reach 1	280	Hazel	60.23	221.04	221.35	221.35	221.58	0.005996	0.8	29.9	66.81	0.68
Reach 1	280	Hazel w CC	72.86	221.04	221.42	221.42	221.67	0.005916	1.04	34.63	68.35	0.72
Reach 1	248	100 Year	51.6	220.53	220.77		220.84	0.001524	0.33	45.58	81.32	0.33
Reach 1	248	Hazel	60.23	220.53	220.83		220.91	0.001558	0.46	50.53	83.64	0.36
Reach 1	248	Hazel w CC	72.86	220.53	220.9		220.99	0.001693	0.59	56.23	85.06	0.39
Reach 1	217	100 Year	51.6	219.55	220.69	220.53	220.78	0.002434	1.71	41.03	77.09	0.58
Reach 1	217	Hazel	60.23	219.55	220.75	220.57	220.85	0.002391	1.77	45.73	78.82	0.58
Reach 1	217	Hazel w CC	72.86	219.55	220.81	220.63	220.92	0.002578	1.91	50.34	79.3	0.61
Reach 1	170	100 Year	51.6	219.9	220.41	220.41	220.6	0.008696	2	27.64	74.45	0.98
Reach 1	170	Hazel	60.23	219.9	220.44	220.44	220.66	0.009603	2.19	29.54	75.05	1.04

Reach 1	170	Hazel w CC	72.86	219.9	220.52	220.52	220.74	0.007931	2.22	35.73	79.44	0.97
Reach 1	116	100 Year	51.6	218.7	219.82	219.7	220.09	0.00408	2.48	22.68	26.71	0.77
Reach 1	116	Hazel	60.23	218.7	219.79	219.79	220.19	0.006168	2.99	21.93	26.54	0.95
Reach 1	116	Hazel w CC	72.86	218.7	220.11	220.11	220.33	0.00268	2.37	41.34	121.33	0.65
Reach 1	80	100 Year	51.75	218.68	219.92	219.49	219.97	0.0008	1.17	56.19	88.96	0.35
Reach 1	80	Hazel	60.69	218.68	219.76	219.57	219.88	0.002293	1.8	42.73	78.04	0.58
Reach 1	80	Hazel w CC	73.53	218.68	219.8	219.68	219.95	0.002677	2	46.37	81.03	0.63
Reach 1	39	100 Year	51.75	217.7	219.91	219.07	219.95	0.000325	1.05	87.27	188.42	0.23
Reach 1	39	Hazel	60.69	217.7	219.72	219.2	219.82	0.000879	1.62	53.72	134.85	0.38
Reach 1	39	Hazel w CC	73.53	217.7	219.74	219.35	219.88	0.001178	1.89	57.43	143.71	0.44
Reach 1	24	100 Year	51.75	217.24	219.91	219.03	219.94	0.00033	0.97	91.41	150.64	0.24
Reach 1	24	Hazel	60.69	217.24	219.68	219.62	219.8	0.001559	1.91	56.47	147.03	0.51
Reach 1	24	Hazel w CC	73.53	217.24	219.72	219.69	219.86	0.001742	2.06	63.35	147.68	0.54
Reach 1	Pedestrian Bridg		Culvert									
Reach 1	9	100 Year	51.75	217.24	219.04	219.04	219.93	0.019483	4.18	12.38	19.62	1
Reach 1	9	Hazel	60.69	217.24	219.52	219.52	219.63	0.006876	1.74	45.33	159.93	0.53
Reach 1	9	Hazel w CC	73.53	217.24	219.54	219.54	219.68	0.008062	1.91	48.9	160.09	0.57
Reach 1	3	100 Year	51.75	217.3	219.13	217.53	219.13	0.000011	0.19	274.07	149.79	0.05
Reach 1	3	Hazel	60.69	217.3	219.13	217.56	219.13	0.000016	0.23	274.07	149.79	0.05
Reach 1	3	Hazel w CC	73.53	217.3	219.13	217.59	219.13	0.000023	0.27	274.07	149.79	0.06

Kidds Creek - Calibration +50% Expansion / Contraction

Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
			(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
Reach 1	3898	100 Year	31.38	271.92	273.56		273.81	0.021162	2.48	14.77	13.67	0.62
Reach 1	3898	Hazel	27.72	271.92	273.47		273.7	0.021298	2.39	13.51	13.27	0.62
Reach 1	3898	Hazel w CC	33.41	271.92	273.62		273.87	0.021005	2.52	15.47	13.85	0.63
Reach 1	3879	100 Year	31.38	271.55	273.43		273.57	0.00563	1.87	21.58	18.49	0.46
Reach 1	3879	Hazel	27.72	271.55	273.34		273.47	0.005623	1.8	19.79	18.07	0.45
Reach 1	3879	Hazel w CC	33.41	271.55	273.49		273.63	0.005625	1.9	22.56	18.74	0.46
Reach 1	3861	100 Year	31.38	271.25	273.22		273.43	0.011479	1.98	16.35	14.27	0.47
Reach 1	3861	Hazel	27.72	271.25	273.14		273.33	0.010755	1.86	15.27	13.72	0.45
Reach 1	3861	Hazel w CC	33.41	271.25	273.26		273.48	0.011777	2.04	16.98	14.58	0.47
Reach 1	3843	100 Year	31.38	271.16	273.09		273.24	0.006773	1.67	23.49	26.27	0.4
Reach 1	3843	Hazel	27.72	271.16	273.01		273.15	0.0067	1.61	21.42	25.37	0.39
Reach 1	3843	Hazel w CC	33.41	271.16	273.14		273.29	0.006712	1.69	24.75	26.78	0.4
Reach 1	3834	100 Year	31.58	271.11	272.77	272.73	273.13	0.015887	2.65	14.79	19.32	0.68
Reach 1	3834	Hazel	28.02	271.11	272.68	272.64	273.04	0.016734	2.61	13.08	17.99	0.69
Reach 1	3834	Hazel w CC	33.78	271.11	272.83	272.79	273.18	0.015466	2.67	15.81	19.83	0.68
Reach 1	3822	100 Year	31.58	270.92	272.79		272.89	0.005829	1.38	26.1	23.71	0.33
Reach 1	3822	Hazel	28.02	270.92	272.71		272.79	0.005706	1.31	24.03	22.62	0.32
Reach 1	3822	Hazel w CC	33.78	270.92	272.84		272.94	0.005929	1.41	27.3	24.32	0.33
Reach 1	3803	100 Year	31.58	270.73	272.56		272.74	0.009835	1.81	20.12	21.59	0.43
Reach 1	3803	Hazel	28.02	270.73	272.49		272.64	0.009373	1.71	18.51	19.99	0.42
Reach 1	3803	Hazel w CC	33.78	270.73	272.61		272.79	0.010151	1.87	21.07	22.64	0.44
Reach 1	3786	100 Year	31.58	270.57	272.07	272.07	272.43	0.033376	2.91	12.51	19.06	0.79
Reach 1	3786	Hazel	28.02	270.57	272	272	272.35	0.03326	2.81	11.25	17.9	0.78
Reach 1	3786	Hazel w CC	33.78	270.57	272.12	272.12	272.48	0.03282	2.95	13.4	19.95	0.78
Reach 1	3768	100 Year	31.58	270.3	272		272.1	0.005638	1.75	25.76	24.94	0.44
Reach 1	3768	Hazel	28.02	270.3	271.92		272.02	0.005476	1.67	23.99	24.6	0.43
Reach 1	3768	Hazel w CC	33.78	270.3	272.04		272.15	0.005732	1.8	26.82	25.16	0.45
Reach 1	3753	100 Year	31.58	270.1	271.85		271.99	0.0088	2.22	21.3	26.09	0.56
Reach 1	3753	Hazel	28.02	270.1	271.78		271.91	0.008695	2.14	19.47	25.45	0.55
Reach 1	3753	Hazel w CC	33.78	270.1	271.89		272.04	0.008842	2.27	22.41	26.44	0.56
Reach 1	3740	100 Year	31.58	270.02	271.72		271.86	0.012036	2.04	20.76	25.43	0.52
Reach 1	3740	Hazel	28.02	270.02	271.65		271.78	0.011901	1.97	19.03	24.42	0.51
Reach 1	3740	Hazel w CC	33.78	270.02	271.76		271.9	0.012063	2.08	21.84	26.01	0.52
Reach 1	3722	100 Year	31.58	269.9	271.49		271.64	0.01104	1.8	21.17	23.6	0.47
Reach 1	3722	Hazel	28.02	269.9	271.44		271.58	0.010408	1.71	19.92	23.37	0.45
Reach 1	3722	Hazel w CC	33.78	269.9	271.53		271.69	0.011322	1.85	21.97	23.75	0.47
Reach 1	3696	100 Year	31.58	269.49	270.99	270.99	271.32	0.012617	3.19	17.27	27.21	0.85
Reach 1	3696	Hazel	28.02	269.49	270.9	270.9	271.24	0.014006	3.21	14.75	24.76	0.88
Reach 1	3696	Hazel w CC	33.78	269.49	271.04	271.04	271.36	0.012393	3.22	18.41	27.64	0.84
Reach 1	3675	100 Year	31.58	269.19	270.6	270.47	270.77	0.01308	2.63	20.59	31.56	0.74
Reach 1	3675	Hazel	28.02	269.19	270.54	270.43	270.71	0.013123	2.55	18.78	30.88	0.74
Reach 1	3675	Hazel w CC	33.78	269.19	270.63	270.51	270.81	0.012882	2.66	21.81	32.2	0.74
Reach 1	3657	100 Year	31.58	268.93	270.23		270.46	0.022781	2.77	17.11	25.61	0.81
Reach 1	3657	Hazel	28.02	268.93	270.16	270.12	270.39	0.023754	2.72	15.42	24.81	0.81
Reach 1	3657	Hazel w CC	33.78	268.93	270.26		270.5	0.023119	2.84	17.88	25.86	0.82
Reach 1	3631	100 Year	31.58	268.5	269.87		270.07	0.010125	2.5	19.52	27.97	0.71
Reach 1	3631	Hazel	28.02	268.5	269.86		270.02	0.008405	2.26	19.13	27.76	0.64
Reach 1	3631	Hazel w CC	33.78	268.5	269.95		270.13	0.008636	2.41	21.75	29.09	0.66

Reach 1	3615	100 Year	30.84	268.13	269.54	269.5	269.81	0.024725	2.72	14.99	27.7	0.78
Reach 1	3615	Hazel	29.01	268.13	269.51	269.48	269.78	0.025008	2.69	14.22	26.23	0.78
Reach 1	3615	Hazel w CC	34.98	268.13	269.62	269.62	269.9	0.022839	2.72	17.39	30.3	0.75
Reach 1	3597	100 Year	30.84	267.71	269.29		269.48	0.011599	2.51	18.16	27.88	0.69
Reach 1	3597	Hazel	29.01	267.71	269.26	269.16	269.45	0.011647	2.48	17.32	27.4	0.69
Reach 1	3597	Hazel w CC	34.98	267.71	269.3	269.21	269.54	0.01432	2.8	18.45	28.03	0.77
Reach 1	3580	100 Year	30.84	267.49	268.98	268.98	269.29	0.009605	2.98	19.17	32.33	0.81
Reach 1	3580	Hazel	29.01	267.49	268.95	268.95	269.25	0.009661	2.94	18.12	31.68	0.81
Reach 1	3580	Hazel w CC	34.98	267.49	269.13		269.37	0.007089	2.75	24.32	35.41	0.71
Reach 1	3559	100 Year	30.84	267.28	268.68		268.78	0.010884	2.12	23.76	34.06	0.59
Reach 1	3559	Hazel	29.01	267.28	268.62		268.73	0.01243	2.2	21.75	33.56	0.62
Reach 1	3559	Hazel w CC	34.98	267.28	269.15		269.19	0.002859	1.33	40.57	37.11	0.32
Reach 1	3537	100 Year	30.84	266.68	268.55		268.62	0.004775	1.48	28.37	31.74	0.36
Reach 1	3537	Hazel	29.01	266.68	268.47		268.54	0.005587	1.55	25.8	31.28	0.38
Reach 1	3537	Hazel w CC	34.98	266.68	269.12		269.14	0.00134	0.94	47.53	35.88	0.2
Reach 1	3506	100 Year	30.84	266.17	268.47		268.52	0.001964	1.33	41.55	34.33	0.29
Reach 1	3506	Hazel	29.01	266.17	268.38		268.43	0.002171	1.36	38.44	33.56	0.3
Reach 1	3506	Hazel w CC	34.98	266.17	269.09		269.11	0.00073	0.96	64.54	40.21	0.19
Reach 1	3481	100 Year	30.84	265.92	268.45		268.48	0.000827	1.23	50.35	34.94	0.25
Reach 1	3481	Hazel	29.01	265.92	268.35		268.39	0.000865	1.23	47.16	33.94	0.25
Reach 1	3481	Hazel w CC	34.98	265.92	269.08		269.1	0.000392	0.99	74.12	40.86	0.18
Reach 1	3465	100 Year	30.84	265.57	268.44		268.47	0.000439	0.98	54.43	32.31	0.19
Reach 1	3465	Hazel	29.01	265.57	268.35		268.37	0.000445	0.96	51.49	31.44	0.19
Reach 1	3465	Hazel w CC	34.98	265.57	269.07		269.09	0.000241	0.83	77.25	39.48	0.14
Reach 1	3443	100 Year	30.84	265.1	268.44		268.46	0.000251	0.68	63.49	32.53	0.12
Reach 1	3443	Hazel	29.01	265.1	268.35		268.36	0.000251	0.66	60.54	31.62	0.12
Reach 1	3443	Hazel w CC	34.98	265.1	269.07		269.08	0.000146	0.58	85.34	36.32	0.1
Reach 1	3419	100 Year	32.06	264.73	268.43		268.45	0.000394	0.68	64.29	29.04	0.11
Reach 1	3419	Hazel	30.38	264.73	268.34		268.36	0.000395	0.67	61.63	28.51	0.11
Reach 1	3419	Hazel w CC	36.64	264.73	269.07		269.08	0.000251	0.6	83.68	32.01	0.09
Reach 1	3389	100 Year	32.06	264.22	268.43		268.44	0.000153	0.58	82.64	31.66	0.09
Reach 1	3389	Hazel	30.38	264.22	268.34		268.35	0.000151	0.57	79.75	31.09	0.09
Reach 1	3389	Hazel w CC	36.64	264.22	269.06		269.07	0.000112	0.55	104	35.45	0.08
Reach 1	3364	100 Year	32.06	263.75	268.43		268.44	0.000103	0.55	98.74	35.41	0.08
Reach 1	3364	Hazel	30.38	263.75	268.34		268.34	0.000101	0.54	95.54	34.47	0.08
Reach 1	3364	Hazel w CC	36.64	263.75	269.06		269.07	0.000075	0.51	122.06	37.44	0.07
Reach 1	3342	100 Year	32.06	263.43	268.43		268.43	0.000076	0.48	111.4	33.78	0.07
Reach 1	3342	Hazel	30.38	263.43	268.34		268.34	0.000074	0.46	108.29	33.59	0.07
Reach 1	3342	Hazel w CC	36.64	263.43	269.06		269.07	0.00006	0.46	133.33	35.28	0.06
Reach 1	3325	100 Year	32.06	263.15	268.43		268.43	0.000068	0.36	113.32	33.9	0.05
Reach 1	3325	Hazel	30.38	263.15	268.33		268.34	0.000066	0.35	110.2	33.74	0.05
Reach 1	3325	Hazel w CC	36.64	263.15	269.06		269.07	0.000054	0.35	135.34	35.2	0.05
Reach 1	3302	100 Year	39.51	262.92	266.11	266.11	267.71	0.030376	4.83	7.67	20.71	0.88
Reach 1	3302	Hazel	38.51	262.92	266.06	266.06	267.63	0.030656	4.8	7.54	20.43	0.88
Reach 1	3302	Hazel w CC	46.54	262.92	266.47	266.47	268.26	0.029064	5.09	8.57	22.12	0.87
Reach 1	Cundles Rd W		Culvert									
Reach 1	3207	100 Year	39.51	260.13	263.31	263.31	264.87	0.008327	5.54	7.13	69.07	1
Reach 1	3207	Hazel	38.51	260.13	263.25	263.25	264.79	0.008383	5.49	7.01	68.59	1
Reach 1	3207	Hazel w CC	46.54	260.13	263.66	263.66	265.41	0.008041	5.85	7.95	73.09	1.01
Reach 1	3177	100 Year	39.51	259.43	261.1	261.1	261.41	0.007058	2.74	22.37	44.24	0.72
Reach 1	3177	Hazel	38.51	259.43	261.09	261.09	261.4	0.007073	2.72	21.71	44.07	0.72
Reach 1	3177	Hazel w CC	46.54	259.43	261.19	261.19	261.51	0.007151	2.86	26.33	46.57	0.74

Reach 1	2489	100 Year	39.69	248.85	251.92		251.92	0.000062	0.43	161.36	73.24	0.08
Reach 1	2489	Hazel	41.37	248.85	251.99		251.99	0.000061	0.43	166.33	73.56	0.08
Reach 1	2489	Hazel w CC	50.07	248.85	252.14		252.14	0.000074	0.49	177.31	74.25	0.09
Reach 1	2438	100 Year	39.69	248.74	251.91		251.92	0.000081	0.48	134.17	66.18	0.09
Reach 1	2438	Hazel	41.37	248.74	251.98		251.99	0.00008	0.49	138.66	66.53	0.09
Reach 1	2438	Hazel w CC	50.07	248.74	252.13		252.14	0.000095	0.55	148.53	67.7	0.1
Reach 1	2406	100 Year	39.69	248.2	251.91		251.92	0.000038	0.3	194.41	86.98	0.05
Reach 1	2406	Hazel	41.37	248.2	251.98		251.98	0.000038	0.3	200.33	87.6	0.05
Reach 1	2406	Hazel w CC	50.07	248.2	252.13		252.13	0.000046	0.34	213.42	90.57	0.06
Reach 1	2387	100 Year	39.69	247.9	251.91		251.92	0.000022	0.32	262.02	108.03	0.05
Reach 1	2387	Hazel	41.37	247.9	251.98		251.98	0.000022	0.32	269.37	108.86	0.05
Reach 1	2387	Hazel w CC	50.07	247.9	252.13		252.13	0.000027	0.37	285.55	110.33	0.06
Reach 1	2374	100 Year	39.69	247.9	251.91		251.92	0.000012	0.24	378.01	178.22	0.04
Reach 1	2374	Hazel	41.37	247.9	251.98		251.98	0.000012	0.24	390.11	179.04	0.04
Reach 1	2374	Hazel w CC	50.07	247.9	252.13		252.13	0.000014	0.27	416.68	180.97	0.04
Reach 1	2358	100 Year	39.69	247.92	251.91		251.92	0.000009	0.14	432.87	195.96	0.02
Reach 1	2358	Hazel	41.37	247.92	251.98		251.98	0.000009	0.15	446.2	197.47	0.02
Reach 1	2358	Hazel w CC	50.07	247.92	252.13		252.13	0.000011	0.17	475.6	201.43	0.03
Reach 1	2303	100 Year	39.69	246.89	251.91		251.91	0.000005	0.17	514.72	178.75	0.02
Reach 1	2303	Hazel	41.37	246.89	251.98		251.98	0.000005	0.17	526.87	179.72	0.02
Reach 1	2303	Hazel w CC	50.07	246.89	252.13		252.13	0.000006	0.19	553.58	182.08	0.03
Reach 1	2242	100 Year	46.38	246.02	251.91		251.91	0.000005	0.15	554.89	159.5	0.02
Reach 1	2242	Hazel	48.83	246.02	251.98		251.98	0.000005	0.15	565.71	159.85	0.02
Reach 1	2242	Hazel w CC	59.13	246.02	252.13		252.13	0.000007	0.18	589.35	160.84	0.02
Reach 1	2203	100 Year	46.38	245.78	251.91		251.91	0.000004	0.13	576.96	153.58	0.02
Reach 1	2203	Hazel	48.83	245.78	251.98		251.98	0.000004	0.14	587.39	154.42	0.02
Reach 1	2203	Hazel w CC	59.13	245.78	252.13		252.13	0.000006	0.16	610.24	155.49	0.02
Reach 1	2170	100 Year	46.38	245.35	251.91		251.91	0.000003	0.13	651.16	153.69	0.02
Reach 1	2170	Hazel	48.83	245.35	251.98		251.98	0.000003	0.14	661.59	154.13	0.02
Reach 1	2170	Hazel w CC	59.13	245.35	252.13		252.13	0.000004	0.16	684.36	154.96	0.02
Reach 1	2113	100 Year	50.22	245.24	251.82	248.47	251.88	0.000732	1.55	106.48	235.75	0.27
Reach 1	2113	Hazel	54.47	245.24	251.91	248.63	251.96	0.000603	1.44	127.98	236.31	0.25
Reach 1	2113	Hazel w CC	65.99	245.24	252.08	249.07	252.11	0.000483	1.33	167.96	237.86	0.22
Reach 1	Reservoir Embank		Culvert									
Reach 1	2029	100 Year	50.22	242.98	251.79		251.88	0.000347	1.5	97.65	210.65	0.22
Reach 1	2029	Hazel	54.47	242.98	251.86		251.95	0.00034	1.5	113.83	210.89	0.21
Reach 1	2029	Hazel w CC	65.99	242.98	252.02		252.1	0.000339	1.53	147.88	211.6	0.22
Reach 1	2023	100 Year	50.22	242.94	251.81		251.81	0.000004	0.25	544.88	208.05	0.03
Reach 1	2023	Hazel	54.47	242.94	251.88		251.88	0.000005	0.26	560.56	208.54	0.03
Reach 1	2023	Hazel w CC	65.99	242.94	252.04		252.04	0.000006	0.3	593.83	209.74	0.03
Reach 1	2018	100 Year	50.22	242.87	251.8	245.96	251.81	0.000044	0.58	300.67	203.48	0.08
Reach 1	2018	Hazel	54.47	242.87	251.88	246.13	251.88	0.000046	0.6	316	204	0.08
Reach 1	2018	Hazel w CC	65.99	242.87	252.03	246.57	252.04	0.000052	0.65	348.44	205.05	0.09
Reach 1	Hwy 400		Culvert									
Reach 1	1930	100 Year	50.22	242.22	245.33	245.33	246.86	0.008411	5.49	9.14	104.45	1
Reach 1	1930	Hazel	54.47	242.22	245.5	245.5	247.12	0.008233	5.64	9.66	107.88	1
Reach 1	1930	Hazel w CC	65.99	242.22	245.93	245.93	247.78	0.00793	6.02	10.96	114.18	1.01
Reach 1	1845	100 Year	50.22	241.85	242.69		242.74	0.006125	1.53	50.27	87.06	0.56
Reach 1	1845	Hazel	54.47	241.85	242.72		242.77	0.006162	1.57	52.82	87.52	0.57
Reach 1	1845	Hazel w CC	65.99	241.85	242.81		242.88	0.005611	1.62	61.41	88.91	0.55
Reach 1	1754	100 Year	50.22	240.25	241.85	241.85	242.05	0.008942	2.85	41.64	86.78	0.73

Reach 1	1754	Hazel	54.47	240.25	241.88	241.88	242.08	0.008923	2.89	44.52	87.15	0.74
Reach 1	1754	Hazel w CC	65.99	240.25	241.93	241.93	242.16	0.01061	3.21	48.4	87.75	0.81
Reach 1	1718	100 Year	50.22	239.71	241.37		241.4	0.003841	1.21	71.18	93.83	0.31
Reach 1	1718	Hazel	54.47	239.71	241.4		241.43	0.003925	1.24	74.51	94.22	0.31
Reach 1	1718	Hazel w CC	65.99	239.71	241.5		241.53	0.004057	1.31	83.48	95.27	0.32
Reach 1	1679	100 Year	50.22	239.11	241.26	240.74	241.28	0.001993	0.93	81.37	98.76	0.26
Reach 1	1679	Hazel	54.47	239.11	241.29	240.76	241.32	0.002086	0.96	84.5	99.32	0.27
Reach 1	1679	Hazel w CC	65.99	239.11	241.38	240.81	241.41	0.002265	1.04	93.13	100.81	0.28
Reach 1	0	Rail Trail		Culvert								
Reach 1	1662	100 Year	50.22	239.12	240.78	240.78	240.95	0.018835	3.12	35.19	82.11	0.94
Reach 1	1662	Hazel	54.47	239.12	240.8	240.8	240.97	0.019348	3.2	36.83	82.48	0.95
Reach 1	1662	Hazel w CC	65.99	239.12	240.84	240.84	241.04	0.021046	3.43	40.66	84.07	1
Reach 1	1612	100 Year	50.22	238.22	239.8		239.83	0.001717	0.93	70.26	62.85	0.24
Reach 1	1612	Hazel	54.47	238.22	239.88		239.91	0.001654	0.95	74.9	63.23	0.24
Reach 1	1612	Hazel w CC	65.99	238.22	240		240.03	0.001789	1.03	82.56	63.69	0.25
Reach 1	1577	100 Year	50.22	237.68	239.76		239.78	0.001117	1.11	72.55	52.68	0.25
Reach 1	1577	Hazel	54.47	237.68	239.83		239.86	0.001121	1.14	76.44	53.1	0.26
Reach 1	1577	Hazel w CC	65.99	237.68	239.94		239.98	0.001307	1.27	82.47	53.76	0.28
Reach 1	1553	100 Year	50.22	237.28	239.72	238.58	239.75	0.001342	0.97	62.9	43.39	0.2
Reach 1	1553	Hazel	54.47	237.28	239.79	238.62	239.83	0.001366	0.99	66.05	43.52	0.2
Reach 1	1553	Hazel w CC	65.99	237.28	239.9	238.71	239.94	0.001642	1.12	70.6	43.74	0.23
Reach 1	1509	100 Year	49.41	236.23	239.54	239.11	239.65	0.002092	1.93	47.95	57.77	0.45
Reach 1	1509	Hazel	55.57	236.23	239.61	239.17	239.72	0.002174	2.01	51.74	59.52	0.46
Reach 1	1509	Hazel w CC	67.28	236.23	239.7	239.29	239.82	0.002385	2.17	56.93	61	0.48
Reach 1		Wellington St W		Culvert								
Reach 1	1447	100 Year	49.41	235.29	238.73	238.73	238.89	0.002646	2.49	37.27	82.73	0.52
Reach 1	1447	Hazel	55.57	235.29	238.75	238.75	238.93	0.002972	2.65	38.96	82.84	0.55
Reach 1	1447	Hazel w CC	67.28	235.29	238.8	238.8	238.99	0.003243	2.81	43.35	83.15	0.58
Reach 1	1412.792	100 Year	49.41	234.63	237.03	237.03	237.2	0.012452	2.63	30.88	73.57	0.6
Reach 1	1412.792	Hazel	55.57	234.63	237.06	237.06	237.24	0.012934	2.71	33.29	76.84	0.62
Reach 1	1412.792	Hazel w CC	67.28	234.63	237.12	237.12	237.32	0.013402	2.81	37.91	85.34	0.63
Reach 1		Thomson St		Culvert								
Reach 1	1330	100 Year	49.41	232.58	234.47	234.47	234.66	0.012874	2.88	31.57	67.74	0.78
Reach 1	1330	Hazel	55.57	232.58	234.51	234.51	234.71	0.012551	2.9	34.92	73.58	0.78
Reach 1	1330	Hazel w CC	67.28	232.58	234.59	234.59	234.8	0.012596	3.02	40.96	77.57	0.78
Reach 1	1309	100 Year	49.41	232.37	233.99	233.99	234.2	0.018115	2.81	28.13	61.72	0.83
Reach 1	1309	Hazel	55.57	232.37	234.03	234.03	234.25	0.017722	2.85	31.06	65.56	0.83
Reach 1	1309	Hazel w CC	67.28	232.37	234.12	234.12	234.33	0.016659	2.89	36.71	74.89	0.81
Reach 1	1289	100 Year	49.41	232.04	233.79	233.79	233.99	0.004876	1.49	30.36	75.58	0.43
Reach 1	1289	Hazel	55.57	232.04	233.82	233.82	234.04	0.004863	1.52	33.24	75.91	0.43
Reach 1	1289	Hazel w CC	67.28	232.04	233.89	233.89	234.12	0.004818	1.57	38.34	76.52	0.44
Reach 1	1271	100 Year	49.41	231.68	233.29	233.29	233.52	0.004315	1.6	26.39	65.53	0.46
Reach 1	1271	Hazel	55.57	231.68	233.33	233.33	233.57	0.004358	1.64	29.03	66.17	0.47
Reach 1	1271	Hazel w CC	67.28	231.68	233.4	233.4	233.67	0.004442	1.72	33.62	66.68	0.48
Reach 1	1250	100 Year	49.41	231.14	232.81	232.81	233.03	0.009357	2.21	28.65	69.7	0.63
Reach 1	1250	Hazel	55.57	231.14	232.84	232.84	233.08	0.009851	2.3	30.34	70.02	0.65
Reach 1	1250	Hazel w CC	67.28	231.14	232.91	232.91	233.18	0.008916	2.27	35.32	71.67	0.62
Reach 1	1226	100 Year	49.41	230.79	232.53	232.53	232.71	0.00817	2.53	29.64	71.58	0.67
Reach 1	1226	Hazel	55.57	230.79	232.57	232.57	232.75	0.007666	2.5	32.8	75.69	0.66
Reach 1	1226	Hazel w CC	67.28	230.79	232.63	232.63	232.82	0.007762	2.58	37.08	78.73	0.67

Reach 1	1204	100 Year	49.41	230.52	232.06	232.06	232.25	0.006687	2.25	26.32	66.9	0.71
Reach 1	1204	Hazel	55.57	230.52	232.09	232.09	232.3	0.007058	2.35	28.17	69.4	0.74
Reach 1	1204	Hazel w CC	67.28	230.52	232.16	232.16	232.39	0.006773	2.4	33.15	74.75	0.73
Reach 1	Eccles St N @ So		Culvert									
Reach 1	1177	100 Year	49.41	230.04	231.7	231.7	231.87	0.007792	2.03	27.23	79.17	0.67
Reach 1	1177	Hazel	55.57	230.04	231.73	231.73	231.92	0.007702	2.06	29.66	83.77	0.67
Reach 1	1177	Hazel w CC	67.28	230.04	231.78	231.78	232	0.007341	2.09	34.66	91.32	0.66
Reach 1	1158	100 Year	49.41	229.69	231.29	231.29	231.52	0.004262	1.46	26.05	61.73	0.46
Reach 1	1158	Hazel	55.57	229.69	231.32	231.32	231.57	0.004271	1.49	28.34	62.12	0.46
Reach 1	1158	Hazel w CC	67.28	229.69	231.4	231.4	231.67	0.00403	1.52	33.15	64.46	0.46
Reach 1	1144	100 Year	49.41	229.45	230.67	230.67	230.84	0.009267	1.89	27.09	77.15	0.65
Reach 1	1144	Hazel	55.57	229.45	230.7	230.7	230.88	0.009291	1.94	29.3	78.08	0.65
Reach 1	1144	Hazel w CC	67.28	229.45	230.75	230.75	230.96	0.00923	2.01	33.36	78.66	0.66
Reach 1	1114	100 Year	49.67	228.97	230.21	230.16	230.38	0.013624	2.48	30.31	61.99	0.8
Reach 1	1114	Hazel	55.96	228.97	230.28	230.2	230.44	0.011888	2.41	34.64	65.82	0.75
Reach 1	1114	Hazel w CC	67.76	228.97	230.33	230.27	230.52	0.01365	2.66	37.75	66.69	0.81
Reach 1	1087	100 Year	49.67	228.16	229.74	229.74	229.96	0.016677	2.74	26.48	56.4	0.83
Reach 1	1087	Hazel	55.96	228.16	229.75	229.75	230.01	0.019234	2.97	27.48	57.45	0.89
Reach 1	1087	Hazel w CC	67.76	228.16	229.86	229.86	230.11	0.016202	2.9	33.87	60.48	0.83
Reach 1	1056	100 Year	49.67	227.65	229.14	229.14	229.38	0.011845	3.01	29.34	49.96	0.83
Reach 1	1056	Hazel	55.96	227.65	229.17	229.17	229.44	0.012896	3.19	31.13	51.09	0.87
Reach 1	1056	Hazel w CC	67.76	227.65	229.24	229.24	229.56	0.014543	3.51	35.15	62.25	0.93
Reach 1	1013	100 Year	49.67	226.81	228.87		228.95	0.001926	1.54	50.59	60.39	0.38
Reach 1	1013	Hazel	55.96	226.81	228.94		229.02	0.001975	1.6	55.05	60.88	0.38
Reach 1	1013	Hazel w CC	67.76	226.81	229.05		229.15	0.002136	1.73	61.91	62.58	0.4
Reach 1	993	100 Year	49.67	226.49	228.53	228.53	228.8	0.006482	2.93	32.13	51.37	0.74
Reach 1	993	Hazel	55.96	226.49	228.57	228.57	228.86	0.006911	3.08	34.41	56.73	0.76
Reach 1	993	Hazel w CC	67.76	226.49	228.67	228.67	228.98	0.007128	3.25	39.43	64.29	0.78
Reach 1	Donald St		Culvert									
Reach 1	953	100 Year	50.67	225.54	228.19	228.19	228.34	0.002828	2.32	39.13	110.23	0.47
Reach 1	953	Hazel	58.03	225.54	228.22	228.22	228.39	0.003118	2.46	42.59	110.33	0.49
Reach 1	953	Hazel w CC	70.3	225.54	228.27	228.27	228.45	0.003467	2.63	48.27	110.49	0.52
Reach 1	921	100 Year	50.67	224.89	227.49	226.52	227.51	0.000714	0.82	96.63	82.13	0.17
Reach 1	921	Hazel	58.03	224.89	227.61	226.63	227.62	0.000707	0.84	106.02	82.79	0.17
Reach 1	921	Hazel w CC	70.3	224.89	227.8	226.71	227.82	0.000675	0.86	122.5	89.95	0.16
Reach 1	875	100 Year	50.67	224.27	227.35	226.99	227.44	0.002191	1.7	40	45.27	0.31
Reach 1	875	Hazel	58.03	224.27	227.48	227.15	227.56	0.00184	1.6	45.66	45.5	0.29
Reach 1	875	Hazel w CC	70.3	224.27	227.68	227.22	227.76	0.001421	1.46	55.01	46.58	0.26
Reach 1	866	100 Year	50.67	224.21	226.89	226.89	227.36	0.007795	2.92	16.96	16.65	0.58
Reach 1	866	Hazel	58.03	224.21	227.01	227.01	227.48	0.00796	3.04	19.16	21.85	0.59
Reach 1	866	Hazel w CC	70.3	224.21	227.13	227.13	227.67	0.007811	3.1	21.89	23.28	0.59
Reach 1	848	100 Year	50.67	223.93	226.89		226.95	0.001552	1.61	48.15	45.27	0.3
Reach 1	848	Hazel	58.03	223.93	226.42		226.66	0.006338	2.89	30.97	31.97	0.6
Reach 1	848	Hazel w CC	70.3	223.93	226.73		226.91	0.004213	2.56	41.72	40.01	0.5
Reach 1	816	100 Year	50.67	223.12	225.47	225.47	226.44	0.015588	4.49	12	28.88	0.97
Reach 1	816	Hazel	58.03	223.12	226.31	226.15	226.49	0.002707	2.32	44.2	61.21	0.43
Reach 1	816	Hazel w CC	70.3	223.12	226.68	226.24	226.78	0.001349	1.78	69.25	72.55	0.31
Reach 1	Eccles St N		Culvert									
Reach 1	788	100 Year	50.84	222.94	224.98	224.98	226.01	0.004943	2.47	15.39	19.85	0.56
Reach 1	788	Hazel	58.66	222.94	225.19	225.19	226.32	0.004668	2.56	17.03	20.93	0.55
Reach 1	788	Hazel w CC	71.02	222.94	225.47	225.47	226.78	0.004479	2.71	19.29	33.32	0.55

Reach 1	762	100 Year	50.84	222.55	224.47	224.41	224.75	0.008638	2.89	22.86	30.94	0.69
Reach 1	762	Hazel	58.66	222.55	224.58	224.5	224.86	0.007926	2.88	26.09	31.56	0.67
Reach 1	762	Hazel w CC	71.02	222.55	224.71	224.61	225.01	0.007358	2.9	30.35	32.3	0.65
Reach 1	735	100 Year	50.84	222.44	224.04	224.04	224.42	0.016627	3.45	19.87	26.05	0.88
Reach 1	735	Hazel	58.66	222.44	224.12	224.12	224.53	0.017076	3.62	21.98	26.61	0.9
Reach 1	735	Hazel w CC	71.02	222.44	224.25	224.24	224.69	0.016482	3.75	25.71	27.34	0.9
Reach 1	707	100 Year	50.84	221.96	224.02		224.23	0.000769	2.46	25.99	21.85	0.56
Reach 1	707	Hazel	58.66	221.96	224.1		224.34	0.000856	2.66	27.76	22.44	0.59
Reach 1	707	Hazel w CC	71.02	221.96	224.29		224.55	0.000856	2.82	32.04	23.88	0.6
Reach 1	675	100 Year	50.84	221.75	223.89		224.18	0.0016	2.96	26.56	21.87	0.66
Reach 1	675	Hazel	58.66	221.75	223.89		224.28	0.002116	3.41	26.63	21.91	0.75
Reach 1	675	Hazel w CC	71.02	221.75	223.87	223.83	224.46	0.003276	4.2	26.07	21.63	0.94
Reach 1	641	100 Year	50.84	221.5	223.93		224.08	0.000826	1.61	30.63	25.69	0.34
Reach 1	641	Hazel	58.66	221.5	223.94		224.14	0.001054	1.83	31.1	25.76	0.39
Reach 1	641	Hazel w CC	71.02	221.5	223.96		224.25	0.001478	2.18	31.6	25.84	0.46
Reach 1	611	100 Year	50.84	221.24	223.94		224.04	0.000376	1.51	39.47	33.18	0.3
Reach 1	611	Hazel	58.66	221.24	223.96		224.09	0.000474	1.7	40.23	33.23	0.34
Reach 1	611	Hazel w CC	71.02	221.24	223.99		224.17	0.00065	2.01	41.19	33.28	0.4
Reach 1	581	100 Year	50.84	220.83	223.76	223.76	223.97	0.000961	2.77	34.47	78.99	0.64
Reach 1	581	Hazel	58.66	220.83	223.82	223.82	224.03	0.001012	2.87	38.95	84.49	0.66
Reach 1	581	Hazel w CC	71.02	220.83	223.87	223.87	224.11	0.001185	3.14	43.38	87.97	0.71
Reach 1	Dunlop St		Culvert									
Reach 1	503	100 Year	50.84	219.88	223.34	223.34	223.65	0.015054	2.51	21.15	39.48	1.02
Reach 1	503	Hazel	58.66	219.88	223.4	223.4	223.73	0.014165	2.6	23.73	41.27	1
Reach 1	503	Hazel w CC	71.02	219.88	223.49	223.49	223.86	0.013448	2.74	27.39	42.45	1
Reach 1	466	100 Year	50.84	219.34	222.06		222.17	0.001446	1.5	34.82	23.28	0.37
Reach 1	466	Hazel	58.66	219.34	222.09		222.23	0.001824	1.69	35.51	23.49	0.42
Reach 1	466	Hazel w CC	71.02	219.34	222.14		222.34	0.002425	1.98	36.77	23.84	0.48
Reach 1	429	100 Year	50.84	218.95	222.07	220.44	222.12	0.000356	0.94	54.04	27.83	0.21
Reach 1	429	Hazel	58.66	218.95	222.11	220.55	222.16	0.000456	1.07	54.96	28.76	0.24
Reach 1	429	Hazel w CC	71.02	218.95	222.16	220.7	222.24	0.00063	1.26	56.7	30.57	0.28
Reach 1	373	100 Year	29.84	221.54	222.02	221.97	222.09	0.008016	1.48	26.07	91.93	0.71
Reach 1	373	Hazel	34.42	221.54	222.07	221.99	222.14	0.006547	1.43	30.48	93.18	0.65
Reach 1	373	Hazel w CC	41.67	221.54	222.14	222.03	222.21	0.005037	1.38	37.51	95.97	0.59
Reach 1	328	100 Year	29.84	221.54	221.97	221.77	222	0.002298	0.69	39.07	100.48	0.37
Reach 1	328	Hazel	34.42	221.54	222.03	221.8	222.06	0.001995	0.71	44.78	101.43	0.35
Reach 1	328	Hazel w CC	41.67	221.54	222.11	221.83	222.14	0.00169	0.74	53.36	103.46	0.33
Reach 1	311	100 Year	51.6	220.84	221.68	221.68	221.88	0.009532	2.24	27.68	67.72	0.84
Reach 1	311	Hazel	60.23	220.84	221.74	221.74	221.95	0.009287	2.33	31.58	70.46	0.84
Reach 1	311	Hazel w CC	72.86	220.84	221.79	221.79	222.03	0.010033	2.53	35.53	71.98	0.89
Reach 1	280	100 Year	51.6	221.04	221.27	221.27	221.51	0.012375	0.61	24.93	61.11	0.67
Reach 1	280	Hazel	60.23	221.04	221.35	221.35	221.58	0.010436	0.81	30.1	66.88	0.68
Reach 1	280	Hazel w CC	72.86	221.04	221.42	221.42	221.67	0.010094	1.04	35.1	68.48	0.71
Reach 1	248	100 Year	51.6	220.53	220.86		220.91	0.001804	0.4	52.69	84.23	0.29
Reach 1	248	Hazel	60.23	220.53	220.91		220.97	0.001955	0.5	57.17	85.28	0.32
Reach 1	248	Hazel w CC	72.86	220.53	220.99		221.06	0.00201	0.61	64.64	87.06	0.34
Reach 1	217	100 Year	51.6	219.55	220.77	220.52	220.84	0.002757	1.45	47.49	79	0.47
Reach 1	217	Hazel	60.23	219.55	220.82	220.56	220.89	0.003001	1.56	50.96	79.36	0.5
Reach 1	217	Hazel w CC	72.86	219.55	220.9	220.62	220.99	0.002947	1.63	57.77	80.08	0.5
Reach 1	170	100 Year	51.6	219.9	220.41	220.41	220.6	0.016203	2.04	27.2	74.32	1
Reach 1	170	Hazel	60.23	219.9	220.49	220.44	220.66	0.011784	1.96	33.45	78.72	0.88

Reach 1	170	Hazel w CC	72.86	219.9	220.52	220.52	220.74	0.014119	2.22	35.67	79.42	0.97
Reach 1	116	100 Year	51.6	218.7	219.94	219.7	220.14	0.004726	2.16	27	51.08	0.64
Reach 1	116	Hazel	60.23	218.7	219.86	219.79	220.2	0.008488	2.76	23.81	28.2	0.84
Reach 1	116	Hazel w CC	72.86	218.7	220.11	220.11	220.33	0.004775	2.37	41.18	121.2	0.66
Reach 1	80	100 Year	51.75	218.68	219.94	219.49	219.99	0.001273	1.13	58.27	89.91	0.33
Reach 1	80	Hazel	60.69	218.68	219.83	219.56	219.92	0.00281	1.57	48.69	82.56	0.49
Reach 1	80	Hazel w CC	73.53	218.68	219.89	219.68	220	0.00321	1.73	53.19	87.4	0.52
Reach 1	39	100 Year	51.75	217.7	219.92	219.07	219.95	0.000559	1.04	88.53	188.48	0.23
Reach 1	39	Hazel	60.69	217.7	219.76	219.2	219.85	0.001357	1.53	59.48	156.61	0.35
Reach 1	39	Hazel w CC	73.53	217.7	219.77	219.35	219.89	0.00192	1.83	61.34	165.53	0.42
Reach 1	24	100 Year	51.75	217.24	219.91	219.03	219.94	0.000585	0.97	91.41	150.64	0.24
Reach 1	24	Hazel	60.69	217.24	219.61	219.61	219.8	0.004048	2.24	47.16	143.56	0.61
Reach 1	24	Hazel w CC	73.53	217.24	219.72	219.68	219.86	0.003123	2.07	63.03	147.65	0.54
Reach 1	Pedestrian Bridg		Culvert									
Reach 1	9	100 Year	51.75	217.24	219.04	219.04	219.93	0.034565	4.18	12.38	19.62	1
Reach 1	9	Hazel	60.69	217.24	219.52	219.52	219.63	0.011832	1.72	45.78	159.95	0.52
Reach 1	9	Hazel w CC	73.53	217.24	219.55	219.55	219.68	0.01276	1.82	50.74	160.17	0.54
Reach 1	3	100 Year	51.75	217.3	219.13	217.53	219.13	0.00002	0.19	274.07	149.79	0.05
Reach 1	3	Hazel	60.69	217.3	219.13	217.56	219.13	0.000028	0.23	274.07	149.79	0.05
Reach 1	3	Hazel w CC	73.53	217.3	219.13	217.59	219.13	0.000041	0.27	274.07	149.79	0.06

Kidds Creek - Calibration -50% Expansion / Contraction

Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
			(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
Reach 1	3898	100 Year	31.38	271.92	273.51		273.78	0.024559	2.61	14.02	13.44	0.67
Reach 1	3898	Hazel	27.72	271.92	273.42		273.68	0.024497	2.51	12.86	13.05	0.66
Reach 1	3898	Hazel w CC	33.41	271.92	273.56		273.84	0.024523	2.66	14.66	13.64	0.67
Reach 1	3879	100 Year	31.38	271.55	273.41		273.55	0.005985	1.91	21.12	18.37	0.47
Reach 1	3879	Hazel	27.72	271.55	273.31		273.45	0.00596	1.83	19.4	17.98	0.47
Reach 1	3879	Hazel w CC	33.41	271.55	273.46		273.61	0.006005	1.95	22.05	18.61	0.47
Reach 1	3861	100 Year	31.38	271.25	273.18		273.41	0.01239	2.03	15.89	14.04	0.48
Reach 1	3861	Hazel	27.72	271.25	273.11		273.31	0.011582	1.91	14.87	13.58	0.46
Reach 1	3861	Hazel w CC	33.41	271.25	273.22		273.46	0.012823	2.1	16.44	14.32	0.49
Reach 1	3843	100 Year	31.38	271.16	273.07		273.23	0.007168	1.7	22.98	26.05	0.41
Reach 1	3843	Hazel	27.72	271.16	272.99		273.13	0.007252	1.66	20.77	25.07	0.4
Reach 1	3843	Hazel w CC	33.41	271.16	273.12		273.28	0.007106	1.72	24.21	26.56	0.41
Reach 1	3834	100 Year	31.58	271.11	272.73	272.73	273.13	0.018202	2.79	13.97	18.77	0.73
Reach 1	3834	Hazel	28.02	271.11	272.64	272.64	273.04	0.019172	2.74	12.35	17.43	0.74
Reach 1	3834	Hazel w CC	33.78	271.11	272.79	272.79	273.18	0.017512	2.8	15.02	19.44	0.72
Reach 1	3822	100 Year	31.58	270.92	272.78		272.87	0.006053	1.39	25.73	23.5	0.34
Reach 1	3822	Hazel	28.02	270.92	272.69		272.78	0.005817	1.32	23.71	22.08	0.33
Reach 1	3822	Hazel w CC	33.78	270.92	272.83		272.93	0.006155	1.43	26.92	24.13	0.34
Reach 1	3803	100 Year	31.58	270.73	272.55		272.72	0.010267	1.83	19.73	21.16	0.44
Reach 1	3803	Hazel	28.02	270.73	272.47		272.63	0.009832	1.74	18.18	19.83	0.43
Reach 1	3803	Hazel w CC	33.78	270.73	272.59		272.78	0.010595	1.89	20.67	22.2	0.45
Reach 1	3786	100 Year	31.58	270.57	272.07	272.07	272.43	0.033376	2.91	12.51	19.06	0.79
Reach 1	3786	Hazel	28.02	270.57	272	272	272.35	0.03326	2.81	11.25	17.9	0.78
Reach 1	3786	Hazel w CC	33.78	270.57	272.12	272.12	272.48	0.03282	2.95	13.4	19.95	0.78
Reach 1	3768	100 Year	31.58	270.3	271.99		272.09	0.005737	1.76	25.61	24.91	0.44
Reach 1	3768	Hazel	28.02	270.3	271.92		272.01	0.00558	1.69	23.83	24.57	0.43
Reach 1	3768	Hazel w CC	33.78	270.3	272.03		272.14	0.005831	1.81	26.66	25.13	0.45
Reach 1	3753	100 Year	31.58	270.1	271.85		271.99	0.008915	2.23	21.2	26.06	0.56
Reach 1	3753	Hazel	28.02	270.1	271.78		271.91	0.008823	2.16	19.36	25.4	0.55
Reach 1	3753	Hazel w CC	33.78	270.1	271.89		272.03	0.008961	2.28	22.29	26.41	0.56
Reach 1	3740	100 Year	31.58	270.02	271.72		271.85	0.012245	2.06	20.63	25.35	0.52
Reach 1	3740	Hazel	28.02	270.02	271.65		271.78	0.012131	1.99	18.89	24.34	0.51
Reach 1	3740	Hazel w CC	33.78	270.02	271.76		271.9	0.012284	2.1	21.69	25.95	0.52
Reach 1	3722	100 Year	31.58	269.9	271.48		271.64	0.011606	1.84	20.82	23.54	0.48
Reach 1	3722	Hazel	28.02	269.9	271.42		271.57	0.011035	1.75	19.53	23.29	0.46
Reach 1	3722	Hazel w CC	33.78	269.9	271.51		271.68	0.011874	1.88	21.62	23.69	0.48
Reach 1	3696	100 Year	31.58	269.49	270.99	270.99	271.32	0.012617	3.19	17.27	27.21	0.85
Reach 1	3696	Hazel	28.02	269.49	270.9	270.9	271.24	0.014006	3.21	14.75	24.76	0.88
Reach 1	3696	Hazel w CC	33.78	269.49	271.04	271.04	271.36	0.012393	3.22	18.41	27.64	0.84
Reach 1	3675	100 Year	31.58	269.19	270.6	270.47	270.77	0.013117	2.63	20.57	31.55	0.74
Reach 1	3675	Hazel	28.02	269.19	270.54	270.43	270.71	0.012928	2.54	18.88	30.9	0.73
Reach 1	3675	Hazel w CC	33.78	269.19	270.63	270.51	270.81	0.012915	2.66	21.79	32.19	0.74
Reach 1	3657	100 Year	31.58	268.93	270.21	270.18	270.46	0.024238	2.83	16.72	25.46	0.83
Reach 1	3657	Hazel	28.02	268.93	270.14	270.12	270.39	0.026202	2.81	14.87	24.58	0.85
Reach 1	3657	Hazel w CC	33.78	268.93	270.24	270.21	270.5	0.024848	2.91	17.41	25.71	0.84
Reach 1	3631	100 Year	31.58	268.5	269.88		270.08	0.009696	2.46	19.84	28.14	0.69
Reach 1	3631	Hazel	28.02	268.5	269.85		270.02	0.008491	2.27	19.05	27.72	0.65
Reach 1	3631	Hazel w CC	33.78	268.5	269.94		270.13	0.008974	2.44	21.46	29	0.67

Reach 1	3615	100 Year	30.84	268.13	269.51	269.5	269.82	0.028535	2.87	14.16	26.11	0.83
Reach 1	3615	Hazel	29.01	268.13	269.49	269.48	269.78	0.026884	2.77	13.81	25.62	0.8
Reach 1	3615	Hazel w CC	34.98	268.13	269.62	269.62	269.9	0.022839	2.72	17.39	30.3	0.75
Reach 1	3597	100 Year	30.84	267.71	269.28		269.48	0.012135	2.55	17.86	27.71	0.71
Reach 1	3597	Hazel	29.01	267.71	269.24	269.16	269.44	0.01248	2.54	16.87	27.15	0.72
Reach 1	3597	Hazel w CC	34.98	267.71	269.34		269.55	0.011996	2.62	19.71	28.65	0.71
Reach 1	3580	100 Year	30.84	267.49	268.98	268.98	269.29	0.009605	2.98	19.17	32.33	0.81
Reach 1	3580	Hazel	29.01	267.49	268.95	268.95	269.25	0.009661	2.94	18.12	31.68	0.81
Reach 1	3580	Hazel w CC	34.98	267.49	269.05	269.05	269.36	0.009554	3.07	21.45	33.94	0.82
Reach 1	3559	100 Year	30.84	267.28	268.59		268.73	0.016068	2.46	20.76	33.32	0.71
Reach 1	3559	Hazel	29.01	267.28	268.56		268.71	0.015788	2.41	20.01	33.13	0.7
Reach 1	3559	Hazel w CC	34.98	267.28	268.75		268.86	0.010473	2.16	26.24	34.6	0.58
Reach 1	3537	100 Year	30.84	266.68	268.26		268.41	0.013921	2.24	19.57	29.27	0.59
Reach 1	3537	Hazel	29.01	266.68	268.21		268.37	0.015277	2.3	18.15	28.89	0.61
Reach 1	3537	Hazel w CC	34.98	266.68	268.64		268.71	0.004624	1.5	31.26	32.37	0.35
Reach 1	3506	100 Year	30.84	266.17	268.02		268.13	0.006157	2.01	27.17	29.76	0.5
Reach 1	3506	Hazel	29.01	266.17	267.94		268.06	0.006937	2.06	24.79	28.84	0.52
Reach 1	3506	Hazel w CC	34.98	266.17	268.57		268.62	0.002033	1.39	44.86	35.23	0.3
Reach 1	3481	100 Year	30.84	265.92	267.96		268.04	0.002208	1.74	34.44	30.58	0.4
Reach 1	3481	Hazel	29.01	265.92	267.87		267.96	0.002396	1.76	31.84	29.94	0.41
Reach 1	3481	Hazel w CC	34.98	265.92	268.54		268.58	0.000897	1.32	53.67	35.5	0.26
Reach 1	3465	100 Year	30.84	265.57	267.97		268.01	0.000972	1.29	40.03	28.71	0.27
Reach 1	3465	Hazel	29.01	265.57	267.89		267.93	0.001008	1.28	37.64	27.93	0.27
Reach 1	3465	Hazel w CC	34.98	265.57	268.54		268.57	0.000496	1.06	57.68	33.67	0.2
Reach 1	3443	100 Year	30.84	265.1	267.97		268	0.000499	0.86	49.03	29.22	0.17
Reach 1	3443	Hazel	29.01	265.1	267.89		267.91	0.000506	0.85	46.6	28.59	0.17
Reach 1	3443	Hazel w CC	34.98	265.1	268.54		268.56	0.000283	0.73	66.82	33.37	0.13
Reach 1	3419	100 Year	32.06	264.73	267.96		267.98	0.000736	0.84	51.06	26.71	0.15
Reach 1	3419	Hazel	30.38	264.73	267.87		267.9	0.000748	0.83	48.82	26.33	0.15
Reach 1	3419	Hazel w CC	36.64	264.73	268.53		268.55	0.000455	0.74	67.21	29.51	0.12
Reach 1	3389	100 Year	32.06	264.22	267.95		267.97	0.000257	0.69	68.08	29.69	0.12
Reach 1	3389	Hazel	30.38	264.22	267.87		267.88	0.000255	0.68	65.59	29.39	0.12
Reach 1	3389	Hazel w CC	36.64	264.22	268.53		268.54	0.000181	0.64	85.86	32.35	0.1
Reach 1	3364	100 Year	32.06	263.75	267.95		267.96	0.000166	0.65	82.71	32.4	0.1
Reach 1	3364	Hazel	30.38	263.75	267.87		267.88	0.000163	0.63	79.99	32.04	0.1
Reach 1	3364	Hazel w CC	36.64	263.75	268.53		268.54	0.000122	0.61	102.4	36.25	0.09
Reach 1	3342	100 Year	32.06	263.43	267.95		267.96	0.000118	0.56	95.56	32.8	0.08
Reach 1	3342	Hazel	30.38	263.43	267.87		267.87	0.000115	0.54	92.8	32.58	0.08
Reach 1	3342	Hazel w CC	36.64	263.43	268.53		268.54	0.000091	0.53	114.85	34	0.08
Reach 1	3325	100 Year	32.06	263.15	267.95		267.96	0.000103	0.41	97.43	32.68	0.06
Reach 1	3325	Hazel	30.38	263.15	267.87		267.87	0.0001	0.4	94.68	32.38	0.06
Reach 1	3325	Hazel w CC	36.64	263.15	268.53		268.53	0.000082	0.4	116.79	34.13	0.06
Reach 1	3302	100 Year	39.51	262.92	266.11	266.11	267.71	0.030376	4.83	7.67	20.71	0.88
Reach 1	3302	Hazel	38.51	262.92	266.06	266.06	267.63	0.030656	4.8	7.54	20.43	0.88
Reach 1	3302	Hazel w CC	46.54	262.92	266.47	266.47	268.26	0.029064	5.09	8.57	22.12	0.87
Reach 1	Cundles Rd W		Culvert									
Reach 1	3207	100 Year	39.51	260.13	263.31	263.31	264.87	0.008327	5.54	7.13	69.07	1
Reach 1	3207	Hazel	38.51	260.13	263.25	263.25	264.79	0.008383	5.49	7.01	68.59	1
Reach 1	3207	Hazel w CC	46.54	260.13	263.66	263.66	265.41	0.008041	5.85	7.95	73.09	1.01
Reach 1	3177	100 Year	39.51	259.43	261.1	261.1	261.41	0.007058	2.74	22.37	44.24	0.72
Reach 1	3177	Hazel	38.51	259.43	261.09	261.09	261.4	0.007073	2.72	21.71	44.07	0.72
Reach 1	3177	Hazel w CC	46.54	259.43	261.19	261.19	261.51	0.007151	2.86	26.33	46.57	0.74

Reach 1	2489	100 Year	39.69	248.85	251.89		251.89	0.000065	0.43	158.93	73.08	0.08
Reach 1	2489	Hazel	41.37	248.85	251.93		251.94	0.000066	0.44	162.32	73.3	0.08
Reach 1	2489	Hazel w CC	50.07	248.85	252.09		252.09	0.000079	0.5	173.7	74.04	0.09
Reach 1	2438	100 Year	39.69	248.74	251.88		251.89	0.000085	0.49	131.96	66	0.09
Reach 1	2438	Hazel	41.37	248.74	251.93		251.93	0.000086	0.5	135.02	66.24	0.09
Reach 1	2438	Hazel w CC	50.07	248.74	252.08		252.09	0.000102	0.56	145.24	66.98	0.1
Reach 1	2406	100 Year	39.69	248.2	251.88		251.88	0.000039	0.3	191.6	86.57	0.05
Reach 1	2406	Hazel	41.37	248.2	251.93		251.93	0.00004	0.31	195.62	87.13	0.05
Reach 1	2406	Hazel w CC	50.07	248.2	252.08		252.09	0.000049	0.35	209.14	89.11	0.06
Reach 1	2387	100 Year	39.69	247.9	251.88		251.88	0.000022	0.32	258.55	107.68	0.05
Reach 1	2387	Hazel	41.37	247.9	251.93		251.93	0.000023	0.33	263.54	108.18	0.05
Reach 1	2387	Hazel w CC	50.07	247.9	252.08		252.08	0.000028	0.37	280.32	110.01	0.06
Reach 1	2374	100 Year	39.69	247.9	251.88		251.88	0.000012	0.24	372.32	177.78	0.04
Reach 1	2374	Hazel	41.37	247.9	251.93		251.93	0.000012	0.24	380.57	178.42	0.04
Reach 1	2374	Hazel w CC	50.07	247.9	252.08		252.08	0.000015	0.28	408.18	180.28	0.04
Reach 1	2358	100 Year	39.69	247.92	251.88		251.88	0.000009	0.15	426.63	195.25	0.02
Reach 1	2358	Hazel	41.37	247.92	251.93		251.93	0.000009	0.15	435.69	196.28	0.02
Reach 1	2358	Hazel w CC	50.07	247.92	252.08		252.08	0.000011	0.17	466.19	199.71	0.03
Reach 1	2303	100 Year	39.69	246.89	251.88		251.88	0.000005	0.17	509.03	178.32	0.02
Reach 1	2303	Hazel	41.37	246.89	251.93		251.93	0.000005	0.17	517.31	178.92	0.02
Reach 1	2303	Hazel w CC	50.07	246.89	252.08		252.08	0.000007	0.2	545.04	181.51	0.03
Reach 1	2242	100 Year	46.38	246.02	251.88		251.88	0.000005	0.15	549.81	159.3	0.02
Reach 1	2242	Hazel	48.83	246.02	251.93		251.93	0.000005	0.15	557.18	159.59	0.02
Reach 1	2242	Hazel w CC	59.13	246.02	252.08		252.08	0.000007	0.18	581.8	160.58	0.02
Reach 1	2203	100 Year	46.38	245.78	251.88		251.88	0.000004	0.14	572.08	153.06	0.02
Reach 1	2203	Hazel	48.83	245.78	251.93		251.93	0.000005	0.14	579.17	153.81	0.02
Reach 1	2203	Hazel w CC	59.13	245.78	252.08		252.08	0.000006	0.16	602.94	155.19	0.02
Reach 1	2170	100 Year	46.38	245.35	251.88		251.88	0.000003	0.13	646.27	153.45	0.02
Reach 1	2170	Hazel	48.83	245.35	251.93		251.93	0.000003	0.14	653.37	153.79	0.02
Reach 1	2170	Hazel w CC	59.13	245.35	252.08		252.08	0.000004	0.16	677.09	154.67	0.02
Reach 1	2113	100 Year	50.22	245.24	251.8	248.47	251.87	0.000794	1.61	101.73	235.61	0.28
Reach 1	2113	Hazel	54.47	245.24	251.85	248.63	251.92	0.00075	1.58	114.72	235.99	0.28
Reach 1	2113	Hazel w CC	65.99	245.24	252.03	249.07	252.08	0.000563	1.42	157.36	237.44	0.24
Reach 1	Reservoir Embank		Culvert									
Reach 1	2029	100 Year	50.22	242.98	251.72		251.84	0.0004	1.6	84.76	210.39	0.23
Reach 1	2029	Hazel	54.47	242.98	251.81		251.91	0.000389	1.6	101.86	210.73	0.23
Reach 1	2029	Hazel w CC	65.99	242.98	251.97		252.07	0.000382	1.62	137.25	211.41	0.23
Reach 1	2023	100 Year	50.22	242.94	251.81		251.81	0.000004	0.25	544.53	208.04	0.03
Reach 1	2023	Hazel	54.47	242.94	251.88		251.88	0.000005	0.26	560.22	208.53	0.03
Reach 1	2023	Hazel w CC	65.99	242.94	252.04		252.04	0.000006	0.3	593.45	209.72	0.03
Reach 1	2018	100 Year	50.22	242.87	251.8	245.96	251.81	0.000044	0.58	300.67	203.48	0.08
Reach 1	2018	Hazel	54.47	242.87	251.88	246.13	251.88	0.000046	0.6	316	204	0.08
Reach 1	2018	Hazel w CC	65.99	242.87	252.03	246.57	252.04	0.000052	0.65	348.44	205.05	0.09
Reach 1	Hwy 400		Culvert									
Reach 1	1930	100 Year	50.22	242.22	245.33	245.33	246.86	0.008411	5.49	9.14	104.45	1
Reach 1	1930	Hazel	54.47	242.22	245.5	245.5	247.12	0.008233	5.64	9.66	107.88	1
Reach 1	1930	Hazel w CC	65.99	242.22	245.93	245.93	247.78	0.00793	6.02	10.96	114.18	1.01
Reach 1	1845	100 Year	50.22	241.85	242.68		242.74	0.006305	1.54	49.81	86.97	0.57
Reach 1	1845	Hazel	54.47	241.85	242.71		242.77	0.006335	1.58	52.36	87.44	0.57
Reach 1	1845	Hazel w CC	65.99	241.85	242.81		242.87	0.00578	1.63	60.83	88.74	0.56
Reach 1	1754	100 Year	50.22	240.25	241.85	241.85	242.05	0.008942	2.85	41.64	86.78	0.73

Reach 1	1754	Hazel	54.47	240.25	241.88	241.88	242.08	0.008923	2.89	44.52	87.15	0.74
Reach 1	1754	Hazel w CC	65.99	240.25	241.93	241.93	242.16	0.01061	3.21	48.4	87.75	0.81
Reach 1	1718	100 Year	50.22	239.71	241.36		241.39	0.003891	1.21	70.87	93.79	0.31
Reach 1	1718	Hazel	54.47	239.71	241.4		241.43	0.003976	1.24	74.2	94.18	0.31
Reach 1	1718	Hazel w CC	65.99	239.71	241.49		241.53	0.004127	1.31	83.02	95.22	0.32
Reach 1	1679	100 Year	50.22	239.11	241.26	240.74	241.28	0.001993	0.93	81.37	98.76	0.26
Reach 1	1679	Hazel	54.47	239.11	241.29	240.76	241.32	0.002086	0.96	84.5	99.32	0.27
Reach 1	1679	Hazel w CC	65.99	239.11	241.38	240.81	241.41	0.002265	1.04	93.13	100.81	0.28
Reach 1	0	Rail Trail		Culvert								
Reach 1	1662	100 Year	50.22	239.12	240.78	240.78	240.95	0.018835	3.12	35.19	82.11	0.94
Reach 1	1662	Hazel	54.47	239.12	240.8	240.8	240.97	0.019348	3.2	36.83	82.48	0.95
Reach 1	1662	Hazel w CC	65.99	239.12	240.84	240.84	241.04	0.021046	3.43	40.66	84.07	1
Reach 1	1612	100 Year	50.22	238.22	239.79		239.82	0.001802	0.95	69.17	62.74	0.25
Reach 1	1612	Hazel	54.47	238.22	239.86		239.89	0.001738	0.96	73.72	63.16	0.25
Reach 1	1612	Hazel w CC	65.99	238.22	239.98		240.01	0.001878	1.05	81.3	63.61	0.26
Reach 1	1577	100 Year	50.22	237.68	239.74		239.76	0.001167	1.13	71.52	52.56	0.26
Reach 1	1577	Hazel	54.47	237.68	239.81		239.84	0.001172	1.16	75.34	52.98	0.26
Reach 1	1577	Hazel w CC	65.99	237.68	239.92		239.96	0.001366	1.29	81.28	53.63	0.28
Reach 1	1553	100 Year	50.22	237.28	239.7	238.58	239.73	0.0014	0.98	62.02	43.35	0.21
Reach 1	1553	Hazel	54.47	237.28	239.77	238.62	239.81	0.001425	1.01	65.11	43.48	0.21
Reach 1	1553	Hazel w CC	65.99	237.28	239.87	238.71	239.92	0.001715	1.14	69.6	43.66	0.23
Reach 1	1509	100 Year	49.41	236.23	239.54	239.11	239.65	0.002092	1.93	47.95	57.77	0.45
Reach 1	1509	Hazel	55.57	236.23	239.61	239.17	239.72	0.002174	2.01	51.74	59.52	0.46
Reach 1	1509	Hazel w CC	67.28	236.23	239.7	239.29	239.82	0.002385	2.17	56.93	61	0.48
Reach 1		Wellington St W		Culvert								
Reach 1	1447	100 Year	49.41	235.29	238.73	238.73	238.89	0.002646	2.49	37.27	82.73	0.52
Reach 1	1447	Hazel	55.57	235.29	238.75	238.75	238.93	0.002972	2.65	38.96	82.84	0.55
Reach 1	1447	Hazel w CC	67.28	235.29	238.8	238.8	238.99	0.003243	2.81	43.35	83.15	0.58
Reach 1	1412.792	100 Year	49.41	234.63	237.03	237.03	237.2	0.012452	2.63	30.88	73.57	0.6
Reach 1	1412.792	Hazel	55.57	234.63	237.06	237.06	237.24	0.012934	2.71	33.29	76.84	0.62
Reach 1	1412.792	Hazel w CC	67.28	234.63	237.12	237.12	237.32	0.013402	2.81	37.91	85.34	0.63
Reach 1		Thomson St		Culvert								
Reach 1	1330	100 Year	49.41	232.58	234.47	234.47	234.66	0.012874	2.88	31.57	67.74	0.78
Reach 1	1330	Hazel	55.57	232.58	234.51	234.51	234.71	0.012551	2.9	34.92	73.58	0.78
Reach 1	1330	Hazel w CC	67.28	232.58	234.59	234.59	234.8	0.012596	3.02	40.96	77.57	0.78
Reach 1	1309	100 Year	49.41	232.37	233.99	233.99	234.2	0.018115	2.81	28.13	61.72	0.83
Reach 1	1309	Hazel	55.57	232.37	234.03	234.03	234.25	0.017722	2.85	31.06	65.56	0.83
Reach 1	1309	Hazel w CC	67.28	232.37	234.12	234.12	234.33	0.016659	2.89	36.71	74.89	0.81
Reach 1	1289	100 Year	49.41	232.04	233.79	233.79	233.99	0.004876	1.49	30.36	75.58	0.43
Reach 1	1289	Hazel	55.57	232.04	233.82	233.82	234.04	0.004863	1.52	33.24	75.91	0.43
Reach 1	1289	Hazel w CC	67.28	232.04	233.89	233.89	234.12	0.004818	1.57	38.34	76.52	0.44
Reach 1	1271	100 Year	49.41	231.68	233.29	233.29	233.52	0.004315	1.6	26.39	65.53	0.46
Reach 1	1271	Hazel	55.57	231.68	233.33	233.33	233.57	0.004358	1.64	29.03	66.17	0.47
Reach 1	1271	Hazel w CC	67.28	231.68	233.4	233.4	233.67	0.004442	1.72	33.62	66.68	0.48
Reach 1	1250	100 Year	49.41	231.14	232.81	232.81	233.03	0.009357	2.21	28.65	69.7	0.63
Reach 1	1250	Hazel	55.57	231.14	232.84	232.84	233.08	0.009851	2.3	30.34	70.02	0.65
Reach 1	1250	Hazel w CC	67.28	231.14	232.91	232.91	233.18	0.008916	2.27	35.32	71.67	0.62
Reach 1	1226	100 Year	49.41	230.79	232.53	232.53	232.71	0.00817	2.53	29.64	71.58	0.67
Reach 1	1226	Hazel	55.57	230.79	232.57	232.57	232.75	0.007666	2.5	32.8	75.69	0.66
Reach 1	1226	Hazel w CC	67.28	230.79	232.63	232.63	232.82	0.007762	2.58	37.08	78.73	0.67

Reach 1	1204	100 Year	49.41	230.52	232.06	232.06	232.25	0.006687	2.25	26.32	66.9	0.71
Reach 1	1204	Hazel	55.57	230.52	232.09	232.09	232.3	0.007058	2.35	28.17	69.4	0.74
Reach 1	1204	Hazel w CC	67.28	230.52	232.16	232.16	232.39	0.006773	2.4	33.15	74.75	0.73
Reach 1	Eccles St N @ So		Culvert									
Reach 1	1177	100 Year	49.41	230.04	231.7	231.7	231.87	0.007792	2.03	27.23	79.17	0.67
Reach 1	1177	Hazel	55.57	230.04	231.73	231.73	231.92	0.007702	2.06	29.66	83.77	0.67
Reach 1	1177	Hazel w CC	67.28	230.04	231.78	231.78	232	0.007341	2.09	34.66	91.32	0.66
Reach 1	1158	100 Year	49.41	229.69	231.29	231.29	231.52	0.004262	1.46	26.05	61.73	0.46
Reach 1	1158	Hazel	55.57	229.69	231.32	231.32	231.57	0.004271	1.49	28.34	62.12	0.46
Reach 1	1158	Hazel w CC	67.28	229.69	231.4	231.4	231.67	0.00403	1.52	33.15	64.46	0.46
Reach 1	1144	100 Year	49.41	229.45	230.67	230.67	230.84	0.009267	1.89	27.09	77.15	0.65
Reach 1	1144	Hazel	55.57	229.45	230.7	230.7	230.88	0.009291	1.94	29.3	78.08	0.65
Reach 1	1144	Hazel w CC	67.28	229.45	230.75	230.75	230.96	0.00923	2.01	33.36	78.66	0.66
Reach 1	1114	100 Year	49.67	228.97	230.2	230.16	230.38	0.014089	2.51	29.95	61.29	0.81
Reach 1	1114	Hazel	55.96	228.97	230.27	230.2	230.44	0.012235	2.44	34.29	65.72	0.76
Reach 1	1114	Hazel w CC	67.76	228.97	230.32	230.27	230.52	0.013869	2.67	37.54	66.63	0.82
Reach 1	1087	100 Year	49.67	228.16	229.74	229.74	229.96	0.016677	2.74	26.48	56.4	0.83
Reach 1	1087	Hazel	55.96	228.16	229.75	229.75	230.01	0.019234	2.97	27.48	57.45	0.89
Reach 1	1087	Hazel w CC	67.76	228.16	229.86	229.86	230.11	0.016202	2.9	33.87	60.48	0.83
Reach 1	1056	100 Year	49.67	227.65	229.14	229.14	229.38	0.011845	3.01	29.34	49.96	0.83
Reach 1	1056	Hazel	55.96	227.65	229.17	229.17	229.44	0.012896	3.19	31.13	51.09	0.87
Reach 1	1056	Hazel w CC	67.76	227.65	229.24	229.24	229.56	0.014543	3.51	35.15	62.25	0.93
Reach 1	1013	100 Year	49.67	226.81	228.8		228.9	0.002335	1.66	46.75	59.78	0.41
Reach 1	1013	Hazel	55.96	226.81	228.87		228.97	0.002416	1.73	50.83	60.41	0.42
Reach 1	1013	Hazel w CC	67.76	226.81	228.98		229.09	0.002602	1.86	57.4	61.2	0.44
Reach 1	993	100 Year	49.67	226.49	228.53	228.53	228.8	0.006482	2.93	32.13	51.37	0.74
Reach 1	993	Hazel	55.96	226.49	228.57	228.57	228.86	0.006911	3.08	34.41	56.73	0.76
Reach 1	993	Hazel w CC	67.76	226.49	228.67	228.67	228.98	0.007128	3.25	39.43	64.29	0.78
Reach 1	Donald St		Culvert									
Reach 1	953	100 Year	50.67	225.54	228.19	228.19	228.34	0.002828	2.32	39.13	110.23	0.47
Reach 1	953	Hazel	58.03	225.54	228.22	228.22	228.39	0.003118	2.46	42.59	110.33	0.49
Reach 1	953	Hazel w CC	70.3	225.54	228.27	228.27	228.45	0.003467	2.63	48.27	110.49	0.52
Reach 1	921	100 Year	50.67	224.89	227.46	226.52	227.48	0.000779	0.84	93.9	81.92	0.17
Reach 1	921	Hazel	58.03	224.89	227.57	226.63	227.59	0.000774	0.87	102.96	82.62	0.17
Reach 1	921	Hazel w CC	70.3	224.89	227.75	226.71	227.77	0.000745	0.89	118.43	88.75	0.17
Reach 1	875	100 Year	50.67	224.27	227.31	226.99	227.41	0.002612	1.83	37.91	45.21	0.34
Reach 1	875	Hazel	58.03	224.27	227.43	227.15	227.53	0.002157	1.71	43.57	45.39	0.31
Reach 1	875	Hazel w CC	70.3	224.27	227.63	227.22	227.72	0.00166	1.57	52.59	46.25	0.28
Reach 1	866	100 Year	50.67	224.21	226.89	226.89	227.36	0.007795	2.92	16.96	16.65	0.58
Reach 1	866	Hazel	58.03	224.21	227.01	227.01	227.48	0.00796	3.04	19.16	21.85	0.59
Reach 1	866	Hazel w CC	70.3	224.21	227.13	227.13	227.67	0.007811	3.1	21.89	23.28	0.59
Reach 1	848	100 Year	50.67	223.93	226.63		226.74	0.002827	2.04	37.7	33.82	0.4
Reach 1	848	Hazel	58.03	223.93	226.38		226.64	0.007168	3.03	29.56	31.57	0.63
Reach 1	848	Hazel w CC	70.3	223.93	226.68		226.88	0.004745	2.68	39.65	37.7	0.53
Reach 1	816	100 Year	50.67	223.12	225.47	225.47	226.44	0.015588	4.49	12	28.88	0.97
Reach 1	816	Hazel	58.03	223.12	226.31	226.15	226.49	0.002707	2.32	44.2	61.21	0.43
Reach 1	816	Hazel w CC	70.3	223.12	226.68	226.24	226.78	0.001349	1.78	69.25	72.55	0.31
Reach 1	Eccles St N		Culvert									
Reach 1	788	100 Year	50.84	222.94	224.98	224.98	226.01	0.004943	2.47	15.39	19.85	0.56
Reach 1	788	Hazel	58.66	222.94	225.19	225.19	226.32	0.004668	2.56	17.03	20.93	0.55
Reach 1	788	Hazel w CC	71.02	222.94	225.47	225.47	226.78	0.004479	2.71	19.29	33.32	0.55

Reach 1	762	100 Year	50.84	222.55	224.46	224.41	224.75	0.009078	2.95	22.43	30.86	0.71
Reach 1	762	Hazel	58.66	222.55	224.56	224.5	224.85	0.008351	2.94	25.63	31.48	0.68
Reach 1	762	Hazel w CC	71.02	222.55	224.7	224.61	225	0.007631	2.94	29.99	32.23	0.66
Reach 1	735	100 Year	50.84	222.44	224.04	224.04	224.42	0.016627	3.45	19.87	26.05	0.88
Reach 1	735	Hazel	58.66	222.44	224.12	224.12	224.53	0.017076	3.62	21.98	26.61	0.9
Reach 1	735	Hazel w CC	71.02	222.44	224.24	224.24	224.69	0.016916	3.79	25.46	27.29	0.91
Reach 1	707	100 Year	50.84	221.96	223.92		224.17	0.000987	2.68	23.73	21.15	0.63
Reach 1	707	Hazel	58.66	221.96	224.02		224.3	0.001025	2.84	25.97	21.85	0.64
Reach 1	707	Hazel w CC	71.02	221.96	224.24		224.53	0.000941	2.91	30.91	23.49	0.63
Reach 1	675	100 Year	50.84	221.75	223.75		224.12	0.002183	3.3	23.53	20.42	0.76
Reach 1	675	Hazel	58.66	221.75	223.66	223.65	224.23	0.003558	4.08	21.77	19.64	0.96
Reach 1	675	Hazel w CC	71.02	221.75	223.83	223.83	224.46	0.003556	4.32	25.24	21.23	0.97
Reach 1	641	100 Year	50.84	221.5	223.86		224.04	0.00096	1.71	29.02	25.07	0.37
Reach 1	641	Hazel	58.66	221.5	223.88		224.1	0.001239	1.95	29.34	25.19	0.42
Reach 1	641	Hazel w CC	71.02	221.5	223.87		224.21	0.00186	2.38	29.09	25.09	0.51
Reach 1	611	100 Year	50.84	221.24	223.9		224.01	0.000415	1.57	38.1	33.1	0.32
Reach 1	611	Hazel	58.66	221.24	223.93		224.07	0.000513	1.75	39.14	33.16	0.36
Reach 1	611	Hazel w CC	71.02	221.24	223.96		224.15	0.000699	2.07	40.14	33.22	0.42
Reach 1	581	100 Year	50.84	220.83	223.76	223.76	223.97	0.000961	2.77	34.47	78.99	0.64
Reach 1	581	Hazel	58.66	220.83	223.82	223.82	224.03	0.001012	2.87	38.95	84.49	0.66
Reach 1	581	Hazel w CC	71.02	220.83	223.87	223.87	224.11	0.001185	3.14	43.38	87.97	0.71
Reach 1	Dunlop St		Culvert									
Reach 1	503	100 Year	50.84	219.88	223.34	223.34	223.65	0.015054	2.51	21.15	39.48	1.02
Reach 1	503	Hazel	58.66	219.88	223.4	223.4	223.73	0.014165	2.6	23.73	41.27	1
Reach 1	503	Hazel w CC	71.02	219.88	223.49	223.49	223.86	0.013448	2.74	27.39	42.45	1
Reach 1	466	100 Year	50.84	219.34	222.03		222.14	0.001539	1.53	34.05	23.05	0.38
Reach 1	466	Hazel	58.66	219.34	222.05		222.2	0.00197	1.74	34.53	23.19	0.43
Reach 1	466	Hazel w CC	71.02	219.34	222.08		222.29	0.002733	2.07	35.22	23.4	0.51
Reach 1	429	100 Year	50.84	218.95	222.06	220.44	222.11	0.00036	0.95	53.75	27.66	0.22
Reach 1	429	Hazel	58.66	218.95	222.09	220.55	222.15	0.000462	1.07	54.63	28.43	0.24
Reach 1	429	Hazel w CC	71.02	218.95	222.14	220.7	222.23	0.00064	1.27	56.07	29.72	0.29
Reach 1	373	100 Year	29.84	221.54	222	221.97	222.09	0.010373	1.62	23.97	90.78	0.8
Reach 1	373	Hazel	34.42	221.54	222.04	221.99	222.13	0.008291	1.56	28.29	92.95	0.73
Reach 1	373	Hazel w CC	41.67	221.54	222.12	222.03	222.19	0.006249	1.49	35.02	95.23	0.65
Reach 1	328	100 Year	29.84	221.54	221.96	221.77	221.99	0.002604	0.72	37.53	99.93	0.39
Reach 1	328	Hazel	34.42	221.54	222.01	221.8	222.05	0.00222	0.73	43.28	101.24	0.37
Reach 1	328	Hazel w CC	41.67	221.54	222.09	221.83	222.13	0.001889	0.76	51.52	103.46	0.35
Reach 1	311	100 Year	51.6	220.84	221.68	221.68	221.88	0.009532	2.24	27.68	67.72	0.84
Reach 1	311	Hazel	60.23	220.84	221.74	221.74	221.95	0.009287	2.33	31.58	70.46	0.84
Reach 1	311	Hazel w CC	72.86	220.84	221.79	221.79	222.03	0.010033	2.53	35.53	71.98	0.89
Reach 1	280	100 Year	51.6	221.04	221.27	221.27	221.51	0.012375	0.61	24.93	61.11	0.67
Reach 1	280	Hazel	60.23	221.04	221.35	221.35	221.58	0.010436	0.81	30.1	66.88	0.68
Reach 1	280	Hazel w CC	72.86	221.04	221.42	221.42	221.67	0.010094	1.04	35.1	68.48	0.71
Reach 1	248	100 Year	51.6	220.53	220.85		220.9	0.001826	0.4	52.46	84.18	0.3
Reach 1	248	Hazel	60.23	220.53	220.9		220.96	0.002015	0.49	56.56	85.14	0.32
Reach 1	248	Hazel w CC	72.86	220.53	220.99		221.06	0.002074	0.61	63.95	86.87	0.34
Reach 1	217	100 Year	51.6	219.55	220.77	220.52	220.84	0.002795	1.46	47.28	78.98	0.48
Reach 1	217	Hazel	60.23	219.55	220.81	220.56	220.89	0.003149	1.59	50.2	79.29	0.51
Reach 1	217	Hazel w CC	72.86	219.55	220.89	220.62	220.98	0.003086	1.66	56.94	79.98	0.51
Reach 1	170	100 Year	51.6	219.9	220.41	220.41	220.6	0.016203	2.04	27.2	74.32	1
Reach 1	170	Hazel	60.23	219.9	220.51	220.44	220.67	0.010111	1.86	35.14	79.25	0.82

Reach 1	170	Hazel w CC	72.86	219.9	220.52	220.52	220.74	0.014119	2.22	35.67	79.42	0.97
Reach 1	116	100 Year	51.6	218.7	219.85	219.7	220.11	0.006408	2.38	23.58	26.91	0.73
Reach 1	116	Hazel	60.23	218.7	219.79	219.79	220.19	0.010944	2.99	21.91	26.54	0.95
Reach 1	116	Hazel w CC	72.86	218.7	220.11	220.11	220.33	0.004775	2.37	41.18	121.2	0.66
Reach 1	80	100 Year	51.75	218.68	219.94	219.49	219.98	0.001306	1.14	57.76	89.7	0.34
Reach 1	80	Hazel	60.69	218.68	219.82	219.56	219.92	0.002928	1.59	48	82.1	0.5
Reach 1	80	Hazel w CC	73.53	218.68	219.88	219.68	219.99	0.003255	1.74	52.93	87.19	0.53
Reach 1	39	100 Year	51.75	217.7	219.91	219.07	219.95	0.000566	1.05	88.04	188.46	0.23
Reach 1	39	Hazel	60.69	217.7	219.74	219.2	219.84	0.001418	1.56	57.53	144.3	0.36
Reach 1	39	Hazel w CC	73.53	217.7	219.77	219.35	219.89	0.001933	1.84	61.03	164.43	0.42
Reach 1	24	100 Year	51.75	217.24	219.91	219.03	219.94	0.000585	0.97	91.41	150.64	0.24
Reach 1	24	Hazel	60.69	217.24	219.61	219.61	219.8	0.004048	2.24	47.16	143.56	0.61
Reach 1	24	Hazel w CC	73.53	217.24	219.72	219.68	219.86	0.003123	2.07	63.03	147.65	0.54
Reach 1	Pedestrian Bridg		Culvert									
Reach 1	9	100 Year	51.75	217.24	219.04	219.04	219.93	0.034565	4.18	12.38	19.62	1
Reach 1	9	Hazel	60.69	217.24	219.52	219.52	219.63	0.011832	1.72	45.78	159.95	0.52
Reach 1	9	Hazel w CC	73.53	217.24	219.55	219.55	219.68	0.01276	1.82	50.74	160.17	0.54
Reach 1	3	100 Year	51.75	217.3	219.13	217.53	219.13	0.00002	0.19	274.07	149.79	0.05
Reach 1	3	Hazel	60.69	217.3	219.13	217.56	219.13	0.000028	0.23	274.07	149.79	0.05
Reach 1	3	Hazel w CC	73.53	217.3	219.13	217.59	219.13	0.000041	0.27	274.07	149.79	0.06

Whiskey Creek - Flood Flow Scenarios

Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
			(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
1	6450	100 Year	14.25	297.18	298.04	298.04	298.36	0.013017	2.54	5.86	9.65	0.97
1	6450	100 Year w C	17.74	297.18	298.14	298.14	298.5	0.012166	2.7	6.93	10.11	0.96
1	6450	Hazel	12.15	297.18	297.97	297.97	298.26	0.013504	2.42	5.22	9.39	0.97
1	6450	Hazel w CC	14.7	297.18	298.05	298.05	298.38	0.01288	2.56	6	9.71	0.97
1	6427	100 Year	14.25	296	297.92		297.99	0.001238	1.4	13.06	13.3	0.34
1	6427	100 Year w C	17.74	296	297.95		298.06	0.001754	1.69	13.53	13.74	0.41
1	6427	Hazel	12.15	296	297.88		297.94	0.000983	1.23	12.62	13.03	0.3
1	6427	Hazel w CC	14.7	296	297.92		298	0.001322	1.45	13.04	13.29	0.35
1	6398	100 Year	14.25	295.42	297.96		297.96	0.000107	0.53	37.98	27.98	0.11
1	6398	100 Year w C	17.74	295.42	298.01		298.02	0.00015	0.63	39.49	28.48	0.13
1	6398	Hazel	12.15	295.42	297.91		297.92	0.000085	0.46	36.82	27.59	0.1
1	6398	Hazel w CC	14.7	295.42	297.96		297.97	0.000114	0.54	38.04	28	0.11
1	6365	100 Year	14.25	295.1	297.96		297.96	0.000014	0.21	81.57	39.57	0.04
1	6365	100 Year w C	17.74	295.1	298.01		298.02	0.000019	0.25	83.76	39.91	0.05
1	6365	Hazel	12.15	295.1	297.92		297.92	0.000011	0.18	79.89	39.3	0.04
1	6365	Hazel w CC	14.7	295.1	297.96		297.96	0.000014	0.22	81.67	39.58	0.04
1	6330	100 Year	14.25	295.11	297.96		297.96	0.00001	0.18	88.12	40.7	0.03
1	6330	100 Year w C	17.74	295.11	298.01		298.02	0.000015	0.22	90.45	43.77	0.04
1	6330	Hazel	12.15	295.11	297.92		297.92	0.000008	0.16	86.4	40.19	0.03
1	6330	Hazel w CC	14.7	295.11	297.96		297.96	0.000011	0.19	88.22	40.75	0.04
1	6295	100 Year	14.25	295.1	297.96		297.96	0.000009	0.17	95.23	45.89	0.03
1	6295	100 Year w C	17.74	295.1	298.01		298.02	0.000013	0.2	97.77	46.81	0.04
1	6295	Hazel	12.15	295.1	297.92		297.92	0.000007	0.15	93.3	44.86	0.03
1	6295	Hazel w CC	14.7	295.1	297.96		297.96	0.000009	0.17	95.34	45.95	0.03
1	6248	100 Year	14.25	295.14	297.95	297.48	297.96	0.000353	0.45	35.21	55.41	0.16
1	6248	100 Year w C	17.74	295.14	298	297.51	298.01	0.000426	0.51	38.16	58.63	0.18
1	6248	Hazel	12.15	295.14	297.91	296.7	297.91	0.000315	0.41	32.97	54.89	0.15
1	6248	Hazel w CC	14.7	295.14	297.95	297.48	297.96	0.000372	0.46	35.31	55.44	0.17
1	Pond Berm		Culvert									
1	6203	100 Year	14.25	292.86	297.56	294.62	297.61	0.000614	1.16	21.26	61.07	0.25
1	6203	100 Year w C	17.74	292.86	297.67	294.88	297.72	0.000563	1.16	28.62	62.05	0.25
1	6203	Hazel	12.15	292.86	297.52	294.43	297.57	0.000516	1.06	19.24	60.83	0.23
1	6203	Hazel w CC	14.7	292.86	297.56	294.65	297.62	0.000629	1.18	21.79	61.14	0.26
1	6173	100 Year	14.25	291.99	297.58	293.31	297.58	0.000001	0.1	186.38	56.96	0.01
1	6173	100 Year w C	17.74	291.99	297.7	293.36	297.7	0.000002	0.12	193	57.97	0.02
1	6173	Hazel	12.15	291.99	297.55	293.27	297.55	0.000001	0.09	184.27	56.67	0.01
1	6173	Hazel w CC	14.7	291.99	297.59	293.31	297.59	0.000002	0.1	186.9	57.03	0.01
1	6142	100 Year	14.25	291.69	297.58	292.81	297.58	0.000001	0.11	214.62	65.56	0.01
1	6142	100 Year w C	17.74	291.69	297.7	292.88	297.7	0.000002	0.13	222.31	68.74	0.02
1	6142	Hazel	12.15	291.69	297.55	292.77	297.55	0.000001	0.09	212.2	65.09	0.01
1	6142	Hazel w CC	14.7	291.69	297.59	292.82	297.59	0.000002	0.11	215.22	65.7	0.01
1	6120	100 Year	14.25	291.35	297.58	292.31	297.58	0.000001	0.06	407.65	253.2	0.01
1	6120	100 Year w C	17.74	291.35	297.7	292.38	297.7	0.000001	0.08	419.91	259.59	0.01
1	6120	Hazel	12.15	291.35	297.55	292.25	297.55	0	0.06	403.72	251.51	0.01
1	6120	Hazel w CC	14.7	291.35	297.59	292.32	297.59	0.000001	0.07	408.62	253.84	0.01
1	6102	100 Year	14.25	291.08	297.58	291.89	297.58	0	0.05	491.43	269.85	0.01
1	6102	100 Year w C	17.74	291.08	297.7	291.97	297.7	0	0.07	504.74	276.55	0.01
1	6102	Hazel	12.15	291.08	297.55	291.85	297.55	0	0.05	487.16	269.25	0.01
1	6102	Hazel w CC	14.7	291.08	297.59	291.89	297.59	0	0.06	492.48	270.51	0.01
1	6094	100 Year	14.25	291.03	297.58	291.88	297.58	0	0.05	505.22	118.71	0.01
1	6094	100 Year w C	17.74	291.03	297.7	291.94	297.7	0	0.06	518.97	119.69	0.01

1	6094	Hazel	12.15	291.03	297.55	291.84	297.55	0	0.04	500.82	118.33	0.01
1	6094	Hazel w CC	14.7	291.03	297.59	291.89	297.59	0	0.05	506.3	118.8	0.01
1	6063	100 Year	14.25	290.67	297.58	291.32	297.58	0	0.06	460.29	105.3	0.01
1	6063	100 Year w C	17.74	290.67	297.7	291.37	297.7	0	0.07	472.49	106.24	0.01
1	6063	Hazel	12.15	290.67	297.55	291.28	297.55	0	0.05	456.39	104.95	0.01
1	6063	Hazel w CC	14.7	290.67	297.59	291.32	297.59	0	0.06	461.24	105.39	0.01
1	6039	100 Year	14.25	290.45	297.58	291.05	297.58	0	0.06	411.29	97.55	0.01
1	6039	100 Year w C	17.74	290.45	297.7	291.13	297.7	0	0.07	422.59	98.6	0.01
1	6039	Hazel	12.15	290.45	297.55	291.01	297.55	0	0.05	407.68	97.21	0.01
1	6039	Hazel w CC	14.7	290.45	297.59	291.06	297.59	0	0.06	412.17	97.63	0.01
1	6013	100 Year	14.25	290.29	297.46	293.09	297.56	0.003832	1.45	16.12	80.53	0.54
1	6013	100 Year w C	17.74	290.29	297.26	293.52	297.6	0.000612	2.57	6.92	78.76	0.31
1	6013	Hazel	12.15	290.29	297.44	292.81	297.52	0.003385	1.34	14.25	80.31	0.5
1	6013	Hazel w CC	14.7	290.29	297.45	293.16	297.56	0.004521	1.56	15.13	80.42	0.58
1	Pond Berm Harvie	Culvert										
1	5942	100 Year	14.25	288.29	291.17	291.17	292.54	0.008566	5.19	2.75	33.56	1
1	5942	100 Year w C	17.74	288.29	291.6	291.6	293.19	0.008198	5.59	3.18	37.07	1
1	5942	Hazel	12.15	288.29	290.89	290.89	292.13	0.008937	4.93	2.47	31.08	1
1	5942	Hazel w CC	14.7	288.29	291.22	291.22	292.63	0.008584	5.25	2.8	34	1
1	5897	100 Year	14.25	287.64	290.65		290.65	0.000015	0.22	86.15	44.03	0.04
1	5897	100 Year w C	17.74	287.64	290.74		290.74	0.00002	0.26	90.12	44.55	0.05
1	5897	Hazel	12.15	287.64	290.48		290.48	0.000014	0.2	78.7	43.2	0.04
1	5897	Hazel w CC	14.7	287.64	290.59		290.59	0.000017	0.23	83.42	43.72	0.04
1	5863	100 Year	14.25	287.4	290.65		290.65	0.000008	0.17	115.85	49.83	0.03
1	5863	100 Year w C	17.74	287.4	290.74		290.74	0.00001	0.2	120.35	50.25	0.04
1	5863	Hazel	12.15	287.4	290.48		290.48	0.000007	0.16	107.41	49.1	0.03
1	5863	Hazel w CC	14.7	287.4	290.59		290.59	0.000009	0.18	112.76	49.55	0.03
1	5810	100 Year	14.25	286.75	290.65		290.65	0.000007	0.19	132.96	60.44	0.03
1	5810	100 Year w C	17.74	286.75	290.74		290.74	0.00001	0.22	138.44	62	0.04
1	5810	Hazel	12.15	286.75	290.48		290.48	0.000007	0.17	122.85	57.88	0.03
1	5810	Hazel w CC	14.7	286.75	290.59		290.59	0.000009	0.2	129.22	59.74	0.03
1	5777	100 Year	14.25	286.04	290.65		290.65	0.000002	0.09	280.74	158.72	0.01
1	5777	100 Year w C	17.74	286.04	290.74		290.74	0.000003	0.11	295.08	160.74	0.02
1	5777	Hazel	12.15	286.04	290.48		290.48	0.000002	0.08	253.78	156.38	0.01
1	5777	Hazel w CC	14.7	286.04	290.59		290.59	0.000002	0.09	270.89	158.12	0.01
1	5762	100 Year	14.25	285.94	290.65		290.65	0.000001	0.09	314.5	136.13	0.01
1	5762	100 Year w C	17.74	285.94	290.74		290.74	0.000002	0.1	326.77	137.15	0.02
1	5762	Hazel	12.15	285.94	290.48		290.48	0.000001	0.08	291.41	134.34	0.01
1	5762	Hazel w CC	14.7	285.94	290.59		290.59	0.000002	0.09	306.06	135.42	0.01
1	5739	100 Year	14.25	285.24	290.65		290.65	0.000001	0.07	333.33	120.42	0.01
1	5739	100 Year w C	17.74	285.24	290.74		290.74	0.000002	0.09	344.19	121.46	0.01
1	5739	Hazel	12.15	285.24	290.48		290.48	0.000001	0.07	312.87	119.22	0.01
1	5739	Hazel w CC	14.7	285.24	290.59		290.59	0.000001	0.08	325.86	119.95	0.01
1	5722	100 Year	14.25	285.11	290.65		290.65	0.000001	0.06	337.01	119.15	0.01
1	5722	100 Year w C	17.74	285.11	290.74		290.74	0.000002	0.07	347.74	120.17	0.01
1	5722	Hazel	12.15	285.11	290.48		290.48	0.000001	0.06	316.83	116.79	0.01
1	5722	Hazel w CC	14.7	285.11	290.59		290.59	0.000001	0.07	329.61	118.51	0.01
1	5704	100 Year	25.59	284.81	290.65		290.65	0.000003	0.1	353.93	125.81	0.01
1	5704	100 Year w C	31.73	284.81	290.74		290.74	0.000005	0.12	365.26	127.25	0.02
1	5704	Hazel	20.14	284.81	290.48		290.48	0.000003	0.08	332.74	122.58	0.01
1	5704	Hazel w CC	24.34	284.81	290.59		290.59	0.000003	0.1	346.15	124.69	0.01
1	5682	100 Year	25.59	284.5	290.65		290.65	0.000003	0.15	345.87	105.78	0.02
1	5682	100 Year w C	31.73	284.5	290.74		290.74	0.000004	0.18	355.46	108.48	0.02
1	5682	Hazel	20.14	284.5	290.48		290.48	0.000002	0.12	328.23	101.33	0.02
1	5682	Hazel w CC	24.34	284.5	290.59		290.59	0.000003	0.14	339.36	104.28	0.02

1	5648	100 Year	25.59	284.37	290.65	287.18	290.65	0.000001	0.07	658.74	229.77	0.01
1	5648	100 Year w C	31.73	284.37	290.74	287.22	290.74	0.000001	0.09	679.35	230.15	0.01
1	5648	Hazel	20.14	284.37	290.48	286.58	290.48	0.000001	0.06	619.6	228.63	0.01
1	5648	Hazel w CC	24.34	284.37	290.59	287.17	290.59	0.000001	0.07	644.46	229.48	0.01
1	Harview 400 Ramp		Culvert									
1	5599	100 Year	25.59	283.8	290.65		290.65	0.000003	0.13	295.83	111.67	0.02
1	5599	100 Year w C	31.73	283.8	290.73		290.74	0.000004	0.15	305.48	112.3	0.02
1	5599	Hazel	20.14	283.8	290.48		290.48	0.000002	0.11	276.87	110.11	0.02
1	5599	Hazel w CC	24.34	283.8	290.59		290.59	0.000003	0.13	288.82	111.28	0.02
1	5579	100 Year	32.58	283.74	290.64		290.65	0.000011	0.34	116.45	22.74	0.04
1	5579	100 Year w C	39.16	283.74	290.73		290.73	0.000016	0.4	118.39	23.44	0.05
1	5579	Hazel	24.37	283.74	290.47		290.48	0.000007	0.26	112.79	20.32	0.03
1	5579	Hazel w CC	29.41	283.74	290.58		290.58	0.00001	0.31	115.06	22.09	0.04
1	5548	100 Year	32.58	283.51	290.58	285.55	290.64	0.000205	1.12	47.27	122.48	0.16
1	5548	100 Year w C	39.16	283.51	290.64	285.8	290.72	0.00027	1.3	55.47	130.77	0.19
1	5548	Hazel	24.37	283.51	290.43	285.22	290.47	0.000137	0.9	30.28	106.19	0.13
1	5548	Hazel w CC	29.41	283.51	290.53	285.42	290.58	0.00018	1.04	40.73	118.71	0.15
1	Highway 400		Culvert									
1	5300	100 Year	32.58	280.17	287.73	282.22	287.79	0.000107	1.1	29.6	119.04	0.13
1	5300	100 Year w C	39.16	280.17	289.49	282.47	289.55	0.000076	1.07	36.65	205.98	0.11
1	5300	Hazel	24.37	280.17	284.29	281.89	284.41	0.000482	1.54	15.84	82.83	0.25
1	5300	Hazel w CC	29.41	280.17	286.18	282.1	286.27	0.00019	1.26	23.43	108.89	0.17
1	5248	100 Year	32.58	279.5	287.77	280.42	287.77	0.000001	0.1	575.54	126.65	0.01
1	5248	100 Year w C	39.16	279.5	289.53	280.5	289.53	0.000001	0.1	795.19	167.86	0.01
1	5248	Hazel	24.37	279.5	284.37	280.31	284.37	0.000004	0.15	269.19	95.25	0.02
1	5248	Hazel w CC	29.41	279.5	286.24	280.37	286.24	0.000002	0.12	427.18	110.1	0.02
1	5194	100 Year	32.58	279.07	287.66	281.52	287.74	0.000119	1.29	25.29	146.73	0.14
1	5194	100 Year w C	39.16	279.07	289.44	281.82	289.51	0.0005	1.17	54.68	212.95	0.24
1	5194	Hazel	24.37	279.07	284.19	281.12	284.33	0.00039	1.64	14.89	100.19	0.23
1	5194	Hazel w CC	29.41	279.07	286.11	281.37	286.21	0.000191	1.43	20.63	128.31	0.17
1	Fairview Rd		Culvert									
1	5098	100 Year	32.58	277.95	280.29	280.29	281.44	0.009239	4.75	6.86	61.61	1
1	5098	100 Year w C	39.16	277.95	280.58	280.58	281.89	0.008899	5.06	7.74	66.73	1.01
1	5098	Hazel	24.37	277.95	280.16		280.88	0.006264	3.77	6.47	58.9	0.82
1	5098	Hazel w CC	29.41	277.95	280.13	280.13	281.21	0.009484	4.6	6.4	58.24	1.01
1	5044	100 Year	32.58	277.86	280.65		280.66	0.000077	0.47	103.53	59.66	0.09
1	5044	100 Year w C	39.16	277.86	280.76		280.77	0.000095	0.54	110.02	60.89	0.1
1	5044	Hazel	24.37	277.86	280.51		280.51	0.000053	0.38	95.11	57.44	0.08
1	5044	Hazel w CC	29.41	277.86	280.6		280.61	0.000067	0.44	100.69	59.2	0.09
1	4960	100 Year	32.58	277.26	280.54	279.11	280.62	0.000771	1.51	41.1	63.87	0.3
1	4960	100 Year w C	39.16	277.26	280.63	279.32	280.73	0.000848	1.63	47.52	66.72	0.31
1	4960	Hazel	24.37	277.26	280.42	278.82	280.48	0.000607	1.3	33.66	57.96	0.26
1	4960	Hazel w CC	29.41	277.26	280.5	279	280.58	0.000699	1.43	38.71	62.44	0.28
1	5 Rail Line S		Culvert									
1	4933	100 Year	32.58	277.35	279.09	279.09	279.91	0.010545	4	8.14	39.67	1
1	4933	100 Year w C	39.16	277.35	279.31	279.31	280.23	0.010061	4.25	9.22	42.92	1
1	4933	Hazel	24.37	277.35	278.81	278.81	279.48	0.011113	3.62	6.74	38.72	1
1	4933	Hazel w CC	29.41	277.35	278.99	278.99	279.75	0.010721	3.86	7.62	39.31	1
1	4875	100 Year	32.58	276.28	277.31	277.31	277.68	0.01359	2.86	12.48	17.71	1.02
1	4875	100 Year w C	39.16	276.28	277.41	277.41	277.82	0.013049	3.03	14.23	18.02	1.02
1	4875	Hazel	24.37	276.28	277.18	277.18	277.49	0.014295	2.61	10.2	17.25	1.02
1	4875	Hazel w CC	29.41	276.28	277.27	277.27	277.61	0.013799	2.77	11.63	17.55	1.02

1	4845	100 Year	32.58	276.04	276.87	276.87	277.19	0.014381	2.67	13.16	20.74	1.03
1	4845	100 Year w C	39.16	276.04	276.95	276.95	277.32	0.013856	2.83	14.96	21.04	1.03
1	4845	Hazel	24.37	276.04	276.75	276.75	277.02	0.015249	2.43	10.76	20.27	1.02
1	4845	Hazel w CC	29.41	276.04	276.82	276.82	277.13	0.014642	2.58	12.27	20.58	1.02
1	4812	100 Year	32.58	275.41	276.02	276.02	276.27	0.016296	2.23	15.03	31.21	0.98
1	4812	100 Year w C	39.16	275.41	276.09	276.09	276.37	0.015805	2.37	17.05	31.7	0.99
1	4812	Hazel	24.37	275.41	275.92	275.92	276.14	0.018622	2.07	12	30.08	1.02
1	4812	Hazel w CC	29.41	275.41	275.99	275.99	276.22	0.016589	2.15	14.02	30.98	0.98
1	4766	100 Year	32.58	273.63	274.92	274.92	275.23	0.010769	2.98	14.26	22.47	0.94
1	4766	100 Year w C	39.16	273.63	275	275	275.34	0.010858	3.15	16.14	23.08	0.95
1	4766	Hazel	24.37	273.63	274.81	274.81	275.07	0.010145	2.69	11.92	21.67	0.89
1	4766	Hazel w CC	29.41	273.63	274.88	274.88	275.17	0.010456	2.87	13.43	22.18	0.92
1	4725	100 Year	32.58	273.3	274.04	274.04	274.35	0.014583	2.51	13.44	22.3	0.99
1	4725	100 Year w C	39.16	273.3	274.12	274.12	274.47	0.013949	2.66	15.35	22.85	0.99
1	4725	Hazel	24.37	273.3	273.92	273.92	274.19	0.015599	2.29	10.93	21.59	0.99
1	4725	Hazel w CC	29.41	273.3	274	274	274.29	0.014782	2.42	12.53	22.05	0.98
1	4688	100 Year	32.58	272.68	273.88		273.97	0.001971	1.35	26.3	27.94	0.41
1	4688	100 Year w C	39.16	272.68	274.02		274.11	0.001911	1.43	30.17	29.75	0.41
1	4688	Hazel	24.37	272.68	273.79		273.84	0.001534	1.12	23.58	27.21	0.36
1	4688	Hazel w CC	29.41	272.68	273.89		273.95	0.00159	1.21	26.39	27.97	0.37
1	4655	100 Year	32.58	272.24	273.87		273.91	0.000872	1.09	35.42	32.14	0.28
1	4655	100 Year w C	39.16	272.24	274		274.05	0.000888	1.16	39.82	33.36	0.29
1	4655	Hazel	24.37	272.24	273.77		273.8	0.000638	0.89	32.4	31.26	0.24
1	4655	Hazel w CC	29.41	272.24	273.87		273.91	0.000697	0.98	35.64	32.21	0.25
1	4631	100 Year	32.66	271.61	273.66	273.29	273.86	0.003198	2.24	18.89	22.69	0.55
1	4631	100 Year w C	39.94	271.61	273.73	273.42	273.99	0.003949	2.57	20.52	26.34	0.62
1	4631	Hazel	27.16	271.61	273.61	273.16	273.76	0.002546	1.96	17.84	21.07	0.49
1	4631	Hazel w CC	32.93	271.61	273.65	273.29	273.86	0.003302	2.28	18.77	22.48	0.56
1	4609	100 Year	32.66	272.02	273.59	273.56	273.74	0.006135	2.24	23.83	53.79	0.7
1	4609	100 Year w C	39.94	272.02	273.71	273.6	273.83	0.004576	2.07	30.7	60.99	0.61
1	4609	Hazel	27.16	272.02	273.52	273.52	273.67	0.006719	2.25	20.14	50.84	0.72
1	4609	Hazel w CC	32.93	272.02	273.57	273.57	273.74	0.007203	2.4	22.62	52.51	0.75
1	Bayview Dr		Culvert									
1	4559	100 Year	32.66	270.35	273.24	273.24	273.39	0.004183	1.99	29.82	96.61	0.6
1	4559	100 Year w C	39.94	270.35	273.29	273.29	273.45	0.004557	2.13	34.57	96.61	0.63
1	4559	Hazel	27.16	270.35	272.3	272.3	273.14	0.010512	4.05	6.71	40.76	1
1	4559	Hazel w CC	32.93	270.35	273.25	273.25	273.39	0.003992	1.95	30.74	96.61	0.58
1	4531	100 Year	32.66	270.13	270.92	270.92	271.11	0.014768	2.68	20.18	47.87	1.03
1	4531	100 Year w C	39.94	270.13	270.97	270.97	271.19	0.015879	2.91	22.58	48.29	1.08
1	4531	Hazel	27.16	270.13	270.87	270.87	271.04	0.014986	2.56	17.68	47.36	1.03
1	4531	Hazel w CC	32.93	270.13	270.92	270.92	271.11	0.015245	2.71	20.08	47.85	1.05
1	4503	100 Year	32.66	268.98	270.51	270.51	270.71	0.00818	2.53	24.61	62.45	0.79
1	4503	100 Year w C	39.94	268.98	270.58	270.58	270.79	0.008593	2.7	28.69	64.53	0.82
1	4503	Hazel	27.16	268.98	270.45	270.45	270.64	0.008127	2.42	20.86	60.59	0.78
1	4503	Hazel w CC	32.93	268.98	270.52	270.52	270.71	0.008177	2.53	24.8	62.53	0.79
1	4478	100 Year	32.66	268.9	270.12	270.12	270.28	0.00975	2.39	24.67	82.98	0.84
1	4478	100 Year w C	39.94	268.9	270.18	270.18	270.34	0.010052	2.53	28.99	85.07	0.87
1	4478	Hazel	27.16	268.9	270.07	270.07	270.23	0.010012	2.32	20.57	80.33	0.85
1	4478	Hazel w CC	32.93	268.9	270.13	270.13	270.28	0.009747	2.4	24.85	83.13	0.84
1	4451	100 Year	32.66	268.81	269.62	269.62	269.87	0.020162	2.87	15.82	47.93	1.16
1	4451	100 Year w C	39.94	268.81	269.77	269.77	269.96	0.013095	2.66	23.9	70.87	0.97
1	4451	Hazel	27.16	268.81	269.61	269.57	269.79	0.015466	2.47	15.28	44.14	1.01
1	4451	Hazel w CC	32.93	268.81	269.62	269.61	269.87	0.02089	2.91	15.72	47.48	1.18
1	4430	100 Year	32.66	268.56	269.22	269.22	269.37	0.024253	1.68	21.64	88.05	0.74
1	4430	100 Year w C	39.94	268.56	269.27	269.27	269.43	0.024357	1.78	25.65	88.48	0.76

1	4430	Hazel	27.16	268.56	269.14	269.14	269.31	0.037496	1.84	15.16	81.14	0.89
1	4430	Hazel w CC	32.93	268.56	269.23	269.23	269.37	0.02421	1.68	21.82	88.07	0.74
1	4407	100 Year	32.66	267.83	268.65	268.65	268.8	0.017761	2.87	24.02	80.08	1.12
1	4407	100 Year w C	39.94	267.83	268.7	268.7	268.86	0.017961	3.02	27.95	81.17	1.14
1	4407	Hazel	27.16	267.83	268.61	268.61	268.75	0.017014	2.7	21.03	78.82	1.09
1	4407	Hazel w CC	32.93	267.83	268.65	268.65	268.81	0.017823	2.88	24.15	80.12	1.12
1	4392	100 Year	32.66	267.64	268.25	268.25	268.42	0.020292	2.41	23.79	69.18	1.11
1	4392	100 Year w C	39.94	267.64	268.31	268.31	268.49	0.018887	2.51	27.87	70.65	1.09
1	4392	Hazel	27.16	267.64	268.22	268.22	268.37	0.019251	2.23	21.4	68.66	1.07
1	4392	Hazel w CC	32.93	267.64	268.26	268.26	268.42	0.020384	2.42	23.89	69.23	1.11
1	4375	100 Year	32.66	267.3	268.19		268.23	0.002924	0.97	44.46	75.89	0.34
1	4375	100 Year w C	39.94	267.3	268.28		268.32	0.002812	1.03	51.65	77.65	0.34
1	4375	Hazel	27.16	267.3	268.06		268.1	0.004037	1.03	35.08	70.75	0.39
1	4375	Hazel w CC	32.93	267.3	268.2		268.23	0.00289	0.97	44.89	75.94	0.34
1	4347	100 Year	32.66	266.89	268.19		268.2	0.000282	0.55	76.77	82.05	0.16
1	4347	100 Year w C	39.94	266.89	268.28		268.3	0.000316	0.61	84.48	82.83	0.17
1	4347	Hazel	27.16	266.89	268.06		268.07	0.000301	0.53	66.41	80.37	0.16
1	4347	Hazel w CC	32.93	266.89	268.2		268.21	0.000282	0.55	77.24	82.11	0.16
1	4245	100 Year	32.66	266.94	268.18		268.19	0.000131	0.27	68.99	117.27	0.09
1	4245	100 Year w C	39.94	266.94	268.28		268.29	0.00012	0.27	80.23	119.44	0.08
1	4245	Hazel	27.16	266.94	268.05		268.06	0.000207	0.3	53.68	113.77	0.1
1	4245	Hazel w CC	32.93	266.94	268.19		268.2	0.000129	0.26	69.67	117.36	0.08
1	4146	100 Year	32.66	266.63	268.19		268.19	0.000019	0.12	150.62	211.98	0.03
1	4146	100 Year w C	39.94	266.63	268.28		268.28	0.000019	0.12	171.02	213.69	0.03
1	4146	Hazel	27.16	266.63	268.05		268.05	0.000027	0.13	122.53	209.61	0.04
1	4146	Hazel w CC	32.93	266.63	268.19		268.19	0.000019	0.12	151.86	212.08	0.03
1	4042	100 Year	32.66	266.23	268.19		268.19	0.000005	0.07	263.45	311.46	0.02
1	4042	100 Year w C	39.94	266.23	268.28		268.28	0.000005	0.08	294.03	321.77	0.02
1	4042	Hazel	27.16	266.23	268.05		268.05	0.000006	0.07	222.83	301.02	0.02
1	4042	Hazel w CC	32.93	266.23	268.19		268.19	0.000005	0.07	265.28	312.57	0.02
1	4008	100 Year	32.66	266.33	268.19		268.19	0.000002	0.04	340.23	314.47	0.01
1	4008	100 Year w C	39.94	266.33	268.28		268.28	0.000002	0.05	370.73	319.55	0.01
1	4008	Hazel	27.16	266.33	268.05		268.05	0.000002	0.04	299.41	299.24	0.01
1	4008	Hazel w CC	32.93	266.33	268.19		268.19	0.000002	0.04	342.08	315.02	0.01
1	3969	100 Year	32.66	266.13	268.13	267.69	268.18	0.000565	0.85	34.23	39.39	0.21
1	3969	100 Year w C	39.94	266.13	268.21	267.75	268.28	0.000624	0.92	37.43	39.61	0.22
1	3969	Hazel	27.16	266.13	268	267.62	268.05	0.000672	0.88	29.15	39.04	0.22
1	3969	Hazel w CC	32.93	266.13	268.14	267.69	268.19	0.000562	0.85	34.45	39.41	0.21
1	3927	100 Year	32.66	265.97	268.11	267.32	268.15	0.000458	0.77	37.67	40.9	0.19
1	3927	100 Year w C	39.94	265.97	268.19	267.66	268.25	0.000519	0.84	40.92	41.19	0.2
1	3927	Hazel	27.16	265.97	267.98	267.2	268.02	0.000533	0.78	32.27	39.93	0.2
1	3927	Hazel w CC	32.93	265.97	268.12	267.33	268.16	0.000456	0.77	37.9	40.92	0.19
1	3887.475	100 Year	32.66	265.84	268.02	267.21	268.12	0.002035	1.47	30.28	48.57	0.35
1	3887.475	100 Year w C	39.94	265.84	268.08	267.38	268.2	0.002547	1.69	33.13	49.13	0.4
1	3887.475	Hazel	27.16	265.84	267.87	267.08	267.97	0.00222	1.45	23.34	46.23	0.36
1	3887.475	Hazel w CC	32.93	265.84	268.02	267.22	268.12	0.002029	1.48	30.59	48.59	0.35
1	3849	100 Year	32.66	265.87	267.87	267.24	268.02	0.002607	1.79	23.83	37.96	0.44
1	3849	100 Year w C	39.94	265.87	268.1	267.39	268.13	0.000619	0.95	52.01	85.33	0.22
1	3849	Hazel	27.16	265.87	267.72	267.12	267.87	0.002765	1.73	18.35	35.64	0.45
1	3849	Hazel w CC	32.93	265.87	267.88	267.24	268.03	0.002609	1.8	24.04	38.14	0.44
1	3743	100 Year	32.66	265.41	266.85	266.85	267.35	0.024951	3.13	10.42	10.4	1
1	3743	100 Year w C	39.94	265.41	267	267	267.56	0.025256	3.31	12.07	11.09	1
1	3743	Hazel	27.16	265.41	266.71	266.71	267.18	0.025179	3.01	9.02	9.92	1.01
1	3743	Hazel w CC	32.93	265.41	266.86	266.86	267.36	0.024609	3.12	10.55	10.44	0.99
1	3658	100 Year	32.66	262.24	264.92		265.05	0.003228	1.58	23.15	23.64	0.38

1	3338	100 Year	55.85	257.6	259.03		259.16	0.005727	2.38	40.25	59.11	0.69
1	3338	100 Year w C	65.34	257.6	259.11		259.25	0.005804	2.49	44.78	59.66	0.7
1	3338	Hazel	43.65	257.6	258.93		259.04	0.005541	2.2	34.07	58.05	0.67
1	3338	Hazel w CC	51.91	257.6	259		259.12	0.005682	2.32	38.31	58.87	0.69
1	3314	100 Year	55.85	257.47	258.77		258.98	0.009984	3.01	32.64	55.41	0.91
1	3314	100 Year w C	65.34	257.47	258.84		259.07	0.009711	3.1	36.99	55.93	0.9
1	3314	Hazel	43.65	257.47	258.66	258.62	258.85	0.010547	2.88	26.53	54.51	0.92
1	3314	Hazel w CC	51.91	257.47	258.73	258.68	258.94	0.010146	2.97	30.72	55.14	0.91
1	3293	100 Year	55.85	257.27	258.61		258.77	0.008341	2.76	37.09	52.19	0.83
1	3293	100 Year w C	65.34	257.27	258.68		258.86	0.00842	2.9	41.11	52.78	0.84
1	3293	Hazel	43.65	257.27	258.5		258.64	0.008339	2.58	31.34	50.88	0.81
1	3293	Hazel w CC	51.91	257.27	258.57		258.73	0.008351	2.7	35.27	51.78	0.82
1	3273	100 Year	55.85	256.99	258.26	258.25	258.54	0.015948	3.68	32.1	48.13	1.14
1	3273	100 Year w C	65.34	256.99	258.34	258.31	258.63	0.015495	3.8	35.9	48.56	1.14
1	3273	Hazel	43.65	256.99	258.16	258.16	258.41	0.015841	3.43	27.32	47.46	1.12
1	3273	Hazel w CC	51.91	256.99	258.23	258.22	258.5	0.015884	3.6	30.63	47.97	1.13
1	3254	100 Year	55.85	256.81	258.06		258.27	0.01105	2.88	35.46	49.82	0.94
1	3254	100 Year w C	65.34	256.81	258.11	258.04	258.36	0.012357	3.14	37.85	50.09	1
1	3254	Hazel	43.65	256.81	257.98		258.15	0.009553	2.53	31.7	49.4	0.86
1	3254	Hazel w CC	51.91	256.81	258.05		258.24	0.009883	2.71	35.07	49.77	0.89
1	3222	100 Year	55.85	256.43	257.71	257.68	257.95	0.009274	2.92	33.73	55.69	0.88
1	3222	100 Year w C	65.34	256.43	257.83		258.05	0.007511	2.82	40.57	56.74	0.81
1	3222	Hazel	43.65	256.43	257.59	257.59	257.83	0.010379	2.87	27.07	54.05	0.92
1	3222	Hazel w CC	51.91	256.43	257.65	257.65	257.91	0.010497	3.01	30.62	55.12	0.93
1	3202	100 Year	55.85	255.96	257.7		257.8	0.003157	1.97	47.86	60.71	0.53
1	3202	100 Year w C	65.34	255.96	257.83		257.92	0.002848	1.97	55.26	61.7	0.51
1	3202	Hazel	43.65	255.96	257.52		257.63	0.004015	2.03	36.98	59.3	0.58
1	3202	Hazel w CC	51.91	255.96	257.65		257.75	0.003362	1.98	44.51	60.38	0.54
1	3177	100 Year	55.85	255.71	257.66		257.73	0.00186	1.61	53.81	60.37	0.4
1	3177	100 Year w C	65.34	255.71	257.79		257.86	0.001753	1.64	61.44	63.05	0.4
1	3177	Hazel	43.65	255.71	257.47		257.54	0.002184	1.61	42.73	57.15	0.43
1	3177	Hazel w CC	51.91	255.71	257.61		257.67	0.001939	1.61	50.38	59.55	0.41
1	3161	100 Year	55.85	255.6	257.65		257.7	0.001324	1.46	57.23	54.83	0.35
1	3161	100 Year w C	65.34	255.6	257.77		257.83	0.001319	1.52	64.04	56.22	0.35
1	3161	Hazel	43.65	255.6	257.46		257.51	0.001401	1.39	47.1	53.06	0.35
1	3161	Hazel w CC	51.91	255.6	257.59		257.64	0.001339	1.43	54.12	54.31	0.35
1	3139	100 Year	55.85	255.55	257.59		257.67	0.001308	1.53	52.21	45.28	0.36
1	3139	100 Year w C	65.34	255.55	257.71		257.8	0.001379	1.64	57.59	47.17	0.37
1	3139	Hazel	43.65	255.55	257.41		257.48	0.001265	1.41	44.07	43.94	0.35
1	3139	Hazel w CC	51.91	255.55	257.54		257.61	0.001291	1.49	49.72	44.9	0.36
1	3116	100 Year	55.85	255.29	257.53		257.63	0.00176	1.88	43.58	42.79	0.41
1	3116	100 Year w C	65.34	255.29	257.64		257.76	0.001857	2	48.53	44.96	0.43
1	3116	Hazel	43.65	255.29	257.35		257.44	0.001677	1.73	36.31	39.52	0.4
1	3116	Hazel w CC	51.91	255.29	257.48		257.58	0.001728	1.83	41.33	41.61	0.41
1	3101	100 Year	55.85	255.26	257.44		257.6	0.00264	2.16	44.75	53.94	0.51
1	3101	100 Year w C	65.34	255.26	257.55		257.72	0.002782	2.3	50.86	60.27	0.52
1	3101	Hazel	43.65	255.26	257.27		257.41	0.002547	1.98	36.24	47.39	0.49
1	3101	Hazel w CC	51.91	255.26	257.39		257.54	0.002577	2.09	42.16	50.03	0.5
1	3062	100 Year	55.85	255.15	257.21	257.03	257.44	0.005651	2.6	32.76	44.8	0.61
1	3062	100 Year w C	65.34	255.15	257.29		257.56	0.006099	2.78	36.79	47.81	0.63
1	3062	Hazel	43.65	255.15	256.98	256.88	257.24	0.006818	2.62	22.8	41.93	0.65
1	3062	Hazel w CC	51.91	255.15	257.16	256.98	257.39	0.00563	2.55	30.52	44.09	0.6
1	3036	100 Year	55.85	254.88	256.77	256.77	257.25	0.008534	3.24	24.15	46.65	0.79
1	3036	100 Year w C	65.34	254.88	256.99	256.99	257.38	0.006581	3.08	36.37	62.27	0.71
1	3036	Hazel	43.65	254.88	256.47	256.47	257	0.011627	3.32	15.11	19.74	0.9
1	3036	Hazel w CC	51.91	254.88	256.66	256.66	257.18	0.009825	3.33	19.71	31.49	0.84

1	3006	100 Year	55.85	254.23	256.22	256.22	256.61	0.011985	3.03	24.94	36.25	0.77
1	3006	100 Year w C	65.34	254.23	256.34	256.34	256.74	0.011757	3.15	29.36	41.55	0.77
1	3006	Hazel	43.65	254.23	256.03	256.03	256.42	0.013544	2.94	18.48	25.87	0.8
1	3006	Hazel w CC	51.91	254.23	256.16	256.16	256.56	0.01255	3.02	22.75	34.63	0.78
1	2979	100 Year	55.85	253.9	255.72	255.63	256.12	0.012595	2.95	21.3	25.03	0.79
1	2979	100 Year w C	65.34	253.9	255.82	255.82	256.26	0.012947	3.14	24.51	34.71	0.81
1	2979	Hazel	43.65	253.9	255.61		255.92	0.010456	2.55	18.84	21.8	0.71
1	2979	Hazel w CC	51.91	253.9	255.69	255.57	256.06	0.011817	2.82	20.58	23.9	0.76
1	2956	100 Year	55.85	253.75	255.5	255.45	255.76	0.014406	3.01	29.61	50.07	0.76
1	2956	100 Year w C	65.34	253.75	255.59	255.53	255.86	0.014503	3.14	34.08	50.95	0.77
1	2956	Hazel	43.65	253.75	255.36	255.31	255.62	0.014602	2.85	22.89	40.67	0.76
1	2956	Hazel w CC	51.91	253.75	255.46	255.42	255.72	0.01471	2.99	27.29	49.48	0.77
1	2933	100 Year	55.85	253.62	255.07	255.07	255.39	0.019002	3.21	26.92	41.27	0.9
1	2933	100 Year w C	65.34	253.62	255.16	255.15	255.49	0.018436	3.31	30.71	42.2	0.9
1	2933	Hazel	43.65	253.62	254.95	254.95	255.24	0.019149	3.01	22.04	39.18	0.89
1	2933	Hazel w CC	51.91	253.62	255.03	255.03	255.34	0.018833	3.13	25.51	40.82	0.89
1	2913	100 Year	55.85	253.61	254.91		255.11	0.006866	1.42	31.86	32.37	0.42
1	2913	100 Year w C	65.34	253.61	255.03		255.24	0.006673	1.5	35.79	33.34	0.42
1	2913	Hazel	43.65	253.61	254.74		254.91	0.007222	1.31	26.52	30.84	0.42
1	2913	Hazel w CC	51.91	253.61	254.86		255.05	0.006972	1.39	30.15	31.82	0.42
1	2887	100 Year	55.85	253.12	254.69		254.93	0.006424	1.43	28.22	27.35	0.39
1	2887	100 Year w C	65.34	253.12	254.8		255.06	0.006608	1.53	31.06	27.76	0.4
1	2887	Hazel	43.65	253.12	254.54		254.74	0.006322	1.31	24.04	26.64	0.38
1	2887	Hazel w CC	51.91	253.12	254.64		254.87	0.006395	1.4	26.91	27.16	0.39
1	2860	100 Year	55.85	253.16	254.24	254.24	254.66	0.013342	3	19.84	24.53	0.98
1	2860	100 Year w C	65.34	253.16	254.35	254.35	254.8	0.012521	3.11	22.46	25.51	0.97
1	2860	Hazel	43.65	253.16	254.11	254.11	254.47	0.013698	2.76	16.79	23.88	0.97
1	2860	Hazel w CC	51.91	253.16	254.2	254.2	254.6	0.013471	2.93	18.87	24.31	0.98
1	2839	100 Year	55.85	252.9	253.82	253.82	254.19	0.014654	2.93	21.2	29.83	1.05
1	2839	100 Year w C	65.34	252.9	253.91	253.91	254.31	0.014263	3.08	23.67	30.44	1.06
1	2839	Hazel	43.65	252.9	253.71	253.71	254.02	0.015462	2.71	17.8	29.09	1.05
1	2839	Hazel w CC	51.91	252.9	253.79	253.79	254.14	0.014988	2.87	20.08	29.55	1.06
1	2812	100 Year	55.85	252.12	253.41	253.37	253.78	0.012537	3.37	21.39	25.79	1.02
1	2812	100 Year w C	65.34	252.12	253.49	253.47	253.91	0.012926	3.58	23.49	26.28	1.05
1	2812	Hazel	43.65	252.12	253.31	253.25	253.6	0.011455	3.02	18.76	25.23	0.96
1	2812	Hazel w CC	51.91	252.12	253.38	253.33	253.72	0.012201	3.26	20.57	25.6	1
1	2789	100 Year	55.85	251.92	253.08	253.08	253.47	0.01425	3.32	20.67	27.04	1.05
1	2789	100 Year w C	65.34	251.92	253.17	253.17	253.59	0.014164	3.48	22.93	27.57	1.06
1	2789	Hazel	43.65	251.92	252.96	252.96	253.29	0.015231	3.13	17.26	26.1	1.06
1	2789	Hazel w CC	51.91	251.92	253.04	253.04	253.41	0.014557	3.26	19.58	26.75	1.06
1	2761	100 Year	55.85	251.59	252.76		252.98	0.007836	2.31	27.28	35.75	0.77
1	2761	100 Year w C	65.34	251.59	252.84		253.08	0.00804	2.47	29.94	36.27	0.79
1	2761	Hazel	43.65	251.59	252.66		252.84	0.007572	2.1	23.52	35	0.74
1	2761	Hazel w CC	51.91	251.59	252.73		252.94	0.007777	2.25	26.09	35.54	0.76
1	2743	100 Year	55.85	251.51	252.53	252.5	252.8	0.012772	2.66	24.35	39.43	0.95
1	2743	100 Year w C	65.34	251.51	252.59	252.57	252.9	0.0133	2.85	26.66	40.24	0.98
1	2743	Hazel	43.65	251.51	252.45	252.4	252.67	0.011699	2.38	21.32	38.48	0.89
1	2743	Hazel w CC	51.91	251.51	252.51	252.47	252.76	0.012386	2.57	23.44	38.98	0.93
1	2728	100 Year	55.85	251.43	252.48		252.62	0.007874	2.28	36.42	58.69	0.78
1	2728	100 Year w C	65.34	251.43	252.55		252.7	0.007779	2.39	40.79	59.72	0.79
1	2728	Hazel	43.65	251.43	252.39		252.5	0.007669	2.08	30.95	57.81	0.76
1	2728	Hazel w CC	51.91	251.43	252.45		252.58	0.007753	2.21	34.8	58.43	0.77
1	2708	100 Year	55.85	250.88	252.14	252.14	252.4	0.014105	2.99	25.66	50.21	1.01
1	2708	100 Year w C	65.34	250.88	252.19	252.19	252.48	0.014627	3.17	28.64	55.83	1.04
1	2708	Hazel	43.65	250.88	252.03	252.03	252.28	0.015673	2.89	20.63	42.5	1.04

1	2708	Hazel w CC	51.91	250.88	252.1	252.1	252.36	0.014657	2.97	23.94	48.41	1.02
1	2688	100 Year	55.85	250.76	251.79		251.97	0.011179	2.65	30.92	60.31	0.91
1	2688	100 Year w C	65.34	250.76	251.85		252.04	0.011464	2.8	34.16	61.97	0.93
1	2688	Hazel	43.65	250.76	251.72		251.87	0.010833	2.46	26.5	57.03	0.88
1	2688	Hazel w CC	51.91	250.76	251.77		251.94	0.011116	2.6	29.5	59.53	0.9
1	2665	100 Year	55.85	250.61	251.44	251.44	251.66	0.016238	2.71	27.12	62.45	1.06
1	2665	100 Year w C	65.34	250.61	251.49	251.49	251.73	0.015994	2.82	30.38	63.46	1.07
1	2665	Hazel	43.65	250.61	251.37	251.37	251.56	0.016195	2.51	22.85	59.61	1.04
1	2665	Hazel w CC	51.91	250.61	251.42	251.42	251.63	0.016243	2.65	25.77	62.02	1.06
1	2654	100 Year	55.85	250.19	251.16	251.16	251.39	0.013599	2.75	27.44	59.09	0.99
1	2654	100 Year w C	65.34	250.19	251.21	251.21	251.47	0.014225	2.92	30.17	60.01	1.02
1	2654	Hazel	43.65	250.19	251.08	251.08	251.28	0.013855	2.57	22.55	56.33	0.98
1	2654	Hazel w CC	51.91	250.19	251.13	251.12	251.36	0.013775	2.7	25.67	57.96	0.99
1	2632	100 Year	55.85	249.36	250.89	250.89	251.12	0.011323	3.12	28.93	69.24	0.92
1	2632	100 Year w C	65.34	249.36	250.95	250.95	251.19	0.010777	3.16	33.72	71.67	0.9
1	2632	Hazel	43.65	249.36	250.81	250.81	251.02	0.010587	2.89	23.99	65	0.88
1	2632	Hazel w CC	51.91	249.36	250.86	250.86	251.09	0.011109	3.05	27.36	68.02	0.91
1	2617	100 Year	55.85	249.53	250.7	250.65	250.89	0.00938	2.64	31.54	70.85	0.86
1	2617	100 Year w C	65.34	249.53	250.76	250.71	250.97	0.00958	2.77	35.69	72.72	0.87
1	2617	Hazel	43.65	249.53	250.62	250.56	250.78	0.008951	2.43	25.82	63.93	0.82
1	2617	Hazel w CC	51.91	249.53	250.68	250.62	250.86	0.009274	2.58	29.73	70.27	0.85
1	2593	100 Year	55.85	249.31	250.53		250.67	0.008345	2.59	38.19	79.51	0.81
1	2593	100 Year w C	65.34	249.31	250.59		250.73	0.00849	2.71	42.83	80.06	0.83
1	2593	Hazel	43.65	249.31	250.45		250.57	0.007962	2.4	31.91	78.85	0.78
1	2593	Hazel w CC	51.91	249.31	250.5		250.64	0.008277	2.54	36.16	79.3	0.81
1	2566	100 Year	55.85	248.87	250.23	250.2	250.42	0.009354	2.89	33.8	72.56	0.87
1	2566	100 Year w C	65.34	248.87	250.3	250.25	250.49	0.00898	2.95	39.01	76.24	0.86
1	2566	Hazel	43.65	248.87	250.13	250.12	250.32	0.010115	2.83	26.77	69.4	0.89
1	2566	Hazel w CC	51.91	248.87	250.2	250.18	250.39	0.009513	2.87	31.66	71.83	0.87
1	2547	100 Year	55.85	248.82	250.12		250.26	0.006631	2.29	39.32	72.84	0.73
1	2547	100 Year w C	65.34	248.82	250.19		250.34	0.006447	2.36	44.54	73.64	0.73
1	2547	Hazel	43.65	248.82	250.02		250.15	0.006764	2.16	32.44	71.38	0.72
1	2547	Hazel w CC	51.91	248.82	250.09		250.22	0.00668	2.25	37.15	72.5	0.73
1	2523	100 Year	55.85	248.37	249.91		250.09	0.007374	2.67	33.37	59.5	0.77
1	2523	100 Year w C	65.34	248.37	250		250.17	0.006826	2.69	38.59	60.41	0.75
1	2523	Hazel	43.65	248.37	249.8	249.76	249.97	0.008004	2.61	26.74	57.83	0.79
1	2523	Hazel w CC	51.91	248.37	249.87	249.81	250.05	0.007612	2.66	31.19	59.12	0.78
1	2506	100 Year	55.85	248.63	249.81		249.97	0.006441	2.36	34.14	57.69	0.73
1	2506	100 Year w C	65.34	248.63	249.9		250.06	0.005804	2.37	39.81	58.78	0.71
1	2506	Hazel	43.65	248.63	249.67		249.84	0.007802	2.36	26.3	56.49	0.79
1	2506	Hazel w CC	51.91	248.63	249.76		249.92	0.006814	2.36	31.65	57.39	0.75
1	2488	100 Year	55.85	247.87	249.8		249.88	0.002246	1.75	50.38	59.2	0.44
1	2488	100 Year w C	65.34	247.87	249.9		249.98	0.002274	1.83	56.05	59.81	0.45
1	2488	Hazel	43.65	247.87	249.67		249.74	0.002179	1.63	42.66	58.35	0.43
1	2488	Hazel w CC	51.91	247.87	249.76		249.83	0.002234	1.71	47.91	58.93	0.44
1	2464	100 Year	55.85	248.1	249.77		249.83	0.001637	1.49	54.02	62.26	0.39
1	2464	100 Year w C	65.34	248.1	249.86		249.93	0.001711	1.59	59.96	64.31	0.4
1	2464	Hazel	43.65	248.1	249.64		249.69	0.001482	1.34	46.36	57.91	0.37
1	2464	Hazel w CC	51.91	248.1	249.72		249.78	0.001593	1.45	51.5	60.85	0.38
1	2443	100 Year	55.85	247.71	249.45	249.45	249.74	0.008871	3.28	29.36	47.3	0.89
1	2443	100 Year w C	65.34	247.71	249.51	249.51	249.83	0.009556	3.51	32.29	48.4	0.93
1	2443	Hazel	43.65	247.71	249.34	249.34	249.6	0.008652	3.07	24.27	45.46	0.86
1	2443	Hazel w CC	51.91	247.71	249.42	249.42	249.69	0.008596	3.19	28.04	46.9	0.87
1	2414	100 Year	55.85	247.06	248.94	248.94	249.25	0.007444	3.2	26.56	45.56	0.81
1	2414	100 Year w C	65.34	247.06	249.02	249.02	249.35	0.007653	3.35	30.28	50.37	0.83

1	2414	Hazel	43.65	247.06	248.81	248.81	249.11	0.007557	3.05	21.47	33.46	0.81
1	2414	Hazel w CC	51.91	247.06	248.91	248.91	249.21	0.00715	3.1	25.32	43.22	0.79
1	2387	100 Year	55.85	247.04	248.74	248.64	249	0.006094	2.9	28.93	41.05	0.75
1	2387	100 Year w C	65.34	247.04	248.83	248.73	249.1	0.006159	3.03	32.91	47.79	0.76
1	2387	Hazel	43.65	247.04	248.6		248.83	0.006304	2.75	23.57	32.74	0.75
1	2387	Hazel w CC	51.91	247.04	248.7		248.95	0.006121	2.85	27.18	39.65	0.75
1	2364	100 Year	55.85	246.93	248.49	248.49	248.82	0.008728	3.23	26.24	40.31	0.89
1	2364	100 Year w C	65.34	246.93	248.58	248.58	248.92	0.008682	3.36	30.01	45.12	0.89
1	2364	Hazel	43.65	246.93	248.37	248.36	248.66	0.008358	2.98	21.87	34.35	0.85
1	2364	Hazel w CC	51.91	246.93	248.45	248.45	248.77	0.008637	3.15	24.81	39.61	0.88
1	2344	100 Year	55.85	246.52	248.29	248.29	248.63	0.007786	3.29	26.37	42.41	0.84
1	2344	100 Year w C	65.34	246.52	248.38	248.38	248.73	0.008102	3.48	30.05	48.72	0.87
1	2344	Hazel	43.65	246.52	248.08	248.08	248.47	0.00982	3.36	18.5	28.87	0.92
1	2344	Hazel w CC	51.91	246.52	248.26	248.26	248.58	0.007651	3.21	24.87	40.75	0.83
1	2324	100 Year	55.85	246.15	247.87	247.87	248.32	0.008453	3.35	22.21	28.41	0.88
1	2324	100 Year w C	65.34	246.15	248.06	248.06	248.45	0.006733	3.23	28.09	38.77	0.8
1	2324	Hazel	43.65	246.15	247.72	247.72	248.12	0.008476	3.11	18	25.17	0.86
1	2324	Hazel w CC	51.91	246.15	247.84	247.84	248.26	0.008221	3.24	21.13	27.61	0.86
1	2299	100 Year	55.85	246.39	247.67	247.66	247.97	0.010147	3.12	25.38	44.28	0.93
1	2299	100 Year w C	65.34	246.39	247.74	247.73	248.06	0.010492	3.3	28.47	45.04	0.96
1	2299	Hazel	43.65	246.39	247.55	247.53	247.82	0.010233	2.91	20.4	37.29	0.92
1	2299	Hazel w CC	51.91	246.39	247.64	247.64	247.92	0.010361	3.08	23.66	43.06	0.94
1	2280	100 Year	55.85	245.94	247.49	247.49	247.77	0.008897	3.03	26.62	56.49	0.87
1	2280	100 Year w C	65.34	245.94	247.57	247.57	247.86	0.008934	3.17	31.44	63.46	0.88
1	2280	Hazel	43.65	245.94	247.37	247.37	247.63	0.008928	2.84	21	42.03	0.86
1	2280	Hazel w CC	51.91	245.94	247.45	247.45	247.73	0.0088	2.96	24.84	50.22	0.86
1	2256	100 Year	55.85	245.44	247.19	247.19	247.46	0.007437	3.1	32.9	66.15	0.82
1	2256	100 Year w C	65.34	245.44	247.28	247.25	247.55	0.007046	3.14	39.29	69.01	0.8
1	2256	Hazel	43.65	245.44	247.08	247.07	247.33	0.007225	2.9	25.66	59.88	0.79
1	2256	Hazel w CC	51.91	245.44	247.2	247.15	247.43	0.006079	2.82	33.84	66.81	0.74
1	2243	100 Year	55.85	245.58	247.11		247.33	0.008657	2.98	31.45	49.21	0.86
1	2243	100 Year w C	65.34	245.58	247.23		247.44	0.007225	2.9	37.67	50.58	0.8
1	2243	Hazel	43.65	245.58	247.04		247.21	0.007201	2.61	28.02	48.69	0.78
1	2243	Hazel w CC	51.91	245.58	247.17		247.33	0.005778	2.52	34.57	49.69	0.71
1	2218	100 Year	55.85	245.17	247.06		247.19	0.002657	1.96	38.27	40.09	0.5
1	2218	100 Year w C	65.34	245.17	247.18		247.32	0.002618	2.04	43.08	41.89	0.5
1	2218	Hazel	43.65	245.17	247.02		247.1	0.00185	1.61	36.53	39.58	0.41
1	2218	Hazel w CC	51.91	245.17	247.14		247.23	0.001845	1.69	41.4	41.37	0.42
1	2191	100 Year	55.85	244.55	247.02		247.12	0.001822	1.8	43.65	40.11	0.41
1	2191	100 Year w C	65.34	244.55	247.14		247.25	0.00188	1.9	48.36	41.26	0.42
1	2191	Hazel	43.65	244.55	246.99		247.06	0.001198	1.45	42.51	39.83	0.33
1	2191	Hazel w CC	51.91	244.55	247.11		247.18	0.00126	1.54	47.32	41.05	0.34
1	2167	100 Year	55.85	244.3	247.04		247.08	0.000511	1.13	67.98	46.62	0.23
1	2167	100 Year w C	65.34	244.3	247.16		247.21	0.000568	1.23	73.49	47.63	0.25
1	2167	Hazel	43.65	244.3	247.01		247.03	0.00033	0.9	66.32	45.21	0.19
1	2167	Hazel w CC	51.91	244.3	247.13		247.16	0.00038	1	71.92	47.39	0.2
1	2141	100 Year	55.85	244.05	247.05		247.07	0.000234	0.83	93.76	54.73	0.16
1	2141	100 Year w C	65.34	244.05	247.17		247.19	0.000265	0.9	100.25	55.65	0.17
1	2141	Hazel	43.65	244.05	247.01		247.02	0.000152	0.66	91.7	54.43	0.13
1	2141	Hazel w CC	51.91	244.05	247.13		247.15	0.000177	0.73	98.32	55.38	0.14
1	2122	100 Year	55.85	243.68	247.05		247.06	0.000124	0.63	113.98	55.67	0.12
1	2122	100 Year w C	65.34	243.68	247.17		247.18	0.000145	0.7	120.58	56.48	0.12
1	2122	Hazel	43.65	243.68	247.01		247.02	0.00008	0.51	111.86	55.38	0.09
1	2122	Hazel w CC	51.91	243.68	247.13		247.14	0.000096	0.57	118.59	56.24	0.1
1	2094	100 Year	55.85	243.94	247.05		247.06	0.000113	0.61	120.85	58.64	0.11

1	2094	100 Year w C	65.34	243.94	247.16		247.18	0.000132	0.67	127.77	59.65	0.12
1	2094	Hazel	43.65	243.94	247.01		247.02	0.000073	0.48	118.71	58.33	0.09
1	2094	Hazel w CC	51.91	243.94	247.13		247.14	0.000087	0.54	125.77	59.36	0.1
1	2072	100 Year	55.85	243.45	247.05		247.06	0.000082	0.56	131.94	61.59	0.1
1	2072	100 Year w C	65.34	243.45	247.16		247.18	0.000096	0.62	139.2	62.35	0.11
1	2072	Hazel	43.65	243.45	247.01		247.02	0.000052	0.44	129.68	61.18	0.08
1	2072	Hazel w CC	51.91	243.45	247.13		247.14	0.000064	0.5	137.1	62.14	0.09
1	2045	100 Year	55.85	243.33	246.99		247.05	0.000495	1.34	65.23	53.72	0.24
1	2045	100 Year w C	65.34	243.33	247.09		247.16	0.000578	1.48	71.22	57.96	0.26
1	2045	Hazel	43.65	243.33	246.97		247.01	0.000309	1.05	64.48	53.17	0.19
1	2045	Hazel w CC	51.91	243.33	247.08		247.13	0.000369	1.18	70.76	57.88	0.21
1	2026	100 Year	50.34	243.36	246.99		247.03	0.000369	1.07	67.89	41.15	0.19
1	2026	100 Year w C	59.9	243.36	247.09		247.15	0.000453	1.21	72.3	42.99	0.21
1	2026	Hazel	47.91	243.36	246.96		247	0.000348	1.03	66.77	39.18	0.19
1	2026	Hazel w CC	57.4	243.36	247.07		247.12	0.00043	1.17	71.22	42.76	0.21
1	2006	100 Year	50.34	242.86	246.89	244.95	247	0.000986	1.63	45.12	39.91	0.31
1	2006	100 Year w C	59.9	242.86	246.97	245.19	247.11	0.001205	1.83	48.39	40.48	0.35
1	2006	Hazel	47.91	242.86	246.87	244.89	246.97	0.000931	1.57	44.22	39.76	0.31
1	2006	Hazel w CC	57.4	242.86	246.95	245.13	247.08	0.001144	1.78	47.63	40.35	0.34
1	McConkey Pl	Culvert										
1	1971	100 Year	50.34	242.25	246.23	244.78	246.6	0.004829	2.7	20.52	28.47	0.58
1	1971	100 Year w C	59.9	242.25	246.24	245.05	246.76	0.006829	3.21	20.54	28.48	0.7
1	1971	Hazel	47.91	242.25	246.22	244.71	246.56	0.004509	2.59	20.04	28.35	0.56
1	1971	Hazel w CC	57.4	242.25	246.23	244.98	246.71	0.006305	3.08	20.45	28.45	0.67
1	1954	100 Year	50.34	242	246.37		246.42	0.0006	1.13	58.71	32.59	0.19
1	1954	100 Year w C	59.9	242	246.43		246.5	0.000816	1.33	60.93	38.78	0.22
1	1954	Hazel	47.91	242	246.34		246.39	0.000561	1.08	57.89	29.93	0.18
1	1954	Hazel w CC	57.4	242	246.41		246.48	0.000768	1.28	60.19	38.33	0.21
1	1933	100 Year	50.34	241.84	246.38		246.4	0.000348	0.9	88.49	88.18	0.15
1	1933	100 Year w C	59.9	241.84	246.44		246.48	0.000445	1.03	93.55	91.53	0.17
1	1933	Hazel	47.91	241.84	246.35		246.37	0.000329	0.87	86.41	86.46	0.14
1	1933	Hazel w CC	57.4	241.84	246.42		246.46	0.000422	1	91.98	90.26	0.16
1	1914	100 Year	50.34	241.94	246.38		246.39	0.000151	0.62	137.87	155.21	0.1
1	1914	100 Year w C	59.9	241.94	246.45		246.47	0.000191	0.71	144.7	164.53	0.11
1	1914	Hazel	47.91	241.94	246.36		246.37	0.000143	0.6	135.09	151.58	0.1
1	1914	Hazel w CC	57.4	241.94	246.43		246.44	0.000181	0.68	142.61	158.25	0.11
1	1891	100 Year	50.34	241.36	246.39		246.39	0.000038	0.36	226.55	204.24	0.06
1	1891	100 Year w C	59.9	241.36	246.46		246.46	0.00005	0.42	234.09	213.18	0.06
1	1891	Hazel	47.91	241.36	246.36		246.36	0.000036	0.35	223.48	200.43	0.05
1	1891	Hazel w CC	57.4	241.36	246.43		246.44	0.000047	0.4	231.8	210.52	0.06
1	1866	100 Year	50.34	241.04	246.39		246.39	0.000015	0.21	353.78	178.95	0.03
1	1866	100 Year w C	59.9	241.04	246.46		246.46	0.000019	0.24	366.16	179.24	0.03
1	1866	Hazel	47.91	241.04	246.36		246.36	0.000014	0.2	348.74	178.95	0.03
1	1866	Hazel w CC	57.4	241.04	246.44		246.44	0.000018	0.23	362.41	179.09	0.03
1	1848	100 Year	50.34	240.46	246.39		246.39	0.000007	0.18	558.39	276.84	0.02
1	1848	100 Year w C	59.9	240.46	246.46		246.46	0.000009	0.2	577.69	280.4	0.03
1	1848	Hazel	47.91	240.46	246.36		246.36	0.000006	0.17	550.61	274.58	0.02
1	1848	Hazel w CC	57.4	240.46	246.44		246.44	0.000009	0.2	571.83	279.83	0.03
1	1831	100 Year	50.34	240.25	246.37	246.14	246.38	0.00213	0.85	105.58	235.25	0.25
1	1831	100 Year w C	59.9	240.25	246.44	246.16	246.45	0.001976	0.85	122.03	237.11	0.24
1	1831	Hazel	47.91	240.25	246.34	244.16	246.36	0.002351	0.88	98.54	234.05	0.26
1	1831	Hazel w CC	57.4	240.25	246.42	246.15	246.43	0.002057	0.86	116.96	236.49	0.25
1	9	Rail Line										
1	1804	100 Year	50.34	239.48	243.5	243.5	245.5	0.008465	6.27	8.03	127.36	1

1	1804	100 Year w C	59.9	239.48	243.99	243.99	246.24	0.00817	6.65	9.01	155.8	1
1	1804	Hazel	47.91	239.48	243.36	243.36	245.3	0.008595	6.17	7.76	122.69	1
1	1804	Hazel w CC	57.4	239.48	243.87	243.87	246.05	0.008209	6.55	8.77	154.59	1
1	1789	100 Year	59.73	239.35	241.49	241.3	241.85	0.008456	2.67	22.46	19.62	0.78
1	1789	100 Year w C	71.51	239.35	241.49	241.44	242.01	0.011929	3.17	22.58	19.66	0.93
1	1789	Hazel	56.69	239.35	241.48	241.26	241.81	0.00778	2.55	22.3	19.57	0.75
1	1789	Hazel w CC	67.96	239.35	241.49	241.4	241.96	0.010741	3.01	22.6	19.67	0.88
1	1770	100 Year	59.73	239.17	241.39	241.39	241.56	0.01216	2.13	33.73	93.79	0.56
1	1770	100 Year w C	71.51	239.17	241.5	241.44	241.63	0.008069	1.81	45.33	119.92	0.46
1	1770	Hazel	56.69	239.17	241.38	241.38	241.55	0.012265	2.12	32.3	92.1	0.56
1	1770	Hazel w CC	67.96	239.17	241.51	241.43	241.62	0.006878	1.68	46.31	120.64	0.42
1	Huron Rd		Culvert									
1	1742	100 Year	59.73	238.76	240.89	240.89	241.02	0.004126	2.46	65.71	172.89	0.65
1	1742	100 Year w C	71.51	238.76	240.91	240.91	241.07	0.00528	2.8	68.57	173.72	0.73
1	1742	Hazel	56.69	238.76	240.89	240.89	241	0.003892	2.38	64.57	172.59	0.63
1	1742	Hazel w CC	67.96	238.76	240.9	240.9	241.05	0.005091	2.74	66.91	173.24	0.72
1	1716	100 Year	59.73	238.55	239.74	239.74	240.03	0.012811	3.06	27.32	47.83	1.01
1	1716	100 Year w C	71.51	238.55	239.87	239.87	240.12	0.010316	2.98	34.66	67.09	0.93
1	1716	Hazel	56.69	238.55	239.71	239.71	240	0.013493	3.07	25.83	44.4	1.03
1	1716	Hazel w CC	67.96	238.55	239.84	239.84	240.1	0.010599	2.97	32.87	64.73	0.93
1	1694	100 Year	59.73	238.22	239.57	239.4	239.65	0.002649	1.57	51.45	99.86	0.47
1	1694	100 Year w C	71.51	238.22	239.63	239.44	239.73	0.002626	1.63	58.09	101.73	0.47
1	1694	Hazel	56.69	238.22	239.55	239.39	239.63	0.002645	1.56	49.74	99.46	0.47
1	1694	Hazel w CC	67.96	238.22	239.61	239.43	239.71	0.00265	1.62	56.01	100.89	0.47
1	1664	100 Year	59.73	237.66	239.3	239.3	239.5	0.010675	2.99	39.45	93.92	0.92
1	1664	100 Year w C	71.51	237.66	239.35	239.35	239.58	0.011065	3.14	44.84	104.57	0.94
1	1664	Hazel	56.69	237.66	239.28	239.28	239.48	0.010726	2.96	37.85	89.67	0.92
1	1664	Hazel w CC	67.96	237.66	239.34	239.34	239.56	0.010714	3.07	43.61	102.77	0.92
1	1651	100 Year	59.73	237.37	238.88	238.59	239	0.002928	2.57	46.43	298.06	0.75
1	1651	100 Year w C	71.51	237.37	238.95	238.69	239.09	0.003241	2.8	50.9	300.4	0.79
1	1651	Hazel	56.69	237.37	238.86	238.57	238.97	0.002934	2.53	44.63	297.41	0.74
1	1651	Hazel w CC	67.96	237.37	238.91	238.66	239.05	0.00337	2.8	48.44	299.39	0.8
1	1615	100 Year	59.73	236.95	238.92		238.93	0.000467	0.57	131.55	152.43	0.16
1	1615	100 Year w C	71.51	236.95	238.99		239.01	0.00055	0.65	140.15	152.77	0.18
1	1615	Hazel	56.69	236.95	238.9		238.91	0.000454	0.56	128.34	152.31	0.16
1	1615	Hazel w CC	67.96	236.95	238.96		238.97	0.000546	0.63	135.99	152.61	0.18
1	1563	100 Year	59.73	236.79	238.91		238.92	0.000173	0.56	160.9	155.57	0.13
1	1563	100 Year w C	71.51	236.79	238.98		238.99	0.000218	0.64	167.66	156.1	0.15
1	1563	Hazel	56.69	236.79	238.89		238.89	0.000164	0.54	158.33	155.37	0.13
1	1563	Hazel w CC	67.96	236.79	238.95		238.95	0.00021	0.62	164.3	155.84	0.15
1	1544	100 Year	79.27	236.79	238.88	237.59	238.91	0.000542	1.04	108.33	171.01	0.24
1	1544	100 Year w C	96.84	236.79	238.94	237.68	238.98	0.000732	1.23	111.74	171.6	0.28
1	1544	Hazel	73.53	236.79	238.86	237.56	238.89	0.000485	0.97	106.97	170.84	0.22
1	1544	Hazel w CC	88.45	236.79	238.91	237.63	238.95	0.000641	1.14	110.06	171.36	0.26
1	1506	100 Year	79.27	236.59	238.69	238.69	238.83	0.004474	2.11	72.26	225.07	0.62
1	1506	100 Year w C	96.84	236.59	238.74	238.74	238.89	0.004648	2.22	84.66	231	0.64
1	1506	Hazel	73.53	236.59	238.67	238.67	238.81	0.004321	2.05	68.47	221.09	0.61
1	1506	Hazel w CC	88.45	236.59	238.73	238.73	238.86	0.004347	2.12	80.81	231	0.61
1	4 Little Ave		Culvert									
1	1483	100 Year	79.27	236.45	238.38	238.38	238.52	0.005384	2.27	69.23	223.47	0.68
1	1483	100 Year w C	96.84	236.45	238.42	238.42	238.57	0.005847	2.43	78.7	232.5	0.71
1	1483	Hazel	73.53	236.45	238.36	238.36	238.5	0.005216	2.22	65.95	220.95	0.67
1	1483	Hazel w CC	88.45	236.45	238.4	238.4	238.55	0.00564	2.36	74.28	228.79	0.7
1	1463	100 Year	79.27	236.48	238	238	238.23	0.005374	2.22	45.83	112.16	0.67

1	1234	100 Year	79.27	234.64	237.72		237.73	0.000175	0.72	158.6	86.02	0.14
1	1234	100 Year w C	96.84	234.64	237.82		237.84	0.000224	0.83	167.26	86.94	0.16
1	1234	Hazel	73.53	234.64	237.71		237.72	0.000153	0.67	157.69	85.93	0.13
1	1234	Hazel w CC	88.45	234.64	237.8		237.82	0.000191	0.76	166.02	86.81	0.15
1	1224	100 Year	79.27	234.66	237.72		237.73	0.000137	0.65	164.69	81	0.12
1	1224	100 Year w C	96.84	234.66	237.82		237.83	0.000176	0.75	172.82	81.89	0.14
1	1224	Hazel	73.53	234.66	237.71		237.72	0.00012	0.6	163.83	80.93	0.12
1	1224	Hazel w CC	88.45	234.66	237.8		237.82	0.00015	0.69	171.66	81.74	0.13
1	1212	100 Year	79.27	234.98	237.71		237.73	0.000164	0.67	157.2	82.71	0.13
1	1212	100 Year w C	96.84	234.98	237.81		237.83	0.000209	0.77	165.42	83.74	0.15
1	1212	Hazel	73.53	234.98	237.7		237.72	0.000143	0.62	156.36	82.59	0.13
1	1212	Hazel w CC	88.45	234.98	237.8		237.81	0.000178	0.71	164.3	83.63	0.14
1	1198	100 Year	79.27	234.62	237.71		237.72	0.00009	0.52	183.53	84.15	0.1
1	1198	100 Year w C	96.84	234.62	237.81		237.83	0.000117	0.61	191.97	85.29	0.11
1	1198	Hazel	73.53	234.62	237.7		237.71	0.000078	0.49	182.67	83.96	0.09
1	1198	Hazel w CC	88.45	234.62	237.8		237.81	0.000099	0.56	190.79	85.19	0.1
1	1110	100 Year	79.27	234.3	237.7		237.72	0.0001	0.59	173.74	83.21	0.11
1	1110	100 Year w C	96.84	234.3	237.8		237.82	0.000131	0.69	181.84	84.86	0.12
1	1110	Hazel	73.53	234.3	237.7		237.71	0.000087	0.55	173	82.83	0.1
1	1110	Hazel w CC	88.45	234.3	237.79		237.8	0.000111	0.63	180.85	84.73	0.11
1	1085	100 Year	79.27	234.14	237.7		237.71	0.000128	0.7	157.14	71.83	0.12
1	1085	100 Year w C	96.84	234.14	237.79		237.81	0.00017	0.82	163.92	72.73	0.14
1	1085	Hazel	73.53	234.14	237.69		237.7	0.000112	0.65	156.56	71.75	0.12
1	1085	Hazel w CC	88.45	234.14	237.78		237.8	0.000144	0.75	163.17	72.64	0.13
1	1066	100 Year	79.27	234.34	237.69		237.71	0.000175	0.8	136.6	61.07	0.14
1	1066	100 Year w C	96.84	234.34	237.78		237.81	0.000233	0.94	142.16	61.49	0.17
1	1066	Hazel	73.53	234.34	237.68		237.7	0.000152	0.74	136.17	61.03	0.13
1	1066	Hazel w CC	88.45	234.34	237.77		237.79	0.000197	0.86	141.64	61.45	0.15
1	1049	100 Year	79.27	234.07	237.68		237.71	0.000182	0.85	120.62	47.12	0.15
1	1049	100 Year w C	96.84	234.07	237.77		237.8	0.000245	1	124.74	47.49	0.17
1	1049	Hazel	73.53	234.07	237.68		237.7	0.000157	0.79	120.34	47.09	0.14
1	1049	Hazel w CC	88.45	234.07	237.76		237.79	0.000206	0.92	124.43	47.47	0.16
1	1036	100 Year	79.27	234.05	237.66		237.7	0.000313	1.08	93.02	52.49	0.19
1	1036	100 Year w C	96.84	234.05	237.74		237.8	0.00042	1.28	97.43	57.79	0.22
1	1036	Hazel	73.53	234.05	237.65		237.69	0.00027	1.01	92.89	52.39	0.18
1	1036	Hazel w CC	88.45	234.05	237.74		237.79	0.000351	1.17	97.37	57.75	0.21
1	1024	100 Year	79.27	233.92	237.66		237.69	0.000185	0.87	120.19	103.08	0.15
1	1024	100 Year w C	96.84	233.92	237.75		237.79	0.000242	1.01	129.49	120.42	0.17
1	1024	Hazel	73.53	233.92	237.66		237.69	0.00016	0.81	119.82	101.86	0.14
1	1024	Hazel w CC	88.45	233.92	237.74		237.78	0.000204	0.93	129.12	119.93	0.16
1	1000	100 Year	79.27	233.16	237.62	235.62	237.68	0.000724	0.89	76.45	48.61	0.17
1	1000	100 Year w C	96.84	233.16	237.68	235.85	237.77	0.000944	1.03	79.32	51.55	0.19
1	1000	Hazel	73.53	233.16	237.62	235.53	237.68	0.000618	0.83	76.62	49.22	0.15
1	1000	Hazel w CC	88.45	233.16	237.69	235.75	237.76	0.000771	0.94	79.78	52	0.17
1	982	100 Year	79.27	233.12	237.56	235.43	237.66	0.001005	1.45	66.17	49.34	0.24
1	982	100 Year w C	96.84	233.12	237.6	235.66	237.74	0.001422	1.74	67.73	51.5	0.29
1	982	Hazel	73.53	233.12	237.58	235.36	237.66	0.000851	1.34	66.65	50.4	0.22
1	982	Hazel w CC	88.45	233.12	237.63	235.56	237.74	0.001144	1.57	68.79	53.34	0.26
1	966	100 Year	76.06	232.95	237.55	235.6	237.64	0.001655	1.45	60.43	73.23	0.25
1	966	100 Year w C	92.89	232.95	237.58	235.83	237.71	0.002348	1.73	61.59	76.85	0.3
1	966	Hazel	75.64	232.95	237.54	235.6	237.64	0.00164	1.44	60.39	73.15	0.25
1	966	Hazel w CC	91.39	232.95	237.58	235.81	237.72	0.002247	1.7	61.85	77.18	0.29
1	946	100 Year	76.06	232.74	237.48	237.39	237.6	0.002089	1.83	67.41	161.52	0.43
1	946	100 Year w C	92.89	232.74	237.53	237.47	237.67	0.002477	2.03	75.09	162.67	0.47
1	946	Hazel	75.64	232.74	237.48	237.38	237.6	0.00209	1.83	67.03	161.49	0.43
1	946	Hazel w CC	91.39	232.74	237.54	237.44	237.67	0.002224	1.93	77.66	162.88	0.45

1	Young St		Culvert									
1	903	100 Year	76.06	231.89	236.79	236.79	236.94	0.002326	2.17	52.83	137.8	0.46
1	903	100 Year w C	92.89	231.89	236.84	236.84	237.01	0.002483	2.28	59.98	138.94	0.48
1	903	Hazel	75.64	231.89	236.8	236.8	236.94	0.002243	2.14	53.35	137.88	0.45
1	903	Hazel w CC	91.39	231.89	236.84	236.84	237	0.002542	2.3	58.74	138.72	0.49
1	875	100 Year	76.06	231.21	233.38	233.38	233.9	0.006246	2.69	25	26.98	0.64
1	875	100 Year w C	92.89	231.21	233.54	233.54	234.11	0.005601	2.7	29.24	27.73	0.62
1	875	Hazel	75.64	231.21	233.38	233.38	233.89	0.006302	2.7	24.84	26.95	0.65
1	875	Hazel w CC	91.39	231.21	233.52	233.52	234.1	0.005644	2.69	28.88	27.67	0.62
1	851	100 Year	76.06	230.62	233.11		233.33	0.003045	2.06	37.3	32.38	0.46
1	851	100 Year w C	92.89	230.62	233.31		233.55	0.002606	2.02	44.05	33.62	0.43
1	851	Hazel	75.64	230.62	233.11		233.32	0.003016	2.05	37.28	32.37	0.46
1	851	Hazel w CC	91.39	230.62	233.3		233.53	0.002612	2.02	43.59	33.54	0.43
1	832	100 Year	76.06	230.23	233.04		233.28	0.0017	1.39	39.24	28.17	0.3
1	832	100 Year w C	92.89	230.23	233.21		233.5	0.001701	1.46	44.12	28.46	0.3
1	832	Hazel	75.64	230.23	233.04		233.28	0.001679	1.38	39.25	28.17	0.3
1	832	Hazel w CC	91.39	230.23	233.2		233.49	0.001685	1.45	43.82	28.45	0.3
1	815	100 Year	76.06	229.6	232.81		233.22	0.005299	3.06	29.43	22.97	0.61
1	815	100 Year w C	92.89	229.6	232.83	232.83	233.42	0.007638	3.69	29.81	23.16	0.74
1	815	Hazel	75.64	229.6	232.83		233.22	0.005088	3.01	29.75	23.13	0.6
1	815	Hazel w CC	91.39	229.6	232.79	232.79	233.4	0.007918	3.73	29.05	22.79	0.75
1	803	100 Year	76.06	229.49	232.93		233.11	0.001897	2.06	44.6	24.89	0.4
1	803	100 Year w C	92.89	229.49	232.99		233.25	0.0026	2.45	46.07	25.31	0.47
1	803	Hazel	75.64	229.49	232.94		233.12	0.001855	2.04	44.8	24.95	0.4
1	803	Hazel w CC	91.39	229.49	232.99		233.24	0.002497	2.4	46.21	25.35	0.46
1	789	100 Year	76.06	229.44	233.03		233.06	0.000175	0.8	108.06	43.44	0.14
1	789	100 Year w C	92.89	229.44	233.13		233.17	0.000232	0.94	112.47	44.18	0.17
1	789	Hazel	75.64	229.44	233.04		233.07	0.000172	0.79	108.31	43.47	0.14
1	789	Hazel w CC	91.39	229.44	233.13		233.17	0.000225	0.92	112.46	44.18	0.16
1	773	100 Year	76.06	229.07	233.02	230.84	233.06	0.000202	0.86	98.95	51.25	0.15
1	773	100 Year w C	92.89	229.07	233.12	230.98	233.17	0.000269	1.02	104.17	55.68	0.18
1	773	Hazel	75.64	229.07	233.03	230.84	233.06	0.000198	0.86	99.26	51.52	0.15
1	773	Hazel w CC	91.39	229.07	233.12	230.97	233.17	0.000261	1	104.19	55.68	0.18
1	761	100 Year	76.06	228.95	233.01	230.64	233.05	0.000275	0.99	100.09	54.82	0.17
1	761	100 Year w C	92.89	228.95	233.1	230.79	233.16	0.000369	1.17	105.24	55.85	0.2
1	761	Hazel	75.64	228.95	233.02	230.64	233.06	0.00027	0.98	100.43	54.88	0.17
1	761	Hazel w CC	91.39	228.95	233.11	230.78	233.16	0.000357	1.15	105.29	55.86	0.19
1	752	100 Year	76.06	228.71	233.01	230.57	233.05	0.00033	1.07	98.47	47.18	0.18
1	752	100 Year w C	92.89	228.71	233.1	230.74	233.16	0.000445	1.27	102.83	48.01	0.21
1	752	Hazel	75.64	228.71	233.01	230.56	233.06	0.000324	1.06	98.77	47.25	0.17
1	752	Hazel w CC	91.39	228.71	233.1	230.72	233.16	0.00043	1.24	102.88	48.01	0.2
1	741	100 Year	76.06	228.39	232.93	230.78	233.04	0.00056	1.63	71.6	35.78	0.26
1	741	100 Year w C	92.89	228.39	232.98	231.03	233.14	0.000788	1.95	73.57	36.02	0.31
1	741	Hazel	75.64	228.39	232.93	230.77	233.05	0.000549	1.62	71.88	35.82	0.26
1	741	Hazel w CC	91.39	228.39	232.99	231	233.14	0.000759	1.92	73.77	36.05	0.3
1	725	100 Year	76.06	228.35	232.87	230.98	233.02	0.001324	1.82	56.52	62.14	0.3
1	725	100 Year w C	92.89	228.35	232.89	231.24	233.12	0.001917	2.2	57.36	62.47	0.37
1	725	Hazel	75.64	228.35	232.88	230.97	233.03	0.001295	1.8	56.83	62.29	0.3
1	725	Hazel w CC	91.39	228.35	232.9	231.22	233.12	0.001835	2.15	57.7	62.58	0.36
1	712	100 Year	76.06	228.11	232.89	230.54	233	0.000792	1.5	61.3	102.14	0.24
1	712	100 Year w C	92.89	228.11	232.92	230.77	233.08	0.001144	1.81	62.13	103.89	0.29
1	712	Hazel	75.64	228.11	232.9	230.53	233	0.000777	1.49	61.51	102.62	0.24
1	712	Hazel w CC	91.39	228.11	232.93	230.75	233.08	0.001099	1.78	62.34	104.33	0.28
1	697	100 Year	76.06	227.97	232.94	229.68	232.96	0.000206	0.64	119.49	166.4	0.11

1	697	100 Year w C	92.89	227.97	233	229.84	233.03	0.000291	0.77	121.68	168.03	0.13
1	697	Hazel	75.64	227.97	232.95	229.68	232.97	0.000202	0.64	119.77	166.65	0.11
1	697	Hazel w CC	91.39	227.97	233.01	229.82	233.04	0.00028	0.76	121.88	168.15	0.13
1	677	100 Year	77.3	227.73	232.95	228.98	232.96	0.000057	0.36	218.78	184.79	0.06
1	677	100 Year w C	94.86	227.73	233.01	229.09	233.02	0.000082	0.43	222.52	196.21	0.07
1	677	Hazel	77.76	227.73	232.96	228.99	232.97	0.000057	0.36	219.21	185.65	0.06
1	677	Hazel w CC	94.03	227.73	233.02	229.09	233.03	0.00008	0.43	222.8	196.82	0.07
1	655	100 Year	77.3	226.92	232.9	232.72	232.94	0.001026	0.72	96.72	242.01	0.26
1	655	100 Year w C	94.86	226.92	232.96	232.76	233.01	0.001004	0.75	110.48	244.41	0.26
1	655	Hazel	77.76	226.92	232.91	232.72	232.95	0.000967	0.71	98.88	242.12	0.26
1	655	Hazel w CC	94.03	226.92	232.97	232.76	233.01	0.000934	0.73	112.35	245.47	0.25
1	638	Rail Line	Culvert									
1	592	100 Year	77.3	225.03	232.76	232.76	232.9	0.009542	1.96	53.77	156.32	0.78
1	592	100 Year w C	94.86	225.03	232.8	232.8	232.97	0.010234	2.12	60.44	156.4	0.82
1	592	Hazel	77.76	225.03	232.76	232.76	232.9	0.009851	1.99	53.4	156.31	0.8
1	592	Hazel w CC	94.03	225.03	232.8	232.8	232.96	0.010453	2.13	59.65	156.39	0.83
1	574	100 Year	77.3	224.78	230.23	226.66	230.24	0.000051	0.56	165.56	99.52	0.08
1	574	100 Year w C	94.86	224.78	230.4	226.8	230.41	0.000067	0.66	173.04	101.73	0.09
1	574	Hazel	77.76	224.78	230.25	226.67	230.27	0.00005	0.56	166.55	99.83	0.08
1	574	Hazel w CC	94.03	224.78	230.4	226.79	230.41	0.000065	0.65	173.23	101.77	0.09
1	565	100 Year	77.3	224.51	230.23		230.24	0.000026	0.43	214.19	106.98	0.06
1	565	100 Year w C	94.86	224.51	230.4		230.41	0.000035	0.51	223.04	108.82	0.07
1	565	Hazel	77.76	224.51	230.26		230.26	0.000026	0.43	215.35	107.22	0.06
1	565	Hazel w CC	94.03	224.51	230.4		230.41	0.000035	0.51	223.25	108.86	0.07
1	542	100 Year	77.3	224.25	230.24		230.24	0.000017	0.36	271.51	124.12	0.05
1	542	100 Year w C	94.86	224.25	230.4		230.41	0.000022	0.41	292.06	124.91	0.05
1	542	Hazel	77.76	224.25	230.26		230.26	0.000017	0.36	274.21	124.25	0.05
1	542	Hazel w CC	94.03	224.25	230.4		230.41	0.000022	0.41	292.55	124.93	0.05
1	522	100 Year	77.3	223.77	230.23		230.24	0.000018	0.38	239.63	102.26	0.05
1	522	100 Year w C	94.86	223.77	230.4		230.41	0.000024	0.45	248.47	103.79	0.06
1	522	Hazel	77.76	223.77	230.26		230.26	0.000018	0.38	240.8	102.46	0.05
1	522	Hazel w CC	94.03	223.77	230.4		230.41	0.000023	0.45	248.69	103.83	0.06
1	513	100 Year	77.3	223.76	230.24	225.38	230.24	0.000015	0.36	260	104.11	0.05
1	513	100 Year w C	94.86	223.76	230.4	225.5	230.41	0.000021	0.44	269.7	109.14	0.06
1	513	Hazel	77.76	223.76	230.26	225.38	230.26	0.000015	0.36	261.25	104.46	0.05
1	513	Hazel w CC	94.03	223.76	230.4	225.49	230.41	0.000021	0.43	269.94	109.17	0.06
1	494	100 Year	77.3	223.28	230.23	225.03	230.24	0.000013	0.34	270.83	99.15	0.04
1	494	100 Year w C	94.86	223.28	230.4	225.16	230.41	0.000017	0.41	280.56	102.62	0.05
1	494	Hazel	77.76	223.28	230.26	225.04	230.26	0.000013	0.34	272.1	99.77	0.04
1	494	Hazel w CC	94.03	223.28	230.4	225.16	230.41	0.000017	0.41	280.81	103.01	0.05
1	487	100 Year	78.35	223.33	230.23	225.16	230.24	0.000022	0.44	224.25	91.38	0.06
1	487	100 Year w C	95.86	223.33	230.4	225.3	230.41	0.000029	0.53	233.61	95.03	0.07
1	487	Hazel	79.58	223.33	230.25	225.17	230.26	0.000022	0.45	225.45	91.92	0.06
1	487	Hazel w CC	96.33	223.33	230.4	225.31	230.41	0.000029	0.53	233.82	95.07	0.07
1	481	100 Year	78.35	222.95	230.08	226.47	230.2	0.000821	1.79	64.53	56.43	0.31
1	481	100 Year w C	95.86	222.95	230.22	226.96	230.36	0.000949	1.98	73.02	71.3	0.33
1	481	Hazel	79.58	222.95	230.1	226.5	230.23	0.00081	1.79	65.87	57.27	0.31
1	481	Hazel w CC	96.33	222.95	230.22	226.97	230.37	0.000953	1.98	73.24	71.82	0.33
1	457	Hurst Dr	Culvert									
1	435	100 Year	78.35	221.97	225.41	225.41	227.11	0.008035	5.77	13.59	33.62	1
1	435	100 Year w C	95.86	221.97	225.9	225.9	227.84	0.007694	6.17	15.54	35.22	1
1	435	Hazel	79.58	221.97	225.45	225.45	227.16	0.008011	5.8	13.73	33.73	1
1	435	Hazel w CC	96.33	221.97	225.92	225.92	227.86	0.007658	6.17	15.61	35.28	1
1	423	100 Year	78.35	221.9	223.82	223.82	224.27	0.010709	3.51	27.41	29.94	0.94

1	423	100 Year w C	95.86	221.9	223.95	223.95	224.46	0.010453	3.69	31.57	30.64	0.95
1	423	Hazel	79.58	221.9	223.83	223.83	224.29	0.010726	3.53	27.68	30	0.95
1	423	Hazel w CC	96.33	221.9	223.96	223.96	224.47	0.010443	3.69	31.68	30.66	0.95
1	402	100 Year	78.35	221.74	223.26	223.26	223.65	0.011352	3.31	29.52	37.44	0.96
1	402	100 Year w C	95.86	221.74	223.41	223.38	223.81	0.009657	3.31	35.39	38.07	0.91
1	402	Hazel	79.58	221.74	223.26	223.26	223.66	0.01133	3.32	29.84	37.47	0.96
1	402	Hazel w CC	96.33	221.74	223.42	223.38	223.82	0.009539	3.3	35.64	38.09	0.9
1	377	100 Year	78.35	221.27	223.2		223.38	0.003943	2.28	43.57	43.41	0.59
1	377	100 Year w C	95.86	221.27	223.45		223.62	0.002967	2.19	54.45	44.74	0.53
1	377	Hazel	79.58	221.27	223.22		223.4	0.003851	2.27	44.34	43.49	0.59
1	377	Hazel w CC	96.33	221.27	223.46		223.62	0.002948	2.19	54.73	44.78	0.52
1	349	100 Year	78.35	220.86	223.15		223.29	0.00206	2.03	49.53	38.29	0.45
1	349	100 Year w C	95.86	220.86	223.4		223.55	0.001783	2.04	59.27	39.29	0.43
1	349	Hazel	79.58	220.86	223.17		223.31	0.002037	2.03	50.22	38.38	0.45
1	349	Hazel w CC	96.33	220.86	223.41		223.55	0.001777	2.04	59.53	39.31	0.43
1	325	100 Year	78.35	220.55	223.11		223.24	0.001711	1.95	49.02	31.96	0.41
1	325	100 Year w C	95.86	220.55	223.35		223.5	0.001617	2.03	56.96	32.64	0.41
1	325	Hazel	79.58	220.55	223.13		223.26	0.001703	1.95	49.59	32.01	0.41
1	325	Hazel w CC	96.33	220.55	223.36		223.51	0.001615	2.03	57.17	32.66	0.41
1	308	100 Year	78.35	220.49	222.72	222.53	223.16	0.006297	3.44	27.65	20.36	0.77
1	308	100 Year w C	95.86	220.49	222.94	222.72	223.42	0.005946	3.58	32.26	21.25	0.76
1	308	Hazel	79.58	220.49	222.73	222.54	223.18	0.006267	3.45	27.98	20.42	0.77
1	308	Hazel w CC	96.33	220.49	222.94	222.72	223.43	0.005938	3.59	32.38	21.27	0.76
1	293	100 Year	78.35	220.34	222.41	222.41	223.03	0.008721	3.89	23.94	19.12	0.92
1	293	100 Year w C	95.86	220.34	222.59	222.59	223.29	0.008734	4.15	27.51	19.67	0.93
1	293	Hazel	79.58	220.34	222.42	222.42	223.05	0.008728	3.91	24.19	19.16	0.92
1	293	Hazel w CC	96.33	220.34	222.6	222.6	223.3	0.008727	4.15	27.61	19.69	0.93
1	269	100 Year	78.35	219.97	222.39		222.57	0.002786	2.3	44.37	31.66	0.52
1	269	100 Year w C	95.86	219.97	222.53		222.75	0.003092	2.54	48.93	32.14	0.56
1	269	Hazel	79.58	219.97	222.41		222.59	0.002762	2.3	44.95	31.72	0.52
1	269	Hazel w CC	96.33	219.97	222.54		222.76	0.003086	2.54	49.13	32.16	0.56
1	253	100 Year	78.35	219.89	222.38		222.52	0.002072	2.08	50.02	34.2	0.45
1	253	100 Year w C	95.86	219.89	222.52		222.7	0.002328	2.3	55.02	35.9	0.48
1	253	Hazel	79.58	219.89	222.4		222.54	0.002057	2.08	50.65	34.31	0.45
1	253	Hazel w CC	96.33	219.89	222.53		222.7	0.002323	2.3	55.24	35.91	0.48
1	230	100 Year	78.35	219.65	222.34	221.87	222.46	0.002015	1.67	51.33	47.06	0.42
1	230	100 Year w C	95.86	219.65	222.49	221.98	222.63	0.002	1.76	58.48	49.45	0.42
1	230	Hazel	79.58	219.65	222.36	221.88	222.48	0.001962	1.66	52.28	47.37	0.41
1	230	Hazel w CC	96.33	219.65	222.5	221.98	222.63	0.001984	1.76	58.8	49.56	0.42
1	221	The Blvd	Culvert									
1	213	100 Year	78.35	219.57	221.63	221.63	221.98	0.006643	2.24	33.62	51.89	0.72
1	213	100 Year w C	95.86	219.57	221.74	221.74	222.12	0.006368	2.35	39.26	52.87	0.72
1	213	Hazel	79.58	219.57	221.64	221.64	221.99	0.006598	2.25	34.07	51.96	0.72
1	213	Hazel w CC	96.33	219.57	221.74	221.74	222.13	0.006362	2.36	39.41	52.9	0.72
1	200	100 Year	78.35	219.16	220.92		221.02	0.005994	1.88	65.38	230.46	0.55
1	200	100 Year w C	95.86	219.16	221.01		221.11	0.005925	1.95	76.38	232.56	0.55
1	200	Hazel	79.58	219.16	220.94		221.03	0.005742	1.85	67.08	231.06	0.54
1	200	Hazel w CC	96.33	219.16	221.01		221.11	0.006009	1.97	76.17	232.54	0.56
1	183	100 Year	78.32	219.21	220.65	220.65	220.85	0.01584	2.71	45.34	180.98	0.85
1	183	100 Year w C	95.88	219.21	220.69	220.69	220.93	0.018145	2.98	49.77	182.43	0.92
1	183	Hazel	80.29	219.21	220.65	220.65	220.86	0.017039	2.8	44.96	180.7	0.89
1	183	Hazel w CC	97.25	219.21	220.71	220.71	220.93	0.016753	2.89	51.61	182.53	0.89
1	169	100 Year	78.32	218.93	219.96	219.82	220.01	0.003885	1.18	79.2	217.06	0.48
1	169	100 Year w C	95.88	218.93	220.01	219.85	220.07	0.003713	1.2	91.31	220.95	0.48
1	169	Hazel	80.29	218.93	219.93	219.82	219.99	0.005103	1.33	73.75	214.32	0.55

1	169	Hazel w CC	97.25	218.93	220	219.85	220.06	0.004183	1.26	88.73	219.31	0.51
1	160	Brennan Ave	Culvert									
1	152	100 Year	78.32	218.7	219.92	219.82	219.99	0.003183	1.25	71.8	225.68	0.45
1	152	100 Year w C	95.88	218.7	219.98	219.85	220.05	0.002905	1.22	85.05	233.74	0.44
1	152	Hazel	80.29	218.7	219.93	219.82	219.99	0.003179	1.25	73.07	227.02	0.45
1	152	Hazel w CC	97.25	218.7	219.98	219.86	220.05	0.002895	1.22	85.97	234.28	0.44
1	120	100 Year	78.32	218.89	219.74		219.82	0.009886	1.86	67.65	198.05	0.79
1	120	100 Year w C	95.88	218.89	219.79		219.88	0.010373	2.01	79.01	223.59	0.81
1	120	Hazel	80.29	218.89	219.75		219.83	0.009925	1.88	68.92	199.14	0.79
1	120	Hazel w CC	97.25	218.89	219.8		219.89	0.010376	2.02	79.98	225.52	0.82
1	107	100 Year	78.32	218.87	219.79		219.79	0.00007	0.18	225.44	387.25	0.07
1	107	100 Year w C	95.88	218.87	219.85		219.86	0.000079	0.2	249.26	405.91	0.07
1	107	Hazel	80.29	218.87	219.79		219.8	0.000071	0.18	228.13	389.76	0.07
1	107	Hazel w CC	97.25	218.87	219.85		219.86	0.00008	0.2	251.09	406.4	0.07
1	80	100 Year	78.32	218.7	219.76		219.79	0.002616	0.53	111.33	286.66	0.19
1	80	100 Year w C	95.88	218.7	219.82		219.85	0.002677	0.56	128.67	311.32	0.2
1	80	Hazel	80.29	218.7	219.77		219.79	0.002628	0.53	113.23	290.47	0.19
1	80	Hazel w CC	97.25	218.7	219.82		219.85	0.00268	0.56	130.04	312.98	0.2
1	62	100 Year	78.32	218.72	219.66		219.72	0.003969	1.2	71	195.1	0.53
1	62	100 Year w C	95.88	218.72	219.71		219.78	0.004298	1.29	80.65	214.52	0.55
1	62	Hazel	80.29	218.72	219.67		219.73	0.004033	1.21	71.94	196.17	0.54
1	62	Hazel w CC	97.25	218.72	219.71		219.79	0.004366	1.31	81.32	215.9	0.55
1	44	100 Year	78.32	218.71	219.61		219.65	0.003322	1.14	100.18	314.11	0.44
1	44	100 Year w C	95.88	218.71	219.66		219.7	0.003354	1.18	116.57	351.66	0.44
1	44	Hazel	80.29	218.71	219.62		219.65	0.003367	1.15	101.55	318	0.44
1	44	Hazel w CC	97.25	218.71	219.67		219.71	0.003363	1.19	117.69	352.98	0.44
1	30	100 Year	78.32	218.73	219.57		219.6	0.004096	1.2	132.95	420.84	0.46
1	30	100 Year w C	95.88	218.73	219.62		219.65	0.004078	1.26	154.27	431.17	0.46
1	30	Hazel	80.29	218.73	219.58		219.6	0.004166	1.22	134.54	422.58	0.46
1	30	Hazel w CC	97.25	218.73	219.63		219.65	0.004091	1.26	155.62	431.72	0.46
1	16	100 Year	78.32	218.65	219.37	219.37	219.48	0.020608	2.66	68.5	315.98	1.2
1	16	100 Year w C	95.88	218.65	219.39	219.39	219.52	0.023169	2.9	76.78	326.69	1.28
1	16	Hazel	80.29	218.65	219.38	219.38	219.48	0.020006	2.64	70.65	317.5	1.19
1	16	Hazel w CC	97.25	218.65	219.4	219.4	219.52	0.023211	2.91	77.53	327.3	1.28
1	11	100 Year	78.32	217.3	219.13	217.46	219.13	0.000007	0.11	699.43	382.26	0.03
1	11	100 Year w C	95.88	217.3	219.13	217.49	219.13	0.00001	0.14	699.43	382.26	0.03
1	11	Hazel	80.29	217.3	219.13	217.46	219.13	0.000007	0.12	699.43	382.26	0.03
1	11	Hazel w CC	97.25	217.3	219.13	217.49	219.13	0.000011	0.14	699.43	382.26	0.03

Whiskey Creek - Calibration +25% Mannings

Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
			(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
1	6450	100 Year	14.25	297.18	298.04	298.04	298.36	0.020386	2.54	5.86	9.65	0.97
1	6450	Hazel	12.15	297.18	297.97	297.97	298.26	0.021148	2.42	5.22	9.39	0.97
1	6450	Hazel w CC	14.7	297.18	298.05	298.05	298.38	0.020172	2.56	6	9.71	0.97
1	6427	100 Year	14.25	296	297.92		297.99	0.001937	1.4	13.06	13.3	0.34
1	6427	Hazel	12.15	296	297.87		297.93	0.001583	1.25	12.48	12.95	0.31
1	6427	Hazel w CC	14.7	296	297.92		298	0.002037	1.44	13.12	13.35	0.35
1	6398	100 Year	14.25	295.42	297.95		297.96	0.000169	0.53	37.87	27.94	0.11
1	6398	Hazel	12.15	295.42	297.9		297.91	0.000136	0.47	36.45	27.46	0.1
1	6398	Hazel w CC	14.7	295.42	297.96		297.97	0.000178	0.54	38.05	28	0.11
1	6365	100 Year	14.25	295.1	297.95		297.96	0.000021	0.21	81.39	39.54	0.04
1	6365	Hazel	12.15	295.1	297.9		297.9	0.000017	0.18	79.35	39.21	0.04
1	6365	Hazel w CC	14.7	295.1	297.96		297.96	0.000023	0.22	81.65	39.58	0.04
1	6330	100 Year	14.25	295.11	297.95		297.96	0.000016	0.18	87.93	40.65	0.03
1	6330	Hazel	12.15	295.11	297.9		297.9	0.000013	0.16	85.85	40.02	0.03
1	6330	Hazel w CC	14.7	295.11	297.96		297.96	0.000017	0.19	88.19	40.73	0.04
1	6295	100 Year	14.25	295.1	297.95		297.95	0.000014	0.17	95.01	45.77	0.03
1	6295	Hazel	12.15	295.1	297.9		297.9	0.000011	0.15	92.68	44.52	0.03
1	6295	Hazel w CC	14.7	295.1	297.96		297.96	0.000015	0.17	95.3	45.93	0.03
1	6248	100 Year	14.25	295.14	297.94	297.48	297.95	0.000569	0.45	34.89	55.34	0.17
1	6248	Hazel	12.15	295.14	297.89	296.7	297.9	0.000534	0.42	32.14	54.7	0.16
1	6248	Hazel w CC	14.7	295.14	297.95	297.48	297.96	0.000588	0.46	35.22	55.42	0.17
1	Pond Berm	Culvert										
1	6203	100 Year	14.25	292.86	297.56	294.62	297.61	0.00096	1.16	21.27	61.08	0.25
1	6203	Hazel	12.15	292.86	297.52	294.43	297.57	0.000808	1.06	19.24	60.84	0.23
1	6203	Hazel w CC	14.7	292.86	297.56	294.65	297.62	0.000984	1.18	21.8	61.14	0.26
1	6173	100 Year	14.25	291.99	297.58	293.31	297.58	0.000002	0.1	186.38	56.96	0.01
1	6173	Hazel	12.15	291.99	297.55	293.27	297.55	0.000002	0.09	184.28	56.67	0.01
1	6173	Hazel w CC	14.7	291.99	297.59	293.31	297.59	0.000002	0.1	186.9	57.03	0.01
1	6142	100 Year	14.25	291.69	297.58	292.81	297.58	0.000002	0.11	214.62	65.56	0.01
1	6142	Hazel	12.15	291.69	297.55	292.77	297.55	0.000002	0.09	212.2	65.09	0.01
1	6142	Hazel w CC	14.7	291.69	297.59	292.82	297.59	0.000002	0.11	215.22	65.7	0.01
1	6120	100 Year	14.25	291.35	297.58	292.31	297.58	0.000001	0.06	407.66	253.21	0.01
1	6120	Hazel	12.15	291.35	297.55	292.26	297.55	0.000001	0.06	403.73	251.51	0.01
1	6120	Hazel w CC	14.7	291.35	297.59	292.32	297.59	0.000001	0.07	408.62	253.84	0.01
1	6102	100 Year	14.25	291.08	297.58	291.89	297.58	0.000001	0.05	491.43	269.85	0.01
1	6102	Hazel	12.15	291.08	297.55	291.85	297.55	0	0.05	487.16	269.25	0.01
1	6102	Hazel w CC	14.7	291.08	297.59	291.89	297.59	0.000001	0.06	492.48	270.51	0.01
1	6094	100 Year	14.25	291.03	297.58	291.88	297.58	0	0.05	505.22	118.71	0.01
1	6094	Hazel	12.15	291.03	297.55	291.83	297.55	0	0.04	500.83	118.33	0.01
1	6094	Hazel w CC	14.7	291.03	297.59	291.89	297.59	0	0.05	506.3	118.8	0.01
1	6063	100 Year	14.25	290.67	297.58	291.32	297.58	0	0.06	460.29	105.3	0.01
1	6063	Hazel	12.15	290.67	297.55	291.28	297.55	0	0.05	456.39	104.95	0.01
1	6063	Hazel w CC	14.7	290.67	297.59	291.32	297.59	0.000001	0.06	461.24	105.39	0.01
1	6039	100 Year	14.25	290.45	297.58	291.05	297.58	0.000001	0.06	411.29	97.55	0.01
1	6039	Hazel	12.15	290.45	297.55	291.01	297.55	0	0.05	407.68	97.21	0.01
1	6039	Hazel w CC	14.7	290.45	297.59	291.06	297.59	0.000001	0.06	412.17	97.63	0.01
1	6013	100 Year	14.25	290.29	297.46	293.09	297.56	0.005999	1.45	16.12	80.53	0.54
1	6013	Hazel	12.15	290.29	297.44	292.81	297.52	0.0053	1.34	14.26	80.31	0.5

1	6013	Hazel w CC	14.7	290.29	297.45	293.16	297.56	0.007077	1.56	15.14	80.42	0.58
1	Pond Berm Harvie		Culvert									
1	5942	100 Year	14.25	288.29	291.17	291.17	292.54	0.013415	5.19	2.75	33.56	1
1	5942	Hazel	12.15	288.29	290.89	290.89	292.13	0.013996	4.93	2.47	31.08	1
1	5942	Hazel w CC	14.7	288.29	291.22	291.22	292.63	0.013443	5.25	2.8	34	1
1	5897	100 Year	14.25	287.64	290.66		290.67	0.000023	0.22	86.83	44.08	0.04
1	5897	Hazel	12.15	287.64	290.49		290.49	0.000021	0.2	79.21	43.26	0.04
1	5897	Hazel w CC	14.7	287.64	290.59		290.59	0.000027	0.23	83.38	43.71	0.04
1	5863	100 Year	14.25	287.4	290.66		290.67	0.000012	0.17	116.61	49.9	0.03
1	5863	Hazel	12.15	287.4	290.49		290.49	0.000011	0.15	107.98	49.14	0.03
1	5863	Hazel w CC	14.7	287.4	290.59		290.59	0.000014	0.18	112.71	49.54	0.03
1	5810	100 Year	14.25	286.75	290.66		290.66	0.000011	0.18	133.87	60.58	0.03
1	5810	Hazel	12.15	286.75	290.49		290.49	0.00001	0.17	123.51	57.98	0.03
1	5810	Hazel w CC	14.7	286.75	290.59		290.59	0.000013	0.2	129.14	59.72	0.03
1	5777	100 Year	14.25	286.04	290.66		290.66	0.000003	0.09	283.12	158.9	0.01
1	5777	Hazel	12.15	286.04	290.49		290.49	0.000003	0.08	255.58	156.5	0.01
1	5777	Hazel w CC	14.7	286.04	290.59		290.59	0.000003	0.09	270.67	158.11	0.01
1	5762	100 Year	14.25	285.94	290.66		290.66	0.000002	0.09	316.53	136.3	0.01
1	5762	Hazel	12.15	285.94	290.49		290.49	0.000002	0.08	292.95	134.44	0.01
1	5762	Hazel w CC	14.7	285.94	290.59		290.59	0.000003	0.09	305.86	135.4	0.01
1	5739	100 Year	14.25	285.24	290.66		290.66	0.000002	0.07	335.13	120.6	0.01
1	5739	Hazel	12.15	285.24	290.49		290.49	0.000002	0.07	314.24	119.3	0.01
1	5739	Hazel w CC	14.7	285.24	290.59		290.59	0.000002	0.08	325.69	119.94	0.01
1	5722	100 Year	14.25	285.11	290.66		290.66	0.000002	0.06	338.79	119.29	0.01
1	5722	Hazel	12.15	285.11	290.49		290.49	0.000002	0.06	318.17	116.93	0.01
1	5722	Hazel w CC	14.7	285.11	290.59		290.59	0.000002	0.07	329.44	118.48	0.01
1	5704	100 Year	25.59	284.81	290.66		290.66	0.000005	0.1	355.8	125.99	0.01
1	5704	Hazel	20.14	284.81	290.49		290.49	0.000004	0.08	334.14	122.7	0.01
1	5704	Hazel w CC	24.34	284.81	290.59		290.59	0.000005	0.1	345.97	124.67	0.01
1	5682	100 Year	25.59	284.5	290.66		290.66	0.000004	0.15	347.45	106.07	0.02
1	5682	Hazel	20.14	284.5	290.49		290.49	0.000003	0.12	329.39	101.54	0.02
1	5682	Hazel w CC	24.34	284.5	290.59		290.59	0.000004	0.14	339.2	104.25	0.02
1	5648	100 Year	25.59	284.37	290.66	287.18	290.66	0.000001	0.07	662.15	229.81	0.01
1	5648	Hazel	20.14	284.37	290.49	286.58	290.49	0.000001	0.06	622.2	228.7	0.01
1	5648	Hazel w CC	24.34	284.37	290.59	287.17	290.59	0.000001	0.07	644.12	229.47	0.01
1	Harview 400 Ramp		Culvert									
1	5599	100 Year	25.59	283.8	290.66		290.66	0.000005	0.13	296.62	111.72	0.02
1	5599	Hazel	20.14	283.8	290.49		290.49	0.000004	0.11	277.8	110.21	0.02
1	5599	Hazel w CC	24.34	283.8	290.58		290.58	0.000005	0.13	288.01	111.23	0.02
1	5579	100 Year	32.58	283.74	290.65		290.65	0.000018	0.34	116.61	22.8	0.04
1	5579	Hazel	24.37	283.74	290.48		290.49	0.000011	0.26	112.96	20.64	0.03
1	5579	Hazel w CC	29.41	283.74	290.57		290.58	0.000015	0.31	114.9	22	0.04
1	5548	100 Year	32.58	283.51	290.59	285.55	290.65	0.000318	1.11	48.16	123.64	0.16
1	5548	Hazel	24.37	283.51	290.44	285.22	290.48	0.000213	0.89	31.17	106.46	0.13
1	5548	Hazel w CC	29.41	283.51	290.52	285.42	290.57	0.000285	1.04	39.74	117.79	0.15
1	Highway 400		Culvert									
1	5300	100 Year	32.58	280.17	287.73	282.22	287.79	0.000168	1.1	29.6	119.04	0.13
1	5300	Hazel	24.37	280.17	284.3	281.89	284.42	0.000743	1.53	15.91	82.94	0.25
1	5300	Hazel w CC	29.41	280.17	286.19	282.1	286.27	0.000298	1.25	23.43	108.89	0.17
1	5248	100 Year	32.58	279.5	287.77	280.42	287.77	0.000001	0.1	575.55	126.65	0.01

1	5248	Hazel	24.37	279.5	284.39	280.31	284.39	0.000006	0.15	270.6	95.35	0.02
1	5248	Hazel w CC	29.41	279.5	286.24	280.37	286.24	0.000002	0.12	427.18	110.1	0.01
1	5194	100 Year	32.58	279.07	287.66	281.52	287.74	0.000187	1.29	25.29	146.73	0.14
1	5194	Hazel	24.37	279.07	284.21	281.12	284.35	0.000603	1.63	14.95	100.41	0.23
1	5194	Hazel w CC	29.41	279.07	286.11	281.37	286.21	0.0003	1.43	20.63	128.31	0.17
1		Fairview Rd	Culvert									
1	5098	100 Year	32.58	277.95	280.29	280.29	281.44	0.014469	4.75	6.86	61.61	1
1	5098	Hazel	24.37	277.95	280.18		280.89	0.009557	3.74	6.52	59.18	0.81
1	5098	Hazel w CC	29.41	277.95	280.13	280.13	281.21	0.014856	4.6	6.4	58.23	1.01
1	5044	100 Year	32.58	277.86	280.66		280.67	0.000118	0.47	104.03	59.74	0.09
1	5044	Hazel	24.37	277.86	280.51		280.52	0.000083	0.38	95.46	57.49	0.08
1	5044	Hazel w CC	29.41	277.86	280.61		280.62	0.000104	0.44	101.13	59.27	0.09
1	4960	100 Year	32.58	277.26	280.54	279.11	280.62	0.001207	1.51	41.1	63.87	0.3
1	4960	Hazel	24.37	277.26	280.42	278.82	280.48	0.000951	1.3	33.66	57.96	0.26
1	4960	Hazel w CC	29.41	277.26	280.5	279	280.58	0.001094	1.43	38.71	62.44	0.28
1	5	Rail Line S	Culvert									
1	4933	100 Year	32.58	277.35	279.09	279.09	279.91	0.016513	4	8.14	39.67	1
1	4933	Hazel	24.37	277.35	278.81	278.81	279.48	0.017403	3.62	6.74	38.72	1
1	4933	Hazel w CC	29.41	277.35	278.99	278.99	279.75	0.016789	3.86	7.62	39.31	1
1	4875	100 Year	32.58	276.28	277.44		277.7	0.012824	2.44	14.69	18.1	0.81
1	4875	Hazel	24.37	276.28	277.31		277.52	0.012082	2.15	12.42	17.7	0.77
1	4875	Hazel w CC	29.41	276.28	277.39		277.63	0.012399	2.33	13.9	17.96	0.79
1	4845	100 Year	32.58	276.04	276.87	276.87	277.19	0.022514	2.67	13.16	20.74	1.03
1	4845	Hazel	24.37	276.04	276.76	276.75	277.02	0.022982	2.4	10.89	20.3	1.01
1	4845	Hazel w CC	29.41	276.04	276.82	276.82	277.13	0.022948	2.58	12.27	20.58	1.02
1	4812	100 Year	32.58	275.41	276.02	276.02	276.27	0.025517	2.23	15.03	31.21	0.98
1	4812	Hazel	24.37	275.41	275.92	275.92	276.14	0.029189	2.07	12	30.08	1.02
1	4812	Hazel w CC	29.41	275.41	275.99	275.99	276.22	0.025979	2.15	14.02	30.98	0.98
1	4766	100 Year	32.58	273.63	274.92	274.92	275.23	0.016864	2.98	14.26	22.47	0.94
1	4766	Hazel	24.37	273.63	274.81	274.81	275.07	0.015891	2.69	11.92	21.67	0.89
1	4766	Hazel w CC	29.41	273.63	274.88	274.88	275.17	0.016374	2.87	13.43	22.18	0.92
1	4725	100 Year	32.58	273.3	274.04	274.04	274.35	0.022838	2.51	13.44	22.3	0.99
1	4725	Hazel	24.37	273.3	273.92	273.92	274.19	0.02446	2.29	10.93	21.59	0.99
1	4725	Hazel w CC	29.41	273.3	274	274	274.29	0.023144	2.42	12.53	22.05	0.98
1	4688	100 Year	32.58	272.68	273.95		274.02	0.002499	1.26	28.31	29.27	0.37
1	4688	Hazel	24.37	272.68	273.85		273.9	0.001926	1.04	25.37	27.69	0.32
1	4688	Hazel w CC	29.41	272.68	273.95		274.01	0.002031	1.14	28.33	29.27	0.34
1	4655	100 Year	32.58	272.24	273.92		273.96	0.00119	1.04	37.08	32.57	0.27
1	4655	Hazel	24.37	272.24	273.82		273.85	0.000861	0.85	34.03	31.74	0.22
1	4655	Hazel w CC	29.41	272.24	273.93		273.96	0.00095	0.93	37.34	32.65	0.24
1	4631	100 Year	32.66	271.61	273.72	273.28	273.9	0.004297	2.13	20.17	25.59	0.51
1	4631	Hazel	27.16	271.61	273.66	273.16	273.8	0.003406	1.86	19.02	22.92	0.45
1	4631	Hazel w CC	32.93	271.61	273.72	273.29	273.9	0.004353	2.14	20.2	25.74	0.52
1	4609	100 Year	32.66	272.02	273.61	273.56	273.74	0.008492	2.14	24.99	55.71	0.66
1	4609	Hazel	27.16	272.02	273.52	273.52	273.67	0.010524	2.25	20.14	50.84	0.72
1	4609	Hazel w CC	32.93	272.02	273.61	273.57	273.75	0.008686	2.16	24.93	55.58	0.66
1		Bayview Dr	Culvert									
1	4559	100 Year	32.66	270.35	273.24	273.24	273.39	0.006543	1.98	29.83	96.61	0.6
1	4559	Hazel	27.16	270.35	272.3	272.3	273.14	0.016463	4.05	6.71	40.76	1
1	4559	Hazel w CC	32.93	270.35	273.25	273.25	273.39	0.006257	1.95	30.73	96.61	0.58

1	4531	100 Year	32.66	270.13	270.97	270.91	271.12	0.01688	2.39	22.46	48.26	0.89
1	4531	Hazel	27.16	270.13	270.92	270.87	271.05	0.016134	2.23	20.12	47.86	0.86
1	4531	Hazel w CC	32.93	270.13	270.97	270.92	271.12	0.016909	2.4	22.58	48.28	0.89
1	4503	100 Year	32.66	268.98	270.52	270.52	270.71	0.012297	2.49	25.06	62.64	0.78
1	4503	Hazel	27.16	268.98	270.45	270.45	270.64	0.01272	2.42	20.86	60.59	0.78
1	4503	Hazel w CC	32.93	268.98	270.52	270.52	270.71	0.012287	2.49	25.25	62.72	0.78
1	4478	100 Year	32.66	268.9	270.18		270.29	0.010087	2.04	29.51	85.23	0.69
1	4478	Hazel	27.16	268.9	270.09	270.09	270.23	0.013474	2.19	22.08	80.86	0.79
1	4478	Hazel w CC	32.93	268.9	270.18		270.29	0.010562	2.08	29.15	85.12	0.71
1	4451	100 Year	32.66	268.81	269.7	269.63	269.89	0.022314	2.6	18.88	69.15	0.99
1	4451	Hazel	27.16	268.81	269.65		269.8	0.018262	2.25	16.84	53.03	0.89
1	4451	Hazel w CC	32.93	268.81	269.71	269.62	269.89	0.021145	2.56	19.58	69.32	0.97
1	4430	100 Year	32.66	268.56	269.27		269.38	0.025095	1.45	25.82	88.5	0.61
1	4430	Hazel	27.16	268.56	269.21	269.14	269.32	0.028997	1.45	20.69	87.96	0.65
1	4430	Hazel w CC	32.93	268.56	269.27		269.38	0.024996	1.45	26.03	88.52	0.61
1	4407	100 Year	32.66	267.83	268.66	268.65	268.8	0.025147	2.76	24.99	80.35	1.07
1	4407	Hazel	27.16	267.83	268.64	268.61	268.75	0.021906	2.51	22.8	79.74	0.99
1	4407	Hazel w CC	32.93	267.83	268.66	268.65	268.8	0.025741	2.79	24.92	80.33	1.08
1	4392	100 Year	32.66	267.64	268.3	268.25	268.43	0.022309	2.14	26.79	70.38	0.94
1	4392	Hazel	27.16	267.64	268.23	268.22	268.37	0.027445	2.16	22.07	68.77	1.02
1	4392	Hazel w CC	32.93	267.64	268.31		268.43	0.021411	2.11	27.3	70.5	0.92
1	4375	100 Year	32.66	267.3	268.24		268.27	0.003551	0.89	48.46	76.83	0.3
1	4375	Hazel	27.16	267.3	268.17		268.2	0.00352	0.84	42.81	75.04	0.3
1	4375	Hazel w CC	32.93	267.3	268.25		268.28	0.003471	0.89	49.11	77.17	0.3
1	4347	100 Year	32.66	266.89	268.23		268.24	0.000385	0.52	80.35	82.47	0.15
1	4347	Hazel	27.16	266.89	268.16		268.17	0.000336	0.47	74.36	81.46	0.14
1	4347	Hazel w CC	32.93	266.89	268.24		268.25	0.000381	0.52	81.06	82.56	0.15
1	4245	100 Year	32.66	266.94	268.22		268.24	0.000163	0.24	74.01	118.1	0.08
1	4245	Hazel	27.16	266.94	268.15		268.16	0.000171	0.24	65.37	116.76	0.08
1	4245	Hazel w CC	32.93	266.94	268.23		268.24	0.000159	0.24	75.07	118.33	0.08
1	4146	100 Year	32.66	266.63	268.23		268.23	0.000025	0.11	159.23	212.71	0.03
1	4146	Hazel	27.16	266.63	268.15		268.15	0.000025	0.11	143.5	211.37	0.03
1	4146	Hazel w CC	32.93	266.63	268.23		268.24	0.000025	0.11	161.15	212.88	0.03
1	4042	100 Year	32.66	266.23	268.23		268.23	0.000006	0.07	276.11	319.39	0.02
1	4042	Hazel	27.16	266.23	268.15		268.15	0.000006	0.06	252.91	305.77	0.02
1	4042	Hazel w CC	32.93	266.23	268.23		268.24	0.000006	0.07	278.99	320.15	0.02
1	4008	100 Year	32.66	266.33	268.23		268.23	0.000003	0.04	352.92	317.91	0.01
1	4008	Hazel	27.16	266.33	268.15		268.15	0.000002	0.04	329.51	312.17	0.01
1	4008	Hazel w CC	32.93	266.33	268.23		268.24	0.000003	0.04	355.79	318.18	0.01
1	3969	100 Year	32.66	266.13	268.18	267.69	268.22	0.000748	0.79	35.99	39.51	0.19
1	3969	Hazel	27.16	266.13	268.11	267.62	268.15	0.000661	0.73	33.47	39.34	0.18
1	3969	Hazel w CC	32.93	266.13	268.19	267.69	268.23	0.000735	0.79	36.34	39.54	0.19
1	3927	100 Year	32.66	265.97	268.15	267.32	268.19	0.000634	0.73	39.1	41.03	0.18
1	3927	Hazel	27.16	265.97	268.09	267.2	268.12	0.000546	0.66	36.64	40.81	0.16
1	3927	Hazel w CC	32.93	265.97	268.16	267.33	268.2	0.000623	0.73	39.5	41.07	0.17
1	3887.475	100 Year	32.66	265.84	268.05	267.21	268.13	0.002938	1.43	31.56	48.67	0.34
1	3887.475	Hazel	27.16	265.84	268.01	267.08	268.07	0.002292	1.24	29.63	48.23	0.3
1	3887.475	Hazel w CC	32.93	265.84	268.06	267.22	268.15	0.002878	1.42	32.15	48.79	0.34
1	3849	100 Year	32.66	265.87	268.03	267.24	268.06	0.000849	0.87	46.89	78.18	0.2
1	3849	Hazel	27.16	265.87	267.87	267.12	267.97	0.002851	1.49	23.69	37.9	0.37
1	3849	Hazel w CC	32.93	265.87	268.05	267.24	268.07	0.000816	0.86	47.95	78.77	0.2
1	3743	100 Year	32.66	265.41	266.85	266.85	267.35	0.039027	3.13	10.42	10.4	1

1	3743	Hazel	27.16	265.41	266.71	266.71	267.18	0.039385	3.01	9.02	9.92	1.01
1	3743	Hazel w CC	32.93	265.41	266.86	266.86	267.36	0.038492	3.12	10.55	10.44	0.99
1	3658	100 Year	32.66	262.24	265.15		265.24	0.003178	1.36	28.85	27.57	0.3
1	3658	Hazel	27.16	262.24	264.99		265.07	0.003013	1.25	24.83	24.8	0.29
1	3658	Hazel w CC	32.93	262.24	265.15		265.24	0.003185	1.36	29.04	27.66	0.31
1	3626	100 Year	32.66	262.12	263.31	263.31	263.66	0.021777	2.69	14.12	23.26	0.95
1	3626	Hazel	27.16	262.12	263.22	263.22	263.54	0.022514	2.56	12.04	22.07	0.96
1	3626	Hazel w CC	32.93	262.12	263.31	263.31	263.66	0.021747	2.69	14.21	23.31	0.95
1	3607	100 Year	32.66	261.57	262.9	262.9	263.18	0.024023	2.41	15.69	35.37	0.92
1	3607	Hazel	27.16	261.57	262.83	262.83	263.09	0.024219	2.28	13.32	31.64	0.92
1	3607	Hazel w CC	32.93	261.57	262.91	262.91	263.18	0.023906	2.41	15.83	35.46	0.92
1	3587	100 Year	32.66	260.22	262.33	262.33	262.56	0.008571	2.57	21.93	48.97	0.64
1	3587	Hazel	27.16	260.22	262.27	262.27	262.48	0.007706	2.38	19.13	45.74	0.61
1	3587	Hazel w CC	32.93	260.22	262.33	262.33	262.57	0.008557	2.57	22.13	49.09	0.64
1	3559	100 Year	32.66	259.8	261.74	261.74	261.94	0.009911	2.49	27.45	63.01	0.7
1	3559	Hazel	27.16	259.8	261.68	261.68	261.87	0.009343	2.34	23.84	60.11	0.68
1	3559	Hazel w CC	32.93	259.8	261.74	261.74	261.94	0.009929	2.49	27.62	63.05	0.7
1	3525	100 Year	32.66	259.18	261.11	261.11	261.3	0.008423	2.44	23.97	63.34	0.65
1	3525	Hazel	27.16	259.18	260.94	260.94	261.22	0.012248	2.71	14.36	43.55	0.77
1	3525	Hazel w CC	32.93	259.18	261.11	261.11	261.31	0.008441	2.45	24.14	63.37	0.65
1	3495	100 Year	32.66	258.93	260.64	260.64	260.92	0.013896	2.83	21.87	46.07	0.84
1	3495	Hazel	27.16	258.93	260.6	260.6	260.83	0.011438	2.51	20.24	44.55	0.76
1	3495	Hazel w CC	32.93	258.93	260.64	260.64	260.92	0.013801	2.83	22.1	46.38	0.84
1	3479	100 Year	32.66	258.96	260.4		260.54	0.00623	1.98	28.46	38.75	0.58
1	3479	Hazel	27.16	258.96	260.31		260.44	0.005904	1.83	25.19	37.3	0.55
1	3479	Hazel w CC	32.93	258.96	260.41		260.55	0.00624	1.98	28.62	38.81	0.58
1	3445	100 Year	32.66	258.79	259.97	259.97	260.23	0.0142	2.7	20.15	38.92	0.86
1	3445	Hazel	27.16	258.79	259.9	259.9	260.14	0.013671	2.53	17.59	38.45	0.84
1	3445	Hazel w CC	32.93	258.79	259.97	259.97	260.23	0.014242	2.7	20.26	38.94	0.86
1	3425	100 Year	32.66	258.51	259.95		260	0.004274	1.5	43.58	68.67	0.47
1	3425	Hazel	27.16	258.51	259.84		259.9	0.004875	1.49	36.44	67.71	0.49
1	3425	Hazel w CC	32.93	258.51	259.93		259.98	0.004744	1.56	42.24	68.46	0.49
1	3409	100 Year	32.66	258.25	259.83		259.93	0.004473	1.76	35.57	58.01	0.5
1	3409	Hazel	27.16	258.25	259.71		259.81	0.005223	1.78	28.53	55.59	0.53
1	3409	Hazel w CC	32.93	258.25	259.79		259.9	0.005541	1.91	32.84	57.56	0.55
1	3392	100 Year	55.85	258.06	259.54	259.48	259.76	0.01383	2.93	36.39	60.4	0.87
1	3392	Hazel	43.65	258.06	259.43	259.4	259.64	0.01399	2.76	29.91	59.11	0.86
1	3392	Hazel w CC	51.91	258.06	259.51	259.46	259.73	0.013803	2.87	34.39	59.65	0.86
1	3378	100 Year	55.85	258.03	259.47		259.59	0.008214	2.33	47.44	66.36	0.67
1	3378	Hazel	43.65	258.03	259.36		259.47	0.007998	2.16	40.33	65.33	0.65
1	3378	Hazel w CC	51.91	258.03	259.44		259.55	0.008141	2.27	45.22	65.93	0.67
1	3356	100 Year	55.85	257.67	259.23		259.38	0.010595	2.65	40.16	62.81	0.75
1	3356	Hazel	43.65	257.67	259.11		259.25	0.011397	2.56	32.56	60.59	0.77
1	3356	Hazel w CC	51.91	257.67	259.19		259.34	0.010825	2.62	37.79	62.41	0.76
1	3338	100 Year	55.85	257.6	259.11		259.22	0.00651	2.12	45.09	59.7	0.6
1	3338	Hazel	43.65	257.6	258.99		259.08	0.006443	1.97	37.97	58.8	0.58
1	3338	Hazel w CC	51.91	257.6	259.08		259.17	0.006491	2.07	42.86	59.43	0.59
1	3314	100 Year	55.85	257.47	258.88		259.02	0.009806	2.53	38.69	56.11	0.73
1	3314	Hazel	43.65	257.47	258.76		258.89	0.010076	2.4	31.99	55.32	0.73
1	3314	Hazel w CC	51.91	257.47	258.84		258.98	0.009883	2.49	36.59	55.89	0.73
1	3293	100 Year	55.85	257.27	258.68		258.81	0.009843	2.49	40.8	52.74	0.72
1	3293	Hazel	43.65	257.27	258.56		258.68	0.009916	2.33	34.43	51.59	0.71

1	3293	Hazel w CC	51.91	257.27	258.64		258.77	0.009874	2.45	38.8	52.49	0.72
1	3273	100 Year	55.85	256.99	258.38		258.57	0.014809	3.05	38.07	48.83	0.89
1	3273	Hazel	43.65	256.99	258.27		258.43	0.01478	2.84	32.42	48.17	0.88
1	3273	Hazel w CC	51.91	256.99	258.35		258.53	0.014832	2.99	36.27	48.61	0.89
1	3254	100 Year	55.85	256.81	258.15		258.31	0.011992	2.54	39.91	50.36	0.79
1	3254	Hazel	43.65	256.81	258.04		258.18	0.011571	2.32	34.43	49.71	0.76
1	3254	Hazel w CC	51.91	256.81	258.11		258.27	0.011987	2.48	38.07	50.12	0.79
1	3222	100 Year	55.85	256.43	257.88		258.02	0.007047	2.24	43.43	56.99	0.63
1	3222	Hazel	43.65	256.43	257.7		257.85	0.00918	2.32	33.32	55.61	0.7
1	3222	Hazel w CC	51.91	256.43	257.83		257.96	0.007564	2.26	40.3	56.72	0.65
1	3202	100 Year	55.85	255.96	257.84		257.9	0.003154	1.67	55.87	61.75	0.43
1	3202	Hazel	43.65	255.96	257.64		257.71	0.003852	1.69	43.98	60.33	0.46
1	3202	Hazel w CC	51.91	255.96	257.78		257.84	0.00331	1.67	52.25	61.27	0.43
1	3177	100 Year	55.85	255.71	257.78		257.84	0.002026	1.41	61.21	62.98	0.34
1	3177	Hazel	43.65	255.71	257.58		257.63	0.002348	1.4	48.77	58.78	0.36
1	3177	Hazel w CC	51.91	255.71	257.72		257.77	0.002093	1.4	57.42	61.3	0.34
1	3161	100 Year	55.85	255.6	257.76		257.8	0.001547	1.31	63.48	56.07	0.3
1	3161	Hazel	43.65	255.6	257.56		257.6	0.001642	1.25	52.2	53.99	0.31
1	3161	Hazel w CC	51.91	255.6	257.7		257.74	0.00156	1.29	60.1	55.39	0.3
1	3139	100 Year	55.85	255.55	257.7		257.77	0.001601	1.41	57.25	46.97	0.32
1	3139	Hazel	43.65	255.55	257.5		257.56	0.001564	1.3	48.11	44.68	0.31
1	3139	Hazel w CC	51.91	255.55	257.65		257.71	0.001569	1.37	54.54	45.69	0.32
1	3116	100 Year	55.85	255.29	257.64		257.72	0.002146	1.71	48.33	44.87	0.37
1	3116	Hazel	43.65	255.29	257.44		257.51	0.002094	1.59	39.81	40.77	0.36
1	3116	Hazel w CC	51.91	255.29	257.58		257.66	0.002111	1.67	45.78	43.54	0.36
1	3101	100 Year	55.85	255.26	257.56		257.68	0.003155	1.96	51.39	60.51	0.45
1	3101	Hazel	43.65	255.26	257.36		257.48	0.003068	1.81	40.79	49.29	0.43
1	3101	Hazel w CC	51.91	255.26	257.5		257.62	0.003091	1.9	48.14	57.7	0.44
1	3062	100 Year	55.85	255.15	257.33		257.51	0.006447	2.31	38.38	48.85	0.52
1	3062	Hazel	43.65	255.15	257.11	256.88	257.29	0.007175	2.26	28.38	43.4	0.54
1	3062	Hazel w CC	51.91	255.15	257.28		257.45	0.006311	2.25	35.98	46.24	0.51
1	3036	100 Year	55.85	254.88	256.77	256.77	257.25	0.01335	3.24	24.16	46.68	0.79
1	3036	Hazel	43.65	254.88	256.51	256.47	257	0.016182	3.19	16.01	21.28	0.85
1	3036	Hazel w CC	51.91	254.88	256.66	256.66	257.18	0.015377	3.33	19.71	31.49	0.84
1	3006	100 Year	55.85	254.23	256.22	256.22	256.61	0.018746	3.03	24.94	36.25	0.77
1	3006	Hazel	43.65	254.23	256.04	256.03	256.42	0.020463	2.91	18.76	27.73	0.79
1	3006	Hazel w CC	51.91	254.23	256.16	256.16	256.56	0.019636	3.02	22.74	34.63	0.78
1	2979	100 Year	55.85	253.9	255.87	255.63	256.16	0.012997	2.57	26.36	41.06	0.65
1	2979	Hazel	43.65	253.9	255.74		255.97	0.01138	2.26	21.83	27.18	0.6
1	2979	Hazel w CC	51.91	253.9	255.83	255.57	256.1	0.012554	2.48	24.73	35.1	0.64
1	2956	100 Year	55.85	253.75	255.6	255.45	255.79	0.015935	2.64	34.67	51.05	0.65
1	2956	Hazel	43.65	253.75	255.48	255.31	255.65	0.015176	2.45	28.24	49.79	0.62
1	2956	Hazel w CC	51.91	253.75	255.56	255.42	255.75	0.015822	2.59	32.59	50.68	0.64
1	2933	100 Year	55.85	253.62	255.22		255.42	0.016785	2.6	33.45	42.89	0.69
1	2933	Hazel	43.65	253.62	255.04		255.25	0.020115	2.6	25.87	41.01	0.74
1	2933	Hazel w CC	51.91	253.62	255.17		255.37	0.017676	2.6	31.05	42.29	0.7
1	2913	100 Year	55.85	253.61	255.05		255.19	0.007349	1.26	36.25	33.45	0.35
1	2913	Hazel	43.65	253.61	254.87		255	0.007537	1.16	30.39	31.89	0.35
1	2913	Hazel w CC	51.91	253.61	254.99		255.13	0.007409	1.23	34.39	33	0.35
1	2887	100 Year	55.85	253.12	254.81		255	0.007223	1.29	31.53	27.83	0.34
1	2887	Hazel	43.65	253.12	254.65		254.81	0.006978	1.17	27.04	27.18	0.33
1	2887	Hazel w CC	51.91	253.12	254.76		254.94	0.007157	1.25	30.11	27.63	0.34

1	2860	100 Year	55.85	253.16	254.24	254.24	254.66	0.02091	3	19.84	24.52	0.98
1	2860	Hazel	43.65	253.16	254.11	254.11	254.47	0.021451	2.76	16.79	23.88	0.97
1	2860	Hazel w CC	51.91	253.16	254.2	254.2	254.6	0.021096	2.93	18.87	24.31	0.98
1	2839	100 Year	55.85	252.9	253.91	253.83	254.2	0.015954	2.62	23.84	30.49	0.89
1	2839	Hazel	43.65	252.9	253.78		254.03	0.017311	2.44	19.81	29.49	0.9
1	2839	Hazel w CC	51.91	252.9	253.87	253.79	254.15	0.016357	2.56	22.56	30.17	0.9
1	2812	100 Year	55.85	252.12	253.58	253.37	253.83	0.010974	2.77	25.93	26.9	0.78
1	2812	Hazel	43.65	252.12	253.44	253.25	253.65	0.010909	2.55	22.07	25.94	0.76
1	2812	Hazel w CC	51.91	252.12	253.54	253.33	253.77	0.010972	2.71	24.71	26.6	0.78
1	2789	100 Year	55.85	251.92	253.09	253.09	253.47	0.022266	3.31	20.68	27.05	1.05
1	2789	Hazel	43.65	251.92	252.98	252.96	253.29	0.02134	3.01	17.89	26.27	1.01
1	2789	Hazel w CC	51.91	251.92	253.05	253.04	253.41	0.021961	3.22	19.81	26.81	1.04
1	2761	100 Year	55.85	251.59	252.84		253.02	0.009086	2.1	30.06	36.3	0.67
1	2761	Hazel	43.65	251.59	252.73		252.88	0.008504	1.88	26.19	35.56	0.64
1	2761	Hazel w CC	51.91	251.59	252.81		252.98	0.008902	2.03	28.86	36.05	0.66
1	2743	100 Year	55.85	251.51	252.65		252.84	0.011579	2.23	29.2	40.9	0.74
1	2743	Hazel	43.65	251.51	252.56		252.71	0.010892	2.01	25.3	39.85	0.71
1	2743	Hazel w CC	51.91	251.51	252.62		252.8	0.011331	2.16	28.01	40.6	0.73
1	2728	100 Year	55.85	251.43	252.57		252.67	0.008418	2.01	41.58	59.88	0.65
1	2728	Hazel	43.65	251.43	252.47		252.55	0.008083	1.82	35.53	58.54	0.63
1	2728	Hazel w CC	51.91	251.43	252.54		252.64	0.00826	1.95	39.77	59.43	0.65
1	2708	100 Year	55.85	250.88	252.14	252.14	252.4	0.022098	2.99	25.66	50.2	1.01
1	2708	Hazel	43.65	250.88	252.03	252.03	252.28	0.024571	2.89	20.62	42.5	1.04
1	2708	Hazel w CC	51.91	250.88	252.1	252.1	252.36	0.02294	2.97	23.94	48.41	1.02
1	2688	100 Year	55.85	250.76	251.9		252.02	0.01008	2.17	37.34	62.67	0.7
1	2688	Hazel	43.65	250.76	251.81		251.91	0.009863	2.01	31.78	60.95	0.69
1	2688	Hazel w CC	51.91	250.76	251.87		251.98	0.010004	2.12	35.63	62.29	0.7
1	2665	100 Year	55.85	250.61	251.44	251.44	251.66	0.025427	2.71	27.12	62.45	1.06
1	2665	Hazel	43.65	250.61	251.37	251.37	251.56	0.025327	2.51	22.86	59.62	1.04
1	2665	Hazel w CC	51.91	250.61	251.42	251.42	251.63	0.025435	2.65	25.77	62.02	1.06
1	2654	100 Year	55.85	250.19	251.26		251.42	0.012244	2.25	33.36	61.99	0.76
1	2654	Hazel	43.65	250.19	251.19		251.31	0.011192	2.04	28.94	59.59	0.72
1	2654	Hazel w CC	51.91	250.19	251.24		251.38	0.011914	2.19	31.99	60.94	0.75
1	2632	100 Year	55.85	249.36	250.92	250.89	251.12	0.014951	2.92	31.1	69.98	0.85
1	2632	Hazel	43.65	249.36	250.82	250.81	251.02	0.016229	2.87	24.21	65.2	0.87
1	2632	Hazel w CC	51.91	249.36	250.89	250.86	251.09	0.01532	2.9	28.93	69.24	0.85
1	2617	100 Year	55.85	249.53	250.8		250.93	0.009213	2.22	38.39	75.5	0.69
1	2617	Hazel	43.65	249.53	250.7		250.82	0.008953	2.06	31.57	70.86	0.67
1	2617	Hazel w CC	51.91	249.53	250.77		250.89	0.009146	2.17	36.21	73.04	0.68
1	2593	100 Year	55.85	249.31	250.6		250.7	0.00926	2.28	43.62	80.23	0.69
1	2593	Hazel	43.65	249.31	250.5		250.6	0.009303	2.15	35.94	79.28	0.68
1	2593	Hazel w CC	51.91	249.31	250.57		250.67	0.009259	2.23	41.24	79.83	0.69
1	2566	100 Year	55.85	248.87	250.33		250.46	0.008673	2.36	41.69	77.22	0.68
1	2566	Hazel	43.65	248.87	250.23		250.35	0.009098	2.28	33.57	72.48	0.68
1	2566	Hazel w CC	51.91	248.87	250.3		250.42	0.008837	2.34	39.07	76.26	0.68
1	2547	100 Year	55.85	248.82	250.2		250.31	0.006869	1.96	45.69	73.81	0.6
1	2547	Hazel	43.65	248.82	250.09		250.19	0.007237	1.88	37.45	72.55	0.61
1	2547	Hazel w CC	51.91	248.82	250.17		250.27	0.007008	1.94	43.03	73.41	0.6
1	2523	100 Year	55.85	248.37	250.01		250.14	0.007364	2.25	39.5	61.84	0.62
1	2523	Hazel	43.65	248.37	249.89		250.01	0.007853	2.17	32.04	59.27	0.63
1	2523	Hazel w CC	51.91	248.37	249.97		250.09	0.007493	2.22	37.12	60.16	0.62

1	2506	100 Year	55.85	248.63	249.9		250.02	0.00688	2.05	39.3	58.67	0.61
1	2506	Hazel	43.65	248.63	249.76		249.87	0.007736	2	31.35	57.35	0.64
1	2506	Hazel w CC	51.91	248.63	249.85		249.97	0.007109	2.03	36.8	58.14	0.62
1	2488	100 Year	55.85	247.87	249.86		249.92	0.002946	1.64	53.65	59.55	0.41
1	2488	Hazel	43.65	247.87	249.72		249.78	0.002831	1.52	45.65	58.68	0.39
1	2488	Hazel w CC	51.91	247.87	249.82		249.88	0.002915	1.6	51.13	59.28	0.4
1	2464	100 Year	55.85	248.1	249.8		249.86	0.002311	1.44	56.21	62.9	0.37
1	2464	Hazel	43.65	248.1	249.67		249.72	0.00209	1.29	48.24	58.68	0.35
1	2464	Hazel w CC	51.91	248.1	249.76		249.81	0.002255	1.4	53.64	62.19	0.37
1	2443	100 Year	55.85	247.71	249.44	249.44	249.74	0.013893	3.28	29.36	47.3	0.89
1	2443	Hazel	43.65	247.71	249.34	249.34	249.6	0.013548	3.07	24.27	45.46	0.86
1	2443	Hazel w CC	51.91	247.71	249.42	249.42	249.69	0.013462	3.19	28.04	46.9	0.87
1	2414	100 Year	55.85	247.06	249.02	248.94	249.26	0.008814	2.87	30.19	50.28	0.71
1	2414	Hazel	43.65	247.06	248.87	248.81	249.11	0.009412	2.79	23.48	39.38	0.72
1	2414	Hazel w CC	51.91	247.06	248.97	248.91	249.21	0.008933	2.84	28.05	46.84	0.71
1	2387	100 Year	55.85	247.04	248.83		249.03	0.007157	2.6	32.68	47.58	0.66
1	2387	Hazel	43.65	247.04	248.69		248.87	0.007043	2.43	26.76	38.49	0.64
1	2387	Hazel w CC	51.91	247.04	248.79		248.98	0.007058	2.54	30.83	42.51	0.65
1	2364	100 Year	55.85	246.93	248.63		248.84	0.008379	2.7	32.44	52.48	0.71
1	2364	Hazel	43.65	246.93	248.51		248.7	0.00766	2.44	27.19	41.03	0.67
1	2364	Hazel w CC	51.91	246.93	248.58		248.8	0.008458	2.65	30.19	45.4	0.7
1	2344	100 Year	55.85	246.52	248.29	248.29	248.63	0.012189	3.29	26.37	42.42	0.84
1	2344	Hazel	43.65	246.52	248.08	248.08	248.47	0.015375	3.36	18.5	28.87	0.92
1	2344	Hazel w CC	51.91	246.52	248.26	248.26	248.58	0.011981	3.21	24.86	40.75	0.83
1	2324	100 Year	55.85	246.15	247.92	247.88	248.32	0.011603	3.2	23.48	29.32	0.83
1	2324	Hazel	43.65	246.15	247.82	247.72	248.13	0.009513	2.77	20.74	27.32	0.74
1	2324	Hazel w CC	51.91	246.15	247.89	247.84	248.26	0.010927	3.06	22.64	28.72	0.8
1	2299	100 Year	55.85	246.39	247.81		248	0.009373	2.58	31.44	46.85	0.73
1	2299	Hazel	43.65	246.39	247.69		247.86	0.008949	2.37	26.25	44.54	0.7
1	2299	Hazel w CC	51.91	246.39	247.77		247.96	0.009213	2.51	29.85	45.35	0.72
1	2280	100 Year	55.85	245.94	247.49	247.49	247.77	0.013829	3.02	26.73	56.79	0.87
1	2280	Hazel	43.65	245.94	247.37	247.37	247.63	0.013987	2.84	21	42.03	0.86
1	2280	Hazel w CC	51.91	245.94	247.45	247.45	247.73	0.013787	2.96	24.83	50.2	0.86
1	2256	100 Year	55.85	245.44	247.31		247.48	0.007366	2.6	40.95	69.48	0.66
1	2256	Hazel	43.65	245.44	247.19		247.36	0.006993	2.41	33.17	66.37	0.63
1	2256	Hazel w CC	51.91	245.44	247.32		247.47	0.005973	2.35	42.14	69.75	0.59
1	2243	100 Year	55.85	245.58	247.22		247.38	0.008515	2.51	37.26	50.52	0.69
1	2243	Hazel	43.65	245.58	247.12		247.25	0.007688	2.26	32.32	49.34	0.65
1	2243	Hazel w CC	51.91	245.58	247.27		247.38	0.006321	2.21	39.34	50.83	0.6
1	2218	100 Year	55.85	245.17	247.13		247.24	0.003455	1.84	40.92	41.18	0.46
1	2218	Hazel	43.65	245.17	247.06		247.14	0.002578	1.54	38.08	40.01	0.39
1	2218	Hazel w CC	51.91	245.17	247.2		247.28	0.002461	1.6	43.86	42.1	0.39
1	2191	100 Year	55.85	244.55	247.06		247.15	0.002599	1.74	45.15	40.49	0.39
1	2191	Hazel	43.65	244.55	247.01		247.07	0.001791	1.42	43.22	40	0.32
1	2191	Hazel w CC	51.91	244.55	247.15		247.22	0.001797	1.49	48.95	41.38	0.33
1	2167	100 Year	55.85	244.3	247.07		247.1	0.000767	1.12	69.08	46.87	0.23
1	2167	Hazel	43.65	244.3	247.02		247.04	0.000508	0.9	66.75	45.76	0.19
1	2167	Hazel w CC	51.91	244.3	247.16		247.19	0.000564	0.98	73.34	47.6	0.2
1	2141	100 Year	55.85	244.05	247.07		247.09	0.000355	0.82	94.78	54.87	0.16
1	2141	Hazel	43.65	244.05	247.02		247.03	0.000236	0.66	92.04	54.48	0.13
1	2141	Hazel w CC	51.91	244.05	247.16		247.17	0.000266	0.72	99.77	55.59	0.14
1	2122	100 Year	55.85	243.68	247.07		247.08	0.00019	0.63	114.92	55.79	0.11

1	2122	Hazel	43.65	243.68	247.02		247.02	0.000125	0.5	112.14	55.43	0.09
1	2122	Hazel w CC	51.91	243.68	247.16		247.17	0.000145	0.56	119.99	56.41	0.1
1	2094	100 Year	55.85	243.94	247.06		247.07	0.000174	0.6	121.74	58.77	0.11
1	2094	Hazel	43.65	243.94	247.01		247.02	0.000114	0.48	118.93	58.36	0.09
1	2094	Hazel w CC	51.91	243.94	247.15		247.16	0.000132	0.54	127.17	59.57	0.1
1	2072	100 Year	55.85	243.45	247.06		247.07	0.000126	0.56	132.8	61.71	0.1
1	2072	Hazel	43.65	243.45	247.01		247.02	0.000082	0.44	129.87	61.22	0.08
1	2072	Hazel w CC	51.91	243.45	247.15		247.16	0.000097	0.5	138.5	62.28	0.09
1	2045	100 Year	55.85	243.33	247		247.06	0.000761	1.33	65.9	54.38	0.24
1	2045	Hazel	43.65	243.33	246.97		247.01	0.000482	1.05	64.57	53.22	0.19
1	2045	Hazel w CC	51.91	243.33	247.11		247.15	0.000559	1.16	72.04	58.09	0.2
1	2026	100 Year	50.34	243.36	246.99		247.04	0.000572	1.06	68.2	41.6	0.19
1	2026	Hazel	47.91	243.36	246.96		247	0.000546	1.03	66.68	39.18	0.19
1	2026	Hazel w CC	57.4	243.36	247.08		247.14	0.000658	1.16	71.97	42.92	0.21
1	2006	100 Year	50.34	242.86	246.89	244.95	247	0.001541	1.62	45.15	39.92	0.31
1	2006	Hazel	47.91	242.86	246.85	244.89	246.96	0.001488	1.58	43.78	39.68	0.31
1	2006	Hazel w CC	57.4	242.86	246.96	245.13	247.09	0.001752	1.76	48.13	40.43	0.34
1	McConkey Pl	Culvert										
1	1971	100 Year	50.34	242.25	246.26	244.78	246.62	0.007189	2.65	21.3	28.67	0.57
1	1971	Hazel	47.91	242.25	246.24	244.71	246.57	0.006742	2.56	20.76	28.53	0.55
1	1971	Hazel w CC	57.4	242.25	246.27	244.98	246.73	0.009198	3.01	21.55	28.74	0.65
1	1954	100 Year	50.34	242	246.38		246.43	0.000929	1.12	59.01	33.98	0.19
1	1954	Hazel	47.91	242	246.35		246.4	0.000869	1.08	58.15	30.14	0.18
1	1954	Hazel w CC	57.4	242	246.42		246.49	0.001184	1.28	60.64	38.6	0.21
1	1933	100 Year	50.34	241.84	246.38		246.41	0.000541	0.9	88.78	88.35	0.15
1	1933	Hazel	47.91	241.84	246.35		246.38	0.000511	0.87	86.69	86.72	0.14
1	1933	Hazel w CC	57.4	241.84	246.43		246.46	0.000655	1	92.36	90.48	0.16
1	1914	100 Year	50.34	241.94	246.38		246.4	0.000235	0.62	138.02	155.31	0.1
1	1914	Hazel	47.91	241.94	246.36		246.37	0.000224	0.6	135.24	151.74	0.1
1	1914	Hazel w CC	57.4	241.94	246.43		246.45	0.000282	0.68	142.8	158.54	0.11
1	1891	100 Year	50.34	241.36	246.39		246.39	0.00006	0.36	226.62	204.35	0.06
1	1891	Hazel	47.91	241.36	246.36		246.36	0.000056	0.35	223.55	200.49	0.05
1	1891	Hazel w CC	57.4	241.36	246.44		246.44	0.000073	0.4	231.89	210.66	0.06
1	1866	100 Year	50.34	241.04	246.39		246.39	0.000023	0.21	353.84	178.95	0.03
1	1866	Hazel	47.91	241.04	246.36		246.36	0.000021	0.2	348.8	178.95	0.03
1	1866	Hazel w CC	57.4	241.04	246.44		246.44	0.000028	0.23	362.49	179.09	0.03
1	1848	100 Year	50.34	240.46	246.39		246.39	0.000011	0.18	558.44	276.86	0.02
1	1848	Hazel	47.91	240.46	246.36		246.36	0.00001	0.17	550.67	274.6	0.02
1	1848	Hazel w CC	57.4	240.46	246.44		246.44	0.000013	0.2	571.91	279.85	0.03
1	1831	100 Year	50.34	240.25	246.37	246.13	246.38	0.003332	0.85	105.56	235.25	0.25
1	1831	Hazel	47.91	240.25	246.34	244.16	246.36	0.003676	0.88	98.54	234.05	0.26
1	1831	Hazel w CC	57.4	240.25	246.42	246.15	246.43	0.003217	0.86	116.96	236.49	0.25
1	9	Rail Line	Culvert									
1	1804	100 Year	50.34	239.48	243.5	243.5	245.5	0.013255	6.27	8.03	127.36	1
1	1804	Hazel	47.91	239.48	243.36	243.36	245.3	0.013459	6.17	7.76	122.69	1
1	1804	Hazel w CC	57.4	239.48	243.87	243.87	246.05	0.012854	6.55	8.77	154.59	1
1	1789	100 Year	59.73	239.35	241.58	241.3	241.89	0.010393	2.46	24.36	20.22	0.69
1	1789	Hazel	56.69	239.35	241.57	241.26	241.85	0.009672	2.36	24.1	20.15	0.67
1	1789	Hazel w CC	67.96	239.35	241.6	241.4	241.99	0.012878	2.77	24.73	20.33	0.77
1	1770	100 Year	59.73	239.17	241.39	241.39	241.57	0.018972	2.12	33.77	93.83	0.56
1	1770	Hazel	56.69	239.17	241.38	241.38	241.55	0.019162	2.12	32.32	92.14	0.56

1	1770	Hazel w CC	67.96	239.17	241.47	241.43	241.61	0.014409	1.91	41.4	113.73	0.49
1												
1		Huron Rd	Culvert									
1	1742	100 Year	59.73	238.76	240.89	240.89	241.02	0.00646	2.46	65.72	172.89	0.65
1	1742	Hazel	56.69	238.76	240.89	240.89	241	0.006095	2.38	64.58	172.59	0.63
1	1742	Hazel w CC	67.96	238.76	240.9	240.9	241.05	0.007976	2.74	66.9	173.24	0.72
1	1716	100 Year	59.73	238.55	239.74	239.74	240.03	0.020742	3.1	26.99	47.23	1.03
1	1716	Hazel	56.69	238.55	239.71	239.71	240	0.021224	3.07	25.78	44.35	1.03
1	1716	Hazel w CC	67.96	238.55	239.84	239.84	240.1	0.016663	2.98	32.81	64.67	0.94
1	1694	100 Year	59.73	238.22	239.62	239.4	239.69	0.003046	1.39	56.97	101.14	0.41
1	1694	Hazel	56.69	238.22	239.6	239.39	239.67	0.003049	1.38	55.04	100.65	0.41
1	1694	Hazel w CC	67.96	238.22	239.67	239.43	239.75	0.003073	1.44	61.92	105.65	0.41
1	1664	100 Year	59.73	237.66	239.3	239.3	239.5	0.016719	2.99	39.45	93.92	0.92
1	1664	Hazel	56.69	237.66	239.28	239.28	239.48	0.016436	2.94	38.16	91.82	0.91
1	1664	Hazel w CC	67.96	237.66	239.34	239.34	239.56	0.016885	3.08	43.5	102.61	0.93
1	1651	100 Year	59.73	237.37	238.94	238.59	239.04	0.003606	2.35	50.58	300.37	0.67
1	1651	Hazel	56.69	237.37	238.91	238.57	239.01	0.003643	2.33	48.58	299.48	0.67
1	1651	Hazel w CC	67.96	237.37	238.98	238.66	239.1	0.003961	2.52	53.52	303.43	0.7
1	1615	100 Year	59.73	236.95	238.96		238.97	0.000666	0.56	135.59	152.59	0.16
1	1615	Hazel	56.69	236.95	238.93		238.94	0.00065	0.54	132.09	152.46	0.15
1	1615	Hazel w CC	67.96	236.95	239		239.01	0.000763	0.61	140.95	152.8	0.17
1	1563	100 Year	59.73	236.79	238.94		238.95	0.000258	0.55	163.54	155.78	0.13
1	1563	Hazel	56.69	236.79	238.91		238.92	0.000245	0.53	160.76	155.56	0.13
1	1563	Hazel w CC	67.96	236.79	238.98		238.99	0.000308	0.61	167.59	156.1	0.14
1	1544	100 Year	79.27	236.79	238.9	237.59	238.93	0.000812	1.02	109.81	171.31	0.23
1	1544	Hazel	73.53	236.79	238.88	237.56	238.91	0.00073	0.96	108.33	171.01	0.22
1	1544	Hazel w CC	88.45	236.79	238.94	237.63	238.97	0.000951	1.12	111.94	171.62	0.25
1	1506	100 Year	79.27	236.59	238.69	238.69	238.83	0.006987	2.11	72.35	225.23	0.62
1	1506	Hazel	73.53	236.59	238.67	238.67	238.81	0.006765	2.05	68.48	221.1	0.61
1	1506	Hazel w CC	88.45	236.59	238.72	238.72	238.86	0.007136	2.17	79.22	230.63	0.63
1	4	Little Ave	Culvert									
1	1483	100 Year	79.27	236.45	238.38	238.38	238.52	0.008434	2.27	69.23	223.47	0.68
1	1483	Hazel	73.53	236.45	238.36	238.36	238.5	0.008167	2.22	65.97	220.96	0.67
1	1483	Hazel w CC	88.45	236.45	238.4	238.4	238.55	0.008831	2.36	74.3	228.81	0.7
1	1463	100 Year	79.27	236.48	238.15		238.26	0.004137	1.69	64.41	138.26	0.48
1	1463	Hazel	73.53	236.48	238.1		238.23	0.004412	1.71	58.48	131.11	0.5
1	1463	Hazel w CC	88.45	236.48	238.24		238.34	0.003406	1.61	77.77	146.87	0.44
1	1449	100 Year	79.27	236.36	238.13		238.2	0.003142	1.52	84.1	163.09	0.42
1	1449	Hazel	73.53	236.36	238.08		238.16	0.003298	1.52	77.09	157.06	0.43
1	1449	Hazel w CC	88.45	236.36	238.23		238.29	0.002562	1.44	100.94	183.81	0.39
1	1434	100 Year	79.27	236.4	238.1		238.15	0.002369	1.33	110.71	201.88	0.37
1	1434	Hazel	73.53	236.4	238.06		238.11	0.002481	1.33	101.72	195.8	0.38
1	1434	Hazel w CC	88.45	236.4	238.21		238.25	0.001941	1.27	132.48	217.56	0.34
1	1419	100 Year	79.27	236.14	238.07		238.12	0.00202	1.35	109.51	152.34	0.34
1	1419	Hazel	73.53	236.14	238.03		238.07	0.002004	1.32	102.95	147.08	0.34
1	1419	Hazel w CC	88.45	236.14	238.17		238.22	0.00189	1.36	125.48	167.1	0.34
1	1412	100 Year	79.27	236.13	237.98		238.09	0.003406	1.71	54.99	46.9	0.44
1	1412	Hazel	73.53	236.13	237.95		238.05	0.003196	1.63	53.41	46.55	0.43
1	1412	Hazel w CC	88.45	236.13	238.07		238.19	0.003396	1.78	59.28	47.92	0.45
1	1398	100 Year	79.27	235.97	237.94		238.05	0.002961	1.61	57.38	47.07	0.41
1	1398	Hazel	73.53	235.97	237.91		238.01	0.002753	1.53	55.92	46.79	0.4
1	1398	Hazel w CC	88.45	235.97	238.03		238.14	0.00296	1.67	61.68	47.67	0.42

1	1024	100 Year	79.27	233.92	237.71		237.73	0.000266	0.84	124.79	113.54	0.14
1	1024	Hazel	73.53	233.92	237.7		237.73	0.000233	0.79	124.14	109.95	0.14
1	1024	Hazel w CC	88.45	233.92	237.79		237.82	0.000288	0.89	134.83	124.19	0.15
1	1000	100 Year	79.27	233.16	237.66	235.62	237.72	0.001035	0.86	78.38	50.72	0.16
1	1000	Hazel	73.53	233.16	237.66	235.53	237.71	0.000888	0.8	78.43	50.78	0.15
1	1000	Hazel w CC	88.45	233.16	237.73	235.75	237.8	0.001101	0.9	81.81	54.3	0.16
1	982	100 Year	79.27	233.12	237.6	235.43	237.69	0.001497	1.43	67.6	51.23	0.24
1	982	Hazel	73.53	233.12	237.61	235.36	237.69	0.00127	1.32	68.02	52.23	0.22
1	982	Hazel w CC	88.45	233.12	237.67	235.56	237.78	0.001696	1.54	70.32	54.27	0.25
1	966	100 Year	76.06	232.95	237.57	235.6	237.66	0.002484	1.42	61.38	76.57	0.25
1	966	Hazel	75.64	232.95	237.57	235.6	237.66	0.002463	1.42	61.32	76.5	0.24
1	966	Hazel w CC	91.39	232.95	237.61	235.81	237.74	0.003374	1.67	62.78	78.65	0.29
1	946	100 Year	76.06	232.74	237.49	237.39	237.6	0.003068	1.78	69.54	161.74	0.42
1	946	Hazel	75.64	232.74	237.49	237.38	237.6	0.003104	1.79	68.78	161.61	0.42
1	946	Hazel w CC	91.39	232.74	237.51	237.44	237.66	0.004018	2.06	72.83	162.47	0.48
1	Young St		Culvert									
1	903	100 Year	76.06	231.89	236.8	236.8	236.94	0.003479	2.13	53.8	137.94	0.45
1	903	Hazel	75.64	231.89	236.8	236.8	236.94	0.003521	2.14	53.33	137.87	0.46
1	903	Hazel w CC	91.39	231.89	236.84	236.84	237	0.003987	2.3	58.74	138.72	0.49
1	875	100 Year	76.06	231.21	233.38	233.38	233.9	0.009791	2.7	25	26.98	0.64
1	875	Hazel	75.64	231.21	233.38	233.38	233.89	0.00988	2.7	24.84	26.95	0.65
1	875	Hazel w CC	91.39	231.21	233.52	233.52	234.1	0.008989	2.71	28.74	27.65	0.63
1	851	100 Year	76.06	230.62	233.2		233.38	0.003736	1.87	40.13	32.92	0.41
1	851	Hazel	75.64	230.62	233.19		233.38	0.00373	1.87	40.02	32.9	0.41
1	851	Hazel w CC	91.39	230.62	233.35		233.57	0.003583	1.92	45.37	33.85	0.41
1	832	100 Year	76.06	230.23	233.1		233.33	0.002298	1.31	40.99	28.27	0.28
1	832	Hazel	75.64	230.23	233.1		233.32	0.002285	1.31	40.92	28.27	0.28
1	832	Hazel w CC	91.39	230.23	233.23		233.51	0.002474	1.42	44.69	28.49	0.29
1	815	100 Year	76.06	229.6	232.89		233.25	0.007079	2.89	31.32	24.78	0.57
1	815	Hazel	75.64	229.6	232.89		233.24	0.006981	2.87	31.35	24.81	0.56
1	815	Hazel w CC	91.39	229.6	232.94	232.79	233.41	0.009184	3.33	32.61	25.72	0.65
1	803	100 Year	76.06	229.49	232.96		233.14	0.00283	2.03	45.43	25.13	0.39
1	803	Hazel	75.64	229.49	232.96		233.14	0.002798	2.02	45.44	25.13	0.39
1	803	Hazel w CC	91.39	229.49	233.04		233.28	0.003667	2.35	47.36	25.68	0.45
1	789	100 Year	76.06	229.44	233.06		233.09	0.000265	0.79	109.2	43.58	0.14
1	789	Hazel	75.64	229.44	233.06		233.09	0.000263	0.79	109.16	43.57	0.14
1	789	Hazel w CC	91.39	229.44	233.17		233.2	0.000339	0.91	113.97	44.79	0.16
1	773	100 Year	76.06	229.07	233.05	230.84	233.08	0.000307	0.85	100.23	52.33	0.15
1	773	Hazel	75.64	229.07	233.05	230.84	233.08	0.000304	0.85	100.19	52.3	0.15
1	773	Hazel w CC	91.39	229.07	233.15	230.97	233.2	0.000394	0.99	106	56.36	0.17
1	761	100 Year	76.06	228.95	233.03	230.64	233.08	0.000419	0.98	101.37	55.04	0.17
1	761	Hazel	75.64	228.95	233.03	230.63	233.08	0.000415	0.98	101.34	55.03	0.16
1	761	Hazel w CC	91.39	228.95	233.14	230.78	233.19	0.00054	1.14	107.01	56.05	0.19
1	752	100 Year	76.06	228.71	233.03	230.57	233.07	0.000504	1.06	99.51	47.41	0.17
1	752	Hazel	75.64	228.71	233.03	230.57	233.07	0.000498	1.06	99.48	47.4	0.17
1	752	Hazel w CC	91.39	228.71	233.13	230.72	233.19	0.000652	1.23	104.27	48.65	0.2
1	741	100 Year	76.06	228.39	232.95	230.78	233.06	0.000858	1.62	72.35	35.87	0.26
1	741	Hazel	75.64	228.39	232.95	230.77	233.06	0.000848	1.61	72.36	35.88	0.26
1	741	Hazel w CC	91.39	228.39	233.01	231	233.17	0.001153	1.9	74.78	36.17	0.3
1	725	100 Year	76.06	228.35	232.88	230.98	233.04	0.002036	1.81	57	62.35	0.3
1	725	Hazel	75.64	228.35	232.88	230.97	233.03	0.002011	1.8	57.04	62.36	0.3
1	725	Hazel w CC	91.39	228.35	232.92	231.22	233.13	0.002807	2.14	58.35	63.08	0.35

1	712	100 Year	76.06	228.11	232.89	230.54	233	0.001232	1.5	61.45	102.48	0.24
1	712	Hazel	75.64	228.11	232.9	230.53	233	0.001217	1.49	61.47	102.53	0.24
1	712	Hazel w CC	91.39	228.11	232.94	230.75	233.09	0.001708	1.78	62.52	104.71	0.28
1	697	100 Year	76.06	227.97	232.95	229.68	232.97	0.000322	0.64	119.59	166.49	0.11
1	697	Hazel	75.64	227.97	232.95	229.68	232.97	0.000318	0.64	119.6	166.5	0.11
1	697	Hazel w CC	91.39	227.97	233.01	229.82	233.04	0.000437	0.76	121.98	168.21	0.13
1	677	100 Year	77.3	227.73	232.95	228.98	232.96	0.000089	0.36	218.87	184.97	0.06
1	677	Hazel	77.76	227.73	232.95	228.99	232.96	0.00009	0.36	218.88	184.99	0.06
1	677	Hazel w CC	94.03	227.73	233.02	229.09	233.03	0.000125	0.43	222.86	197.12	0.07
1	655	100 Year	77.3	226.92	232.9	232.72	232.94	0.001616	0.73	96.61	242.01	0.26
1	655	Hazel	77.76	226.92	232.9	232.72	232.94	0.001643	0.73	96.47	242	0.27
1	655	Hazel w CC	94.03	226.92	232.97	232.76	233.01	0.001485	0.73	111.91	245.22	0.26
1	Rail Line	Culvert										
1	592	100 Year	77.3	225.03	232.75	232.75	232.9	0.016188	2.02	52.28	156.3	0.81
1	592	Hazel	77.76	225.03	232.76	232.76	232.9	0.015504	1.99	53.31	156.31	0.8
1	592	Hazel w CC	94.03	225.03	232.8	232.8	232.96	0.016314	2.13	59.72	156.39	0.83
1	574	100 Year	77.3	224.78	230.23	226.66	230.24	0.000079	0.56	165.62	99.54	0.08
1	574	Hazel	77.76	224.78	230.25	226.67	230.26	0.000079	0.56	166.5	99.81	0.08
1	574	Hazel w CC	94.03	224.78	230.4	226.79	230.42	0.000102	0.65	173.3	101.79	0.09
1	565	100 Year	77.3	224.51	230.24		230.24	0.000041	0.43	214.24	106.99	0.06
1	565	Hazel	77.76	224.51	230.26		230.26	0.000041	0.43	215.28	107.21	0.06
1	565	Hazel w CC	94.03	224.51	230.4		230.41	0.000054	0.51	223.32	108.88	0.07
1	542	100 Year	77.3	224.25	230.24		230.24	0.000027	0.36	271.6	124.12	0.05
1	542	Hazel	77.76	224.25	230.26		230.26	0.000027	0.36	274	124.24	0.05
1	542	Hazel w CC	94.03	224.25	230.41		230.41	0.000034	0.41	292.67	124.93	0.05
1	522	100 Year	77.3	223.77	230.24		230.24	0.000028	0.38	239.66	102.27	0.05
1	522	Hazel	77.76	223.77	230.25		230.26	0.000028	0.38	240.69	102.44	0.05
1	522	Hazel w CC	94.03	223.77	230.4		230.41	0.000037	0.45	248.72	103.84	0.06
1	513	100 Year	77.3	223.76	230.24	225.38	230.24	0.000023	0.36	260.02	104.12	0.05
1	513	Hazel	77.76	223.76	230.25	225.38	230.26	0.000023	0.36	261.13	104.42	0.05
1	513	Hazel w CC	94.03	223.76	230.4	225.49	230.41	0.000033	0.43	269.97	109.18	0.06
1	494	100 Year	77.3	223.28	230.24	225.03	230.24	0.00002	0.34	270.85	99.15	0.04
1	494	Hazel	77.76	223.28	230.25	225.04	230.26	0.00002	0.34	271.97	99.74	0.04
1	494	Hazel w CC	94.03	223.28	230.4	225.16	230.41	0.000027	0.41	280.83	103.04	0.05
1	487	100 Year	78.35	223.33	230.23	225.16	230.24	0.000034	0.44	224.26	91.39	0.06
1	487	Hazel	79.58	223.33	230.25	225.17	230.26	0.000034	0.45	225.33	91.78	0.06
1	487	Hazel w CC	96.33	223.33	230.4	225.31	230.41	0.000046	0.53	233.84	95.07	0.07
1	481	100 Year	78.35	222.95	230.08	226.47	230.2	0.001285	1.79	64.53	56.43	0.31
1	481	Hazel	79.58	222.95	230.1	226.5	230.22	0.001277	1.79	65.67	57.09	0.31
1	481	Hazel w CC	96.33	222.95	230.22	226.97	230.37	0.001492	1.98	73.24	71.82	0.33
1	Hurst Dr	Culvert										
1	435	100 Year	78.35	221.97	225.41	225.41	227.11	0.012584	5.77	13.59	33.62	1
1	435	Hazel	79.58	221.97	225.45	225.45	227.16	0.012541	5.8	13.73	33.73	1
1	435	Hazel w CC	96.33	221.97	225.92	225.92	227.86	0.011993	6.17	15.61	35.28	1
1	423	100 Year	78.35	221.9	223.82	223.82	224.27	0.016771	3.51	27.41	29.94	0.94
1	423	Hazel	79.58	221.9	223.83	223.83	224.29	0.016797	3.53	27.68	30	0.95
1	423	Hazel w CC	96.33	221.9	223.96	223.96	224.47	0.016355	3.69	31.68	30.66	0.95
1	402	100 Year	78.35	221.74	223.38		223.67	0.011102	2.8	34.34	37.98	0.78
1	402	Hazel	79.58	221.74	223.4		223.68	0.010875	2.79	34.91	38.03	0.77
1	402	Hazel w CC	96.33	221.74	223.61		223.88	0.008365	2.69	42.88	38.7	0.69

1	377	100 Year	78.35	221.27	223.32		223.46	0.004369	2.02	48.72	44	0.5
1	377	Hazel	79.58	221.27	223.34		223.48	0.004291	2.01	49.5	44.09	0.5
1	377	Hazel w CC	96.33	221.27	223.57		223.71	0.003499	1.99	59.92	45.47	0.46
1	349	100 Year	78.35	220.86	223.24		223.36	0.002635	1.89	52.94	38.7	0.41
1	349	Hazel	79.58	220.86	223.26		223.38	0.002609	1.89	53.65	38.79	0.41
1	349	Hazel w CC	96.33	220.86	223.5		223.63	0.002328	1.91	63.1	39.62	0.4
1	325	100 Year	78.35	220.55	223.18		223.3	0.002344	1.86	51.21	32.15	0.39
1	325	Hazel	79.58	220.55	223.19		223.32	0.002335	1.86	51.79	32.2	0.39
1	325	Hazel w CC	96.33	220.55	223.43		223.57	0.002237	1.94	59.51	32.86	0.38
1	308	100 Year	78.35	220.49	222.84	222.53	223.21	0.007585	3.14	30.17	20.86	0.68
1	308	Hazel	79.58	220.49	222.85	222.54	223.23	0.007566	3.15	30.52	20.93	0.68
1	308	Hazel w CC	96.33	220.49	223.07	222.72	223.48	0.007376	3.31	35.02	21.68	0.69
1	293	100 Year	78.35	220.34	222.41	222.41	223.03	0.013658	3.89	23.94	19.12	0.92
1	293	Hazel	79.58	220.34	222.42	222.42	223.05	0.013668	3.91	24.19	19.16	0.92
1	293	Hazel w CC	96.33	220.34	222.6	222.6	223.3	0.013673	4.15	27.6	19.69	0.93
1	269	100 Year	78.35	219.97	222.44		222.61	0.003933	2.22	45.9	31.81	0.5
1	269	Hazel	79.58	219.97	222.45		222.62	0.003962	2.23	46.26	31.85	0.5
1	269	Hazel w CC	96.33	219.97	222.58		222.79	0.004399	2.46	50.66	32.32	0.53
1	253	100 Year	78.35	219.89	222.4		222.54	0.00308	2.04	50.88	34.35	0.44
1	253	Hazel	79.58	219.89	222.41		222.55	0.003107	2.06	51.26	34.41	0.44
1	253	Hazel w CC	96.33	219.89	222.55		222.72	0.003495	2.27	55.98	35.95	0.47
1	230	100 Year	78.35	219.65	222.34	221.87	222.46	0.003187	1.68	51.18	47.01	0.42
1	230	Hazel	79.58	219.65	222.35	221.88	222.47	0.003183	1.68	51.7	47.18	0.42
1	230	Hazel w CC	96.33	219.65	222.48	221.98	222.63	0.003202	1.78	58.26	49.37	0.42
1	The Blvd		Culvert									
1	213	100 Year	78.35	219.57	221.63	221.63	221.98	0.010431	2.25	33.6	51.89	0.72
1	213	Hazel	79.58	219.57	221.64	221.64	221.99	0.010356	2.25	34.06	51.96	0.72
1	213	Hazel w CC	96.33	219.57	221.74	221.74	222.13	0.009984	2.36	39.4	52.9	0.72
1	200	100 Year	78.35	219.16	220.99		221.06	0.006709	1.65	73.38	232.17	0.47
1	200	Hazel	79.58	219.16	221		221.07	0.006515	1.63	75.47	232.47	0.46
1	200	Hazel w CC	96.33	219.16	221.08		221.15	0.006514	1.7	93.07	234.85	0.47
1	183	100 Year	78.32	219.21	220.65	220.65	220.85	0.024775	2.71	45.35	180.99	0.85
1	183	Hazel	80.29	219.21	220.65	220.65	220.86	0.026662	2.8	44.97	180.7	0.89
1	183	Hazel w CC	97.25	219.21	220.71	220.71	220.93	0.026255	2.89	51.6	182.53	0.89
1	169	100 Year	78.32	218.93	220.01	219.82	220.05	0.004118	1.01	89.64	219.47	0.4
1	169	Hazel	80.29	218.93	220	219.82	220.04	0.004503	1.05	88.53	219.27	0.42
1	169	Hazel w CC	97.25	218.93	220.06	219.85	220.11	0.004238	1.06	101.88	224.81	0.41
1	Brennan Ave		Culvert									
1	152	100 Year	78.32	218.7	219.98	219.82	220.03	0.003044	1	85.02	233.73	0.36
1	152	Hazel	80.29	218.7	219.99	219.82	220.04	0.002954	0.98	87.37	235.1	0.35
1	152	Hazel w CC	97.25	218.7	220.04	219.86	220.09	0.002887	0.99	100.33	247.11	0.35
1	120	100 Year	78.32	218.89	219.8		219.86	0.010386	1.62	80.48	226.51	0.65
1	120	Hazel	80.29	218.89	219.81		219.87	0.010466	1.63	81.95	229.46	0.66
1	120	Hazel w CC	97.25	218.89	219.86		219.93	0.011004	1.76	95.52	254.54	0.68
1	107	100 Year	78.32	218.87	219.83		219.84	0.000088	0.17	243.63	403.56	0.06
1	107	Hazel	80.29	218.87	219.84		219.85	0.00009	0.17	246.42	405.1	0.06
1	107	Hazel w CC	97.25	218.87	219.9		219.91	0.000101	0.19	270.31	410.34	0.07
1	80	100 Year	78.32	218.7	219.81		219.83	0.00294	0.47	126.34	308.3	0.17
1	80	Hazel	80.29	218.7	219.82		219.84	0.002959	0.47	128.38	310.95	0.17
1	80	Hazel w CC	97.25	218.7	219.87		219.9	0.003055	0.5	146.63	336.54	0.17
1	62	100 Year	78.32	218.72	219.72		219.76	0.0043	1.04	82.3	216.57	0.44

1	62	Hazel	80.29	218.72	219.72		219.77	0.004359	1.05	83.41	217.33	0.44
1	62	Hazel w CC	97.25	218.72	219.77		219.82	0.004625	1.12	93.88	224.06	0.45
1	44	100 Year	78.32	218.71	219.66		219.69	0.003639	0.98	114.98	349.73	0.37
1	44	Hazel	80.29	218.71	219.66		219.69	0.003686	0.99	116.57	351.66	0.37
1	44	Hazel w CC	97.25	218.71	219.71		219.74	0.003691	1.03	134.11	366.08	0.37
1	30	100 Year	78.32	218.73	219.61		219.63	0.00481	1.08	147.84	429.84	0.4
1	30	Hazel	80.29	218.73	219.61		219.63	0.004901	1.09	149.45	430.07	0.4
1	30	Hazel w CC	97.25	218.73	219.66		219.68	0.004881	1.14	171	436.92	0.41
1	16	100 Year	78.32	218.65	219.37	219.37	219.48	0.032251	2.66	68.5	315.98	1.2
1	16	Hazel	80.29	218.65	219.38	219.38	219.48	0.03128	2.64	70.67	317.52	1.19
1	16	Hazel w CC	97.25	218.65	219.4	219.4	219.52	0.03634	2.91	77.52	327.29	1.28
1	11	100 Year	78.32	217.3	219.13	217.46	219.13	0.000011	0.11	699.43	382.26	0.03
1	11	Hazel	80.29	217.3	219.13	217.47	219.13	0.000011	0.12	699.43	382.26	0.03
1	11	Hazel w CC	97.25	217.3	219.13	217.49	219.13	0.000017	0.14	699.43	382.26	0.03

Whiskey Creek - Calibration -25% Mannings

Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
			(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
1	6450	100 Year	14.25	297.18	298.04	298.04	298.36	0.00735	2.54	5.86	9.65	0.97
1	6450	Hazel	12.15	297.18	297.97	297.97	298.26	0.007625	2.42	5.22	9.39	0.97
1	6450	Hazel w CC	14.7	297.18	298.05	298.05	298.38	0.007273	2.56	6	9.71	0.97
1	6427	100 Year	14.25	296	297.91		297.98	0.000715	1.42	12.94	13.23	0.34
1	6427	Hazel	12.15	296	297.88		297.94	0.00056	1.24	12.57	13	0.3
1	6427	Hazel w CC	14.7	296	297.91		297.99	0.000748	1.45	13.03	13.28	0.35
1	6398	100 Year	14.25	295.42	297.95		297.96	0.000061	0.53	37.85	27.93	0.11
1	6398	Hazel	12.15	295.42	297.91		297.92	0.000048	0.46	36.8	27.58	0.1
1	6398	Hazel w CC	14.7	295.42	297.96		297.97	0.000064	0.54	38.11	28.02	0.11
1	6365	100 Year	14.25	295.1	297.95		297.96	0.000008	0.21	81.4	39.54	0.04
1	6365	Hazel	12.15	295.1	297.92		297.92	0.000006	0.18	79.88	39.3	0.04
1	6365	Hazel w CC	14.7	295.1	297.96		297.97	0.000008	0.22	81.79	39.6	0.04
1	6330	100 Year	14.25	295.11	297.95		297.96	0.000006	0.18	87.95	40.65	0.03
1	6330	Hazel	12.15	295.11	297.92		297.92	0.000004	0.16	86.4	40.19	0.03
1	6330	Hazel w CC	14.7	295.11	297.96		297.97	0.000006	0.18	88.35	40.84	0.04
1	6295	100 Year	14.25	295.1	297.95		297.96	0.000005	0.17	95.05	45.79	0.03
1	6295	Hazel	12.15	295.1	297.92		297.92	0.000004	0.15	93.3	44.86	0.03
1	6295	Hazel w CC	14.7	295.1	297.96		297.97	0.000005	0.17	95.5	46.03	0.03
1	6248	100 Year	14.25	295.14	297.94	297.48	297.95	0.000203	0.45	35.01	55.37	0.17
1	6248	Hazel	12.15	295.14	297.91	296.7	297.91	0.000177	0.41	32.99	54.9	0.15
1	6248	Hazel w CC	14.7	295.14	297.95	297.48	297.96	0.000206	0.46	35.54	55.49	0.17
1	Pond Berm	Culvert										
1	6203	100 Year	14.25	292.86	297.55	294.62	297.61	0.000347	1.17	21.25	61.07	0.25
1	6203	Hazel	12.15	292.86	297.52	294.43	297.57	0.000292	1.06	19.23	60.83	0.23
1	6203	Hazel w CC	14.7	292.86	297.56	294.65	297.62	0.000356	1.18	21.77	61.13	0.26
1	6173	100 Year	14.25	291.99	297.58	293.31	297.58	0.000001	0.1	186.37	56.96	0.01
1	6173	Hazel	12.15	291.99	297.55	293.27	297.55	0.000001	0.09	184.27	56.67	0.01
1	6173	Hazel w CC	14.7	291.99	297.59	293.31	297.59	0.000001	0.1	186.89	57.03	0.01
1	6142	100 Year	14.25	291.69	297.58	292.81	297.58	0.000001	0.11	214.62	65.55	0.01
1	6142	Hazel	12.15	291.69	297.55	292.77	297.55	0.000001	0.09	212.2	65.09	0.01
1	6142	Hazel w CC	14.7	291.69	297.59	292.82	297.59	0.000001	0.11	215.21	65.7	0.01
1	6120	100 Year	14.25	291.35	297.58	292.31	297.58	0	0.06	407.65	253.2	0.01
1	6120	Hazel	12.15	291.35	297.55	292.26	297.55	0	0.06	403.72	251.51	0.01
1	6120	Hazel w CC	14.7	291.35	297.59	292.32	297.59	0	0.07	408.61	253.84	0.01
1	6102	100 Year	14.25	291.08	297.58	291.89	297.58	0	0.05	491.42	269.84	0.01
1	6102	Hazel	12.15	291.08	297.55	291.85	297.55	0	0.05	487.16	269.25	0.01
1	6102	Hazel w CC	14.7	291.08	297.59	291.89	297.59	0	0.06	492.47	270.5	0.01
1	6094	100 Year	14.25	291.03	297.58	291.88	297.58	0	0.05	505.21	118.71	0.01
1	6094	Hazel	12.15	291.03	297.55	291.84	297.55	0	0.04	500.82	118.33	0.01
1	6094	Hazel w CC	14.7	291.03	297.59	291.89	297.59	0	0.05	506.29	118.8	0.01
1	6063	100 Year	14.25	290.67	297.58	291.32	297.58	0	0.06	460.28	105.3	0.01
1	6063	Hazel	12.15	290.67	297.55	291.27	297.55	0	0.05	456.39	104.95	0.01
1	6063	Hazel w CC	14.7	290.67	297.59	291.32	297.59	0	0.06	461.23	105.39	0.01
1	6039	100 Year	14.25	290.45	297.58	291.05	297.58	0	0.06	411.28	97.55	0.01
1	6039	Hazel	12.15	290.45	297.55	291.01	297.55	0	0.05	407.67	97.21	0.01
1	6039	Hazel w CC	14.7	290.45	297.59	291.06	297.59	0	0.06	412.16	97.63	0.01
1	6013	100 Year	14.25	290.29	297.46	293.09	297.56	0.002162	1.45	16.13	80.53	0.54
1	6013	Hazel	12.15	290.29	297.44	292.81	297.52	0.001911	1.34	14.26	80.31	0.5

1	6013	Hazel w CC	14.7	290.29	297.45	293.16	297.56	0.00255	1.56	15.14	80.42	0.58
1	Pond Berm Harvie		Culvert									
1	5942	100 Year	14.25	288.29	291.17	291.17	292.54	0.004837	5.19	2.75	33.56	1
1	5942	Hazel	12.15	288.29	290.89	290.89	292.13	0.005046	4.93	2.47	31.08	1
1	5942	Hazel w CC	14.7	288.29	291.22	291.22	292.63	0.004847	5.25	2.8	34	1
1	5897	100 Year	14.25	287.64	290.64		290.65	0.000008	0.22	85.91	44	0.04
1	5897	Hazel	12.15	287.64	290.5		290.5	0.000008	0.2	79.5	43.28	0.04
1	5897	Hazel w CC	14.7	287.64	290.59		290.59	0.000001	0.23	83.65	43.74	0.04
1	5863	100 Year	14.25	287.4	290.64		290.65	0.000004	0.17	115.6	49.81	0.03
1	5863	Hazel	12.15	287.4	290.5		290.5	0.000004	0.15	108.33	49.17	0.03
1	5863	Hazel w CC	14.7	287.4	290.59		290.59	0.000005	0.18	113.04	49.57	0.03
1	5810	100 Year	14.25	286.75	290.64		290.64	0.000004	0.19	132.66	60.38	0.03
1	5810	Hazel	12.15	286.75	290.5		290.5	0.000004	0.17	123.94	58.04	0.03
1	5810	Hazel w CC	14.7	286.75	290.59		290.59	0.000005	0.2	129.57	59.81	0.03
1	5777	100 Year	14.25	286.04	290.64		290.64	0.000001	0.09	279.95	158.66	0.01
1	5777	Hazel	12.15	286.04	290.5		290.5	0.000001	0.08	256.74	156.77	0.01
1	5777	Hazel w CC	14.7	286.04	290.59		290.59	0.000001	0.09	271.81	158.16	0.01
1	5762	100 Year	14.25	285.94	290.64		290.64	0.000001	0.09	313.83	136.07	0.01
1	5762	Hazel	12.15	285.94	290.5		290.5	0.000001	0.08	293.95	134.51	0.01
1	5762	Hazel w CC	14.7	285.94	290.59		290.59	0.000001	0.09	306.85	135.49	0.01
1	5739	100 Year	14.25	285.24	290.64		290.64	0.000001	0.07	332.74	120.35	0.01
1	5739	Hazel	12.15	285.24	290.5		290.5	0.000001	0.07	315.13	119.35	0.01
1	5739	Hazel w CC	14.7	285.24	290.59		290.59	0.000001	0.08	326.56	119.99	0.01
1	5722	100 Year	14.25	285.11	290.64		290.64	0.000001	0.06	336.43	119.11	0.01
1	5722	Hazel	12.15	285.11	290.5		290.5	0.000001	0.06	319.05	117.02	0.01
1	5722	Hazel w CC	14.7	285.11	290.59		290.59	0.000001	0.07	330.31	118.59	0.01
1	5704	100 Year	25.59	284.81	290.64		290.64	0.000002	0.1	353.31	125.75	0.01
1	5704	Hazel	20.14	284.81	290.5		290.5	0.000001	0.08	335.06	122.77	0.01
1	5704	Hazel w CC	24.34	284.81	290.59		290.59	0.000002	0.1	346.89	124.76	0.01
1	5682	100 Year	25.59	284.5	290.64		290.64	0.000002	0.15	345.36	105.68	0.02
1	5682	Hazel	20.14	284.5	290.5		290.5	0.000001	0.12	330.16	101.68	0.02
1	5682	Hazel w CC	24.34	284.5	290.59		290.59	0.000001	0.14	339.98	104.38	0.02
1	5648	100 Year	25.59	284.37	290.64	287.18	290.64	0.000001	0.07	657.64	229.76	0.01
1	5648	Hazel	20.14	284.37	290.5	286.58	290.5	0	0.06	623.94	228.74	0.01
1	5648	Hazel w CC	24.34	284.37	290.59	287.17	290.59	0	0.07	645.83	229.54	0.01
1	Harview 400 Ramp		Culvert									
1	5599	100 Year	25.59	283.8	290.64		290.64	0.000002	0.13	295.29	111.63	0.02
1	5599	Hazel	20.14	283.8	290.49		290.49	0.000001	0.11	278.7	110.36	0.02
1	5599	Hazel w CC	24.34	283.8	290.59		290.59	0.000002	0.13	288.96	111.29	0.02
1	5579	100 Year	32.58	283.74	290.64		290.64	0.000006	0.34	116.34	22.7	0.04
1	5579	Hazel	24.37	283.74	290.49		290.49	0.000004	0.26	113.13	20.77	0.03
1	5579	Hazel w CC	29.41	283.74	290.58		290.59	0.000005	0.31	115.09	22.11	0.04
1	5548	100 Year	32.58	283.51	290.57	285.55	290.64	0.000117	1.12	46.68	121.7	0.16
1	5548	Hazel	24.37	283.51	290.45	285.22	290.49	0.000076	0.89	32.16	107.59	0.13
1	5548	Hazel w CC	29.41	283.51	290.53	285.42	290.58	0.000101	1.04	40.94	118.91	0.15
1	Highway 400		Culvert									
1	5300	100 Year	32.58	280.17	287.73	282.22	287.79	0.00006	1.1	29.6	119.03	0.13
1	5300	Hazel	24.37	280.17	284.27	281.89	284.39	0.000275	1.54	15.78	82.75	0.25
1	5300	Hazel w CC	29.41	280.17	286.18	282.1	286.26	0.000107	1.26	23.43	108.89	0.17
1	5248	100 Year	32.58	279.5	287.77	280.42	287.77	0	0.1	575.54	126.65	0.01

1	5248	Hazel	24.37	279.5	284.36	280.31	284.36	0.000002	0.15	268.08	95.17	0.02
1	5248	Hazel w CC	29.41	279.5	286.24	280.37	286.24	0.000001	0.12	427.17	110.1	0.01
1	5194	100 Year	32.58	279.07	287.66	281.52	287.74	0.000067	1.29	25.29	146.73	0.14
1	5194	Hazel	24.37	279.07	284.18	281.12	284.32	0.000222	1.64	14.85	100.06	0.24
1	5194	Hazel w CC	29.41	279.07	286.11	281.37	286.21	0.000108	1.43	20.63	128.31	0.17
1		Fairview Rd	Culvert									
1	5098	100 Year	32.58	277.95	280.29	280.29	281.44	0.005217	4.75	6.86	61.61	1
1	5098	Hazel	24.37	277.95	280.15		280.88	0.00361	3.79	6.43	58.61	0.83
1	5098	Hazel w CC	29.41	277.95	280.13	280.13	281.21	0.005355	4.6	6.4	58.24	1.01
1	5044	100 Year	32.58	277.86	280.64		280.65	0.000044	0.48	103.14	59.6	0.09
1	5044	Hazel	24.37	277.86	280.5		280.51	0.00003	0.38	94.84	57.4	0.08
1	5044	Hazel w CC	29.41	277.86	280.6		280.6	0.000038	0.44	100.35	59.14	0.09
1	4960	100 Year	32.58	277.26	280.54	279.11	280.62	0.000435	1.51	41.1	63.87	0.3
1	4960	Hazel	24.37	277.26	280.42	278.82	280.48	0.000343	1.3	33.66	57.96	0.26
1	4960	Hazel w CC	29.41	277.26	280.5	279	280.58	0.000394	1.43	38.71	62.44	0.28
1	5	Rail Line S	Culvert									
1	4933	100 Year	32.58	277.35	279.09	279.09	279.91	0.005954	4	8.14	39.67	1
1	4933	Hazel	24.37	277.35	278.81	278.81	279.48	0.006275	3.62	6.74	38.72	1
1	4933	Hazel w CC	29.41	277.35	278.99	278.99	279.75	0.006053	3.86	7.62	39.31	1
1	4875	100 Year	32.58	276.28	277.31	277.31	277.68	0.007664	2.86	12.49	17.71	1.02
1	4875	Hazel	24.37	276.28	277.18	277.18	277.49	0.008071	2.61	10.2	17.25	1.02
1	4875	Hazel w CC	29.41	276.28	277.27	277.27	277.61	0.007795	2.77	11.63	17.55	1.02
1	4845	100 Year	32.58	276.04	276.87	276.87	277.19	0.008121	2.67	13.16	20.74	1.03
1	4845	Hazel	24.37	276.04	276.75	276.75	277.02	0.008607	2.43	10.76	20.27	1.02
1	4845	Hazel w CC	29.41	276.04	276.82	276.82	277.13	0.008275	2.58	12.26	20.58	1.02
1	4812	100 Year	32.58	275.41	276.02	276.02	276.27	0.009198	2.23	15.03	31.21	0.98
1	4812	Hazel	24.37	275.41	275.92	275.92	276.14	0.010523	2.07	12	30.08	1.02
1	4812	Hazel w CC	29.41	275.41	275.99	275.99	276.22	0.009372	2.15	14.01	30.98	0.98
1	4766	100 Year	32.58	273.63	274.92	274.92	275.23	0.006083	2.98	14.26	22.47	0.94
1	4766	Hazel	24.37	273.63	274.81	274.81	275.07	0.005727	2.69	11.92	21.67	0.89
1	4766	Hazel w CC	29.41	273.63	274.88	274.88	275.17	0.005906	2.87	13.43	22.17	0.92
1	4725	100 Year	32.58	273.3	274.04	274.04	274.35	0.008234	2.51	13.44	22.3	0.99
1	4725	Hazel	24.37	273.3	273.92	273.92	274.19	0.008832	2.29	10.92	21.59	0.99
1	4725	Hazel w CC	29.41	273.3	274	274	274.29	0.008344	2.42	12.53	22.05	0.98
1	4688	100 Year	32.58	272.68	273.83		273.92	0.001344	1.43	24.71	27.51	0.45
1	4688	Hazel	24.37	272.68	273.73		273.8	0.001052	1.19	22.11	26.65	0.39
1	4688	Hazel w CC	29.41	272.68	273.85		273.92	0.001015	1.26	25.34	27.68	0.39
1	4655	100 Year	32.58	272.24	273.83		273.88	0.000546	1.13	34.21	31.79	0.3
1	4655	Hazel	24.37	272.24	273.73		273.76	0.000406	0.93	31.15	30.91	0.25
1	4655	Hazel w CC	29.41	272.24	273.85		273.89	0.000418	1	34.92	32	0.26
1	4631	100 Year	32.66	271.61	273.62	273.28	273.84	0.002013	2.33	18.07	21.4	0.58
1	4631	Hazel	27.16	271.61	273.56	273.15	273.73	0.001596	2.03	17.06	19.92	0.51
1	4631	Hazel w CC	32.93	271.61	273.64	273.29	273.85	0.001938	2.31	18.48	21.98	0.57
1	4609	100 Year	32.66	272.02	273.6	273.56	273.74	0.003197	2.17	24.56	54.77	0.67
1	4609	Hazel	27.16	272.02	273.52	273.52	273.67	0.003795	2.25	20.14	50.84	0.72
1	4609	Hazel w CC	32.93	272.02	273.64	273.57	273.75	0.002692	2.03	26.38	57.34	0.62
1		Bayview Dr	Culvert									
1	4559	100 Year	32.66	270.35	273.24	273.24	273.39	0.002359	1.98	29.84	96.61	0.6
1	4559	Hazel	27.16	270.35	272.3	272.3	273.14	0.005936	4.05	6.71	40.76	1
1	4559	Hazel w CC	32.93	270.35	273.25	273.25	273.39	0.002256	1.95	30.73	96.61	0.58

1	4531	100 Year	32.66	270.13	270.91	270.91	271.11	0.008879	2.74	19.75	47.79	1.06
1	4531	Hazel	27.16	270.13	270.87	270.87	271.04	0.008456	2.56	17.68	47.36	1.03
1	4531	Hazel w CC	32.93	270.13	270.92	270.92	271.11	0.008601	2.71	20.08	47.85	1.05
1	4503	100 Year	32.66	268.98	270.51	270.51	270.71	0.004618	2.53	24.6	62.45	0.79
1	4503	Hazel	27.16	268.98	270.45	270.45	270.64	0.004585	2.42	20.86	60.59	0.78
1	4503	Hazel w CC	32.93	268.98	270.52	270.52	270.71	0.004613	2.53	24.8	62.53	0.79
1	4478	100 Year	32.66	268.9	270.12	270.12	270.28	0.005504	2.39	24.66	82.98	0.84
1	4478	Hazel	27.16	268.9	270.07	270.07	270.23	0.005657	2.33	20.56	80.33	0.85
1	4478	Hazel w CC	32.93	268.9	270.13	270.13	270.28	0.0055	2.4	24.85	83.13	0.84
1	4451	100 Year	32.66	268.81	269.62	269.62	269.87	0.012141	2.93	15.48	45.7	1.2
1	4451	Hazel	27.16	268.81	269.57	269.57	269.78	0.011687	2.73	13.89	40.05	1.16
1	4451	Hazel w CC	32.93	268.81	269.61	269.61	269.87	0.01254	2.97	15.4	44.99	1.21
1	4430	100 Year	32.66	268.56	269.22	269.22	269.37	0.013674	1.68	21.64	88.05	0.74
1	4430	Hazel	27.16	268.56	269.14	269.14	269.31	0.021153	1.84	15.15	81.14	0.9
1	4430	Hazel w CC	32.93	268.56	269.23	269.23	269.37	0.013645	1.68	21.82	88.07	0.74
1	4407	100 Year	32.66	267.83	268.65	268.65	268.8	0.010027	2.87	24.01	80.08	1.12
1	4407	Hazel	27.16	267.83	268.61	268.61	268.75	0.009611	2.7	21.01	78.81	1.09
1	4407	Hazel w CC	32.93	267.83	268.65	268.65	268.81	0.010062	2.88	24.14	80.11	1.12
1	4392	100 Year	32.66	267.64	268.25	268.25	268.42	0.011486	2.41	23.76	69.16	1.11
1	4392	Hazel	27.16	267.64	268.22	268.22	268.36	0.01087	2.23	21.39	68.66	1.07
1	4392	Hazel w CC	32.93	267.64	268.26	268.26	268.42	0.011537	2.42	23.85	69.21	1.11
1	4375	100 Year	32.66	267.3	268.07		268.12	0.003141	1.21	35.64	71.11	0.46
1	4375	Hazel	27.16	267.3	267.92		267.99	0.005808	1.41	25.69	62.96	0.6
1	4375	Hazel w CC	32.93	267.3	268.08		268.13	0.003086	1.21	36.05	71.37	0.45
1	4347	100 Year	32.66	266.89	268.08		268.1	0.000228	0.62	68.14	80.52	0.19
1	4347	Hazel	27.16	266.89	267.94		267.95	0.000268	0.61	56.94	76.93	0.2
1	4347	Hazel w CC	32.93	266.89	268.09		268.1	0.000227	0.62	68.6	80.56	0.19
1	4245	100 Year	32.66	266.94	268.07		268.09	0.000145	0.34	56.27	114.14	0.12
1	4245	Hazel	27.16	266.94	267.92		267.95	0.000254	0.4	39.42	96.32	0.15
1	4245	Hazel w CC	32.93	266.94	268.08		268.1	0.000142	0.34	56.95	114.19	0.12
1	4146	100 Year	32.66	266.63	268.08		268.08	0.000019	0.15	128.19	210.08	0.04
1	4146	Hazel	27.16	266.63	267.93		267.93	0.000029	0.17	97.49	191.01	0.05
1	4146	Hazel w CC	32.93	266.63	268.08		268.09	0.000018	0.15	129.45	210.19	0.04
1	4042	100 Year	32.66	266.23	268.08		268.08	0.000004	0.08	231.18	301.44	0.02
1	4042	Hazel	27.16	266.23	267.93		267.93	0.000006	0.09	185.82	297.97	0.03
1	4042	Hazel w CC	32.93	266.23	268.09		268.09	0.000004	0.08	232.98	301.53	0.02
1	4008	100 Year	32.66	266.33	268.08		268.08	0.000001	0.05	307.73	299.88	0.01
1	4008	Hazel	27.16	266.33	267.93		267.93	0.000002	0.05	262.68	296.43	0.01
1	4008	Hazel w CC	32.93	266.33	268.09		268.09	0.000001	0.05	309.52	300.01	0.01
1	3969	100 Year	32.66	266.13	268.01	267.69	268.07	0.000533	1.04	29.42	39.06	0.27
1	3969	Hazel	27.16	266.13	267.85	267.62	267.92	0.000794	1.18	23.31	38.8	0.32
1	3969	Hazel w CC	32.93	266.13	268.01	267.69	268.08	0.000528	1.04	29.64	39.08	0.26
1	3927	100 Year	32.66	265.97	268	267.32	268.05	0.000408	0.92	32.92	40	0.23
1	3927	Hazel	27.16	265.97	267.83	267.2	267.89	0.00059	1.03	26.38	39.32	0.27
1	3927	Hazel w CC	32.93	265.97	268	267.33	268.05	0.000405	0.92	33.15	40.03	0.23
1	3887.475	100 Year	32.66	265.84	267.86	267.21	268.01	0.001902	1.78	22.61	46.06	0.45
1	3887.475	Hazel	27.16	265.84	267.68	267.08	267.83	0.002159	1.75	15.99	17.23	0.47
1	3887.475	Hazel w CC	32.93	265.84	267.86	267.22	268.01	0.001894	1.78	22.92	46.13	0.45
1	3849	100 Year	32.66	265.87	267.68	267.24	267.91	0.00256	2.18	16.8	30.54	0.57
1	3849	Hazel	27.16	265.87	267.53	267.12	267.74	0.002562	2.03	13.92	12.99	0.56
1	3849	Hazel w CC	32.93	265.87	267.68	267.24	267.92	0.002565	2.18	16.96	30.81	0.57
1	3743	100 Year	32.66	265.41	266.85	266.85	267.35	0.01406	3.13	10.42	10.4	1

1	3743	Hazel	27.16	265.41	266.71	266.71	267.18	0.014189	3.01	9.02	9.92	1.01
1	3743	Hazel w CC	32.93	265.41	266.86	266.86	267.36	0.013867	3.12	10.55	10.44	0.99
1	3658	100 Year	32.66	262.24	264.64		264.83	0.003395	1.93	17.59	15.95	0.5
1	3658	Hazel	27.16	262.24	264.51		264.67	0.003174	1.76	15.69	14.23	0.48
1	3658	Hazel w CC	32.93	262.24	264.64		264.83	0.003405	1.94	17.69	16.03	0.5
1	3626	100 Year	32.66	262.12	263.31	263.31	263.66	0.007851	2.69	14.11	23.26	0.95
1	3626	Hazel	27.16	262.12	263.22	263.22	263.54	0.008107	2.55	12.05	22.07	0.96
1	3626	Hazel w CC	32.93	262.12	263.31	263.31	263.66	0.007842	2.69	14.21	23.3	0.95
1	3607	100 Year	32.66	261.57	262.9	262.9	263.18	0.008657	2.41	15.69	35.37	0.92
1	3607	Hazel	27.16	261.57	262.83	262.83	263.09	0.008729	2.28	13.32	31.64	0.92
1	3607	Hazel w CC	32.93	261.57	262.91	262.91	263.18	0.008607	2.41	15.84	35.47	0.92
1	3587	100 Year	32.66	260.22	262.33	262.33	262.56	0.00309	2.57	21.93	48.97	0.64
1	3587	Hazel	27.16	260.22	262.27	262.27	262.48	0.002778	2.38	19.13	45.74	0.61
1	3587	Hazel w CC	32.93	260.22	262.33	262.33	262.57	0.003085	2.57	22.13	49.09	0.64
1	3559	100 Year	32.66	259.8	261.74	261.74	261.94	0.003573	2.49	27.44	63.01	0.7
1	3559	Hazel	27.16	259.8	261.68	261.68	261.87	0.003369	2.34	23.84	60.11	0.68
1	3559	Hazel w CC	32.93	259.8	261.74	261.74	261.94	0.00358	2.49	27.61	63.05	0.7
1	3525	100 Year	32.66	259.18	261.11	261.11	261.3	0.003037	2.44	23.97	63.34	0.65
1	3525	Hazel	27.16	259.18	260.94	260.94	261.22	0.004419	2.71	14.35	43.53	0.77
1	3525	Hazel w CC	32.93	259.18	261.11	261.11	261.31	0.003043	2.45	24.14	63.37	0.65
1	3495	100 Year	32.66	258.93	260.64	260.64	260.92	0.005008	2.83	21.87	46.07	0.84
1	3495	Hazel	27.16	258.93	260.6	260.6	260.83	0.004125	2.51	20.24	44.55	0.76
1	3495	Hazel w CC	32.93	258.93	260.64	260.64	260.92	0.004977	2.83	22.09	46.37	0.84
1	3479	100 Year	32.66	258.96	260.14	260.02	260.42	0.005843	2.7	19.16	30.71	0.89
1	3479	Hazel	27.16	258.96	260.07	259.97	260.31	0.005381	2.47	17.25	29.33	0.85
1	3479	Hazel w CC	32.93	258.96	260.14	260.1	260.42	0.005866	2.71	19.25	30.78	0.89
1	3445	100 Year	32.66	258.79	259.97	259.97	260.23	0.005121	2.7	20.15	38.92	0.86
1	3445	Hazel	27.16	258.79	259.9	259.9	260.14	0.00493	2.53	17.59	38.45	0.84
1	3445	Hazel w CC	32.93	258.79	259.97	259.97	260.23	0.005131	2.7	20.26	38.94	0.86
1	3425	100 Year	32.66	258.51	259.82		259.91	0.002859	1.87	34.91	67.53	0.63
1	3425	Hazel	27.16	258.51	259.74		259.82	0.002992	1.79	29.5	63.93	0.63
1	3425	Hazel w CC	32.93	258.51	259.81		259.9	0.003015	1.91	34.44	67.49	0.64
1	3409	100 Year	32.66	258.25	259.71		259.85	0.002767	2.15	28.33	55.51	0.64
1	3409	Hazel	27.16	258.25	259.53	259.53	259.75	0.004586	2.47	18.8	50.15	0.8
1	3409	Hazel w CC	32.93	258.25	259.6	259.59	259.83	0.004536	2.59	22.74	52.79	0.81
1	3392	100 Year	55.85	258.06	259.48	259.48	259.76	0.006399	3.21	33.03	59.49	0.97
1	3392	Hazel	43.65	258.06	259.4	259.4	259.64	0.005761	2.9	28.37	58.87	0.91
1	3392	Hazel w CC	51.91	258.06	259.46	259.46	259.72	0.0062	3.11	31.6	59.33	0.95
1	3378	100 Year	55.85	258.03	259.28	259.28	259.52	0.007143	3.22	34.83	64.75	1.01
1	3378	Hazel	43.65	258.03	259.19	259.19	259.41	0.006907	2.99	29.47	63.92	0.98
1	3378	Hazel w CC	51.91	258.03	259.25	259.25	259.48	0.007124	3.16	33.07	64.47	1.01
1	3356	100 Year	55.85	257.67	259.09	259.09	259.35	0.007309	3.38	31.57	60.44	1.02
1	3356	Hazel	43.65	257.67	259.03	259.03	259.24	0.006138	2.99	27.98	59.44	0.93
1	3356	Hazel w CC	51.91	257.67	259.08	259.08	259.31	0.006605	3.2	31.05	60.36	0.97
1	3338	100 Year	55.85	257.6	258.95		259.12	0.004643	2.71	35.31	58.29	0.82
1	3338	Hazel	43.65	257.6	258.84		259	0.004792	2.58	29.07	57.06	0.82
1	3338	Hazel w CC	51.91	257.6	258.91		259.08	0.004779	2.69	33.11	57.86	0.83
1	3314	100 Year	55.85	257.47	258.7	258.7	258.97	0.007642	3.37	29.12	54.91	1.05
1	3314	Hazel	43.65	257.47	258.62	258.62	258.85	0.007343	3.12	24.42	53.81	1.01
1	3314	Hazel w CC	51.91	257.47	258.68	258.68	258.93	0.007303	3.25	28.02	54.74	1.02
1	3293	100 Year	55.85	257.27	258.46	258.46	258.73	0.009162	3.51	29.52	50.45	1.13
1	3293	Hazel	43.65	257.27	258.37	258.37	258.61	0.008845	3.24	25.16	49.55	1.09

1	3293	Hazel w CC	51.91	257.27	258.44	258.44	258.69	0.008876	3.4	28.37	50.18	1.1
1	3273	100 Year	55.85	256.99	258.25	258.25	258.54	0.009507	3.75	31.51	48.07	1.17
1	3273	Hazel	43.65	256.99	258.16	258.16	258.41	0.008948	3.43	27.3	47.46	1.12
1	3273	Hazel w CC	51.91	256.99	258.22	258.22	258.5	0.009302	3.65	30.25	47.93	1.15
1	3254	100 Year	55.85	256.81	257.97	257.97	258.25	0.009603	3.33	30.83	49.31	1.14
1	3254	Hazel	43.65	256.81	257.88	257.88	258.13	0.009465	3.07	26.38	48.75	1.12
1	3254	Hazel w CC	51.91	256.81	257.94	257.94	258.21	0.009601	3.26	29.4	49.15	1.14
1	3222	100 Year	55.85	256.43	257.68	257.68	257.94	0.00605	3.09	32.03	55.38	0.94
1	3222	Hazel	43.65	256.43	257.59	257.59	257.83	0.005856	2.87	27.07	54.05	0.92
1	3222	Hazel w CC	51.91	256.43	257.65	257.65	257.91	0.006038	3.03	30.4	55.08	0.94
1	3202	100 Year	55.85	255.96	257.57		257.72	0.002978	2.39	40	59.81	0.67
1	3202	Hazel	43.65	255.96	257.39		257.57	0.00436	2.61	29.14	57.89	0.79
1	3202	Hazel w CC	51.91	255.96	257.52		257.67	0.003279	2.43	36.68	59.25	0.7
1	3177	100 Year	55.85	255.71	257.56		257.65	0.001484	1.83	47.62	58.53	0.47
1	3177	Hazel	43.65	255.71	257.38		257.47	0.001805	1.86	37.34	54.9	0.51
1	3177	Hazel w CC	51.91	255.71	257.5		257.59	0.001565	1.84	44.39	57.72	0.48
1	3161	100 Year	55.85	255.6	257.56		257.62	0.000968	1.6	52.23	54	0.39
1	3161	Hazel	43.65	255.6	257.38		257.44	0.001032	1.53	42.82	51.86	0.4
1	3161	Hazel w CC	51.91	255.6	257.5		257.57	0.000984	1.58	49.3	53.47	0.39
1	3139	100 Year	55.85	255.55	257.51		257.6	0.000912	1.65	48.33	44.71	0.4
1	3139	Hazel	43.65	255.55	257.34		257.42	0.000875	1.51	40.84	42.55	0.38
1	3139	Hazel w CC	51.91	255.55	257.46		257.54	0.000901	1.61	45.99	44.35	0.39
1	3116	100 Year	55.85	255.29	257.45		257.57	0.001205	2.01	40.23	41	0.45
1	3116	Hazel	43.65	255.29	257.29		257.39	0.001124	1.84	33.79	36.86	0.43
1	3116	Hazel w CC	51.91	255.29	257.4		257.51	0.001183	1.96	38.18	40.14	0.45
1	3101	100 Year	55.85	255.26	257.36		257.54	0.001841	2.32	40.49	49.16	0.56
1	3101	Hazel	43.65	255.26	257.2		257.36	0.001788	2.15	32.76	45.81	0.54
1	3101	Hazel w CC	51.91	255.26	257.31		257.49	0.001826	2.27	38.05	48.11	0.55
1	3062	100 Year	55.85	255.15	257.03	257.03	257.41	0.005385	3.16	24.93	42.31	0.77
1	3062	Hazel	43.65	255.15	256.88	256.88	257.23	0.00516	2.91	18.92	38.04	0.75
1	3062	Hazel w CC	51.91	255.15	256.99	256.99	257.35	0.005271	3.08	23.22	42.01	0.76
1	3036	100 Year	55.85	254.88	256.77	256.77	257.25	0.004814	3.24	24.15	46.64	0.79
1	3036	Hazel	43.65	254.88	256.47	256.47	257	0.006561	3.32	15.11	19.73	0.9
1	3036	Hazel w CC	51.91	254.88	256.66	256.66	257.18	0.00554	3.33	19.72	31.51	0.84
1	3006	100 Year	55.85	254.23	256.22	256.22	256.61	0.006753	3.03	24.95	36.25	0.77
1	3006	Hazel	43.65	254.23	256.03	256.03	256.42	0.007633	2.94	18.48	25.87	0.8
1	3006	Hazel w CC	51.91	254.23	256.16	256.16	256.56	0.007075	3.02	22.74	34.63	0.78
1	2979	100 Year	55.85	253.9	255.63	255.63	256.11	0.00907	3.2	19.3	22.36	0.88
1	2979	Hazel	43.65	253.9	255.46	255.45	255.89	0.009696	3.01	15.68	18.9	0.89
1	2979	Hazel w CC	51.91	253.9	255.57	255.57	256.04	0.009527	3.17	17.91	20.61	0.9
1	2956	100 Year	55.85	253.75	255.45	255.45	255.76	0.00972	3.23	27.11	49.41	0.83
1	2956	Hazel	43.65	253.75	255.31	255.31	255.61	0.009782	3.04	21.05	35.08	0.82
1	2956	Hazel w CC	51.91	253.75	255.42	255.42	255.72	0.009566	3.15	25.31	47.17	0.82
1	2933	100 Year	55.85	253.62	255.07	255.07	255.39	0.010717	3.21	26.92	41.27	0.9
1	2933	Hazel	43.65	253.62	254.95	254.95	255.24	0.010799	3.01	22.03	39.18	0.89
1	2933	Hazel w CC	51.91	253.62	255.03	255.03	255.34	0.010623	3.13	25.5	40.81	0.89
1	2913	100 Year	55.85	253.61	254.75		255.03	0.006449	1.67	26.82	30.92	0.53
1	2913	Hazel	43.65	253.61	254.6		254.84	0.007065	1.56	22.08	29.59	0.54
1	2913	Hazel w CC	51.91	253.61	254.7		254.97	0.006625	1.63	25.31	30.5	0.53
1	2887	100 Year	55.85	253.12	254.53	254.43	254.86	0.005983	1.69	23.85	26.6	0.5
1	2887	Hazel	43.65	253.12	254.39		254.67	0.006071	1.57	20.11	25.63	0.49
1	2887	Hazel w CC	51.91	253.12	254.49	254.38	254.8	0.00602	1.66	22.66	26.34	0.49

1	2506	100 Year	55.85	248.63	249.7	249.69	249.94	0.006149	2.85	27.98	56.83	0.94
1	2506	Hazel	43.65	248.63	249.59	249.59	249.82	0.006765	2.76	22.14	52.5	0.96
1	2506	Hazel w CC	51.91	248.63	249.66	249.66	249.9	0.006431	2.84	25.97	56.44	0.95
1	2488	100 Year	55.85	247.87	249.75		249.84	0.001508	1.87	47.36	58.87	0.48
1	2488	Hazel	43.65	247.87	249.62		249.7	0.001476	1.74	39.92	58.03	0.47
1	2488	Hazel w CC	51.91	247.87	249.71		249.79	0.001503	1.83	44.98	58.61	0.48
1	2464	100 Year	55.85	248.1	249.73		249.8	0.001013	1.54	52.05	61.29	0.41
1	2464	Hazel	43.65	248.1	249.61		249.66	0.00092	1.38	44.69	56.9	0.38
1	2464	Hazel w CC	51.91	248.1	249.69		249.76	0.000989	1.49	49.65	59.35	0.4
1	2443	100 Year	55.85	247.71	249.44	249.44	249.74	0.005009	3.28	29.35	47.3	0.89
1	2443	Hazel	43.65	247.71	249.34	249.34	249.6	0.004884	3.07	24.26	45.46	0.86
1	2443	Hazel w CC	51.91	247.71	249.42	249.42	249.69	0.004853	3.19	28.04	46.9	0.87
1	2414	100 Year	55.85	247.06	248.94	248.94	249.25	0.004203	3.2	26.56	45.56	0.81
1	2414	Hazel	43.65	247.06	248.81	248.81	249.11	0.004268	3.05	21.47	33.46	0.81
1	2414	Hazel w CC	51.91	247.06	248.91	248.91	249.21	0.004037	3.1	25.32	43.22	0.79
1	2387	100 Year	55.85	247.04	248.64	248.64	248.98	0.004969	3.32	24.99	34.81	0.89
1	2387	Hazel	43.65	247.04	248.5	248.5	248.82	0.005253	3.18	20.34	31	0.9
1	2387	Hazel w CC	51.91	247.04	248.59	248.59	248.93	0.005256	3.33	23.21	32.5	0.91
1	2364	100 Year	55.85	246.93	248.49	248.49	248.82	0.004927	3.23	26.24	40.31	0.89
1	2364	Hazel	43.65	246.93	248.36	248.36	248.66	0.005018	3.04	21.36	34.11	0.88
1	2364	Hazel w CC	51.91	246.93	248.45	248.45	248.77	0.004875	3.15	24.81	39.61	0.88
1	2344	100 Year	55.85	246.52	248.29	248.29	248.63	0.004397	3.29	26.37	42.39	0.84
1	2344	Hazel	43.65	246.52	248.08	248.08	248.47	0.005544	3.36	18.5	28.87	0.92
1	2344	Hazel w CC	51.91	246.52	248.26	248.26	248.58	0.004319	3.21	24.86	40.75	0.83
1	2324	100 Year	55.85	246.15	247.87	247.87	248.32	0.004772	3.35	22.21	28.41	0.88
1	2324	Hazel	43.65	246.15	247.72	247.72	248.12	0.004791	3.11	17.99	25.17	0.86
1	2324	Hazel w CC	51.91	246.15	247.84	247.84	248.26	0.004642	3.24	21.13	27.61	0.86
1	2299	100 Year	55.85	246.39	247.66	247.66	247.97	0.00598	3.17	24.93	44.14	0.95
1	2299	Hazel	43.65	246.39	247.53	247.53	247.82	0.006518	3.03	19.34	34.55	0.97
1	2299	Hazel w CC	51.91	246.39	247.64	247.64	247.92	0.005848	3.08	23.66	43.06	0.93
1	2280	100 Year	55.85	245.94	247.49	247.49	247.77	0.005027	3.03	26.61	56.46	0.87
1	2280	Hazel	43.65	245.94	247.37	247.37	247.63	0.005041	2.84	21	42.03	0.86
1	2280	Hazel w CC	51.91	245.94	247.45	247.45	247.73	0.004968	2.96	24.84	50.22	0.86
1	2256	100 Year	55.85	245.44	247.19	247.19	247.46	0.00418	3.09	32.96	66.2	0.81
1	2256	Hazel	43.65	245.44	247.07	247.07	247.33	0.004167	2.92	25.36	59.41	0.8
1	2256	Hazel w CC	51.91	245.44	247.15	247.15	247.42	0.004209	3.05	30.53	64.95	0.81
1	2243	100 Year	55.85	245.58	247.04	247.04	247.32	0.006688	3.35	27.97	48.68	1
1	2243	Hazel	43.65	245.58	246.94	246.94	247.2	0.006386	3.09	23.54	47.5	0.96
1	2243	Hazel w CC	51.91	245.58	247.06	247.01	247.29	0.005212	2.99	29.07	48.85	0.88
1	2218	100 Year	55.85	245.17	246.99		247.14	0.001857	2.12	35.48	39.32	0.55
1	2218	Hazel	43.65	245.17	246.97		247.06	0.001223	1.7	34.55	39.09	0.45
1	2218	Hazel w CC	51.91	245.17	247.09		247.19	0.001198	1.77	39.37	40.54	0.45
1	2191	100 Year	55.85	244.55	246.98		247.09	0.001136	1.87	42.1	39.72	0.43
1	2191	Hazel	43.65	244.55	246.96		247.03	0.000732	1.49	41.3	39.52	0.34
1	2191	Hazel w CC	51.91	244.55	247.08		247.16	0.000766	1.59	46.07	40.73	0.36
1	2167	100 Year	55.85	244.3	247.02		247.06	0.0003	1.15	66.77	45.79	0.24
1	2167	Hazel	43.65	244.3	246.98		247.01	0.000194	0.92	65.31	44.05	0.19
1	2167	Hazel w CC	51.91	244.3	247.1		247.14	0.000223	1.01	70.87	47.22	0.21
1	2141	100 Year	55.85	244.05	247.03		247.05	0.000137	0.84	92.56	54.55	0.16
1	2141	Hazel	43.65	244.05	246.99		247	0.000089	0.67	90.61	54.27	0.13
1	2141	Hazel w CC	51.91	244.05	247.11		247.13	0.000103	0.74	97.26	55.23	0.14
1	2122	100 Year	55.85	243.68	247.03		247.04	0.000072	0.64	112.84	55.53	0.12

1	2122	Hazel	43.65	243.68	246.99		247	0.000047	0.51	110.8	55.2	0.09
1	2122	Hazel w CC	51.91	243.68	247.11		247.12	0.000056	0.57	117.58	56.11	0.1
1	2094	100 Year	55.85	243.94	247.03		247.04	0.000066	0.61	119.74	58.47	0.11
1	2094	Hazel	43.65	243.94	246.99		247	0.000042	0.49	117.65	58.17	0.09
1	2094	Hazel w CC	51.91	243.94	247.11		247.12	0.00005	0.55	124.77	59.21	0.1
1	2072	100 Year	55.85	243.45	247.03		247.04	0.000047	0.56	130.83	61.43	0.1
1	2072	Hazel	43.65	243.45	246.99		247	0.00003	0.45	128.6	60.94	0.08
1	2072	Hazel w CC	51.91	243.45	247.11		247.12	0.000037	0.51	136.09	62.04	0.09
1	2045	100 Year	55.85	243.33	246.97		247.03	0.000287	1.35	64.3	53.06	0.24
1	2045	Hazel	43.65	243.33	246.95		246.99	0.000179	1.06	63.57	52.61	0.19
1	2045	Hazel w CC	51.91	243.33	247.07		247.12	0.000214	1.19	69.84	57.71	0.21
1	2026	100 Year	50.34	243.36	246.97		247.02	0.000212	1.07	67.35	39.22	0.19
1	2026	Hazel	47.91	243.36	246.94		246.99	0.0002	1.04	66.21	39.14	0.19
1	2026	Hazel w CC	57.4	243.36	247.05		247.11	0.000247	1.18	70.69	42.65	0.21
1	2006	100 Year	50.34	242.86	246.88	244.95	246.99	0.000567	1.64	44.71	39.84	0.32
1	2006	Hazel	47.91	242.86	246.85	244.89	246.96	0.000537	1.58	43.76	39.68	0.31
1	2006	Hazel w CC	57.4	242.86	246.94	245.13	247.08	0.000655	1.79	47.31	40.29	0.34
1	McConkey Pl		Culvert									
1	1971	100 Year	50.34	242.25	246.21	244.78	246.59	0.002836	2.73	19.89	28.31	0.6
1	1971	Hazel	47.91	242.25	246.2	244.71	246.55	0.002638	2.63	19.48	28.2	0.57
1	1971	Hazel w CC	57.4	242.25	246.2	244.98	246.7	0.003763	3.14	19.57	28.23	0.69
1	1954	100 Year	50.34	242	246.36		246.41	0.000341	1.13	58.47	31.47	0.19
1	1954	Hazel	47.91	242	246.34		246.38	0.000319	1.09	57.68	29.86	0.18
1	1954	Hazel w CC	57.4	242	246.4		246.47	0.000423	1.27	59.9	37.57	0.21
1	1933	100 Year	50.34	241.84	246.37		246.4	0.000197	0.9	88.24	88.03	0.15
1	1933	Hazel	47.91	241.84	246.35		246.37	0.000186	0.87	86.18	86.23	0.14
1	1933	Hazel w CC	57.4	241.84	246.42		246.45	0.000239	1	91.69	90.08	0.16
1	1914	100 Year	50.34	241.94	246.38		246.39	0.000085	0.62	137.75	155.13	0.1
1	1914	Hazel	47.91	241.94	246.35		246.37	0.000081	0.6	134.98	151.46	0.1
1	1914	Hazel w CC	57.4	241.94	246.43		246.44	0.000102	0.68	142.46	158.12	0.11
1	1891	100 Year	50.34	241.36	246.39		246.39	0.000022	0.36	226.49	204.16	0.06
1	1891	Hazel	47.91	241.36	246.36		246.36	0.00002	0.35	223.43	200.38	0.05
1	1891	Hazel w CC	57.4	241.36	246.43		246.44	0.000026	0.4	231.73	210.42	0.06
1	1866	100 Year	50.34	241.04	246.39		246.39	0.000008	0.21	353.73	178.95	0.03
1	1866	Hazel	47.91	241.04	246.36		246.36	0.000008	0.2	348.7	178.91	0.03
1	1866	Hazel w CC	57.4	241.04	246.44		246.44	0.00001	0.23	362.35	179.09	0.03
1	1848	100 Year	50.34	240.46	246.39		246.39	0.000004	0.18	558.33	276.82	0.02
1	1848	Hazel	47.91	240.46	246.36		246.36	0.000004	0.17	550.57	274.57	0.02
1	1848	Hazel w CC	57.4	240.46	246.44		246.44	0.000005	0.2	571.76	279.82	0.03
1	1831	100 Year	50.34	240.25	246.37	246.14	246.38	0.0012	0.85	105.57	235.25	0.25
1	1831	Hazel	47.91	240.25	246.34	244.16	246.36	0.001324	0.88	98.54	234.05	0.26
1	1831	Hazel w CC	57.4	240.25	246.42	246.15	246.43	0.001159	0.86	116.96	236.49	0.25
1	9	Rail Line	Culvert									
1	1804	100 Year	50.34	239.48	243.5	243.5	245.5	0.004779	6.27	8.03	127.36	1
1	1804	Hazel	47.91	239.48	243.36	243.36	245.3	0.004852	6.17	7.76	122.69	1
1	1804	Hazel w CC	57.4	239.48	243.87	243.87	246.05	0.004634	6.55	8.77	154.59	1
1	1789	100 Year	59.73	239.35	241.39	241.3	241.82	0.006266	2.91	20.52	18.97	0.89
1	1789	Hazel	56.69	239.35	241.39	241.26	241.78	0.005662	2.77	20.5	18.97	0.85
1	1789	Hazel w CC	67.96	239.35	241.4	241.4	241.95	0.007915	3.29	20.69	19.03	1
1	1770	100 Year	59.73	239.17	241.39	241.39	241.57	0.006841	2.13	33.77	93.83	0.56
1	1770	Hazel	56.69	239.17	241.38	241.38	241.55	0.006902	2.12	32.33	92.16	0.56

1	1770	Hazel w CC	67.96	239.17	241.43	241.43	241.61	0.006891	2.17	37.08	99.32	0.56
1												
1		Huron Rd	Culvert									
1	1742	100 Year	59.73	238.76	240.89	240.89	241.02	0.002329	2.46	65.72	172.89	0.65
1	1742	Hazel	56.69	238.76	240.89	240.89	241	0.002197	2.38	64.58	172.59	0.63
1	1742	Hazel w CC	67.96	238.76	240.9	240.9	241.05	0.002875	2.74	66.91	173.24	0.72
1	1716	100 Year	59.73	238.55	239.74	239.74	240.03	0.007269	3.07	27.27	47.74	1.01
1	1716	Hazel	56.69	238.55	239.71	239.71	240	0.007597	3.06	25.85	44.43	1.03
1	1716	Hazel w CC	67.96	238.55	239.84	239.84	240.1	0.005983	2.97	32.87	64.73	0.93
1	1694	100 Year	59.73	238.22	239.5	239.4	239.61	0.002256	1.86	44.93	98.31	0.57
1	1694	Hazel	56.69	238.22	239.49	239.39	239.59	0.002272	1.84	43.28	97.92	0.57
1	1694	Hazel w CC	67.96	238.22	239.54	239.43	239.67	0.00224	1.9	49.07	99.3	0.58
1	1664	100 Year	59.73	237.66	239.3	239.3	239.5	0.006029	2.99	39.45	93.92	0.92
1	1664	Hazel	56.69	237.66	239.28	239.28	239.48	0.006059	2.96	37.85	89.67	0.92
1	1664	Hazel w CC	67.96	237.66	239.34	239.34	239.56	0.005838	3.03	44.24	103.69	0.91
1	1651	100 Year	59.73	237.37	238.83	238.59	238.97	0.002087	2.79	42.52	296.36	0.83
1	1651	Hazel	56.69	237.37	238.8	238.57	238.94	0.002065	2.74	40.98	295.59	0.82
1	1651	Hazel w CC	67.96	237.37	238.84	238.66	239.02	0.002487	3.08	43.9	297.04	0.91
1	1615	100 Year	59.73	236.95	238.9		238.91	0.000286	0.59	128.17	152.3	0.17
1	1615	Hazel	56.69	236.95	238.87		238.88	0.000276	0.57	125.21	152.19	0.17
1	1615	Hazel w CC	67.96	236.95	238.93		238.94	0.000334	0.65	132.44	152.47	0.18
1	1563	100 Year	59.73	236.79	238.89		238.9	0.000102	0.57	158.73	155.4	0.13
1	1563	Hazel	56.69	236.79	238.87		238.87	0.000096	0.55	156.34	155.21	0.13
1	1563	Hazel w CC	67.96	236.79	238.92		238.93	0.000124	0.63	162.09	155.67	0.15
1	1544	100 Year	79.27	236.79	238.86	237.59	238.89	0.000317	1.05	107.1	170.85	0.24
1	1544	Hazel	73.53	236.79	238.84	237.55	238.87	0.000283	0.98	105.85	170.7	0.23
1	1544	Hazel w CC	88.45	236.79	238.89	237.63	238.93	0.000375	1.15	108.84	171.11	0.26
1	1506	100 Year	79.27	236.59	238.69	238.69	238.83	0.002519	2.11	72.35	225.23	0.62
1	1506	Hazel	73.53	236.59	238.67	238.67	238.81	0.002427	2.05	68.64	221.18	0.6
1	1506	Hazel w CC	88.45	236.59	238.72	238.72	238.86	0.002573	2.17	79.22	230.63	0.63
1	4	Little Ave	Culvert									
1	1483	100 Year	79.27	236.45	238.38	238.38	238.52	0.00304	2.27	69.24	223.49	0.68
1	1483	Hazel	73.53	236.45	238.36	238.36	238.5	0.002945	2.22	65.97	220.96	0.67
1	1483	Hazel w CC	88.45	236.45	238.4	238.4	238.55	0.003185	2.36	74.3	228.81	0.7
1	1463	100 Year	79.27	236.48	238	238	238.23	0.003041	2.22	45.8	112.12	0.68
1	1463	Hazel	73.53	236.48	237.89	237.89	238.19	0.0042	2.44	35.76	74.28	0.78
1	1463	Hazel w CC	88.45	236.48	238.06	238.06	238.28	0.002734	2.19	53.81	120.98	0.65
1	1449	100 Year	79.27	236.36	237.82	237.73	238.05	0.004517	2.54	43.29	79.82	0.81
1	1449	Hazel	73.53	236.36	237.79	237.69	238.01	0.004428	2.47	41.02	71.62	0.8
1	1449	Hazel w CC	88.45	236.36	237.92	237.79	238.12	0.003715	2.45	53.22	127.45	0.75
1	1434	100 Year	79.27	236.4	237.84		237.97	0.002725	2.05	64.42	135.22	0.64
1	1434	Hazel	73.53	236.4	237.8		237.93	0.002853	2.04	59	131.09	0.65
1	1434	Hazel w CC	88.45	236.4	237.94		238.05	0.00222	1.96	79.3	166.68	0.58
1	1419	100 Year	79.27	236.14	237.84		237.93	0.001567	1.78	78.98	119.22	0.49
1	1419	Hazel	73.53	236.14	237.8		237.89	0.001533	1.73	74.69	117.94	0.48
1	1419	Hazel w CC	88.45	236.14	237.93		238.02	0.001401	1.76	90.07	122.81	0.47
1	1412	100 Year	79.27	236.13	237.72		237.9	0.002553	2.18	43.1	44.42	0.62
1	1412	Hazel	73.53	236.13	237.7		237.87	0.002323	2.06	42.31	44.29	0.59
1	1412	Hazel w CC	88.45	236.13	237.79		237.99	0.002539	2.25	46.41	44.97	0.62
1	1398	100 Year	79.27	235.97	237.71		237.86	0.002014	1.99	46.55	45.13	0.55
1	1398	Hazel	73.53	235.97	237.69		237.83	0.001822	1.87	45.8	45.03	0.52
1	1398	Hazel w CC	88.45	235.97	237.78		237.95	0.002024	2.06	49.94	45.72	0.56

1	1024	100 Year	79.27	233.92	237.63		237.66	0.000113	0.9	116.79	99.87	0.16
1	1024	Hazel	73.53	233.92	237.63		237.65	0.000098	0.84	116.41	99.73	0.15
1	1024	Hazel w CC	88.45	233.92	237.7		237.74	0.000121	0.94	124.34	111.02	0.16
1	1000	100 Year	79.27	233.16	237.59	235.62	237.65	0.000438	0.92	75.03	47.39	0.17
1	1000	Hazel	73.53	233.16	237.59	235.53	237.65	0.000374	0.85	75.16	47.4	0.16
1	1000	Hazel w CC	88.45	233.16	237.65	235.75	237.73	0.000473	0.97	78.01	50.27	0.18
1	982	100 Year	79.27	233.12	237.54	235.43	237.64	0.000584	1.47	65.18	47.69	0.25
1	982	Hazel	73.53	233.12	237.55	235.36	237.64	0.000496	1.36	65.57	48.21	0.23
1	982	Hazel w CC	88.45	233.12	237.6	235.56	237.71	0.000675	1.6	67.43	51.14	0.27
1	966	100 Year	76.06	232.95	237.53	235.6	237.63	0.000957	1.46	59.83	72.13	0.25
1	966	Hazel	75.64	232.95	237.52	235.6	237.62	0.000953	1.46	59.66	71.83	0.25
1	966	Hazel w CC	91.39	232.95	237.56	235.81	237.7	0.001314	1.72	60.99	76.04	0.3
1	946	100 Year	76.06	232.74	237.49	237.39	237.6	0.001104	1.78	69.62	161.76	0.42
1	946	Hazel	75.64	232.74	237.47	237.38	237.6	0.001217	1.86	66.05	161.42	0.44
1	946	Hazel w CC	91.39	232.74	237.54	237.44	237.67	0.001271	1.94	77.29	162.85	0.45
1	Young St		Culvert									
1	903	100 Year	76.06	231.89	236.8	236.8	236.95	0.00125	2.12	53.9	137.96	0.45
1	903	Hazel	75.64	231.89	236.8	236.8	236.94	0.001262	2.13	53.47	137.89	0.45
1	903	Hazel w CC	91.39	231.89	236.84	236.84	237	0.001439	2.3	58.74	138.72	0.49
1	875	100 Year	76.06	231.21	233.38	233.38	233.9	0.003533	2.7	25	26.98	0.65
1	875	Hazel	75.64	231.21	233.38	233.38	233.89	0.003565	2.7	24.84	26.95	0.65
1	875	Hazel w CC	91.39	231.21	233.52	233.52	234.1	0.003206	2.7	28.84	27.67	0.62
1	851	100 Year	76.06	230.62	233.03		233.28	0.002204	2.27	34.64	31.83	0.52
1	851	Hazel	75.64	230.62	233.03		233.27	0.002188	2.26	34.6	31.82	0.52
1	851	Hazel w CC	91.39	230.62	233.24		233.5	0.001721	2.14	41.63	33.19	0.47
1	832	100 Year	76.06	230.23	232.99		233.25	0.001091	1.46	37.83	28.08	0.32
1	832	Hazel	75.64	230.23	232.99		233.24	0.00108	1.45	37.81	28.08	0.32
1	832	Hazel w CC	91.39	230.23	233.17		233.47	0.00102	1.49	42.96	28.4	0.31
1	815	100 Year	76.06	229.6	232.74		233.2	0.003414	3.22	27.93	21.41	0.65
1	815	Hazel	75.64	229.6	232.76		233.2	0.003295	3.17	28.19	21.64	0.64
1	815	Hazel w CC	91.39	229.6	232.79	232.79	233.4	0.004551	3.76	28.84	22.65	0.75
1	803	100 Year	76.06	229.49	232.9		233.09	0.001112	2.09	43.97	24.7	0.41
1	803	Hazel	75.64	229.49	232.91		233.1	0.00109	2.07	44.12	24.75	0.4
1	803	Hazel w CC	91.39	229.49	232.94		233.21	0.001513	2.46	44.97	25	0.48
1	789	100 Year	76.06	229.44	233.01		233.04	0.000101	0.8	107.2	43.34	0.15
1	789	Hazel	75.64	229.44	233.02		233.05	0.000099	0.8	107.37	43.36	0.15
1	789	Hazel w CC	91.39	229.44	233.09		233.13	0.000133	0.94	110.79	43.78	0.17
1	773	100 Year	76.06	229.07	233	230.84	233.04	0.000116	0.87	98	50.57	0.16
1	773	Hazel	75.64	229.07	233.01	230.84	233.04	0.000114	0.86	98.21	50.74	0.16
1	773	Hazel w CC	91.39	229.07	233.08	230.97	233.13	0.000153	1.01	102.16	54.93	0.18
1	761	100 Year	76.06	228.95	232.99	230.64	233.04	0.000158	1	99.13	54.66	0.17
1	761	Hazel	75.64	228.95	233	230.64	233.04	0.000156	0.99	99.36	54.69	0.17
1	761	Hazel w CC	91.39	228.95	233.07	230.78	233.13	0.00021	1.17	103.32	55.41	0.2
1	752	100 Year	76.06	228.71	232.99	230.57	233.04	0.000189	1.08	97.7	47.02	0.18
1	752	Hazel	75.64	228.71	232.99	230.56	233.04	0.000186	1.07	97.9	47.06	0.18
1	752	Hazel w CC	91.39	228.71	233.07	230.73	233.13	0.000252	1.26	101.25	47.79	0.21
1	741	100 Year	76.06	228.39	232.91	230.78	233.03	0.000321	1.64	71.05	35.72	0.26
1	741	Hazel	75.64	228.39	232.92	230.77	233.03	0.000316	1.63	71.26	35.74	0.26
1	741	Hazel w CC	91.39	228.39	232.95	231.01	233.11	0.000444	1.94	72.53	35.9	0.31
1	725	100 Year	76.06	228.35	232.86	230.98	233.01	0.000755	1.83	56.18	61.36	0.31
1	725	Hazel	75.64	228.35	232.87	230.97	233.02	0.00074	1.81	56.43	61.93	0.3
1	725	Hazel w CC	91.39	228.35	232.88	231.22	233.1	0.00107	2.18	56.72	62.26	0.36

1	712	100 Year	76.06	228.11	232.88	230.54	232.99	0.000448	1.5	61.21	101.93	0.24
1	712	Hazel	75.64	228.11	232.89	230.53	233	0.00044	1.49	61.38	102.32	0.24
1	712	Hazel w CC	91.39	228.11	232.91	230.75	233.07	0.00063	1.79	61.88	103.39	0.29
1	697	100 Year	76.06	227.97	232.94	229.68	232.96	0.000116	0.64	119.45	166.36	0.11
1	697	Hazel	75.64	227.97	232.95	229.68	232.97	0.000114	0.64	119.67	166.56	0.11
1	697	Hazel w CC	91.39	227.97	232.99	229.82	233.02	0.00016	0.76	121.35	167.83	0.13
1	677	100 Year	77.3	227.73	232.95	228.98	232.96	0.000032	0.36	218.76	184.76	0.06
1	677	Hazel	77.76	227.73	232.96	228.99	232.96	0.000032	0.36	219.1	185.42	0.06
1	677	Hazel w CC	94.03	227.73	233.01	229.09	233.02	0.000046	0.43	222.03	194.44	0.07
1	655	100 Year	77.3	226.92	232.91	232.72	232.95	0.000574	0.72	97.12	242.03	0.26
1	655	Hazel	77.76	226.92	232.91	232.72	232.95	0.00055	0.71	98.75	242.11	0.26
1	655	Hazel w CC	94.03	226.92	232.95	232.76	233	0.000588	0.76	108.77	243.88	0.27
1		Rail Line	Culvert									
1	592	100 Year	77.3	225.03	232.76	232.76	232.9	0.005395	1.96	53.75	156.32	0.78
1	592	Hazel	77.76	225.03	232.76	232.76	232.9	0.005557	1.98	53.42	156.31	0.8
1	592	Hazel w CC	94.03	225.03	232.8	232.8	232.96	0.005885	2.13	59.7	156.39	0.83
1	574	100 Year	77.3	224.78	230.23	226.66	230.24	0.000029	0.56	165.52	99.51	0.08
1	574	Hazel	77.76	224.78	230.25	226.67	230.26	0.000028	0.56	166.4	99.78	0.08
1	574	Hazel w CC	94.03	224.78	230.4	226.79	230.41	0.000037	0.65	173.17	101.76	0.09
1	565	100 Year	77.3	224.51	230.23		230.24	0.000015	0.43	214.15	106.97	0.06
1	565	Hazel	77.76	224.51	230.25		230.26	0.000015	0.43	215.18	107.19	0.06
1	565	Hazel w CC	94.03	224.51	230.4		230.41	0.00002	0.51	223.2	108.85	0.07
1	542	100 Year	77.3	224.25	230.24		230.24	0.00001	0.36	271.44	124.11	0.05
1	542	Hazel	77.76	224.25	230.25		230.26	0.00001	0.36	273.84	124.23	0.05
1	542	Hazel w CC	94.03	224.25	230.4		230.41	0.000012	0.41	292.46	124.93	0.05
1	522	100 Year	77.3	223.77	230.23		230.24	0.00001	0.38	239.61	102.26	0.05
1	522	Hazel	77.76	223.77	230.25		230.26	0.00001	0.38	240.64	102.43	0.05
1	522	Hazel w CC	94.03	223.77	230.4		230.41	0.000013	0.45	248.66	103.83	0.06
1	513	100 Year	77.3	223.76	230.23	225.38	230.24	0.000008	0.36	259.98	104.11	0.05
1	513	Hazel	77.76	223.76	230.25	225.38	230.26	0.000008	0.36	261.09	104.41	0.05
1	513	Hazel w CC	94.03	223.76	230.4	225.49	230.41	0.000012	0.43	269.91	109.17	0.06
1	494	100 Year	77.3	223.28	230.23	225.03	230.24	0.000007	0.34	270.82	99.14	0.04
1	494	Hazel	77.76	223.28	230.25	225.04	230.26	0.000007	0.34	271.94	99.73	0.04
1	494	Hazel w CC	94.03	223.28	230.4	225.16	230.41	0.00001	0.41	280.79	102.98	0.05
1	487	100 Year	78.35	223.33	230.23	225.16	230.24	0.000012	0.44	224.24	91.38	0.06
1	487	Hazel	79.58	223.33	230.25	225.17	230.26	0.000012	0.45	225.31	91.75	0.06
1	487	Hazel w CC	96.33	223.33	230.4	225.31	230.41	0.000017	0.53	233.81	95.07	0.07
1	481	100 Year	78.35	222.95	230.08	226.47	230.2	0.000463	1.79	64.53	56.43	0.31
1	481	Hazel	79.58	222.95	230.1	226.5	230.22	0.00046	1.79	65.67	57.09	0.31
1	481	Hazel w CC	96.33	222.95	230.22	226.97	230.37	0.000538	1.98	73.24	71.82	0.33
1		Hurst Dr	Culvert									
1	435	100 Year	78.35	221.97	225.41	225.41	227.11	0.004537	5.77	13.59	33.62	1
1	435	Hazel	79.58	221.97	225.45	225.45	227.16	0.004521	5.8	13.73	33.73	1
1	435	Hazel w CC	96.33	221.97	225.92	225.92	227.86	0.004324	6.17	15.61	35.28	1
1	423	100 Year	78.35	221.9	223.82	223.82	224.27	0.006047	3.51	27.41	29.94	0.94
1	423	Hazel	79.58	221.9	223.83	223.83	224.29	0.006056	3.53	27.68	30	0.95
1	423	Hazel w CC	96.33	221.9	223.96	223.96	224.47	0.005897	3.69	31.68	30.66	0.95
1	402	100 Year	78.35	221.74	223.26	223.26	223.65	0.00641	3.31	29.52	37.44	0.96
1	402	Hazel	79.58	221.74	223.26	223.26	223.66	0.006395	3.32	29.84	37.47	0.96
1	402	Hazel w CC	96.33	221.74	223.38	223.38	223.81	0.006152	3.46	34.16	37.96	0.96

1	377	100 Year	78.35	221.27	223.1		223.32	0.003155	2.59	38.93	42.89	0.7
1	377	Hazel	79.58	221.27	223.11		223.34	0.003047	2.57	39.77	42.99	0.68
1	377	Hazel w CC	96.33	221.27	223.35		223.55	0.00217	2.4	50.2	44.18	0.59
1	349	100 Year	78.35	220.86	223.09		223.24	0.00135	2.14	47.14	37.9	0.49
1	349	Hazel	79.58	220.86	223.11		223.26	0.001332	2.14	47.84	38.02	0.48
1	349	Hazel w CC	96.33	220.86	223.34		223.5	0.001159	2.15	56.79	39.07	0.46
1	325	100 Year	78.35	220.55	223.07		223.21	0.001049	2	47.71	31.85	0.43
1	325	Hazel	79.58	220.55	223.09		223.23	0.001043	2.01	48.29	31.9	0.43
1	325	Hazel w CC	96.33	220.55	223.31		223.47	0.000994	2.09	55.59	32.52	0.42
1	308	100 Year	78.35	220.49	222.53	222.53	223.13	0.005489	4.01	23.86	19.73	0.94
1	308	Hazel	79.58	220.49	222.54	222.54	223.15	0.005506	4.03	24.09	19.76	0.95
1	308	Hazel w CC	96.33	220.49	222.74	222.72	223.39	0.00506	4.14	28.21	20.47	0.92
1	293	100 Year	78.35	220.34	222.41	222.41	223.03	0.004923	3.89	23.94	19.12	0.92
1	293	Hazel	79.58	220.34	222.42	222.42	223.05	0.004928	3.91	24.19	19.16	0.92
1	293	Hazel w CC	96.33	220.34	222.6	222.6	223.3	0.004929	4.15	27.6	19.69	0.93
1	269	100 Year	78.35	219.97	222.34		222.54	0.001741	2.38	42.92	31.51	0.55
1	269	Hazel	79.58	219.97	222.35		222.55	0.001758	2.4	43.22	31.54	0.55
1	269	Hazel w CC	96.33	219.97	222.49		222.73	0.00193	2.63	47.5	31.98	0.59
1	253	100 Year	78.35	219.89	222.35		222.5	0.001232	2.12	49.16	34.05	0.46
1	253	Hazel	79.58	219.89	222.36		222.51	0.001245	2.14	49.5	34.11	0.46
1	253	Hazel w CC	96.33	219.89	222.5		222.68	0.001381	2.34	54.28	34.99	0.49
1	230	100 Year	78.35	219.65	222.34	221.87	222.46	0.001147	1.68	51.21	47.02	0.42
1	230	Hazel	79.58	219.65	222.35	221.88	222.47	0.00115	1.69	51.68	47.18	0.42
1	230	Hazel w CC	96.33	219.65	222.49	221.98	222.63	0.001131	1.76	58.65	49.51	0.42
1	The Blvd		Culvert									
1	213	100 Year	78.35	219.57	221.63	221.63	221.98	0.003766	2.25	33.6	51.89	0.72
1	213	Hazel	79.58	219.57	221.64	221.64	221.99	0.003739	2.25	34.06	51.96	0.72
1	213	Hazel w CC	96.33	219.57	221.74	221.74	222.13	0.003606	2.36	39.39	52.89	0.72
1	200	100 Year	78.35	219.16	220.84		220.97	0.005368	2.25	55.5	225.31	0.69
1	200	Hazel	79.58	219.16	220.85		220.98	0.005176	2.22	56.87	225.93	0.67
1	200	Hazel w CC	96.33	219.16	220.91		221.06	0.005339	2.35	64.39	229.96	0.69
1	183	100 Year	78.32	219.21	220.65	220.65	220.85	0.008923	2.71	45.37	181	0.85
1	183	Hazel	80.29	219.21	220.65	220.65	220.86	0.009602	2.8	44.98	180.71	0.89
1	183	Hazel w CC	97.25	219.21	220.71	220.71	220.93	0.00947	2.89	51.59	182.52	0.89
1	169	100 Year	78.32	218.93	219.91	219.82	219.98	0.003326	1.41	69.37	212.33	0.59
1	169	Hazel	80.29	218.93	219.91	219.82	219.98	0.003573	1.46	68.89	212.12	0.61
1	169	Hazel w CC	97.25	218.93	219.98	219.85	220.05	0.002752	1.35	84.61	218.56	0.55
1	Brennan Ave		Culvert									
1	152	100 Year	78.32	218.7	219.87	219.83	219.96	0.003067	1.6	59.89	218.47	0.59
1	152	Hazel	80.29	218.7	219.87	219.83	219.97	0.003026	1.6	61.19	219.17	0.59
1	152	Hazel w CC	97.25	218.7	219.92	219.87	220.02	0.002792	1.56	71.69	225.58	0.57
1	120	100 Year	78.32	218.89	219.66	219.63	219.79	0.010102	2.3	52.24	171.78	1.05
1	120	Hazel	80.29	218.89	219.66	219.64	219.79	0.010098	2.31	53.39	174.41	1.05
1	120	Hazel w CC	97.25	218.89	219.72	219.68	219.86	0.009818	2.42	64.07	194.77	1.05
1	107	100 Year	78.32	218.87	219.74		219.75	0.000052	0.2	206.6	374.49	0.08
1	107	Hazel	80.29	218.87	219.74		219.75	0.000052	0.2	209.31	376.06	0.08
1	107	Hazel w CC	97.25	218.87	219.8		219.81	0.000056	0.22	232.29	393.62	0.08
1	80	100 Year	78.32	218.7	219.7		219.74	0.002088	0.6	96.19	250.68	0.23
1	80	Hazel	80.29	218.7	219.71		219.75	0.002092	0.6	97.91	253	0.23
1	80	Hazel w CC	97.25	218.7	219.77		219.81	0.002153	0.64	113.74	291.47	0.23
1	62	100 Year	78.32	218.72	219.59		219.68	0.003667	1.45	58.38	166.18	0.68

1	62	Hazel	80.29	218.72	219.59		219.69	0.003737	1.46	59.08	166.92	0.69
1	62	Hazel w CC	97.25	218.72	219.63		219.75	0.004201	1.6	65.76	185.33	0.73
1	44	100 Year	78.32	218.71	219.56		219.61	0.002858	1.35	84.76	269.32	0.54
1	44	Hazel	80.29	218.71	219.57		219.62	0.002901	1.37	85.86	271.45	0.55
1	44	Hazel w CC	97.25	218.71	219.61		219.66	0.003034	1.44	98.4	308.81	0.56
1	30	100 Year	78.32	218.73	219.53		219.56	0.003332	1.39	116.46	394.47	0.55
1	30	Hazel	80.29	218.73	219.54		219.57	0.003379	1.41	117.95	396.14	0.55
1	30	Hazel w CC	97.25	218.73	219.58		219.61	0.003294	1.45	136.73	424.99	0.55
1	16	100 Year	78.32	218.65	219.37	219.37	219.48	0.011631	2.66	68.48	315.97	1.2
1	16	Hazel	80.29	218.65	219.38	219.38	219.48	0.011291	2.64	70.63	317.49	1.19
1	16	Hazel w CC	97.25	218.65	219.4	219.4	219.52	0.013133	2.91	77.44	327.23	1.28
1	11	100 Year	78.32	217.3	219.13	217.46	219.13	0.000004	0.11	699.43	382.26	0.03
1	11	Hazel	80.29	217.3	219.13	217.47	219.13	0.000004	0.12	699.43	382.26	0.03
1	11	Hazel w CC	97.25	217.3	219.13	217.49	219.13	0.000006	0.14	699.43	382.26	0.03

Whiskey Creek - Calibration +50% Expansion / Contraction

Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
			(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
1	6450	100 Year	14.25	297.18	298.04	298.04	298.36	0.013017	2.54	5.86	9.65	0.97
1	6450	Hazel	12.15	297.18	297.97	297.97	298.26	0.013504	2.42	5.22	9.39	0.97
1	6450	Hazel w CC	14.7	297.18	298.05	298.05	298.38	0.01288	2.56	6	9.71	0.97
1	6427	100 Year	14.25	296	297.92		298	0.001214	1.39	13.16	13.39	0.34
1	6427	Hazel	12.15	296	297.89		297.95	0.000962	1.23	12.72	13.1	0.3
1	6427	Hazel w CC	14.7	296	297.93		298.01	0.001262	1.43	13.28	13.51	0.34
1	6398	100 Year	14.25	295.42	297.95		297.96	0.000108	0.53	37.91	27.95	0.11
1	6398	Hazel	12.15	295.42	297.91		297.92	0.000085	0.46	36.82	27.59	0.1
1	6398	Hazel w CC	14.7	295.42	297.96		297.97	0.000112	0.54	38.2	28.05	0.11
1	6365	100 Year	14.25	295.1	297.96		297.96	0.000014	0.21	81.43	39.55	0.04
1	6365	Hazel	12.15	295.1	297.92		297.92	0.000011	0.18	79.86	39.3	0.04
1	6365	Hazel w CC	14.7	295.1	297.97		297.97	0.000014	0.22	81.84	39.61	0.04
1	6330	100 Year	14.25	295.11	297.96		297.96	0.00001	0.18	87.98	40.66	0.03
1	6330	Hazel	12.15	295.11	297.92		297.92	0.000008	0.16	86.37	40.18	0.03
1	6330	Hazel w CC	14.7	295.11	297.97		297.97	0.000011	0.18	88.4	40.87	0.04
1	6295	100 Year	14.25	295.1	297.95		297.96	0.000009	0.17	95.06	45.8	0.03
1	6295	Hazel	12.15	295.1	297.92		297.92	0.000007	0.15	93.27	44.84	0.03
1	6295	Hazel w CC	14.7	295.1	297.97		297.97	0.000009	0.17	95.54	46.06	0.03
1	6248	100 Year	14.25	295.14	297.94	297.48	297.95	0.000362	0.45	34.94	55.35	0.17
1	6248	Hazel	12.15	295.14	297.91	296.7	297.91	0.000318	0.41	32.87	54.87	0.15
1	6248	Hazel w CC	14.7	295.14	297.95	297.48	297.96	0.000366	0.46	35.5	55.48	0.17
1	Pond Berm	Culvert										
1	6203	100 Year	14.25	292.86	297.59	294.62	297.63	0.000537	1.1	23.1	61.29	0.24
1	6203	Hazel	12.15	292.86	297.55	294.43	297.59	0.000461	1.01	20.81	61.02	0.22
1	6203	Hazel w CC	14.7	292.86	297.6	294.65	297.65	0.000544	1.11	23.81	61.37	0.24
1	6173	100 Year	14.25	291.99	297.6	293.31	297.6	0.000001	0.1	187.17	57.07	0.01
1	6173	Hazel	12.15	291.99	297.56	293.27	297.56	0.000001	0.09	184.96	56.77	0.01
1	6173	Hazel w CC	14.7	291.99	297.61	293.31	297.61	0.000002	0.1	187.82	57.17	0.01
1	6142	100 Year	14.25	291.69	297.6	292.81	297.6	0.000001	0.11	215.52	65.78	0.01
1	6142	Hazel	12.15	291.69	297.56	292.77	297.56	0.000001	0.09	212.99	65.22	0.01
1	6142	Hazel w CC	14.7	291.69	297.61	292.82	297.61	0.000002	0.11	216.28	65.97	0.01
1	6120	100 Year	14.25	291.35	297.6	292.31	297.6	0.000001	0.06	409.11	254.05	0.01
1	6120	Hazel	12.15	291.35	297.56	292.25	297.56	0	0.06	405	251.86	0.01
1	6120	Hazel w CC	14.7	291.35	297.61	292.32	297.61	0.000001	0.07	410.34	254.54	0.01
1	6102	100 Year	14.25	291.08	297.6	291.89	297.6	0	0.05	493.01	271.26	0.01
1	6102	Hazel	12.15	291.08	297.56	291.85	297.56	0	0.05	488.55	269.43	0.01
1	6102	Hazel w CC	14.7	291.08	297.61	291.89	297.61	0	0.06	494.34	273.12	0.01
1	6094	100 Year	14.25	291.03	297.6	291.88	297.6	0	0.05	506.85	118.85	0.01
1	6094	Hazel	12.15	291.03	297.56	291.84	297.56	0	0.04	502.25	118.45	0.01
1	6094	Hazel w CC	14.7	291.03	297.61	291.89	297.61	0	0.05	508.22	118.97	0.01
1	6063	100 Year	14.25	290.67	297.6	291.32	297.6	0	0.06	461.73	105.44	0.01
1	6063	Hazel	12.15	290.67	297.56	291.28	297.56	0	0.05	457.66	105.06	0.01
1	6063	Hazel w CC	14.7	290.67	297.61	291.32	297.61	0	0.06	462.95	105.55	0.01
1	6039	100 Year	14.25	290.45	297.6	291.05	297.6	0	0.06	412.62	97.67	0.01
1	6039	Hazel	12.15	290.45	297.56	291.01	297.56	0	0.05	408.85	97.32	0.01
1	6039	Hazel w CC	14.7	290.45	297.61	291.06	297.61	0	0.06	413.75	97.78	0.01
1	6013	100 Year	14.25	290.29	297.46	293.09	297.56	0.003832	1.45	16.12	80.53	0.54
1	6013	Hazel	12.15	290.29	297.44	292.81	297.52	0.003385	1.34	14.25	80.31	0.5

1	6013	Hazel w CC	14.7	290.29	297.45	293.16	297.56	0.004521	1.56	15.13	80.42	0.58
1	Pond Berm Harvie		Culvert									
1	5942	100 Year	14.25	288.29	291.17	291.17	292.54	0.008566	5.19	2.75	33.56	1
1	5942	Hazel	12.15	288.29	290.89	290.89	292.13	0.008937	4.93	2.47	31.08	1
1	5942	Hazel w CC	14.7	288.29	291.22	291.22	292.63	0.008584	5.25	2.8	34	1
1	5897	100 Year	14.25	287.64	290.66		290.66	0.000015	0.22	86.43	44.05	0.04
1	5897	Hazel	12.15	287.64	290.5		290.5	0.000013	0.2	79.59	43.29	0.04
1	5897	Hazel w CC	14.7	287.64	290.6		290.6	0.000017	0.23	83.84	43.77	0.04
1	5863	100 Year	14.25	287.4	290.66		290.66	0.000007	0.17	116.17	49.86	0.03
1	5863	Hazel	12.15	287.4	290.5		290.5	0.000007	0.15	108.41	49.18	0.03
1	5863	Hazel w CC	14.7	287.4	290.6		290.6	0.000009	0.18	113.24	49.59	0.03
1	5810	100 Year	14.25	286.75	290.66		290.66	0.000007	0.19	133.35	60.5	0.03
1	5810	Hazel	12.15	286.75	290.5		290.5	0.000006	0.17	124.04	58.06	0.03
1	5810	Hazel w CC	14.7	286.75	290.6		290.6	0.000008	0.2	129.8	59.85	0.03
1	5777	100 Year	14.25	286.04	290.66		290.66	0.000002	0.09	281.74	158.8	0.01
1	5777	Hazel	12.15	286.04	290.5		290.5	0.000002	0.08	256.98	156.82	0.01
1	5777	Hazel w CC	14.7	286.04	290.6		290.6	0.000002	0.09	272.39	158.19	0.01
1	5762	100 Year	14.25	285.94	290.66		290.66	0.000001	0.09	315.36	136.2	0.01
1	5762	Hazel	12.15	285.94	290.5		290.5	0.000001	0.08	294.15	134.52	0.01
1	5762	Hazel w CC	14.7	285.94	290.6		290.6	0.000002	0.09	307.34	135.53	0.01
1	5739	100 Year	14.25	285.24	290.66		290.66	0.000001	0.07	334.09	120.49	0.01
1	5739	Hazel	12.15	285.24	290.5		290.5	0.000001	0.07	315.3	119.36	0.01
1	5739	Hazel w CC	14.7	285.24	290.6		290.6	0.000001	0.08	327	120.01	0.01
1	5722	100 Year	14.25	285.11	290.66		290.66	0.000001	0.06	337.76	119.21	0.01
1	5722	Hazel	12.15	285.11	290.5		290.5	0.000001	0.06	319.22	117.04	0.01
1	5722	Hazel w CC	14.7	285.11	290.6		290.6	0.000001	0.07	330.74	118.65	0.01
1	5704	100 Year	25.59	284.81	290.66		290.66	0.000003	0.1	354.72	125.88	0.01
1	5704	Hazel	20.14	284.81	290.5		290.5	0.000002	0.08	335.24	122.79	0.01
1	5704	Hazel w CC	24.34	284.81	290.6		290.6	0.000003	0.1	347.33	124.8	0.01
1	5682	100 Year	25.59	284.5	290.66		290.66	0.000003	0.15	346.54	105.9	0.02
1	5682	Hazel	20.14	284.5	290.5		290.5	0.000002	0.12	330.3	101.7	0.02
1	5682	Hazel w CC	24.34	284.5	290.6		290.6	0.000003	0.14	340.35	104.44	0.02
1	5648	100 Year	25.59	284.37	290.66	287.18	290.66	0.000001	0.07	660.17	229.79	0.01
1	5648	Hazel	20.14	284.37	290.5	286.58	290.5	0.000001	0.06	624.25	228.75	0.01
1	5648	Hazel w CC	24.34	284.37	290.6	287.17	290.6	0.000001	0.07	646.63	229.56	0.01
1	Harview 400 Ramp		Culvert									
1	5599	100 Year	25.59	283.8	290.65		290.65	0.000003	0.13	296.31	111.7	0.02
1	5599	Hazel	20.14	283.8	290.5		290.5	0.000002	0.11	279.13	110.44	0.02
1	5599	Hazel w CC	24.34	283.8	290.59		290.59	0.000003	0.13	289.39	111.32	0.02
1	5579	100 Year	32.58	283.74	290.65		290.65	0.000011	0.34	116.53	22.77	0.04
1	5579	Hazel	24.37	283.74	290.49		290.5	0.000007	0.26	113.2	20.83	0.03
1	5579	Hazel w CC	29.41	283.74	290.59		290.59	0.000001	0.31	115.16	22.15	0.04
1	5548	100 Year	32.58	283.51	290.58	285.55	290.64	0.000205	1.12	47.39	122.63	0.16
1	5548	Hazel	24.37	283.51	290.45	285.22	290.49	0.000135	0.89	32.31	107.76	0.13
1	5548	Hazel w CC	29.41	283.51	290.53	285.42	290.58	0.000179	1.04	41	118.96	0.15
1	Highway 400		Culvert									
1	5300	100 Year	32.58	280.17	287.88	282.22	287.94	0.0001	1.08	30.23	122.36	0.13
1	5300	Hazel	24.37	280.17	284.55	281.89	284.65	0.000389	1.44	16.89	84.08	0.22
1	5300	Hazel w CC	29.41	280.17	286.5	282.1	286.57	0.00016	1.19	24.68	110.33	0.15
1	5248	100 Year	32.58	279.5	287.92	280.42	287.92	0.000001	0.1	591.13	128.48	0.01

1	5248	Hazel	24.37	279.5	284.61	280.31	284.61	0.000003	0.14	288.74	96.44	0.02
1	5248	Hazel w CC	29.41	279.5	286.54	280.37	286.54	0.000001	0.11	453.84	113.39	0.01
1	5194	100 Year	32.58	279.07	287.8	281.52	287.88	0.000113	1.27	25.71	148.22	0.14
1	5194	Hazel	24.37	279.07	284.43	281.12	284.55	0.000335	1.56	15.59	103.98	0.22
1	5194	Hazel w CC	29.41	279.07	286.4	281.37	286.49	0.000167	1.37	21.51	131.53	0.16
1		Fairview Rd	Culvert									
1	5098	100 Year	32.58	277.95	280.42	280.29	281.45	0.007621	4.49	7.26	63.97	0.92
1	5098	Hazel	24.37	277.95	280.38		280.97	0.004529	3.42	7.13	63.5	0.71
1	5098	Hazel w CC	29.41	277.95	280.42		281.26	0.006248	4.06	7.25	63.92	0.83
1	5044	100 Year	32.58	277.86	280.66		280.67	0.000075	0.47	104.21	59.77	0.09
1	5044	Hazel	24.37	277.86	280.52		280.52	0.000053	0.38	95.65	57.52	0.08
1	5044	Hazel w CC	29.41	277.86	280.61		280.62	0.000066	0.44	101.31	59.3	0.09
1	4960	100 Year	32.58	277.26	280.54	279.11	280.62	0.000771	1.51	41.1	63.87	0.3
1	4960	Hazel	24.37	277.26	280.42	278.82	280.48	0.000607	1.3	33.66	57.96	0.26
1	4960	Hazel w CC	29.41	277.26	280.5	279	280.58	0.000699	1.43	38.71	62.44	0.28
1	5	Rail Line S	Culvert									
1	4933	100 Year	32.58	277.35	279.09	279.09	279.91	0.010545	4	8.14	39.67	1
1	4933	Hazel	24.37	277.35	278.81	278.81	279.48	0.011113	3.62	6.74	38.72	1
1	4933	Hazel w CC	29.41	277.35	278.99	278.99	279.75	0.010721	3.86	7.62	39.31	1
1	4875	100 Year	32.58	276.28	277.31	277.31	277.68	0.01359	2.86	12.48	17.71	1.02
1	4875	Hazel	24.37	276.28	277.18	277.18	277.49	0.014295	2.61	10.2	17.25	1.02
1	4875	Hazel w CC	29.41	276.28	277.27	277.27	277.61	0.013799	2.77	11.63	17.55	1.02
1	4845	100 Year	32.58	276.04	276.87	276.87	277.19	0.014381	2.67	13.16	20.74	1.03
1	4845	Hazel	24.37	276.04	276.75	276.75	277.02	0.015249	2.43	10.76	20.27	1.02
1	4845	Hazel w CC	29.41	276.04	276.82	276.82	277.13	0.014642	2.58	12.27	20.58	1.02
1	4812	100 Year	32.58	275.41	276.02	276.02	276.27	0.016296	2.23	15.03	31.21	0.98
1	4812	Hazel	24.37	275.41	275.92	275.92	276.14	0.018622	2.07	12	30.08	1.02
1	4812	Hazel w CC	29.41	275.41	275.99	275.99	276.22	0.016589	2.15	14.02	30.98	0.98
1	4766	100 Year	32.58	273.63	274.92	274.92	275.23	0.010769	2.98	14.26	22.47	0.94
1	4766	Hazel	24.37	273.63	274.81	274.81	275.07	0.010145	2.69	11.92	21.67	0.89
1	4766	Hazel w CC	29.41	273.63	274.88	274.88	275.17	0.010456	2.87	13.43	22.18	0.92
1	4725	100 Year	32.58	273.3	274.04	274.04	274.35	0.014583	2.51	13.44	22.3	0.99
1	4725	Hazel	24.37	273.3	273.92	273.92	274.19	0.015599	2.29	10.93	21.59	0.99
1	4725	Hazel w CC	29.41	273.3	274	274	274.29	0.014782	2.42	12.53	22.05	0.98
1	4688	100 Year	32.58	272.68	273.9		273.98	0.001866	1.33	26.85	28.89	0.4
1	4688	Hazel	24.37	272.68	273.8		273.85	0.001479	1.1	23.87	27.28	0.35
1	4688	Hazel w CC	29.41	272.68	273.9		273.97	0.001517	1.2	26.87	28.9	0.36
1	4655	100 Year	32.58	272.24	273.88		273.93	0.000837	1.07	35.9	32.27	0.28
1	4655	Hazel	24.37	272.24	273.78		273.81	0.000626	0.89	32.61	31.32	0.24
1	4655	Hazel w CC	29.41	272.24	273.89		273.92	0.000673	0.96	36.06	32.31	0.25
1	4631	100 Year	32.66	271.61	273.67	273.29	273.87	0.003091	2.22	19.16	23.16	0.54
1	4631	Hazel	27.16	271.61	273.61	273.16	273.76	0.002543	1.96	17.85	21.09	0.49
1	4631	Hazel w CC	32.93	271.61	273.66	273.29	273.87	0.003226	2.26	18.95	22.8	0.55
1	4609	100 Year	32.66	272.02	273.59	273.56	273.74	0.006135	2.24	23.83	53.79	0.7
1	4609	Hazel	27.16	272.02	273.52	273.52	273.67	0.006719	2.25	20.14	50.84	0.72
1	4609	Hazel w CC	32.93	272.02	273.57	273.57	273.74	0.007203	2.4	22.62	52.51	0.75
1		Bayview Dr	Culvert									
1	4559	100 Year	32.66	270.35	273.24	273.24	273.39	0.004183	1.99	29.82	96.61	0.6
1	4559	Hazel	27.16	270.35	272.3	272.3	273.14	0.010512	4.05	6.71	40.76	1
1	4559	Hazel w CC	32.93	270.35	273.25	273.25	273.39	0.003992	1.95	30.74	96.61	0.58

1	4531	100 Year	32.66	270.13	270.92	270.92	271.11	0.014768	2.68	20.18	47.87	1.03
1	4531	Hazel	27.16	270.13	270.87	270.87	271.04	0.014986	2.56	17.68	47.36	1.03
1	4531	Hazel w CC	32.93	270.13	270.92	270.92	271.11	0.015245	2.71	20.08	47.85	1.05
1	4503	100 Year	32.66	268.98	270.51	270.51	270.71	0.00818	2.53	24.61	62.45	0.79
1	4503	Hazel	27.16	268.98	270.45	270.45	270.64	0.008127	2.42	20.86	60.59	0.78
1	4503	Hazel w CC	32.93	268.98	270.52	270.52	270.71	0.008177	2.53	24.8	62.53	0.79
1	4478	100 Year	32.66	268.9	270.12	270.12	270.28	0.00975	2.39	24.67	82.98	0.84
1	4478	Hazel	27.16	268.9	270.07	270.07	270.23	0.010012	2.32	20.57	80.33	0.85
1	4478	Hazel w CC	32.93	268.9	270.13	270.13	270.28	0.009747	2.4	24.85	83.13	0.84
1	4451	100 Year	32.66	268.81	269.63	269.62	269.87	0.01978	2.85	15.93	48.38	1.15
1	4451	Hazel	27.16	268.81	269.61	269.57	269.79	0.015695	2.48	15.21	43.99	1.02
1	4451	Hazel w CC	32.93	268.81	269.63	269.61	269.87	0.019872	2.86	15.99	48.66	1.15
1	4430	100 Year	32.66	268.56	269.22	269.22	269.37	0.024253	1.68	21.64	88.05	0.74
1	4430	Hazel	27.16	268.56	269.14	269.14	269.31	0.037034	1.83	15.22	81.27	0.89
1	4430	Hazel w CC	32.93	268.56	269.23	269.23	269.37	0.02421	1.68	21.82	88.07	0.74
1	4407	100 Year	32.66	267.83	268.65	268.65	268.8	0.017761	2.87	24.02	80.08	1.12
1	4407	Hazel	27.16	267.83	268.61	268.61	268.75	0.017014	2.7	21.03	78.82	1.09
1	4407	Hazel w CC	32.93	267.83	268.65	268.65	268.81	0.017823	2.88	24.15	80.12	1.12
1	4392	100 Year	32.66	267.64	268.25	268.25	268.42	0.020292	2.41	23.79	69.18	1.11
1	4392	Hazel	27.16	267.64	268.22	268.22	268.37	0.019251	2.23	21.4	68.66	1.07
1	4392	Hazel w CC	32.93	267.64	268.26	268.26	268.42	0.020384	2.42	23.89	69.23	1.11
1	4375	100 Year	32.66	267.3	268.21		268.24	0.00271	0.95	45.62	76.03	0.33
1	4375	Hazel	27.16	267.3	268.08		268.11	0.003705	1	36.11	71.41	0.37
1	4375	Hazel w CC	32.93	267.3	268.21		268.25	0.002682	0.95	46.04	76.09	0.33
1	4347	100 Year	32.66	266.89	268.2		268.21	0.000272	0.54	77.75	82.17	0.16
1	4347	Hazel	27.16	266.89	268.07		268.08	0.00029	0.52	67.26	80.45	0.16
1	4347	Hazel w CC	32.93	266.89	268.21		268.22	0.000271	0.54	78.2	82.22	0.16
1	4245	100 Year	32.66	266.94	268.19		268.21	0.000122	0.26	70.44	117.47	0.08
1	4245	Hazel	27.16	266.94	268.06		268.07	0.000192	0.29	54.96	114.03	0.1
1	4245	Hazel w CC	32.93	266.94	268.2		268.21	0.000121	0.26	71.11	117.56	0.08
1	4146	100 Year	32.66	266.63	268.2		268.2	0.000018	0.12	152.93	212.17	0.03
1	4146	Hazel	27.16	266.63	268.06		268.06	0.000025	0.13	124.54	209.78	0.04
1	4146	Hazel w CC	32.93	266.63	268.2		268.2	0.000018	0.12	154.13	212.28	0.03
1	4042	100 Year	32.66	266.23	268.2		268.2	0.000005	0.07	266.77	313.48	0.02
1	4042	Hazel	27.16	266.23	268.06		268.06	0.000005	0.07	225.64	301.16	0.02
1	4042	Hazel w CC	32.93	266.23	268.2		268.2	0.000004	0.07	268.56	314.64	0.02
1	4008	100 Year	32.66	266.33	268.2		268.2	0.000002	0.04	343.56	316.2	0.01
1	4008	Hazel	27.16	266.33	268.06		268.06	0.000002	0.04	302.18	299.45	0.01
1	4008	Hazel w CC	32.93	266.33	268.2		268.2	0.000002	0.04	345.36	317.22	0.01
1	3969	100 Year	32.66	266.13	268.14	267.69	268.19	0.000545	0.84	34.59	39.42	0.2
1	3969	Hazel	27.16	266.13	268.01	267.62	268.05	0.000648	0.86	29.46	39.06	0.22
1	3969	Hazel w CC	32.93	266.13	268.15	267.69	268.19	0.000543	0.84	34.8	39.43	0.2
1	3927	100 Year	32.66	265.97	268.12	267.32	268.16	0.000444	0.76	38.03	40.93	0.18
1	3927	Hazel	27.16	265.97	267.99	267.2	268.02	0.000517	0.77	32.58	39.97	0.19
1	3927	Hazel w CC	32.93	265.97	268.13	267.33	268.17	0.000443	0.76	38.25	40.95	0.18
1	3887.475	100 Year	32.66	265.84	268.03	267.21	268.12	0.001979	1.46	30.72	48.59	0.35
1	3887.475	Hazel	27.16	265.84	267.88	267.08	267.98	0.002172	1.44	23.67	46.31	0.36
1	3887.475	Hazel w CC	32.93	265.84	268.03	267.22	268.13	0.001976	1.46	31.01	48.61	0.35
1	3849	100 Year	32.66	265.87	267.88	267.24	268.03	0.002541	1.77	24.19	38.43	0.44
1	3849	Hazel	27.16	265.87	267.73	267.12	267.88	0.002707	1.72	18.61	35.99	0.44
1	3849	Hazel w CC	32.93	265.87	267.89	267.24	268.03	0.002544	1.78	24.4	38.51	0.44
1	3743	100 Year	32.66	265.41	266.85	266.85	267.35	0.024951	3.13	10.42	10.4	1

1	3743	Hazel	27.16	265.41	266.71	266.71	267.18	0.025179	3.01	9.02	9.92	1.01
1	3743	Hazel w CC	32.93	265.41	266.86	266.86	267.36	0.024609	3.12	10.55	10.44	0.99
1	3658	100 Year	32.66	262.24	264.93		265.05	0.003199	1.58	23.25	23.72	0.38
1	3658	Hazel	27.16	262.24	264.78		264.89	0.003009	1.45	20.15	18.77	0.36
1	3658	Hazel w CC	32.93	262.24	264.93		265.06	0.003209	1.58	23.4	23.83	0.38
1	3626	100 Year	32.66	262.12	263.31	263.31	263.66	0.013923	2.69	14.11	23.25	0.95
1	3626	Hazel	27.16	262.12	263.22	263.22	263.54	0.014364	2.55	12.05	22.07	0.96
1	3626	Hazel w CC	32.93	262.12	263.31	263.31	263.66	0.013895	2.69	14.21	23.3	0.95
1	3607	100 Year	32.66	261.57	262.9	262.9	263.18	0.015346	2.41	15.69	35.37	0.92
1	3607	Hazel	27.16	261.57	262.83	262.83	263.09	0.015475	2.28	13.32	31.64	0.92
1	3607	Hazel w CC	32.93	261.57	262.91	262.91	263.18	0.015272	2.41	15.83	35.46	0.92
1	3587	100 Year	32.66	260.22	262.33	262.33	262.56	0.005474	2.57	21.93	48.97	0.64
1	3587	Hazel	27.16	260.22	262.27	262.27	262.48	0.004921	2.38	19.13	45.74	0.61
1	3587	Hazel w CC	32.93	260.22	262.33	262.33	262.57	0.005463	2.57	22.14	49.09	0.64
1	3559	100 Year	32.66	259.8	261.74	261.74	261.94	0.006328	2.49	27.45	63.01	0.7
1	3559	Hazel	27.16	259.8	261.68	261.68	261.87	0.005966	2.34	23.85	60.12	0.68
1	3559	Hazel w CC	32.93	259.8	261.74	261.74	261.94	0.006341	2.49	27.62	63.05	0.7
1	3525	100 Year	32.66	259.18	261.11	261.11	261.3	0.005379	2.44	23.97	63.34	0.65
1	3525	Hazel	27.16	259.18	260.94	260.94	261.22	0.007821	2.71	14.36	43.55	0.77
1	3525	Hazel w CC	32.93	259.18	261.11	261.11	261.31	0.005391	2.45	24.14	63.37	0.65
1	3495	100 Year	32.66	258.93	260.64	260.64	260.92	0.008865	2.83	21.88	46.08	0.84
1	3495	Hazel	27.16	258.93	260.6	260.6	260.83	0.007305	2.51	20.25	44.55	0.76
1	3495	Hazel w CC	32.93	258.93	260.64	260.64	260.92	0.008811	2.83	22.1	46.38	0.84
1	3479	100 Year	32.66	258.96	260.29	260.11	260.48	0.00603	2.28	24.21	36.82	0.7
1	3479	Hazel	27.16	258.96	260.22		260.38	0.005237	2.03	21.76	33.37	0.64
1	3479	Hazel w CC	32.93	258.96	260.29		260.49	0.006034	2.28	24.36	36.9	0.7
1	3445	100 Year	32.66	258.79	259.97	259.97	260.23	0.009072	2.7	20.15	38.92	0.86
1	3445	Hazel	27.16	258.79	259.9	259.9	260.14	0.008727	2.53	17.6	38.45	0.84
1	3445	Hazel w CC	32.93	258.79	259.97	259.97	260.23	0.009095	2.7	20.26	38.94	0.86
1	3425	100 Year	32.66	258.51	259.9		259.96	0.003387	1.62	40.37	68.17	0.52
1	3425	Hazel	27.16	258.51	259.79		259.85	0.004008	1.62	32.83	65.71	0.55
1	3425	Hazel w CC	32.93	258.51	259.88		259.95	0.003826	1.69	38.88	68	0.55
1	3409	100 Year	32.66	258.25	259.8		259.9	0.003323	1.86	33.47	57.66	0.54
1	3409	Hazel	27.16	258.25	259.66		259.78	0.004195	1.93	25.65	54.59	0.59
1	3409	Hazel w CC	32.93	258.25	259.74		259.87	0.00432	2.06	30.21	56.84	0.61
1	3392	100 Year	55.85	258.06	259.48	259.48	259.76	0.011334	3.21	33.04	59.5	0.97
1	3392	Hazel	43.65	258.06	259.4	259.4	259.64	0.010214	2.9	28.37	58.86	0.91
1	3392	Hazel w CC	51.91	258.06	259.46	259.46	259.72	0.010991	3.11	31.6	59.33	0.95
1	3378	100 Year	55.85	258.03	259.4		259.55	0.006957	2.58	43	65.58	0.77
1	3378	Hazel	43.65	258.03	259.3		259.43	0.006758	2.4	36.55	64.97	0.74
1	3378	Hazel w CC	51.91	258.03	259.38		259.52	0.006764	2.5	41.27	65.41	0.75
1	3356	100 Year	55.85	257.67	259.12	259.09	259.35	0.011042	3.18	33.5	60.82	0.95
1	3356	Hazel	43.65	257.67	259.03	259.03	259.24	0.010873	2.99	27.98	59.44	0.93
1	3356	Hazel w CC	51.91	257.67	259.09	259.08	259.31	0.011385	3.17	31.37	60.41	0.96
1	3338	100 Year	55.85	257.6	259.03		259.16	0.005659	2.37	40.43	59.13	0.69
1	3338	Hazel	43.65	257.6	258.93		259.04	0.005498	2.19	34.17	58.07	0.67
1	3338	Hazel w CC	51.91	257.6	259		259.13	0.005621	2.32	38.46	58.89	0.68
1	3314	100 Year	55.85	257.47	258.77		258.98	0.009688	2.98	33.01	55.45	0.89
1	3314	Hazel	43.65	257.47	258.66	258.62	258.85	0.010137	2.84	26.94	54.57	0.9
1	3314	Hazel w CC	51.91	257.47	258.74		258.94	0.009816	2.93	31.11	55.2	0.9
1	3293	100 Year	55.85	257.27	258.61		258.77	0.008349	2.76	37.07	52.19	0.83
1	3293	Hazel	43.65	257.27	258.5		258.64	0.008328	2.57	31.35	50.88	0.81

1	3293	Hazel w CC	51.91	257.27	258.57		258.73	0.008343	2.7	35.28	51.78	0.82
1	3273	100 Year	55.85	256.99	258.27	258.25	258.54	0.01515	3.61	32.64	48.19	1.11
1	3273	Hazel	43.65	256.99	258.17	258.16	258.41	0.015237	3.39	27.67	47.52	1.1
1	3273	Hazel w CC	51.91	256.99	258.24	258.22	258.5	0.01519	3.54	31.08	48.02	1.11
1	3254	100 Year	55.85	256.81	258.04	257.97	258.27	0.012	2.96	34.53	49.72	0.97
1	3254	Hazel	43.65	256.81	257.99		258.15	0.009403	2.52	31.86	49.42	0.85
1	3254	Hazel w CC	51.91	256.81	258.02	257.94	258.23	0.011641	2.86	33.26	49.58	0.96
1	3222	100 Year	55.85	256.43	257.75		257.95	0.007713	2.73	36	55.99	0.81
1	3222	Hazel	43.65	256.43	257.59	257.59	257.83	0.010379	2.87	27.07	54.05	0.92
1	3222	Hazel w CC	51.91	256.43	257.7		257.91	0.008457	2.77	33.09	55.57	0.84
1	3202	100 Year	55.85	255.96	257.72		257.81	0.003004	1.93	48.69	60.79	0.51
1	3202	Hazel	43.65	255.96	257.54		257.64	0.003768	1.98	37.83	59.44	0.56
1	3202	Hazel w CC	51.91	255.96	257.66		257.76	0.003185	1.94	45.35	60.47	0.53
1	3177	100 Year	55.85	255.71	257.67		257.74	0.001795	1.59	54.49	60.53	0.4
1	3177	Hazel	43.65	255.71	257.49		257.55	0.002092	1.58	43.39	57.4	0.42
1	3177	Hazel w CC	51.91	255.71	257.62		257.68	0.001866	1.58	51.07	59.71	0.4
1	3161	100 Year	55.85	255.6	257.66		257.71	0.00129	1.44	57.75	54.93	0.34
1	3161	Hazel	43.65	255.6	257.47		257.52	0.001362	1.38	47.58	53.14	0.35
1	3161	Hazel w CC	51.91	255.6	257.6		257.65	0.001303	1.42	54.64	54.4	0.34
1	3139	100 Year	55.85	255.55	257.6		257.68	0.001279	1.52	52.64	45.35	0.36
1	3139	Hazel	43.65	255.55	257.42		257.49	0.001235	1.4	44.47	44.03	0.34
1	3139	Hazel w CC	51.91	255.55	257.55		257.62	0.001261	1.48	50.16	44.95	0.35
1	3116	100 Year	55.85	255.29	257.54		257.64	0.00172	1.86	43.99	42.93	0.41
1	3116	Hazel	43.65	255.29	257.36		257.45	0.001636	1.71	36.68	39.64	0.39
1	3116	Hazel w CC	51.91	255.29	257.49		257.58	0.001688	1.81	41.74	41.83	0.4
1	3101	100 Year	55.85	255.26	257.45		257.6	0.002589	2.14	45.2	54.79	0.5
1	3101	Hazel	43.65	255.26	257.28		257.41	0.002498	1.97	36.57	47.53	0.48
1	3101	Hazel w CC	51.91	255.26	257.4		257.55	0.00252	2.08	42.61	50.47	0.49
1	3062	100 Year	55.85	255.15	257.23	257.03	257.45	0.005299	2.54	33.8	45.04	0.59
1	3062	Hazel	43.65	255.15	257	256.88	257.25	0.006243	2.53	24	42.15	0.62
1	3062	Hazel w CC	51.91	255.15	257.17	256.98	257.4	0.005323	2.5	31.39	44.36	0.59
1	3036	100 Year	55.85	254.88	256.77	256.77	257.25	0.008534	3.24	24.15	46.65	0.79
1	3036	Hazel	43.65	254.88	256.47	256.47	257	0.011627	3.32	15.11	19.74	0.9
1	3036	Hazel w CC	51.91	254.88	256.66	256.66	257.18	0.009825	3.33	19.71	31.49	0.84
1	3006	100 Year	55.85	254.23	256.22	256.22	256.61	0.011985	3.03	24.94	36.25	0.77
1	3006	Hazel	43.65	254.23	256.03	256.03	256.42	0.013544	2.94	18.48	25.87	0.8
1	3006	Hazel w CC	51.91	254.23	256.16	256.16	256.56	0.01255	3.02	22.75	34.63	0.78
1	2979	100 Year	55.85	253.9	255.74	255.63	256.12	0.011855	2.89	21.87	27.37	0.77
1	2979	Hazel	43.65	253.9	255.62		255.92	0.010219	2.53	19.01	22.02	0.7
1	2979	Hazel w CC	51.91	253.9	255.7	255.57	256.06	0.011304	2.78	20.96	24.6	0.75
1	2956	100 Year	55.85	253.75	255.51	255.45	255.76	0.014079	2.99	29.93	50.13	0.76
1	2956	Hazel	43.65	253.75	255.37	255.31	255.62	0.014254	2.82	23.16	41.15	0.75
1	2956	Hazel w CC	51.91	253.75	255.46	255.42	255.72	0.014363	2.96	27.62	49.61	0.76
1	2933	100 Year	55.85	253.62	255.07	255.07	255.39	0.019002	3.21	26.92	41.27	0.9
1	2933	Hazel	43.65	253.62	254.95	254.95	255.24	0.019149	3.01	22.04	39.18	0.89
1	2933	Hazel w CC	51.91	253.62	255.03	255.03	255.34	0.018833	3.13	25.51	40.82	0.89
1	2913	100 Year	55.85	253.61	254.92		255.11	0.006743	1.41	32.05	32.44	0.42
1	2913	Hazel	43.65	253.61	254.75		254.92	0.007125	1.31	26.64	30.87	0.42
1	2913	Hazel w CC	51.91	253.61	254.86		255.05	0.006855	1.38	30.32	31.87	0.42
1	2887	100 Year	55.85	253.12	254.7		254.93	0.006234	1.42	28.5	27.39	0.39
1	2887	Hazel	43.65	253.12	254.55		254.74	0.006158	1.3	24.26	26.68	0.38
1	2887	Hazel w CC	51.91	253.12	254.65		254.87	0.006213	1.38	27.17	27.2	0.39

1	2860	100 Year	55.85	253.16	254.24	254.24	254.66	0.013342	3	19.84	24.53	0.98
1	2860	Hazel	43.65	253.16	254.11	254.11	254.47	0.013698	2.76	16.79	23.88	0.97
1	2860	Hazel w CC	51.91	253.16	254.2	254.2	254.6	0.013471	2.93	18.87	24.31	0.98
1	2839	100 Year	55.85	252.9	253.82	253.82	254.19	0.014654	2.93	21.2	29.83	1.05
1	2839	Hazel	43.65	252.9	253.71	253.71	254.02	0.015462	2.71	17.8	29.09	1.05
1	2839	Hazel w CC	51.91	252.9	253.79	253.79	254.14	0.014988	2.87	20.08	29.55	1.06
1	2812	100 Year	55.85	252.12	253.41	253.37	253.78	0.012567	3.37	21.38	25.78	1.02
1	2812	Hazel	43.65	252.12	253.31	253.25	253.6	0.01136	3.01	18.81	25.24	0.95
1	2812	Hazel w CC	51.91	252.12	253.38	253.33	253.72	0.012225	3.26	20.56	25.59	1
1	2789	100 Year	55.85	251.92	253.08	253.08	253.47	0.01425	3.32	20.67	27.04	1.05
1	2789	Hazel	43.65	251.92	252.96	252.96	253.29	0.015231	3.13	17.26	26.1	1.06
1	2789	Hazel w CC	51.91	251.92	253.04	253.04	253.41	0.014557	3.26	19.58	26.75	1.06
1	2761	100 Year	55.85	251.59	252.76		252.98	0.008093	2.34	27	35.7	0.78
1	2761	Hazel	43.65	251.59	252.66		252.83	0.007694	2.11	23.4	34.97	0.74
1	2761	Hazel w CC	51.91	251.59	252.73		252.93	0.007979	2.27	25.87	35.5	0.77
1	2743	100 Year	55.85	251.51	252.56	252.5	252.81	0.011286	2.56	25.37	39.87	0.9
1	2743	Hazel	43.65	251.51	252.47		252.67	0.010593	2.3	22.02	38.65	0.86
1	2743	Hazel w CC	51.91	251.51	252.53	252.47	252.76	0.011029	2.48	24.35	39.43	0.88
1	2728	100 Year	55.85	251.43	252.49		252.62	0.007663	2.26	36.76	58.75	0.77
1	2728	Hazel	43.65	251.43	252.39		252.51	0.007449	2.06	31.27	57.86	0.75
1	2728	Hazel w CC	51.91	251.43	252.46		252.59	0.007538	2.19	35.14	58.48	0.76
1	2708	100 Year	55.85	250.88	252.14	252.14	252.4	0.014105	2.99	25.66	50.21	1.01
1	2708	Hazel	43.65	250.88	252.03	252.03	252.28	0.015673	2.89	20.63	42.5	1.04
1	2708	Hazel w CC	51.91	250.88	252.1	252.1	252.36	0.014657	2.97	23.94	48.41	1.02
1	2688	100 Year	55.85	250.76	251.79		251.97	0.01105	2.64	31.05	60.4	0.91
1	2688	Hazel	43.65	250.76	251.72		251.87	0.010837	2.46	26.5	57.03	0.88
1	2688	Hazel w CC	51.91	250.76	251.77		251.94	0.010986	2.59	29.61	59.59	0.9
1	2665	100 Year	55.85	250.61	251.44	251.44	251.66	0.016238	2.71	27.12	62.45	1.06
1	2665	Hazel	43.65	250.61	251.37	251.37	251.56	0.016195	2.51	22.85	59.61	1.04
1	2665	Hazel w CC	51.91	250.61	251.42	251.42	251.63	0.016243	2.65	25.77	62.02	1.06
1	2654	100 Year	55.85	250.19	251.16	251.16	251.39	0.013599	2.75	27.44	59.09	0.99
1	2654	Hazel	43.65	250.19	251.09	251.08	251.28	0.012958	2.51	23.12	56.58	0.95
1	2654	Hazel w CC	51.91	250.19	251.14	251.12	251.36	0.013677	2.69	25.74	58	0.98
1	2632	100 Year	55.85	249.36	250.89	250.89	251.12	0.011323	3.12	28.93	69.24	0.92
1	2632	Hazel	43.65	249.36	250.81	250.81	251.02	0.010587	2.89	23.99	65	0.88
1	2632	Hazel w CC	51.91	249.36	250.86	250.86	251.09	0.011109	3.05	27.36	68.02	0.91
1	2617	100 Year	55.85	249.53	250.71	250.65	250.89	0.009082	2.61	31.98	70.96	0.84
1	2617	Hazel	43.65	249.53	250.62	250.56	250.79	0.008725	2.4	26.11	64.61	0.81
1	2617	Hazel w CC	51.91	249.53	250.68	250.62	250.86	0.009	2.55	30.13	70.49	0.83
1	2593	100 Year	55.85	249.31	250.53		250.66	0.00842	2.6	38.06	79.5	0.82
1	2593	Hazel	43.65	249.31	250.44		250.57	0.008233	2.43	31.47	78.81	0.8
1	2593	Hazel w CC	51.91	249.31	250.5		250.63	0.008377	2.55	35.99	79.28	0.81
1	2566	100 Year	55.85	248.87	250.24	250.2	250.42	0.00897	2.85	34.37	72.89	0.85
1	2566	Hazel	43.65	248.87	250.14	250.12	250.32	0.009441	2.75	27.56	69.93	0.86
1	2566	Hazel w CC	51.91	248.87	250.21	250.18	250.39	0.009105	2.82	32.22	72.02	0.85
1	2547	100 Year	55.85	248.82	250.12		250.26	0.006607	2.28	39.37	72.84	0.73
1	2547	Hazel	43.65	248.82	250.02		250.15	0.006793	2.16	32.38	71.37	0.73
1	2547	Hazel w CC	51.91	248.82	250.09		250.22	0.006686	2.25	37.14	72.5	0.73
1	2523	100 Year	55.85	248.37	249.93		250.09	0.00682	2.59	34.36	59.68	0.74
1	2523	Hazel	43.65	248.37	249.81	249.76	249.97	0.007574	2.55	27.33	57.99	0.77
1	2523	Hazel w CC	51.91	248.37	249.89		250.05	0.007071	2.58	32.08	59.28	0.75

1	2506	100 Year	55.85	248.63	249.83		249.98	0.00573	2.26	35.65	57.94	0.7
1	2506	Hazel	43.65	248.63	249.7		249.84	0.006702	2.23	27.9	56.81	0.74
1	2506	Hazel w CC	51.91	248.63	249.79		249.94	0.006011	2.25	33.17	57.58	0.71
1	2488	100 Year	55.85	247.87	249.82		249.89	0.002157	1.72	51.11	59.27	0.43
1	2488	Hazel	43.65	247.87	249.68		249.74	0.002086	1.6	43.35	58.43	0.42
1	2488	Hazel w CC	51.91	247.87	249.77		249.84	0.002145	1.69	48.61	59	0.43
1	2464	100 Year	55.85	248.1	249.78		249.84	0.001581	1.47	54.75	62.45	0.39
1	2464	Hazel	43.65	248.1	249.65		249.7	0.00143	1.32	46.99	58.17	0.36
1	2464	Hazel w CC	51.91	248.1	249.74		249.79	0.00154	1.43	52.18	61.39	0.38
1	2443	100 Year	55.85	247.71	249.45	249.45	249.74	0.008871	3.28	29.36	47.3	0.89
1	2443	Hazel	43.65	247.71	249.34	249.34	249.6	0.008652	3.07	24.27	45.46	0.86
1	2443	Hazel w CC	51.91	247.71	249.42	249.42	249.69	0.008596	3.19	28.04	46.9	0.87
1	2414	100 Year	55.85	247.06	248.94	248.94	249.25	0.007444	3.2	26.56	45.56	0.81
1	2414	Hazel	43.65	247.06	248.81	248.81	249.11	0.007557	3.05	21.47	33.46	0.81
1	2414	Hazel w CC	51.91	247.06	248.91	248.91	249.21	0.00715	3.1	25.32	43.22	0.79
1	2387	100 Year	55.85	247.04	248.75	248.64	249	0.005883	2.86	29.35	41.14	0.74
1	2387	Hazel	43.65	247.04	248.59		248.83	0.006394	2.77	23.45	32.65	0.76
1	2387	Hazel w CC	51.91	247.04	248.71		248.95	0.00593	2.81	27.54	40.61	0.74
1	2364	100 Year	55.85	246.93	248.49	248.49	248.82	0.008728	3.23	26.24	40.31	0.89
1	2364	Hazel	43.65	246.93	248.38	248.36	248.67	0.007947	2.92	22.3	34.55	0.83
1	2364	Hazel w CC	51.91	246.93	248.45	248.45	248.77	0.008637	3.15	24.81	39.61	0.88
1	2344	100 Year	55.85	246.52	248.29	248.29	248.63	0.007786	3.29	26.37	42.41	0.84
1	2344	Hazel	43.65	246.52	248.08	248.08	248.47	0.00982	3.36	18.5	28.87	0.92
1	2344	Hazel w CC	51.91	246.52	248.26	248.26	248.58	0.007651	3.21	24.87	40.75	0.83
1	2324	100 Year	55.85	246.15	247.87	247.87	248.32	0.008453	3.35	22.21	28.41	0.88
1	2324	Hazel	43.65	246.15	247.72	247.72	248.12	0.008476	3.11	18	25.17	0.86
1	2324	Hazel w CC	51.91	246.15	247.84	247.84	248.26	0.008221	3.24	21.13	27.61	0.86
1	2299	100 Year	55.85	246.39	247.67	247.66	247.97	0.010538	3.16	24.99	44.16	0.95
1	2299	Hazel	43.65	246.39	247.56	247.53	247.82	0.010148	2.9	20.48	37.44	0.91
1	2299	Hazel w CC	51.91	246.39	247.64	247.64	247.92	0.010361	3.08	23.66	43.06	0.94
1	2280	100 Year	55.85	245.94	247.49	247.49	247.77	0.008897	3.03	26.62	56.49	0.87
1	2280	Hazel	43.65	245.94	247.37	247.37	247.63	0.008928	2.84	21	42.03	0.86
1	2280	Hazel w CC	51.91	245.94	247.45	247.45	247.73	0.008795	2.96	24.84	50.23	0.86
1	2256	100 Year	55.85	245.44	247.21	247.18	247.46	0.006812	3	34.37	66.94	0.78
1	2256	Hazel	43.65	245.44	247.13	247.08	247.33	0.005816	2.66	28.84	64.08	0.72
1	2256	Hazel w CC	51.91	245.44	247.25		247.44	0.005063	2.63	36.93	67.98	0.68
1	2243	100 Year	55.85	245.58	247.16		247.35	0.007038	2.76	33.94	49.58	0.78
1	2243	Hazel	43.65	245.58	247.09		247.23	0.005747	2.4	30.49	49.07	0.7
1	2243	Hazel w CC	51.91	245.58	247.21		247.35	0.004896	2.37	36.72	50.44	0.66
1	2218	100 Year	55.85	245.17	247.11		247.22	0.002347	1.88	40.02	40.81	0.47
1	2218	Hazel	43.65	245.17	247.05		247.13	0.001658	1.55	37.98	39.97	0.39
1	2218	Hazel w CC	51.91	245.17	247.18		247.26	0.001667	1.63	42.94	41.86	0.4
1	2191	100 Year	55.85	244.55	247.07		247.16	0.001631	1.73	45.44	40.56	0.39
1	2191	Hazel	43.65	244.55	247.03		247.09	0.001093	1.4	43.94	40.18	0.32
1	2191	Hazel w CC	51.91	244.55	247.15		247.22	0.001156	1.5	48.82	41.36	0.33
1	2167	100 Year	55.85	244.3	247.08		247.11	0.000481	1.11	69.55	46.96	0.23
1	2167	Hazel	43.65	244.3	247.04		247.06	0.000316	0.89	67.66	46.55	0.18
1	2167	Hazel w CC	51.91	244.3	247.16		247.18	0.000361	0.98	73.31	47.6	0.2
1	2141	100 Year	55.85	244.05	247.08		247.1	0.000222	0.81	95.44	54.97	0.16
1	2141	Hazel	43.65	244.05	247.04		247.05	0.000145	0.65	93.19	54.64	0.13
1	2141	Hazel w CC	51.91	244.05	247.16		247.17	0.000169	0.72	99.82	55.59	0.14
1	2122	100 Year	55.85	243.68	247.08		247.09	0.000119	0.63	115.63	55.87	0.11

1	2122	Hazel	43.65	243.68	247.04		247.05	0.000077	0.5	113.34	55.59	0.09
1	2122	Hazel w CC	51.91	243.68	247.16		247.17	0.000093	0.56	120.08	56.42	0.1
1	2094	100 Year	55.85	243.94	247.07		247.09	0.000109	0.6	122.6	58.9	0.11
1	2094	Hazel	43.65	243.94	247.04		247.04	0.00007	0.48	120.27	58.55	0.09
1	2094	Hazel w CC	51.91	243.94	247.15		247.17	0.000084	0.54	127.34	59.59	0.1
1	2072	100 Year	55.85	243.45	247.07		247.08	0.000079	0.55	133.75	61.83	0.1
1	2072	Hazel	43.65	243.45	247.03		247.04	0.000051	0.44	131.29	61.51	0.08
1	2072	Hazel w CC	51.91	243.45	247.15		247.16	0.000061	0.5	138.71	62.3	0.09
1	2045	100 Year	55.85	243.33	247.01		247.07	0.000474	1.32	66.82	55.2	0.23
1	2045	Hazel	43.65	243.33	247		247.03	0.000297	1.04	65.89	54.36	0.18
1	2045	Hazel w CC	51.91	243.33	247.11		247.15	0.000355	1.16	72.26	58.13	0.2
1	2026	100 Year	50.34	243.36	247.01		247.06	0.000356	1.05	69.01	42.28	0.19
1	2026	Hazel	47.91	243.36	246.98		247.03	0.000335	1.02	67.8	41.09	0.18
1	2026	Hazel w CC	57.4	243.36	247.09		247.15	0.000416	1.16	72.32	43	0.21
1	2006	100 Year	50.34	242.86	246.91	244.95	247.02	0.00095	1.6	45.94	40.06	0.31
1	2006	Hazel	47.91	242.86	246.89	244.89	246.99	0.000897	1.55	45.02	39.9	0.3
1	2006	Hazel w CC	57.4	242.86	246.97	245.13	247.1	0.001109	1.76	48.33	40.47	0.34
1	McConkey Pl		Culvert									
1	1971	100 Year	50.34	242.25	246.33	244.78	246.65	0.004027	2.54	23.35	29.19	0.54
1	1971	Hazel	47.91	242.25	246.31	244.71	246.61	0.003816	2.45	22.65	29.01	0.52
1	1971	Hazel w CC	57.4	242.25	246.37	244.98	246.76	0.00491	2.83	24.36	29.44	0.6
1	1954	100 Year	50.34	242	246.38		246.43	0.000593	1.12	59.04	34.12	0.19
1	1954	Hazel	47.91	242	246.35		246.4	0.000555	1.08	58.18	30.26	0.18
1	1954	Hazel w CC	57.4	242	246.42		246.49	0.000756	1.28	60.68	38.62	0.21
1	1933	100 Year	50.34	241.84	246.38		246.41	0.000345	0.9	88.99	88.48	0.15
1	1933	Hazel	47.91	241.84	246.35		246.38	0.000326	0.87	86.9	86.91	0.14
1	1933	Hazel w CC	57.4	241.84	246.43		246.46	0.000417	1	92.58	90.6	0.16
1	1914	100 Year	50.34	241.94	246.39		246.4	0.00015	0.62	138.28	155.49	0.1
1	1914	Hazel	47.91	241.94	246.36		246.37	0.000142	0.6	135.51	152.02	0.1
1	1914	Hazel w CC	57.4	241.94	246.43		246.45	0.00018	0.68	143.05	158.92	0.11
1	1891	100 Year	50.34	241.36	246.39		246.39	0.000038	0.36	226.87	204.73	0.06
1	1891	Hazel	47.91	241.36	246.36		246.37	0.000036	0.35	223.82	200.72	0.05
1	1891	Hazel w CC	57.4	241.36	246.44		246.44	0.000047	0.4	232.14	211.03	0.06
1	1866	100 Year	50.34	241.04	246.39		246.39	0.000015	0.21	354.24	178.95	0.03
1	1866	Hazel	47.91	241.04	246.36		246.36	0.000014	0.2	349.22	178.95	0.03
1	1866	Hazel w CC	57.4	241.04	246.44		246.44	0.000018	0.23	362.87	179.11	0.03
1	1848	100 Year	50.34	240.46	246.39		246.39	0.000007	0.18	559.07	277.06	0.02
1	1848	Hazel	47.91	240.46	246.36		246.36	0.000006	0.17	551.34	274.78	0.02
1	1848	Hazel w CC	57.4	240.46	246.44		246.44	0.000009	0.2	572.51	279.94	0.03
1	1831	100 Year	50.34	240.25	246.37	246.14	246.38	0.00213	0.85	105.58	235.25	0.25
1	1831	Hazel	47.91	240.25	246.34	244.16	246.36	0.002351	0.88	98.54	234.05	0.26
1	1831	Hazel w CC	57.4	240.25	246.42	246.15	246.43	0.002057	0.86	116.96	236.49	0.25
1	9	Rail Line	Culvert									
1	1804	100 Year	50.34	239.48	243.5	243.5	245.5	0.008465	6.27	8.03	127.36	1
1	1804	Hazel	47.91	239.48	243.36	243.36	245.3	0.008595	6.17	7.76	122.69	1
1	1804	Hazel w CC	57.4	239.48	243.87	243.87	246.05	0.008209	6.55	8.77	154.59	1
1	1789	100 Year	59.73	239.35	241.53	241.3	241.87	0.007585	2.57	23.29	19.9	0.74
1	1789	Hazel	56.69	239.35	241.51	241.26	241.83	0.007101	2.47	22.99	19.8	0.72
1	1789	Hazel w CC	67.96	239.35	241.58	241.4	241.98	0.00863	2.81	24.33	20.21	0.79
1	1770	100 Year	59.73	239.17	241.39	241.39	241.56	0.01216	2.13	33.73	93.79	0.56
1	1770	Hazel	56.69	239.17	241.38	241.38	241.55	0.012265	2.12	32.3	92.1	0.56

1	1770	Hazel w CC	67.96	239.17	241.51	241.43	241.62	0.006878	1.68	46.31	120.64	0.42
1	Huron Rd		Culvert									
1	1742	100 Year	59.73	238.76	240.89	240.89	241.02	0.004126	2.46	65.71	172.89	0.65
1	1742	Hazel	56.69	238.76	240.89	240.89	241	0.003892	2.38	64.57	172.59	0.63
1	1742	Hazel w CC	67.96	238.76	240.9	240.9	241.05	0.005091	2.74	66.91	173.24	0.72
1	1716	100 Year	59.73	238.55	239.74	239.74	240.03	0.012811	3.06	27.32	47.83	1.01
1	1716	Hazel	56.69	238.55	239.71	239.71	240	0.013493	3.07	25.83	44.4	1.03
1	1716	Hazel w CC	67.96	238.55	239.84	239.84	240.1	0.010599	2.97	32.87	64.73	0.93
1	1694	100 Year	59.73	238.22	239.57	239.4	239.66	0.002574	1.56	51.95	99.98	0.47
1	1694	Hazel	56.69	238.22	239.56	239.39	239.64	0.00257	1.54	50.21	99.57	0.46
1	1694	Hazel w CC	67.96	238.22	239.62	239.43	239.71	0.002575	1.6	56.54	101.02	0.47
1	1664	100 Year	59.73	237.66	239.3	239.3	239.5	0.010675	2.99	39.45	93.92	0.92
1	1664	Hazel	56.69	237.66	239.28	239.28	239.48	0.010726	2.96	37.85	89.67	0.92
1	1664	Hazel w CC	67.96	237.66	239.34	239.34	239.56	0.010714	3.07	43.61	102.77	0.92
1	1651	100 Year	59.73	237.37	238.92	238.59	239.03	0.002491	2.42	49.2	299.9	0.69
1	1651	Hazel	56.69	237.37	238.89	238.57	239	0.002495	2.39	47.37	298.68	0.69
1	1651	Hazel w CC	67.96	237.37	238.95	238.66	239.08	0.002862	2.64	51.3	300.44	0.74
1	1615	100 Year	59.73	236.95	238.94		238.95	0.000445	0.57	133.68	152.52	0.16
1	1615	Hazel	56.69	236.95	238.91		238.92	0.000432	0.55	130.45	152.39	0.16
1	1615	Hazel w CC	67.96	236.95	238.98		238.99	0.000522	0.62	137.95	152.68	0.17
1	1563	100 Year	59.73	236.79	238.93		238.94	0.000167	0.55	162.64	155.71	0.13
1	1563	Hazel	56.69	236.79	238.9		238.91	0.000159	0.53	160.06	155.51	0.13
1	1563	Hazel w CC	67.96	236.79	238.96		238.97	0.000204	0.62	165.9	155.96	0.14
1	1544	100 Year	79.27	236.79	238.9	237.59	238.93	0.000526	1.03	109.37	171.22	0.23
1	1544	Hazel	73.53	236.79	238.88	237.56	238.9	0.000471	0.96	108.01	170.97	0.22
1	1544	Hazel w CC	88.45	236.79	238.92	237.63	238.96	0.000624	1.13	111.01	171.53	0.25
1	1506	100 Year	79.27	236.59	238.69	238.69	238.83	0.004474	2.11	72.26	225.07	0.62
1	1506	Hazel	73.53	236.59	238.67	238.67	238.81	0.004321	2.05	68.47	221.09	0.61
1	1506	Hazel w CC	88.45	236.59	238.73	238.73	238.86	0.004347	2.12	80.81	231	0.61
1	4	Little Ave	Culvert									
1	1483	100 Year	79.27	236.45	238.38	238.38	238.52	0.005384	2.27	69.23	223.47	0.68
1	1483	Hazel	73.53	236.45	238.36	238.36	238.5	0.005216	2.22	65.95	220.95	0.67
1	1483	Hazel w CC	88.45	236.45	238.4	238.4	238.55	0.00564	2.36	74.28	228.79	0.7
1	1463	100 Year	79.27	236.48	238.02	238	238.23	0.004721	2.11	48.94	116.53	0.63
1	1463	Hazel	73.53	236.48	237.98	237.89	238.2	0.004926	2.1	44.33	109.93	0.64
1	1463	Hazel w CC	88.45	236.48	238.12		238.29	0.003679	1.97	61.24	133.01	0.57
1	1449	100 Year	79.27	236.36	238.02		238.13	0.003249	1.83	67.65	149.45	0.53
1	1449	Hazel	73.53	236.36	237.98		238.09	0.003386	1.83	61.79	140.79	0.54
1	1449	Hazel w CC	88.45	236.36	238.12		238.21	0.002619	1.73	82.4	162.11	0.48
1	1434	100 Year	79.27	236.4	238		238.07	0.002386	1.59	90.75	186.35	0.46
1	1434	Hazel	73.53	236.4	237.96		238.03	0.002455	1.57	83.18	179.34	0.46
1	1434	Hazel w CC	88.45	236.4	238.1		238.16	0.001901	1.49	110.27	201.55	0.41
1	1419	100 Year	79.27	236.14	237.98		238.04	0.001701	1.49	95.97	131.25	0.39
1	1419	Hazel	73.53	236.14	237.94		238	0.001672	1.45	91	123.26	0.39
1	1419	Hazel w CC	88.45	236.14	238.07		238.13	0.001594	1.5	110.21	152.93	0.38
1	1412	100 Year	79.27	236.13	237.87		238.01	0.002874	1.87	50.09	45.81	0.5
1	1412	Hazel	73.53	236.13	237.85		237.97	0.002662	1.78	48.87	45.53	0.48
1	1412	Hazel w CC	88.45	236.13	237.96		238.11	0.002841	1.94	54.11	46.71	0.5
1	1398	100 Year	79.27	235.97	237.85		237.97	0.002423	1.75	52.86	46.21	0.46
1	1398	Hazel	73.53	235.97	237.82		237.93	0.002225	1.66	51.73	46.02	0.44
1	1398	Hazel w CC	88.45	235.97	237.93		238.06	0.00241	1.81	56.94	46.99	0.46

1	1024	100 Year	79.27	233.92	237.67		237.7	0.000185	0.87	120.92	105.02	0.15
1	1024	Hazel	73.53	233.92	237.67		237.69	0.000158	0.81	120.53	104.17	0.14
1	1024	Hazel w CC	88.45	233.92	237.75		237.78	0.000202	0.93	130	122.25	0.16
1	1000	100 Year	79.27	233.16	237.62	235.62	237.69	0.000715	0.89	76.71	49.32	0.16
1	1000	Hazel	73.53	233.16	237.63	235.53	237.68	0.00061	0.82	76.88	49.45	0.15
1	1000	Hazel w CC	88.45	233.16	237.69	235.75	237.77	0.000762	0.93	80.01	52.26	0.17
1	982	100 Year	79.27	233.12	237.57	235.43	237.67	0.000999	1.45	66.33	49.7	0.24
1	982	Hazel	73.53	233.12	237.58	235.36	237.66	0.000845	1.34	66.84	50.76	0.22
1	982	Hazel w CC	88.45	233.12	237.63	235.56	237.75	0.001138	1.57	68.93	53.41	0.26
1	966	100 Year	76.06	232.95	237.55	235.6	237.65	0.001644	1.44	60.59	73.5	0.25
1	966	Hazel	75.64	232.95	237.55	235.6	237.64	0.001629	1.44	60.55	73.44	0.25
1	966	Hazel w CC	91.39	232.95	237.58	235.81	237.72	0.002237	1.69	61.94	77.31	0.29
1	946	100 Year	76.06	232.74	237.48	237.39	237.6	0.002089	1.83	67.41	161.52	0.43
1	946	Hazel	75.64	232.74	237.48	237.38	237.6	0.00209	1.83	67.03	161.49	0.43
1	946	Hazel w CC	91.39	232.74	237.54	237.44	237.67	0.002224	1.93	77.66	162.88	0.45
1	Young St	Culvert										
1	903	100 Year	76.06	231.89	236.79	236.79	236.94	0.002326	2.17	52.83	137.8	0.46
1	903	Hazel	75.64	231.89	236.8	236.8	236.94	0.002243	2.14	53.35	137.88	0.45
1	903	Hazel w CC	91.39	231.89	236.84	236.84	237	0.002542	2.3	58.74	138.72	0.49
1	875	100 Year	76.06	231.21	233.38	233.38	233.9	0.006246	2.69	25	26.98	0.64
1	875	Hazel	75.64	231.21	233.38	233.38	233.89	0.006302	2.7	24.84	26.95	0.65
1	875	Hazel w CC	91.39	231.21	233.52	233.52	234.1	0.005644	2.69	28.88	27.67	0.62
1	851	100 Year	76.06	230.62	233.16		233.36	0.002626	1.94	38.99	32.72	0.43
1	851	Hazel	75.64	230.62	233.16		233.36	0.002596	1.93	38.99	32.72	0.43
1	851	Hazel w CC	91.39	230.62	233.31		233.54	0.002553	2	43.89	33.59	0.43
1	832	100 Year	76.06	230.23	233.1		233.32	0.001491	1.32	40.78	28.26	0.28
1	832	Hazel	75.64	230.23	233.1		233.32	0.00147	1.31	40.82	28.26	0.28
1	832	Hazel w CC	91.39	230.23	233.21		233.49	0.001664	1.44	43.98	28.46	0.3
1	815	100 Year	76.06	229.6	232.93		233.27	0.004132	2.79	32.41	25.58	0.55
1	815	Hazel	75.64	229.6	232.94		233.27	0.004009	2.76	32.64	25.73	0.54
1	815	Hazel w CC	91.39	229.6	233.01		233.43	0.004985	3.13	34.5	26.59	0.6
1	803	100 Year	76.06	229.49	232.99		233.16	0.001741	2	46.09	25.32	0.39
1	803	Hazel	75.64	229.49	232.99		233.17	0.001706	1.99	46.26	25.37	0.38
1	803	Hazel w CC	91.39	229.49	233.07		233.3	0.002229	2.31	48.27	25.95	0.44
1	789	100 Year	76.06	229.44	233.06		233.09	0.000169	0.79	109.39	43.6	0.14
1	789	Hazel	75.64	229.44	233.07		233.1	0.000166	0.78	109.61	43.63	0.14
1	789	Hazel w CC	91.39	229.44	233.17		233.21	0.000215	0.91	114.21	44.86	0.16
1	773	100 Year	76.06	229.07	233.05	230.84	233.09	0.000195	0.85	100.53	52.57	0.15
1	773	Hazel	75.64	229.07	233.06	230.84	233.09	0.000191	0.85	100.81	52.78	0.15
1	773	Hazel w CC	91.39	229.07	233.16	230.97	233.2	0.000249	0.99	106.4	56.52	0.17
1	761	100 Year	76.06	228.95	233.04	230.64	233.08	0.000266	0.98	101.77	55.1	0.17
1	761	Hazel	75.64	228.95	233.05	230.64	233.09	0.000261	0.97	102.07	55.15	0.16
1	761	Hazel w CC	91.39	228.95	233.14	230.78	233.2	0.000341	1.13	107.51	56.11	0.19
1	752	100 Year	76.06	228.71	233.04	230.57	233.08	0.000319	1.06	99.92	47.5	0.17
1	752	Hazel	75.64	228.71	233.04	230.56	233.09	0.000313	1.05	100.18	47.56	0.17
1	752	Hazel w CC	91.39	228.71	233.14	230.72	233.2	0.000412	1.23	104.8	48.79	0.2
1	741	100 Year	76.06	228.39	232.95	230.78	233.07	0.000543	1.61	72.64	35.91	0.26
1	741	Hazel	75.64	228.39	232.96	230.77	233.07	0.000533	1.6	72.89	35.94	0.25
1	741	Hazel w CC	91.39	228.39	233.02	231	233.18	0.000729	1.89	75.16	36.21	0.3
1	725	100 Year	76.06	228.35	232.9	230.98	233.05	0.001279	1.8	57.51	62.52	0.3
1	725	Hazel	75.64	228.35	232.91	230.97	233.05	0.001253	1.78	57.78	62.61	0.3
1	725	Hazel w CC	91.39	228.35	232.94	231.22	233.15	0.001752	2.12	59.05	63.69	0.35

1	377	100 Year	78.35	221.27	223.23		223.4	0.00367	2.22	44.59	43.52	0.57
1	377	Hazel	79.58	221.27	223.24		223.41	0.00359	2.22	45.36	43.61	0.57
1	377	Hazel w CC	96.33	221.27	223.48		223.64	0.002751	2.14	55.99	44.97	0.51
1	349	100 Year	78.35	220.86	223.17		223.31	0.001963	1.99	50.31	38.39	0.44
1	349	Hazel	79.58	220.86	223.19		223.33	0.001943	1.99	51.01	38.47	0.44
1	349	Hazel w CC	96.33	220.86	223.44		223.58	0.001682	2	60.6	39.4	0.42
1	325	100 Year	78.35	220.55	223.13		223.26	0.001639	1.92	49.72	32.02	0.4
1	325	Hazel	79.58	220.55	223.15		223.28	0.001631	1.92	50.3	32.07	0.4
1	325	Hazel w CC	96.33	220.55	223.39		223.53	0.001537	1.99	58.11	32.74	0.4
1	308	100 Year	78.35	220.49	222.73	222.53	223.17	0.006066	3.4	27.99	20.43	0.76
1	308	Hazel	79.58	220.49	222.75	222.54	223.19	0.006039	3.41	28.32	20.5	0.76
1	308	Hazel w CC	96.33	220.49	222.98	222.72	223.44	0.005573	3.51	33.08	21.38	0.74
1	293	100 Year	78.35	220.34	222.41	222.41	223.03	0.008721	3.89	23.94	19.12	0.92
1	293	Hazel	79.58	220.34	222.42	222.42	223.05	0.008728	3.91	24.19	19.16	0.92
1	293	Hazel w CC	96.33	220.34	222.6	222.6	223.3	0.008727	4.15	27.61	19.69	0.93
1	269	100 Year	78.35	219.97	222.4		222.58	0.002712	2.28	44.76	31.7	0.52
1	269	Hazel	79.58	219.97	222.42		222.6	0.002689	2.28	45.35	31.76	0.52
1	269	Hazel w CC	96.33	219.97	222.55		222.77	0.002983	2.51	49.67	32.21	0.55
1	253	100 Year	78.35	219.89	222.38		222.52	0.002047	2.07	50.21	34.23	0.45
1	253	Hazel	79.58	219.89	222.4		222.54	0.002032	2.08	50.86	34.34	0.44
1	253	Hazel w CC	96.33	219.89	222.54		222.71	0.002282	2.29	55.57	35.93	0.48
1	230	100 Year	78.35	219.65	222.34	221.87	222.46	0.002015	1.67	51.33	47.06	0.42
1	230	Hazel	79.58	219.65	222.36	221.88	222.48	0.001962	1.66	52.28	47.37	0.41
1	230	Hazel w CC	96.33	219.65	222.5	221.98	222.63	0.001984	1.76	58.8	49.56	0.42
1	The Blvd		Culvert									
1	213	100 Year	78.35	219.57	221.63	221.63	221.98	0.006643	2.24	33.62	51.89	0.72
1	213	Hazel	79.58	219.57	221.64	221.64	221.99	0.006598	2.25	34.07	51.96	0.72
1	213	Hazel w CC	96.33	219.57	221.74	221.74	222.13	0.006362	2.36	39.41	52.9	0.72
1	200	100 Year	78.35	219.16	220.93		221.02	0.005856	1.86	65.91	230.69	0.54
1	200	Hazel	79.58	219.16	220.94		221.03	0.005595	1.83	67.69	231.17	0.53
1	200	Hazel w CC	96.33	219.16	221.01		221.11	0.005822	1.94	77.67	232.68	0.55
1	183	100 Year	78.32	219.21	220.65	220.65	220.85	0.01584	2.71	45.34	180.98	0.85
1	183	Hazel	80.29	219.21	220.65	220.65	220.86	0.017039	2.8	44.96	180.7	0.89
1	183	Hazel w CC	97.25	219.21	220.71	220.71	220.93	0.016753	2.89	51.61	182.53	0.89
1	169	100 Year	78.32	218.93	219.95	219.82	220	0.004115	1.21	77.77	216.57	0.5
1	169	Hazel	80.29	218.93	219.97	219.82	220.02	0.00364	1.16	82.14	218.09	0.47
1	169	Hazel w CC	97.25	218.93	220	219.85	220.06	0.004167	1.26	88.84	219.33	0.51
1	Brennan Ave		Culvert									
1	152	100 Year	78.32	218.7	219.93	219.82	219.99	0.003088	1.23	72.55	226.47	0.45
1	152	Hazel	80.29	218.7	219.94	219.82	220	0.002984	1.22	74.66	227.9	0.44
1	152	Hazel w CC	97.25	218.7	219.99	219.86	220.06	0.002805	1.2	86.9	234.83	0.43
1	120	100 Year	78.32	218.89	219.76		219.83	0.008611	1.77	71.55	201.42	0.74
1	120	Hazel	80.29	218.89	219.77		219.84	0.008647	1.79	72.89	203.02	0.74
1	120	Hazel w CC	97.25	218.89	219.82		219.9	0.008994	1.92	85.1	238.81	0.76
1	107	100 Year	78.32	218.87	219.79		219.8	0.000069	0.18	227.16	388.64	0.07
1	107	Hazel	80.29	218.87	219.8		219.81	0.00007	0.18	229.89	391.77	0.07
1	107	Hazel w CC	97.25	218.87	219.86		219.86	0.000078	0.2	253.16	406.86	0.07
1	80	100 Year	78.32	218.7	219.76		219.79	0.002543	0.52	112.51	289.04	0.19
1	80	Hazel	80.29	218.7	219.77		219.8	0.002554	0.53	114.45	293.64	0.19
1	80	Hazel w CC	97.25	218.7	219.83		219.86	0.002598	0.56	131.55	314.69	0.2
1	62	100 Year	78.32	218.72	219.67		219.73	0.003806	1.18	72.17	196.44	0.52

1	62	Hazel	80.29	218.72	219.67		219.73	0.003866	1.19	73.13	198.29	0.52
1	62	Hazel w CC	97.25	218.72	219.72		219.79	0.004141	1.28	82.94	217.01	0.54
1	44	100 Year	78.32	218.71	219.62		219.65	0.003222	1.12	101.33	317.38	0.43
1	44	Hazel	80.29	218.71	219.62		219.66	0.003267	1.14	102.72	321.3	0.44
1	44	Hazel w CC	97.25	218.71	219.67		219.71	0.003247	1.17	119.25	354.57	0.43
1	30	100 Year	78.32	218.73	219.58		219.6	0.003991	1.19	134.2	422.21	0.45
1	30	Hazel	80.29	218.73	219.58		219.6	0.004061	1.21	135.77	423.94	0.46
1	30	Hazel w CC	97.25	218.73	219.63		219.65	0.003977	1.25	157.15	432.34	0.46
1	16	100 Year	78.32	218.65	219.37	219.37	219.48	0.020608	2.66	68.5	315.98	1.2
1	16	Hazel	80.29	218.65	219.38	219.38	219.48	0.020006	2.64	70.65	317.5	1.19
1	16	Hazel w CC	97.25	218.65	219.4	219.4	219.52	0.023211	2.91	77.53	327.3	1.28
1	11	100 Year	78.32	217.3	219.13	217.46	219.13	0.000007	0.11	699.43	382.26	0.03
1	11	Hazel	80.29	217.3	219.13	217.47	219.13	0.000007	0.12	699.43	382.26	0.03
1	11	Hazel w CC	97.25	217.3	219.13	217.49	219.13	0.000011	0.14	699.43	382.26	0.03

Whiskey Creek - Calibration -50% Expansion / Contraction

Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
			(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
1	6450	100 Year	14.25	297.18	298.04	298.04	298.36	0.013017	2.54	5.86	9.65	0.97
1	6450	Hazel	12.15	297.18	297.97	297.97	298.26	0.013504	2.42	5.22	9.39	0.97
1	6450	Hazel w CC	14.7	297.18	298.05	298.05	298.38	0.01288	2.56	6	9.71	0.97
1	6427	100 Year	14.25	296	297.9		297.98	0.001291	1.42	12.85	13.17	0.35
1	6427	Hazel	12.15	296	297.87		297.93	0.001018	1.25	12.45	12.93	0.31
1	6427	Hazel w CC	14.7	296	297.9		297.99	0.001362	1.47	12.89	13.2	0.36
1	6398	100 Year	14.25	295.42	297.95		297.96	0.000108	0.53	37.89	27.95	0.11
1	6398	Hazel	12.15	295.42	297.91		297.92	0.000086	0.47	36.69	27.54	0.1
1	6398	Hazel w CC	14.7	295.42	297.96		297.97	0.000114	0.54	38.06	28.01	0.11
1	6365	100 Year	14.25	295.1	297.96		297.96	0.000014	0.21	81.49	39.56	0.04
1	6365	Hazel	12.15	295.1	297.91		297.91	0.000011	0.18	79.74	39.28	0.04
1	6365	Hazel w CC	14.7	295.1	297.96		297.97	0.000014	0.22	81.74	39.6	0.04
1	6330	100 Year	14.25	295.11	297.96		297.96	0.00001	0.18	88.04	40.68	0.03
1	6330	Hazel	12.15	295.11	297.91		297.91	0.000008	0.16	86.25	40.14	0.03
1	6330	Hazel w CC	14.7	295.11	297.96		297.96	0.000011	0.19	88.3	40.8	0.04
1	6295	100 Year	14.25	295.1	297.96		297.96	0.000009	0.17	95.14	45.84	0.03
1	6295	Hazel	12.15	295.1	297.91		297.91	0.000007	0.15	93.13	44.77	0.03
1	6295	Hazel w CC	14.7	295.1	297.96		297.96	0.000009	0.17	95.43	46	0.03
1	6248	100 Year	14.25	295.14	297.95	297.48	297.96	0.000354	0.45	35.16	55.4	0.16
1	6248	Hazel	12.15	295.14	297.9	296.7	297.91	0.00032	0.41	32.81	54.85	0.15
1	6248	Hazel w CC	14.7	295.14	297.95	297.48	297.96	0.000366	0.46	35.49	55.48	0.17
1	Pond Berm	Culvert										
1	6203	100 Year	14.25	292.86	297.52	294.62	297.59	0.000716	1.24	19.11	60.82	0.27
1	6203	Hazel	12.15	292.86	297.49	294.43	297.55	0.000586	1.12	17.44	60.62	0.25
1	6203	Hazel w CC	14.7	292.86	297.52	294.65	297.59	0.000747	1.27	19.4	60.85	0.28
1	6173	100 Year	14.25	291.99	297.57	293.31	297.57	0.000001	0.1	185.6	56.85	0.01
1	6173	Hazel	12.15	291.99	297.53	293.27	297.53	0.000001	0.09	183.59	56.58	0.01
1	6173	Hazel w CC	14.7	291.99	297.58	293.31	297.58	0.000002	0.1	185.97	56.9	0.01
1	6142	100 Year	14.25	291.69	297.57	292.81	297.57	0.000001	0.11	213.72	65.34	0.01
1	6142	Hazel	12.15	291.69	297.53	292.77	297.53	0.000001	0.09	211.41	64.97	0.01
1	6142	Hazel w CC	14.7	291.69	297.58	292.82	297.58	0.000002	0.11	214.16	65.44	0.01
1	6120	100 Year	14.25	291.35	297.57	292.31	297.57	0.000001	0.06	406.2	252.19	0.01
1	6120	Hazel	12.15	291.35	297.53	292.25	297.53	0	0.06	402.44	250.92	0.01
1	6120	Hazel w CC	14.7	291.35	297.58	292.32	297.58	0.000001	0.07	406.9	252.65	0.01
1	6102	100 Year	14.25	291.08	297.57	291.89	297.57	0	0.05	489.85	269.58	0.01
1	6102	Hazel	12.15	291.08	297.53	291.85	297.53	0	0.05	485.76	269.1	0.01
1	6102	Hazel w CC	14.7	291.08	297.58	291.89	297.58	0	0.06	490.62	269.66	0.01
1	6094	100 Year	14.25	291.03	297.57	291.88	297.57	0	0.05	503.59	118.57	0.01
1	6094	Hazel	12.15	291.03	297.53	291.84	297.53	0	0.04	499.39	118.19	0.01
1	6094	Hazel w CC	14.7	291.03	297.58	291.89	297.58	0	0.05	504.38	118.64	0.01
1	6063	100 Year	14.25	290.67	297.57	291.32	297.57	0	0.06	458.84	105.17	0.01
1	6063	Hazel	12.15	290.67	297.53	291.28	297.53	0	0.05	455.12	104.85	0.01
1	6063	Hazel w CC	14.7	290.67	297.58	291.32	297.58	0	0.06	459.54	105.24	0.01
1	6039	100 Year	14.25	290.45	297.57	291.05	297.57	0	0.06	409.95	97.43	0.01
1	6039	Hazel	12.15	290.45	297.53	291.01	297.53	0	0.05	406.5	97.1	0.01
1	6039	Hazel w CC	14.7	290.45	297.58	291.06	297.58	0	0.06	410.59	97.49	0.01
1	6013	100 Year	14.25	290.29	297.46	293.09	297.56	0.003832	1.45	16.12	80.53	0.54
1	6013	Hazel	12.15	290.29	297.44	292.81	297.52	0.003385	1.34	14.25	80.31	0.5

1	6013	Hazel w CC	14.7	290.29	297.45	293.16	297.56	0.004521	1.56	15.13	80.42	0.58
1	Pond Berm Harvie		Culvert									
1	5942	100 Year	14.25	288.29	291.17	291.17	292.54	0.008566	5.19	2.75	33.56	1
1	5942	Hazel	12.15	288.29	290.89	290.89	292.13	0.008937	4.93	2.47	31.08	1
1	5942	Hazel w CC	14.7	288.29	291.22	291.22	292.63	0.008584	5.25	2.8	34	1
1	5897	100 Year	14.25	287.64	290.65		290.65	0.000015	0.22	86.26	44.04	0.04
1	5897	Hazel	12.15	287.64	290.47		290.47	0.000014	0.2	78.42	43.18	0.04
1	5897	Hazel w CC	14.7	287.64	290.59		290.59	0.000017	0.23	83.41	43.72	0.04
1	5863	100 Year	14.25	287.4	290.65		290.65	0.000008	0.17	115.98	49.84	0.03
1	5863	Hazel	12.15	287.4	290.47		290.47	0.000007	0.16	107.09	49.07	0.03
1	5863	Hazel w CC	14.7	287.4	290.59		290.59	0.000009	0.18	112.76	49.55	0.03
1	5810	100 Year	14.25	286.75	290.65		290.65	0.000007	0.19	133.12	60.46	0.03
1	5810	Hazel	12.15	286.75	290.47		290.47	0.000007	0.17	122.48	57.82	0.03
1	5810	Hazel w CC	14.7	286.75	290.59		290.59	0.000009	0.2	129.22	59.73	0.03
1	5777	100 Year	14.25	286.04	290.65		290.65	0.000002	0.09	281.17	158.75	0.01
1	5777	Hazel	12.15	286.04	290.47		290.47	0.000002	0.08	252.79	156.31	0.01
1	5777	Hazel w CC	14.7	286.04	290.59		290.59	0.000002	0.09	270.9	158.12	0.01
1	5762	100 Year	14.25	285.94	290.65		290.65	0.000001	0.09	314.87	136.16	0.01
1	5762	Hazel	12.15	285.94	290.47		290.47	0.000001	0.08	290.56	134.29	0.01
1	5762	Hazel w CC	14.7	285.94	290.59		290.59	0.000002	0.09	306.07	135.42	0.01
1	5739	100 Year	14.25	285.24	290.65		290.65	0.000001	0.07	333.66	120.45	0.01
1	5739	Hazel	12.15	285.24	290.47		290.47	0.000001	0.07	312.12	119.18	0.01
1	5739	Hazel w CC	14.7	285.24	290.59		290.59	0.000001	0.08	325.87	119.95	0.01
1	5722	100 Year	14.25	285.11	290.65		290.65	0.000001	0.06	337.33	119.18	0.01
1	5722	Hazel	12.15	285.11	290.47		290.47	0.000001	0.06	316.1	116.71	0.01
1	5722	Hazel w CC	14.7	285.11	290.59		290.59	0.000001	0.07	329.63	118.51	0.01
1	5704	100 Year	25.59	284.81	290.65		290.65	0.000003	0.1	354.27	125.84	0.01
1	5704	Hazel	20.14	284.81	290.47		290.47	0.000003	0.08	331.97	122.52	0.01
1	5704	Hazel w CC	24.34	284.81	290.59		290.59	0.000003	0.1	346.16	124.69	0.01
1	5682	100 Year	25.59	284.5	290.65		290.65	0.000003	0.15	346.16	105.83	0.02
1	5682	Hazel	20.14	284.5	290.47		290.47	0.000002	0.12	327.6	101.22	0.02
1	5682	Hazel w CC	24.34	284.5	290.59		290.59	0.000003	0.14	339.37	104.28	0.02
1	5648	100 Year	25.59	284.37	290.65	287.18	290.65	0.000001	0.07	659.38	229.78	0.01
1	5648	Hazel	20.14	284.37	290.47	286.58	290.47	0.000001	0.06	618.18	228.59	0.01
1	5648	Hazel w CC	24.34	284.37	290.59	287.17	290.59	0.000001	0.07	644.5	229.49	0.01
1	Harview 400 Ramp		Culvert									
1	5599	100 Year	25.59	283.8	290.64		290.64	0.000003	0.13	295.04	111.61	0.02
1	5599	Hazel	20.14	283.8	290.47		290.47	0.000002	0.11	276.16	110.03	0.02
1	5599	Hazel w CC	24.34	283.8	290.59		290.59	0.000003	0.13	288.84	111.28	0.02
1	5579	100 Year	32.58	283.74	290.64		290.64	0.000011	0.34	116.3	22.68	0.04
1	5579	Hazel	24.37	283.74	290.47		290.47	0.000007	0.26	112.66	19.99	0.03
1	5579	Hazel w CC	29.41	283.74	290.58		290.59	0.000001	0.31	115.07	22.1	0.04
1	5548	100 Year	32.58	283.51	290.58	285.55	290.64	0.000206	1.12	46.78	121.83	0.16
1	5548	Hazel	24.37	283.51	290.43	285.22	290.47	0.000138	0.9	29.84	105.95	0.13
1	5548	Hazel w CC	29.41	283.51	290.53	285.42	290.58	0.000179	1.04	41.14	119.09	0.15
1	Highway 400		Culvert									
1	5300	100 Year	32.58	280.17	287.7	282.22	287.77	0.000108	1.1	29.51	118.5	0.13
1	5300	Hazel	24.37	280.17	283.96	281.89	284.1	0.000643	1.68	14.53	81.21	0.28
1	5300	Hazel w CC	29.41	280.17	286.16	282.1	286.24	0.000193	1.26	23.32	108.76	0.17
1	5248	100 Year	32.58	279.5	287.76	280.42	287.76	0.000001	0.1	574.21	126.53	0.01

1	5248	Hazel	24.37	279.5	284.08	280.31	284.08	0.000005	0.16	245.13	93.31	0.03
1	5248	Hazel w CC	29.41	279.5	286.23	280.37	286.23	0.000002	0.12	425.81	109.93	0.02
1	5194	100 Year	32.58	279.07	287.66	281.52	287.74	0.000119	1.29	25.29	146.73	0.14
1	5194	Hazel	24.37	279.07	283.9	281.12	284.05	0.000477	1.74	14.02	93.78	0.26
1	5194	Hazel w CC	29.41	279.07	286.11	281.37	286.21	0.000191	1.43	20.63	128.31	0.17
1		Fairview Rd	Culvert									
1	5098	100 Year	32.58	277.95	280.29	280.29	281.44	0.009239	4.75	6.86	61.61	1
1	5098	Hazel	24.37	277.95	279.89	279.89	280.83	0.009838	4.31	5.65	50.81	1
1	5098	Hazel w CC	29.41	277.95	280.13	280.13	281.21	0.009484	4.6	6.4	58.24	1.01
1	5044	100 Year	32.58	277.86	280.64		280.65	0.000078	0.48	102.85	59.55	0.09
1	5044	Hazel	24.37	277.86	280.5		280.5	0.000054	0.38	94.57	57.35	0.08
1	5044	Hazel w CC	29.41	277.86	280.59		280.6	0.000068	0.44	100.07	59.09	0.09
1	4960	100 Year	32.58	277.26	280.54	279.11	280.62	0.000771	1.51	41.1	63.87	0.3
1	4960	Hazel	24.37	277.26	280.42	278.82	280.48	0.000607	1.3	33.66	57.96	0.26
1	4960	Hazel w CC	29.41	277.26	280.5	279	280.58	0.000699	1.43	38.71	62.44	0.28
1	5	Rail Line S	Culvert									
1	4933	100 Year	32.58	277.35	279.09	279.09	279.91	0.010545	4	8.14	39.67	1
1	4933	Hazel	24.37	277.35	278.81	278.81	279.48	0.011113	3.62	6.74	38.72	1
1	4933	Hazel w CC	29.41	277.35	278.99	278.99	279.75	0.010721	3.86	7.62	39.31	1
1	4875	100 Year	32.58	276.28	277.31	277.31	277.68	0.01359	2.86	12.48	17.71	1.02
1	4875	Hazel	24.37	276.28	277.18	277.18	277.49	0.014295	2.61	10.2	17.25	1.02
1	4875	Hazel w CC	29.41	276.28	277.27	277.27	277.61	0.013799	2.77	11.63	17.55	1.02
1	4845	100 Year	32.58	276.04	276.87	276.87	277.19	0.014381	2.67	13.16	20.74	1.03
1	4845	Hazel	24.37	276.04	276.75	276.75	277.02	0.015249	2.43	10.76	20.27	1.02
1	4845	Hazel w CC	29.41	276.04	276.82	276.82	277.13	0.014642	2.58	12.27	20.58	1.02
1	4812	100 Year	32.58	275.41	276.02	276.02	276.27	0.016296	2.23	15.03	31.21	0.98
1	4812	Hazel	24.37	275.41	275.92	275.92	276.14	0.018622	2.07	12	30.08	1.02
1	4812	Hazel w CC	29.41	275.41	275.99	275.99	276.22	0.016589	2.15	14.02	30.98	0.98
1	4766	100 Year	32.58	273.63	274.92	274.92	275.23	0.010769	2.98	14.26	22.47	0.94
1	4766	Hazel	24.37	273.63	274.81	274.81	275.07	0.010145	2.69	11.92	21.67	0.89
1	4766	Hazel w CC	29.41	273.63	274.88	274.88	275.17	0.010456	2.87	13.43	22.18	0.92
1	4725	100 Year	32.58	273.3	274.04	274.04	274.35	0.014583	2.51	13.44	22.3	0.99
1	4725	Hazel	24.37	273.3	273.92	273.92	274.19	0.015599	2.29	10.93	21.59	0.99
1	4725	Hazel w CC	29.41	273.3	274	274	274.29	0.014782	2.42	12.53	22.05	0.98
1	4688	100 Year	32.58	272.68	273.86		273.95	0.002115	1.38	25.7	27.78	0.42
1	4688	Hazel	24.37	272.68	273.77		273.83	0.001592	1.13	23.3	27.13	0.36
1	4688	Hazel w CC	29.41	272.68	273.87		273.94	0.001687	1.24	25.87	27.83	0.38
1	4655	100 Year	32.58	272.24	273.85		273.9	0.000912	1.1	34.88	31.99	0.29
1	4655	Hazel	24.37	272.24	273.77		273.8	0.000651	0.9	32.19	31.2	0.24
1	4655	Hazel w CC	29.41	272.24	273.86		273.9	0.000725	0.99	35.17	32.07	0.26
1	4631	100 Year	32.66	271.61	273.64	273.29	273.85	0.003339	2.28	18.56	22.11	0.56
1	4631	Hazel	27.16	271.61	273.61	273.16	273.76	0.002548	1.96	17.84	21.06	0.49
1	4631	Hazel w CC	32.93	271.61	273.64	273.29	273.85	0.003399	2.3	18.55	22.09	0.57
1	4609	100 Year	32.66	272.02	273.59	273.56	273.74	0.006135	2.24	23.83	53.79	0.7
1	4609	Hazel	27.16	272.02	273.52	273.52	273.67	0.006719	2.25	20.14	50.84	0.72
1	4609	Hazel w CC	32.93	272.02	273.57	273.57	273.74	0.007203	2.4	22.62	52.51	0.75
1		Bayview Dr	Culvert									
1	4559	100 Year	32.66	270.35	273.24	273.24	273.39	0.004183	1.99	29.82	96.61	0.6
1	4559	Hazel	27.16	270.35	272.3	272.3	273.14	0.010512	4.05	6.71	40.76	1
1	4559	Hazel w CC	32.93	270.35	273.25	273.25	273.39	0.003992	1.95	30.74	96.61	0.58

1	4531	100 Year	32.66	270.13	270.92	270.92	271.11	0.014768	2.68	20.18	47.87	1.03
1	4531	Hazel	27.16	270.13	270.87	270.87	271.04	0.014986	2.56	17.68	47.36	1.03
1	4531	Hazel w CC	32.93	270.13	270.92	270.92	271.11	0.015245	2.71	20.08	47.85	1.05
1	4503	100 Year	32.66	268.98	270.51	270.51	270.71	0.00818	2.53	24.61	62.45	0.79
1	4503	Hazel	27.16	268.98	270.45	270.45	270.64	0.008127	2.42	20.86	60.59	0.78
1	4503	Hazel w CC	32.93	268.98	270.52	270.52	270.71	0.008177	2.53	24.8	62.53	0.79
1	4478	100 Year	32.66	268.9	270.12	270.12	270.28	0.00975	2.39	24.67	82.98	0.84
1	4478	Hazel	27.16	268.9	270.07	270.07	270.23	0.010012	2.32	20.57	80.33	0.85
1	4478	Hazel w CC	32.93	268.9	270.13	270.13	270.28	0.009747	2.4	24.85	83.13	0.84
1	4451	100 Year	32.66	268.81	269.62	269.62	269.87	0.021487	2.93	15.49	45.75	1.2
1	4451	Hazel	27.16	268.81	269.61	269.57	269.79	0.015343	2.46	15.32	44.32	1.01
1	4451	Hazel w CC	32.93	268.81	269.61	269.61	269.87	0.022162	2.97	15.41	45.1	1.21
1	4430	100 Year	32.66	268.56	269.22	269.22	269.37	0.024253	1.68	21.64	88.05	0.74
1	4430	Hazel	27.16	268.56	269.14	269.14	269.32	0.037726	1.85	15.13	81.08	0.9
1	4430	Hazel w CC	32.93	268.56	269.23	269.23	269.37	0.02421	1.68	21.82	88.07	0.74
1	4407	100 Year	32.66	267.83	268.65	268.65	268.8	0.017761	2.87	24.02	80.08	1.12
1	4407	Hazel	27.16	267.83	268.61	268.61	268.75	0.017014	2.7	21.03	78.82	1.09
1	4407	Hazel w CC	32.93	267.83	268.65	268.65	268.81	0.017823	2.88	24.15	80.12	1.12
1	4392	100 Year	32.66	267.64	268.25	268.25	268.42	0.020292	2.41	23.79	69.18	1.11
1	4392	Hazel	27.16	267.64	268.22	268.22	268.37	0.019251	2.23	21.4	68.66	1.07
1	4392	Hazel w CC	32.93	267.64	268.26	268.26	268.42	0.020384	2.42	23.89	69.23	1.11
1	4375	100 Year	32.66	267.3	268.18		268.21	0.003153	1	43.28	75.29	0.35
1	4375	Hazel	27.16	267.3	268.05		268.09	0.004432	1.06	33.99	70.05	0.4
1	4375	Hazel w CC	32.93	267.3	268.18		268.22	0.003094	1	43.81	75.57	0.35
1	4347	100 Year	32.66	266.89	268.18		268.19	0.000293	0.56	75.81	81.81	0.16
1	4347	Hazel	27.16	266.89	268.05		268.06	0.000314	0.53	65.53	80.29	0.16
1	4347	Hazel w CC	32.93	266.89	268.18		268.2	0.000291	0.56	76.38	81.95	0.16
1	4245	100 Year	32.66	266.94	268.17		268.18	0.000141	0.27	67.56	117.07	0.09
1	4245	Hazel	27.16	266.94	268.04		268.05	0.000224	0.31	52.35	113.1	0.11
1	4245	Hazel w CC	32.93	266.94	268.18		268.19	0.000137	0.27	68.39	117.18	0.09
1	4146	100 Year	32.66	266.63	268.17		268.18	0.00002	0.12	148.38	211.78	0.04
1	4146	Hazel	27.16	266.63	268.04		268.04	0.000028	0.13	120.47	209.44	0.04
1	4146	Hazel w CC	32.93	266.63	268.18		268.18	0.00002	0.12	149.89	211.91	0.03
1	4042	100 Year	32.66	266.23	268.18		268.18	0.000005	0.07	260.24	310.01	0.02
1	4042	Hazel	27.16	266.23	268.04		268.04	0.000006	0.07	219.96	300.88	0.02
1	4042	Hazel w CC	32.93	266.23	268.18		268.18	0.000005	0.07	262.46	310.85	0.02
1	4008	100 Year	32.66	266.33	268.18		268.18	0.000002	0.05	337	314.07	0.01
1	4008	Hazel	27.16	266.33	268.04		268.04	0.000002	0.04	296.57	299.03	0.01
1	4008	Hazel w CC	32.93	266.33	268.18		268.18	0.000002	0.05	339.24	314.35	0.01
1	3969	100 Year	32.66	266.13	268.12	267.69	268.17	0.000585	0.86	33.88	39.37	0.21
1	3969	Hazel	27.16	266.13	267.99	267.62	268.04	0.000697	0.89	28.83	39.02	0.23
1	3969	Hazel w CC	32.93	266.13	268.13	267.69	268.18	0.000578	0.86	34.16	39.39	0.21
1	3927	100 Year	32.66	265.97	268.1	267.32	268.15	0.000472	0.78	37.33	40.87	0.19
1	3927	Hazel	27.16	265.97	267.97	267.2	268.01	0.000551	0.79	31.96	39.9	0.2
1	3927	Hazel w CC	32.93	265.97	268.11	267.33	268.15	0.000468	0.77	37.63	40.9	0.19
1	3887.475	100 Year	32.66	265.84	268.01	267.21	268.11	0.002087	1.49	29.88	48.55	0.36
1	3887.475	Hazel	27.16	265.84	267.86	267.08	267.97	0.002271	1.47	23.01	46.15	0.37
1	3887.475	Hazel w CC	32.93	265.84	268.02	267.22	268.12	0.002066	1.49	30.3	48.57	0.36
1	3849	100 Year	32.66	265.87	267.86	267.24	268.02	0.002674	1.81	23.49	37.84	0.45
1	3849	Hazel	27.16	265.87	267.72	267.12	267.87	0.002825	1.75	18.08	34.83	0.45
1	3849	Hazel w CC	32.93	265.87	267.87	267.24	268.02	0.002641	1.8	23.87	38	0.44
1	3743	100 Year	32.66	265.41	266.85	266.85	267.35	0.024951	3.13	10.42	10.4	1

1	3743	Hazel	27.16	265.41	266.71	266.71	267.18	0.025179	3.01	9.02	9.92	1.01
1	3743	Hazel w CC	32.93	265.41	266.86	266.86	267.36	0.024609	3.12	10.55	10.44	0.99
1	3658	100 Year	32.66	262.24	264.92		265.05	0.003256	1.59	23.05	23.57	0.38
1	3658	Hazel	27.16	262.24	264.78		264.88	0.003058	1.45	20.01	18.67	0.36
1	3658	Hazel w CC	32.93	262.24	264.93		265.05	0.003266	1.59	23.2	23.68	0.38
1	3626	100 Year	32.66	262.12	263.31	263.31	263.66	0.013923	2.69	14.11	23.25	0.95
1	3626	Hazel	27.16	262.12	263.22	263.22	263.54	0.014364	2.55	12.05	22.07	0.96
1	3626	Hazel w CC	32.93	262.12	263.31	263.31	263.66	0.013895	2.69	14.21	23.3	0.95
1	3607	100 Year	32.66	261.57	262.9	262.9	263.18	0.015346	2.41	15.69	35.37	0.92
1	3607	Hazel	27.16	261.57	262.83	262.83	263.09	0.015475	2.28	13.32	31.64	0.92
1	3607	Hazel w CC	32.93	261.57	262.91	262.91	263.18	0.015272	2.41	15.83	35.46	0.92
1	3587	100 Year	32.66	260.22	262.33	262.33	262.56	0.005474	2.57	21.93	48.97	0.64
1	3587	Hazel	27.16	260.22	262.27	262.27	262.48	0.004921	2.38	19.13	45.74	0.61
1	3587	Hazel w CC	32.93	260.22	262.33	262.33	262.57	0.005463	2.57	22.14	49.09	0.64
1	3559	100 Year	32.66	259.8	261.74	261.74	261.94	0.006328	2.49	27.45	63.01	0.7
1	3559	Hazel	27.16	259.8	261.68	261.68	261.87	0.005966	2.34	23.85	60.12	0.68
1	3559	Hazel w CC	32.93	259.8	261.74	261.74	261.94	0.006341	2.49	27.62	63.05	0.7
1	3525	100 Year	32.66	259.18	261.11	261.11	261.3	0.005379	2.44	23.97	63.34	0.65
1	3525	Hazel	27.16	259.18	260.94	260.94	261.22	0.007821	2.71	14.36	43.55	0.77
1	3525	Hazel w CC	32.93	259.18	261.11	261.11	261.31	0.005391	2.45	24.14	63.37	0.65
1	3495	100 Year	32.66	258.93	260.64	260.64	260.92	0.008865	2.83	21.88	46.08	0.84
1	3495	Hazel	27.16	258.93	260.6	260.6	260.83	0.007305	2.51	20.25	44.55	0.76
1	3495	Hazel w CC	32.93	258.93	260.64	260.64	260.92	0.008811	2.83	22.1	46.38	0.84
1	3479	100 Year	32.66	258.96	260.28		260.48	0.006196	2.3	23.96	36.7	0.71
1	3479	Hazel	27.16	258.96	260.21		260.37	0.005413	2.05	21.49	33.04	0.65
1	3479	Hazel w CC	32.93	258.96	260.29		260.49	0.006207	2.31	24.09	36.76	0.71
1	3445	100 Year	32.66	258.79	259.97	259.97	260.23	0.009072	2.7	20.15	38.92	0.86
1	3445	Hazel	27.16	258.79	259.9	259.9	260.14	0.008727	2.53	17.6	38.45	0.84
1	3445	Hazel w CC	32.93	258.79	259.97	259.97	260.23	0.009095	2.7	20.26	38.94	0.86
1	3425	100 Year	32.66	258.51	259.88		259.95	0.003633	1.66	39.37	68.05	0.54
1	3425	Hazel	27.16	258.51	259.78		259.85	0.004252	1.66	32.1	65.28	0.57
1	3425	Hazel w CC	32.93	258.51	259.86		259.94	0.004123	1.74	37.85	67.87	0.57
1	3409	100 Year	32.66	258.25	259.78		259.89	0.003604	1.92	32.37	57.47	0.56
1	3409	Hazel	27.16	258.25	259.64		259.77	0.004526	1.99	24.79	54.06	0.61
1	3409	Hazel w CC	32.93	258.25	259.72		259.86	0.004676	2.12	29.12	55.81	0.63
1	3392	100 Year	55.85	258.06	259.48	259.48	259.76	0.011334	3.21	33.04	59.5	0.97
1	3392	Hazel	43.65	258.06	259.4	259.4	259.64	0.010214	2.9	28.37	58.86	0.91
1	3392	Hazel w CC	51.91	258.06	259.46	259.46	259.72	0.010991	3.11	31.6	59.33	0.95
1	3378	100 Year	55.85	258.03	259.41		259.55	0.006718	2.55	43.53	65.68	0.75
1	3378	Hazel	43.65	258.03	259.3		259.43	0.007041	2.43	36.02	64.9	0.76
1	3378	Hazel w CC	51.91	258.03	259.37		259.51	0.006967	2.53	40.85	65.37	0.76
1	3356	100 Year	55.85	257.67	259.09	259.09	259.35	0.012941	3.38	31.59	60.44	1.02
1	3356	Hazel	43.65	257.67	259.03	259.03	259.24	0.010873	2.99	27.98	59.44	0.93
1	3356	Hazel w CC	51.91	257.67	259.08	259.08	259.31	0.011698	3.2	31.06	60.36	0.97
1	3338	100 Year	55.85	257.6	259.03		259.16	0.005787	2.39	40.1	59.09	0.7
1	3338	Hazel	43.65	257.6	258.93		259.04	0.00557	2.2	34	58.04	0.67
1	3338	Hazel w CC	51.91	257.6	259		259.12	0.005737	2.33	38.17	58.84	0.69
1	3314	100 Year	55.85	257.47	258.76	258.7	258.97	0.010421	3.06	32.13	55.34	0.93
1	3314	Hazel	43.65	257.47	258.65	258.62	258.85	0.011114	2.94	25.99	54.38	0.94
1	3314	Hazel w CC	51.91	257.47	258.72	258.68	258.94	0.010591	3.02	30.23	55.07	0.93
1	3293	100 Year	55.85	257.27	258.6		258.77	0.008511	2.78	36.83	52.13	0.83
1	3293	Hazel	43.65	257.27	258.49		258.64	0.008539	2.6	31.08	50.82	0.82

1	3293	Hazel w CC	51.91	257.27	258.57		258.73	0.008403	2.71	35.19	51.76	0.83
1	3273	100 Year	55.85	256.99	258.26	258.25	258.54	0.016081	3.69	32.01	48.12	1.14
1	3273	Hazel	43.65	256.99	258.16	258.16	258.41	0.015841	3.43	27.32	47.46	1.12
1	3273	Hazel w CC	51.91	256.99	258.22	258.22	258.5	0.01648	3.65	30.26	47.93	1.15
1	3254	100 Year	55.85	256.81	258.08		258.28	0.010048	2.79	36.57	49.94	0.9
1	3254	Hazel	43.65	256.81	257.98		258.15	0.0097	2.55	31.54	49.39	0.87
1	3254	Hazel w CC	51.91	256.81	258.05		258.24	0.009877	2.71	35.08	49.78	0.89
1	3222	100 Year	55.85	256.43	257.68	257.68	257.95	0.010724	3.09	32.02	55.38	0.94
1	3222	Hazel	43.65	256.43	257.59	257.59	257.83	0.010379	2.87	27.07	54.05	0.92
1	3222	Hazel w CC	51.91	256.43	257.65	257.65	257.91	0.010692	3.03	30.41	55.09	0.94
1	3202	100 Year	55.85	255.96	257.69		257.79	0.00332	2.01	47.03	60.63	0.54
1	3202	Hazel	43.65	255.96	257.51		257.62	0.004284	2.08	36.14	59.17	0.6
1	3202	Hazel w CC	51.91	255.96	257.63		257.73	0.003579	2.03	43.55	60.29	0.56
1	3177	100 Year	55.85	255.71	257.65		257.72	0.001927	1.63	53.15	60.21	0.41
1	3177	Hazel	43.65	255.71	257.46		257.53	0.002275	1.63	42.12	56.86	0.44
1	3177	Hazel w CC	51.91	255.71	257.59		257.66	0.002026	1.63	49.59	59.21	0.42
1	3161	100 Year	55.85	255.6	257.64		257.69	0.001356	1.47	56.74	54.74	0.35
1	3161	Hazel	43.65	255.6	257.45		257.5	0.001435	1.4	46.69	52.9	0.36
1	3161	Hazel w CC	51.91	255.6	257.58		257.63	0.001382	1.45	53.52	54.21	0.35
1	3139	100 Year	55.85	255.55	257.59		257.66	0.001335	1.55	51.81	45.2	0.36
1	3139	Hazel	43.65	255.55	257.4		257.47	0.001291	1.42	43.73	43.83	0.35
1	3139	Hazel w CC	51.91	255.55	257.53		257.6	0.001328	1.51	49.22	44.83	0.36
1	3116	100 Year	55.85	255.29	257.52		257.63	0.001795	1.89	43.21	42.49	0.42
1	3116	Hazel	43.65	255.29	257.34		257.44	0.001707	1.74	36.02	39.1	0.4
1	3116	Hazel w CC	51.91	255.29	257.46		257.57	0.001778	1.85	40.84	41.34	0.41
1	3101	100 Year	55.85	255.26	257.43		257.59	0.002687	2.17	44.36	53.24	0.51
1	3101	Hazel	43.65	255.26	257.26		257.4	0.002596	2	35.93	47.25	0.49
1	3101	Hazel w CC	51.91	255.26	257.38		257.53	0.002638	2.11	41.71	49.72	0.5
1	3062	100 Year	55.85	255.15	257.19	257.03	257.44	0.005923	2.65	32.01	44.56	0.62
1	3062	Hazel	43.65	255.15	256.96	256.88	257.24	0.007253	2.68	21.98	41.78	0.67
1	3062	Hazel w CC	51.91	255.15	257.14	256.98	257.38	0.005959	2.6	29.65	43.81	0.62
1	3036	100 Year	55.85	254.88	256.77	256.77	257.25	0.008534	3.24	24.15	46.65	0.79
1	3036	Hazel	43.65	254.88	256.47	256.47	257	0.011627	3.32	15.11	19.74	0.9
1	3036	Hazel w CC	51.91	254.88	256.66	256.66	257.18	0.009825	3.33	19.71	31.49	0.84
1	3006	100 Year	55.85	254.23	256.22	256.22	256.61	0.011985	3.03	24.94	36.25	0.77
1	3006	Hazel	43.65	254.23	256.03	256.03	256.42	0.013544	2.94	18.48	25.87	0.8
1	3006	Hazel w CC	51.91	254.23	256.16	256.16	256.56	0.01255	3.02	22.75	34.63	0.78
1	2979	100 Year	55.85	253.9	255.69	255.63	256.11	0.013647	3.03	20.6	23.97	0.82
1	2979	Hazel	43.65	253.9	255.6		255.91	0.010726	2.57	18.66	21.56	0.72
1	2979	Hazel w CC	51.91	253.9	255.67	255.57	256.05	0.012494	2.87	20.13	22.95	0.78
1	2956	100 Year	55.85	253.75	255.5	255.45	255.76	0.014449	3.02	29.57	50.06	0.76
1	2956	Hazel	43.65	253.75	255.36	255.31	255.62	0.014601	2.85	22.89	40.68	0.76
1	2956	Hazel w CC	51.91	253.75	255.46	255.42	255.72	0.014728	2.99	27.27	49.47	0.77
1	2933	100 Year	55.85	253.62	255.07	255.07	255.39	0.019002	3.21	26.92	41.27	0.9
1	2933	Hazel	43.65	253.62	254.95	254.95	255.24	0.019149	3.01	22.04	39.18	0.89
1	2933	Hazel w CC	51.91	253.62	255.03	255.03	255.34	0.018833	3.13	25.51	40.82	0.89
1	2913	100 Year	55.85	253.61	254.91		255.1	0.006989	1.43	31.66	32.31	0.42
1	2913	Hazel	43.65	253.61	254.74		254.91	0.00732	1.32	26.4	30.8	0.42
1	2913	Hazel w CC	51.91	253.61	254.85		255.04	0.007089	1.4	29.98	31.78	0.42
1	2887	100 Year	55.85	253.12	254.68		254.92	0.006612	1.45	27.95	27.31	0.4
1	2887	Hazel	43.65	253.12	254.53		254.73	0.006486	1.32	23.84	26.6	0.39
1	2887	Hazel w CC	51.91	253.12	254.64		254.86	0.006576	1.41	26.66	27.11	0.4

1	2506	100 Year	55.85	248.63	249.77		249.95	0.007658	2.51	32	57.44	0.8
1	2506	Hazel	43.65	248.63	249.62	249.59	249.82	0.010387	2.62	23.42	53.62	0.9
1	2506	Hazel w CC	51.91	248.63	249.72		249.91	0.008311	2.53	29.35	57.08	0.82
1	2488	100 Year	55.85	247.87	249.79		249.87	0.00234	1.78	49.66	59.12	0.45
1	2488	Hazel	43.65	247.87	249.66		249.73	0.002279	1.66	41.97	58.27	0.44
1	2488	Hazel w CC	51.91	247.87	249.75		249.82	0.002328	1.74	47.21	58.85	0.45
1	2464	100 Year	55.85	248.1	249.75		249.82	0.001695	1.51	53.3	62.12	0.4
1	2464	Hazel	43.65	248.1	249.63		249.68	0.001536	1.35	45.73	57.65	0.37
1	2464	Hazel w CC	51.91	248.1	249.71		249.77	0.001647	1.46	50.83	60.31	0.39
1	2443	100 Year	55.85	247.71	249.45	249.45	249.74	0.008871	3.28	29.36	47.3	0.89
1	2443	Hazel	43.65	247.71	249.34	249.34	249.6	0.008652	3.07	24.27	45.46	0.86
1	2443	Hazel w CC	51.91	247.71	249.42	249.42	249.69	0.008596	3.19	28.04	46.9	0.87
1	2414	100 Year	55.85	247.06	248.94	248.94	249.25	0.007444	3.2	26.56	45.56	0.81
1	2414	Hazel	43.65	247.06	248.81	248.81	249.11	0.007557	3.05	21.47	33.46	0.81
1	2414	Hazel w CC	51.91	247.06	248.91	248.91	249.21	0.00715	3.1	25.32	43.22	0.79
1	2387	100 Year	55.85	247.04	248.73	248.64	248.99	0.006276	2.93	28.58	40.97	0.76
1	2387	Hazel	43.65	247.04	248.6		248.83	0.006342	2.76	23.52	32.7	0.75
1	2387	Hazel w CC	51.91	247.04	248.69	248.59	248.95	0.006288	2.88	26.89	38.84	0.76
1	2364	100 Year	55.85	246.93	248.49	248.49	248.82	0.008728	3.23	26.24	40.31	0.89
1	2364	Hazel	43.65	246.93	248.37	248.36	248.66	0.008529	3	21.7	34.27	0.86
1	2364	Hazel w CC	51.91	246.93	248.45	248.45	248.77	0.008637	3.15	24.81	39.61	0.88
1	2344	100 Year	55.85	246.52	248.29	248.29	248.63	0.007786	3.29	26.37	42.41	0.84
1	2344	Hazel	43.65	246.52	248.08	248.08	248.47	0.00982	3.36	18.5	28.87	0.92
1	2344	Hazel w CC	51.91	246.52	248.26	248.26	248.58	0.007651	3.21	24.87	40.75	0.83
1	2324	100 Year	55.85	246.15	247.87	247.87	248.32	0.008453	3.35	22.21	28.41	0.88
1	2324	Hazel	43.65	246.15	247.72	247.72	248.12	0.008476	3.11	18	25.17	0.86
1	2324	Hazel w CC	51.91	246.15	247.84	247.84	248.26	0.008221	3.24	21.13	27.61	0.86
1	2299	100 Year	55.85	246.39	247.67	247.66	247.97	0.010147	3.12	25.38	44.28	0.93
1	2299	Hazel	43.65	246.39	247.55	247.53	247.82	0.010296	2.91	20.34	37.19	0.92
1	2299	Hazel w CC	51.91	246.39	247.64	247.64	247.92	0.010361	3.08	23.66	43.06	0.94
1	2280	100 Year	55.85	245.94	247.49	247.49	247.77	0.008897	3.03	26.62	56.49	0.87
1	2280	Hazel	43.65	245.94	247.37	247.37	247.63	0.008928	2.84	21	42.03	0.86
1	2280	Hazel w CC	51.91	245.94	247.45	247.45	247.73	0.0088	2.96	24.84	50.22	0.86
1	2256	100 Year	55.85	245.44	247.19	247.19	247.46	0.007407	3.09	32.96	66.2	0.82
1	2256	Hazel	43.65	245.44	247.07	247.07	247.33	0.007381	2.92	25.37	59.42	0.8
1	2256	Hazel w CC	51.91	245.44	247.15	247.15	247.42	0.007455	3.05	30.53	64.95	0.81
1	2243	100 Year	55.85	245.58	247.04	247.04	247.32	0.011855	3.35	27.96	48.68	1
1	2243	Hazel	43.65	245.58	246.96	246.95	247.2	0.010356	2.99	24.37	47.73	0.92
1	2243	Hazel w CC	51.91	245.58	247.09		247.3	0.007941	2.83	30.76	49.11	0.82
1	2218	100 Year	55.85	245.17	247.01		247.15	0.003111	2.08	36.19	39.5	0.54
1	2218	Hazel	43.65	245.17	246.98		247.07	0.002116	1.69	34.84	39.17	0.44
1	2218	Hazel w CC	51.91	245.17	247.08		247.19	0.002177	1.79	39.01	40.39	0.45
1	2191	100 Year	55.85	244.55	246.97		247.08	0.002079	1.89	41.61	39.6	0.44
1	2191	Hazel	43.65	244.55	246.95		247.02	0.001333	1.5	40.88	39.42	0.35
1	2191	Hazel w CC	51.91	244.55	247.05		247.13	0.001451	1.62	44.96	40.44	0.37
1	2167	100 Year	55.85	244.3	247.01		247.05	0.000541	1.16	66.26	45.12	0.24
1	2167	Hazel	43.65	244.3	246.97		247	0.00035	0.92	64.88	43.95	0.19
1	2167	Hazel w CC	51.91	244.3	247.08		247.11	0.000414	1.03	69.65	46.98	0.21
1	2141	100 Year	55.85	244.05	247.01		247.03	0.000247	0.84	91.9	54.46	0.16
1	2141	Hazel	43.65	244.05	246.98		246.99	0.00016	0.67	90.05	54.19	0.13
1	2141	Hazel w CC	51.91	244.05	247.08		247.1	0.00019	0.75	95.8	55.02	0.14
1	2122	100 Year	55.85	243.68	247.02		247.03	0.00013	0.65	112.14	55.43	0.12

1	2122	Hazel	43.65	243.68	246.98		246.99	0.000084	0.51	110.21	55.06	0.09
1	2122	Hazel w CC	51.91	243.68	247.09		247.1	0.000102	0.58	116.08	55.93	0.1
1	2094	100 Year	55.85	243.94	247.01		247.03	0.000119	0.62	118.91	58.36	0.12
1	2094	Hazel	43.65	243.94	246.98		246.99	0.000076	0.49	116.97	58.08	0.09
1	2094	Hazel w CC	51.91	243.94	247.08		247.1	0.000093	0.56	123.11	58.97	0.1
1	2072	100 Year	55.85	243.45	247.01		247.02	0.000085	0.57	129.94	61.24	0.1
1	2072	Hazel	43.65	243.45	246.98		246.99	0.000054	0.45	127.87	60.87	0.08
1	2072	Hazel w CC	51.91	243.45	247.08		247.09	0.000067	0.51	134.34	61.88	0.09
1	2045	100 Year	55.85	243.33	246.95		247.02	0.00052	1.36	63.49	52.56	0.24
1	2045	Hazel	43.65	243.33	246.94		246.98	0.000323	1.07	62.93	52.21	0.19
1	2045	Hazel w CC	51.91	243.33	247.04		247.09	0.000396	1.21	68.14	56.71	0.21
1	2026	100 Year	50.34	243.36	246.96		247	0.000385	1.08	66.69	39.18	0.2
1	2026	Hazel	47.91	243.36	246.93		246.97	0.000362	1.04	65.62	39.1	0.19
1	2026	Hazel w CC	57.4	243.36	247.02		247.08	0.000458	1.2	69.28	42.34	0.21
1	2006	100 Year	50.34	242.86	246.86	244.95	246.98	0.001031	1.65	44.16	39.75	0.32
1	2006	Hazel	47.91	242.86	246.84	244.89	246.95	0.000973	1.6	43.28	39.59	0.31
1	2006	Hazel w CC	57.4	242.86	246.91	245.13	247.05	0.001235	1.83	45.93	40.05	0.35
1	McConkey Pl		Culvert									
1	1971	100 Year	50.34	242.25	246.1	244.78	246.52	0.002909	2.89	17.42	26.88	0.49
1	1971	Hazel	47.91	242.25	246.1		246.48	0.002635	2.75	17.42	26.88	0.47
1	1971	Hazel w CC	57.4	242.25	246.04	244.98	246.61	0.003983	3.35	17.15	25.51	0.58
1	1954	100 Year	50.34	242	246.36		246.41	0.000608	1.13	58.37	31.06	0.19
1	1954	Hazel	47.91	242	246.33		246.38	0.000568	1.09	57.59	29.83	0.18
1	1954	Hazel w CC	57.4	242	246.4		246.46	0.000753	1.27	59.77	37.19	0.21
1	1933	100 Year	50.34	241.84	246.37		246.4	0.000352	0.9	87.97	87.84	0.15
1	1933	Hazel	47.91	241.84	246.34		246.37	0.000332	0.87	85.9	85.95	0.14
1	1933	Hazel w CC	57.4	241.84	246.41		246.45	0.000427	1	91.39	89.9	0.16
1	1914	100 Year	50.34	241.94	246.38		246.39	0.000152	0.62	137.46	153.91	0.1
1	1914	Hazel	47.91	241.94	246.35		246.36	0.000144	0.6	134.67	151.14	0.1
1	1914	Hazel w CC	57.4	241.94	246.43		246.44	0.000182	0.69	142.16	157.96	0.11
1	1891	100 Year	50.34	241.36	246.38		246.39	0.000038	0.36	226.23	203.77	0.06
1	1891	Hazel	47.91	241.36	246.36		246.36	0.000036	0.35	223.14	200.13	0.05
1	1891	Hazel w CC	57.4	241.36	246.43		246.44	0.000047	0.4	231.46	210.02	0.06
1	1866	100 Year	50.34	241.04	246.39		246.39	0.000015	0.21	353.33	178.95	0.03
1	1866	Hazel	47.91	241.04	246.36		246.36	0.000014	0.2	348.25	178.42	0.03
1	1866	Hazel w CC	57.4	241.04	246.43		246.44	0.000018	0.23	361.96	179.07	0.03
1	1848	100 Year	50.34	240.46	246.39		246.39	0.000007	0.18	557.71	276.62	0.02
1	1848	Hazel	47.91	240.46	246.36		246.36	0.000006	0.17	549.88	274.38	0.02
1	1848	Hazel w CC	57.4	240.46	246.43		246.44	0.000009	0.2	571.14	279.72	0.03
1	1831	100 Year	50.34	240.25	246.37	246.14	246.38	0.00213	0.85	105.58	235.25	0.25
1	1831	Hazel	47.91	240.25	246.34	244.16	246.36	0.002351	0.88	98.54	234.05	0.26
1	1831	Hazel w CC	57.4	240.25	246.42	246.15	246.43	0.002057	0.86	116.96	236.49	0.25
1	9	Rail Line	Culvert									
1	1804	100 Year	50.34	239.48	243.5	243.5	245.5	0.008465	6.27	8.03	127.36	1
1	1804	Hazel	47.91	239.48	243.36	243.36	245.3	0.008595	6.17	7.76	122.69	1
1	1804	Hazel w CC	57.4	239.48	243.87	243.87	246.05	0.008209	6.55	8.77	154.59	1
1	1789	100 Year	59.73	239.35	241.43	241.3	241.83	0.009898	2.8	21.31	19.24	0.84
1	1789	Hazel	56.69	239.35	241.43	241.26	241.79	0.008832	2.65	21.38	19.26	0.79
1	1789	Hazel w CC	67.96	239.35	241.4	241.4	241.95	0.014021	3.29	20.69	19.03	1
1	1770	100 Year	59.73	239.17	241.39	241.39	241.56	0.01216	2.13	33.73	93.79	0.56
1	1770	Hazel	56.69	239.17	241.38	241.38	241.55	0.012265	2.12	32.3	92.1	0.56

1	1770	Hazel w CC	67.96	239.17	241.51	241.43	241.62	0.006878	1.68	46.31	120.64	0.42
1	Huron Rd		Culvert									
1	1742	100 Year	59.73	238.76	240.89	240.89	241.02	0.004126	2.46	65.71	172.89	0.65
1	1742	Hazel	56.69	238.76	240.89	240.89	241	0.003892	2.38	64.57	172.59	0.63
1	1742	Hazel w CC	67.96	238.76	240.9	240.9	241.05	0.005091	2.74	66.91	173.24	0.72
1	1716	100 Year	59.73	238.55	239.74	239.74	240.03	0.012811	3.06	27.32	47.83	1.01
1	1716	Hazel	56.69	238.55	239.71	239.71	240	0.013493	3.07	25.83	44.4	1.03
1	1716	Hazel w CC	67.96	238.55	239.84	239.84	240.1	0.010599	2.97	32.87	64.73	0.93
1	1694	100 Year	59.73	238.22	239.56	239.4	239.65	0.002723	1.59	50.99	99.75	0.48
1	1694	Hazel	56.69	238.22	239.55	239.39	239.63	0.002719	1.57	49.29	99.35	0.48
1	1694	Hazel w CC	67.96	238.22	239.61	239.43	239.7	0.002725	1.63	55.5	100.76	0.48
1	1664	100 Year	59.73	237.66	239.3	239.3	239.5	0.010675	2.99	39.45	93.92	0.92
1	1664	Hazel	56.69	237.66	239.28	239.28	239.48	0.010726	2.96	37.85	89.67	0.92
1	1664	Hazel w CC	67.96	237.66	239.34	239.34	239.56	0.010714	3.07	43.61	102.77	0.92
1	1651	100 Year	59.73	237.37	238.84	238.59	238.97	0.003541	2.75	43.23	296.71	0.81
1	1651	Hazel	56.69	237.37	238.81	238.57	238.95	0.003535	2.71	41.53	295.87	0.81
1	1651	Hazel w CC	67.96	237.37	238.86	238.66	239.03	0.004157	3.02	44.87	297.53	0.89
1	1615	100 Year	59.73	236.95	238.91		238.92	0.000491	0.58	129.43	152.35	0.17
1	1615	Hazel	56.69	236.95	238.88		238.89	0.000478	0.57	126.27	152.23	0.16
1	1615	Hazel w CC	67.96	236.95	238.94		238.96	0.000571	0.64	134.05	152.53	0.18
1	1563	100 Year	59.73	236.79	238.89		238.9	0.000179	0.57	159.18	155.44	0.13
1	1563	Hazel	56.69	236.79	238.87		238.88	0.00017	0.55	156.66	155.24	0.13
1	1563	Hazel w CC	67.96	236.79	238.93		238.94	0.000216	0.63	162.72	155.72	0.15
1	1544	100 Year	79.27	236.79	238.86	237.59	238.89	0.000559	1.05	107.29	170.88	0.24
1	1544	Hazel	73.53	236.79	238.84	237.56	238.87	0.0005	0.98	105.96	170.71	0.23
1	1544	Hazel w CC	88.45	236.79	238.89	237.63	238.93	0.000659	1.15	109.13	171.17	0.26
1	1506	100 Year	79.27	236.59	238.69	238.69	238.83	0.004474	2.11	72.26	225.07	0.62
1	1506	Hazel	73.53	236.59	238.67	238.67	238.81	0.004321	2.05	68.47	221.09	0.61
1	1506	Hazel w CC	88.45	236.59	238.73	238.73	238.86	0.004347	2.12	80.81	231	0.61
1	4	Little Ave	Culvert									
1	1483	100 Year	79.27	236.45	238.38	238.38	238.52	0.005384	2.27	69.23	223.47	0.68
1	1483	Hazel	73.53	236.45	238.36	238.36	238.5	0.005216	2.22	65.95	220.95	0.67
1	1483	Hazel w CC	88.45	236.45	238.4	238.4	238.55	0.00564	2.36	74.28	228.79	0.7
1	1463	100 Year	79.27	236.48	238	238	238.23	0.005374	2.22	45.83	112.16	0.67
1	1463	Hazel	73.53	236.48	237.89	237.89	238.19	0.007429	2.43	35.77	74.29	0.78
1	1463	Hazel w CC	88.45	236.48	238.06	238.06	238.28	0.004833	2.19	53.83	121.01	0.65
1	1449	100 Year	79.27	236.36	237.97		238.1	0.004211	2.02	59.78	138.25	0.6
1	1449	Hazel	73.53	236.36	237.93		238.06	0.004314	2	54.71	128.89	0.61
1	1449	Hazel w CC	88.45	236.36	238.06		238.18	0.003361	1.9	73.7	154.4	0.54
1	1434	100 Year	79.27	236.4	237.95		238.04	0.002922	1.71	82.25	176.91	0.5
1	1434	Hazel	73.53	236.4	237.91		238	0.003042	1.7	75.44	158.96	0.51
1	1434	Hazel w CC	88.45	236.4	238.05		238.13	0.002332	1.61	100.96	195.5	0.46
1	1419	100 Year	79.27	236.14	237.93		238	0.001978	1.57	90.36	122.95	0.42
1	1419	Hazel	73.53	236.14	237.89		237.96	0.00194	1.53	85.81	120.62	0.41
1	1419	Hazel w CC	88.45	236.14	238.03		238.09	0.001857	1.59	102.86	146.98	0.41
1	1412	100 Year	79.27	236.13	237.83		237.98	0.003239	1.95	48.13	45.37	0.53
1	1412	Hazel	73.53	236.13	237.81		237.94	0.002986	1.85	47.03	45.12	0.51
1	1412	Hazel w CC	88.45	236.13	237.91		238.07	0.003216	2.02	51.9	46.22	0.53
1	1398	100 Year	79.27	235.97	237.81		237.94	0.002709	1.81	50.95	45.89	0.49
1	1398	Hazel	73.53	235.97	237.78		237.9	0.002475	1.72	49.96	45.72	0.46
1	1398	Hazel w CC	88.45	235.97	237.89		238.03	0.002705	1.88	54.79	46.57	0.49

1	1024	100 Year	79.27	233.92	237.66		237.69	0.000188	0.88	119.47	101.35	0.15
1	1024	Hazel	73.53	233.92	237.65		237.68	0.000163	0.82	119.11	101.14	0.14
1	1024	Hazel w CC	88.45	233.92	237.74		237.77	0.000207	0.94	128.3	118.86	0.16
1	1000	100 Year	79.27	233.16	237.61	235.62	237.68	0.000732	0.9	76.21	47.69	0.17
1	1000	Hazel	73.53	233.16	237.61	235.53	237.67	0.000625	0.83	76.36	48.27	0.15
1	1000	Hazel w CC	88.45	233.16	237.68	235.75	237.76	0.000779	0.94	79.56	51.74	0.17
1	982	100 Year	79.27	233.12	237.56	235.43	237.66	0.00101	1.46	66.01	48.99	0.24
1	982	Hazel	73.53	233.12	237.57	235.36	237.66	0.000856	1.34	66.48	50.01	0.22
1	982	Hazel w CC	88.45	233.12	237.63	235.56	237.74	0.001149	1.57	68.66	53.27	0.26
1	966	100 Year	76.06	232.95	237.54	235.6	237.64	0.001666	1.45	60.29	72.97	0.25
1	966	Hazel	75.64	232.95	237.54	235.6	237.64	0.001651	1.44	60.24	72.88	0.25
1	966	Hazel w CC	91.39	232.95	237.58	235.81	237.71	0.002255	1.7	61.76	77.07	0.29
1	946	100 Year	76.06	232.74	237.48	237.39	237.6	0.002089	1.83	67.41	161.52	0.43
1	946	Hazel	75.64	232.74	237.48	237.38	237.6	0.00209	1.83	67.03	161.49	0.43
1	946	Hazel w CC	91.39	232.74	237.54	237.44	237.67	0.002224	1.93	77.66	162.88	0.45
1	Young St		Culvert									
1	903	100 Year	76.06	231.89	236.79	236.79	236.94	0.002326	2.17	52.83	137.8	0.46
1	903	Hazel	75.64	231.89	236.8	236.8	236.94	0.002243	2.14	53.35	137.88	0.45
1	903	Hazel w CC	91.39	231.89	236.84	236.84	237	0.002542	2.3	58.74	138.72	0.49
1	875	100 Year	76.06	231.21	233.38	233.38	233.9	0.006246	2.69	25	26.98	0.64
1	875	Hazel	75.64	231.21	233.38	233.38	233.89	0.006302	2.7	24.84	26.95	0.65
1	875	Hazel w CC	91.39	231.21	233.52	233.52	234.1	0.005644	2.69	28.88	27.67	0.62
1	851	100 Year	76.06	230.62	233.05		233.29	0.003609	2.2	35.45	32	0.5
1	851	Hazel	75.64	230.62	233.05		233.29	0.003599	2.2	35.37	31.98	0.5
1	851	Hazel w CC	91.39	230.62	233.28		233.52	0.002762	2.06	42.87	33.41	0.44
1	832	100 Year	76.06	230.23	232.98		233.24	0.001982	1.47	37.51	28.06	0.32
1	832	Hazel	75.64	230.23	232.98		233.24	0.001968	1.47	37.47	28.06	0.32
1	832	Hazel w CC	91.39	230.23	233.18		233.47	0.001766	1.48	43.22	28.41	0.31
1	815	100 Year	76.06	229.6	232.59	232.47	233.17	0.008111	3.57	24.9	18.47	0.75
1	815	Hazel	75.64	229.6	232.62	232.46	233.16	0.007582	3.48	25.45	18.99	0.72
1	815	Hazel w CC	91.39	229.6	232.79	232.79	233.4	0.008053	3.75	28.86	22.66	0.75
1	803	100 Year	76.06	229.49	232.86		233.06	0.002092	2.13	42.99	24.48	0.42
1	803	Hazel	75.64	229.49	232.87		233.07	0.002041	2.11	43.22	24.56	0.41
1	803	Hazel w CC	91.39	229.49	232.9		233.18	0.002858	2.51	43.89	24.68	0.49
1	789	100 Year	76.06	229.44	233		233.03	0.000181	0.81	106.68	43.28	0.15
1	789	Hazel	75.64	229.44	233.01		233.04	0.000178	0.8	106.96	43.31	0.15
1	789	Hazel w CC	91.39	229.44	233.09		233.13	0.000236	0.94	110.62	43.76	0.17
1	773	100 Year	76.06	229.07	232.99	230.84	233.03	0.000209	0.87	97.34	49.78	0.16
1	773	Hazel	75.64	229.07	233	230.84	233.03	0.000205	0.86	97.67	50.23	0.16
1	773	Hazel w CC	91.39	229.07	233.08	230.97	233.13	0.000274	1.02	101.87	54.82	0.18
1	761	100 Year	76.06	228.95	232.98	230.64	233.02	0.000285	1	98.35	54.57	0.17
1	761	Hazel	75.64	228.95	232.99	230.64	233.03	0.00028	1	98.72	54.62	0.17
1	761	Hazel w CC	91.39	228.95	233.06	230.78	233.12	0.000374	1.17	102.94	55.31	0.2
1	752	100 Year	76.06	228.71	232.98	230.57	233.02	0.000341	1.08	96.97	46.86	0.18
1	752	Hazel	75.64	228.71	232.98	230.56	233.03	0.000335	1.08	97.3	46.93	0.18
1	752	Hazel w CC	91.39	228.71	233.06	230.72	233.12	0.00045	1.26	100.85	47.7	0.21
1	741	100 Year	76.06	228.39	232.89	230.78	233.01	0.000578	1.65	70.52	35.66	0.26
1	741	Hazel	75.64	228.39	232.9	230.77	233.02	0.000567	1.63	70.82	35.69	0.26
1	741	Hazel w CC	91.39	228.39	232.94	231	233.11	0.000792	1.94	72.29	35.87	0.31
1	725	100 Year	76.06	228.35	232.84	230.98	233	0.001372	1.84	55.49	58.68	0.31
1	725	Hazel	75.64	228.35	232.85	230.97	233	0.001342	1.82	55.82	60.39	0.31
1	725	Hazel w CC	91.39	228.35	232.86	231.22	233.09	0.001929	2.19	56.25	61.53	0.37

1	377	100 Year	78.35	221.27	223.18		223.37	0.004282	2.35	42.42	43.28	0.61
1	377	Hazel	79.58	221.27	223.19		223.38	0.004173	2.34	43.21	43.37	0.61
1	377	Hazel w CC	96.33	221.27	223.43		223.61	0.003143	2.24	53.6	44.61	0.54
1	349	100 Year	78.35	220.86	223.13		223.27	0.002177	2.07	48.63	38.16	0.47
1	349	Hazel	79.58	220.86	223.15		223.29	0.002151	2.07	49.33	38.27	0.46
1	349	Hazel w CC	96.33	220.86	223.38		223.53	0.001867	2.08	58.57	39.23	0.44
1	325	100 Year	78.35	220.55	223.08		223.22	0.001799	1.98	48.22	31.89	0.42
1	325	Hazel	79.58	220.55	223.1		223.24	0.00179	1.99	48.8	31.94	0.42
1	325	Hazel w CC	96.33	220.55	223.34		223.49	0.001689	2.06	56.34	32.59	0.42
1	308	100 Year	78.35	220.49	222.69	222.53	223.15	0.006688	3.52	27.09	20.24	0.79
1	308	Hazel	79.58	220.49	222.7	222.54	223.17	0.006669	3.53	27.41	20.31	0.79
1	308	Hazel w CC	96.33	220.49	222.92	222.72	223.42	0.00618	3.64	31.94	21.2	0.78
1	293	100 Year	78.35	220.34	222.41	222.41	223.03	0.008721	3.89	23.94	19.12	0.92
1	293	Hazel	79.58	220.34	222.42	222.42	223.05	0.008728	3.91	24.19	19.16	0.92
1	293	Hazel w CC	96.33	220.34	222.6	222.6	223.3	0.008727	4.15	27.61	19.69	0.93
1	269	100 Year	78.35	219.97	222.37		222.56	0.002868	2.32	43.95	31.62	0.53
1	269	Hazel	79.58	219.97	222.39		222.58	0.002846	2.33	44.52	31.67	0.53
1	269	Hazel w CC	96.33	219.97	222.52		222.75	0.003207	2.57	48.51	32.09	0.57
1	253	100 Year	78.35	219.89	222.37		222.52	0.002097	2.09	49.82	34.16	0.45
1	253	Hazel	79.58	219.89	222.39		222.53	0.002084	2.09	50.44	34.27	0.45
1	253	Hazel w CC	96.33	219.89	222.52		222.69	0.002369	2.32	54.87	35.89	0.48
1	230	100 Year	78.35	219.65	222.34	221.87	222.46	0.002015	1.67	51.33	47.06	0.42
1	230	Hazel	79.58	219.65	222.36	221.88	222.48	0.001962	1.66	52.28	47.37	0.41
1	230	Hazel w CC	96.33	219.65	222.5	221.98	222.63	0.001984	1.76	58.8	49.56	0.42
1	The Blvd		Culvert									
1	213	100 Year	78.35	219.57	221.63	221.63	221.98	0.006643	2.24	33.62	51.89	0.72
1	213	Hazel	79.58	219.57	221.64	221.64	221.99	0.006598	2.25	34.07	51.96	0.72
1	213	Hazel w CC	96.33	219.57	221.74	221.74	222.13	0.006362	2.36	39.41	52.9	0.72
1	200	100 Year	78.35	219.16	220.92		221.01	0.006132	1.89	64.86	230.22	0.56
1	200	Hazel	79.58	219.16	220.93		221.02	0.00589	1.87	66.49	230.96	0.55
1	200	Hazel w CC	96.33	219.16	221		221.11	0.006193	1.99	74.73	232.4	0.57
1	183	100 Year	78.32	219.21	220.65	220.65	220.85	0.01584	2.71	45.34	180.98	0.85
1	183	Hazel	80.29	219.21	220.65	220.65	220.86	0.017039	2.8	44.96	180.7	0.89
1	183	Hazel w CC	97.25	219.21	220.71	220.71	220.93	0.016753	2.89	51.61	182.53	0.89
1	169	100 Year	78.32	218.93	219.93	219.82	219.99	0.005013	1.32	72.99	213.86	0.55
1	169	Hazel	80.29	218.93	219.96	219.82	220.01	0.00402	1.21	79.59	217.19	0.49
1	169	Hazel w CC	97.25	218.93	220	219.85	220.06	0.004183	1.26	88.73	219.31	0.51
1	Brennan Ave		Culvert									
1	152	100 Year	78.32	218.7	219.92	219.82	219.99	0.003172	1.25	71.88	225.78	0.45
1	152	Hazel	80.29	218.7	219.93	219.82	219.99	0.00315	1.25	73.3	227.25	0.45
1	152	Hazel w CC	97.25	218.7	219.98	219.86	220.05	0.002997	1.24	84.96	233.72	0.44
1	120	100 Year	78.32	218.89	219.71		219.81	0.011845	1.99	62.79	193	0.86
1	120	Hazel	80.29	218.89	219.72		219.81	0.011876	2	64.02	194.73	0.86
1	120	Hazel w CC	97.25	218.89	219.77		219.87	0.012282	2.14	73.86	205.47	0.88
1	107	100 Year	78.32	218.87	219.78		219.79	0.000072	0.18	223.65	386.13	0.07
1	107	Hazel	80.29	218.87	219.79		219.8	0.000073	0.18	226.36	387.82	0.07
1	107	Hazel w CC	97.25	218.87	219.85		219.85	0.000082	0.2	248.86	405.8	0.08
1	80	100 Year	78.32	218.7	219.76		219.78	0.002694	0.53	110.1	283.81	0.2
1	80	Hazel	80.29	218.7	219.76		219.79	0.002705	0.54	112.01	288.04	0.2
1	80	Hazel w CC	97.25	218.7	219.82		219.85	0.00277	0.57	128.4	310.98	0.2
1	62	100 Year	78.32	218.72	219.65		219.72	0.004145	1.22	69.8	193.71	0.54

1	62	Hazel	80.29	218.72	219.66		219.73	0.004213	1.23	70.72	194.77	0.55
1	62	Hazel w CC	97.25	218.72	219.7		219.78	0.004562	1.33	79.67	212.86	0.57
1	44	100 Year	78.32	218.71	219.61		219.65	0.003428	1.15	99.01	310.77	0.45
1	44	Hazel	80.29	218.71	219.62		219.65	0.003472	1.16	100.39	314.71	0.45
1	44	Hazel w CC	97.25	218.71	219.66		219.7	0.003486	1.21	116.13	351.14	0.45
1	30	100 Year	78.32	218.73	219.57		219.59	0.004204	1.22	131.71	419.47	0.46
1	30	Hazel	80.29	218.73	219.57		219.6	0.004271	1.23	133.33	421.25	0.47
1	30	Hazel w CC	97.25	218.73	219.62		219.65	0.004207	1.28	154.12	431.11	0.47
1	16	100 Year	78.32	218.65	219.37	219.37	219.48	0.020608	2.66	68.5	315.98	1.2
1	16	Hazel	80.29	218.65	219.38	219.38	219.48	0.020006	2.64	70.65	317.5	1.19
1	16	Hazel w CC	97.25	218.65	219.4	219.4	219.52	0.023211	2.91	77.53	327.3	1.28
1	11	100 Year	78.32	217.3	219.13	217.46	219.13	0.000007	0.11	699.43	382.26	0.03
1	11	Hazel	80.29	217.3	219.13	217.47	219.13	0.000007	0.12	699.43	382.26	0.03
1	11	Hazel w CC	97.25	217.3	219.13	217.49	219.13	0.000011	0.14	699.43	382.26	0.03

Sophia Creek - Flood Flow Scenarios

Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
			(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
East 2	3041.4	100 Year	13.11	258.17	259.38	259.38	259.78	0.028371	2.9	4.85	6.92	0.95
East 2	3041.4	100 Year w C	15.82	258.17	259.6	259.6	259.92	0.018813	2.71	7	11.71	0.8
East 2	3041.4	Hazel	8.39	258.17	259.15	259.15	259.46	0.031403	2.54	3.45	5.48	0.95
East 2	3041.4	Hazel w CC	10.08	258.17	259.24	259.23	259.58	0.029251	2.66	3.98	5.87	0.94
East 2	3011	100 Year	13.11	257.28	258.86	258.85	259.18	0.012425	2.62	6.05	12.06	0.77
East 2	3011	100 Year w C	15.82	257.28	258.99	258.99	259.29	0.010995	2.64	7.8	14.65	0.74
East 2	3011	Hazel	8.39	257.28	258.65	258.52	258.89	0.011672	2.23	4.07	6.21	0.72
East 2	3011	Hazel w CC	10.08	257.28	258.73	258.63	259.01	0.012447	2.42	4.63	8.65	0.76
East 2	2989.4	100 Year	13.11	257.05	258.56	258.56	258.89	0.013838	2.67	5.9	12.35	0.8
East 2	2989.4	100 Year w C	15.82	257.05	258.76	258.76	258.99	0.008665	2.36	9.96	27.46	0.65
East 2	2989.4	Hazel	8.39	257.05	258.33	258.24	258.61	0.014653	2.36	3.8	6.34	0.79
East 2	2989.4	Hazel w CC	10.08	257.05	258.43	258.43	258.73	0.013989	2.48	4.61	9.1	0.79
East 2	2966.5	100 Year	13.32	256.73	258.3	258.3	258.44	0.008229	1.99	10.24	32.47	0.6
East 2	2966.5	100 Year w C	16.05	256.73	258.35	258.35	258.49	0.008577	2.09	11.7	33.75	0.62
East 2	2966.5	Hazel	8.62	256.73	258.09	258.09	258.28	0.011877	2.09	5.67	16.32	0.7
East 2	2966.5	Hazel w CC	10.38	256.73	258.15	258.15	258.35	0.012118	2.2	6.69	17.77	0.71
East 2	2934.2	100 Year	13.32	256.28	257.87	257.73	257.91	0.001612	0.77	15.99	59.32	0.26
East 2	2934.2	100 Year w C	16.05	256.28	257.93	257.77	257.97	0.001315	0.72	19.73	60.75	0.24
East 2	2934.2	Hazel	8.62	256.28	257.79	257.64	257.82	0.001369	0.66	11.51	45.53	0.23
East 2	2934.2	Hazel w CC	10.38	256.28	257.82	257.67	257.85	0.001521	0.72	13.24	56.14	0.25
East 2	Howard Cr	Culvert										
East 2	2899.9	100 Year	13.32	255.94	257.37	257.37	257.46	0.007498	1.56	10.51	49.51	0.53
East 2	2899.9	100 Year w C	16.05	255.94	257.38	257.38	257.5	0.008819	1.71	11.25	49.56	0.57
East 2	2899.9	Hazel	8.62	255.94	257.31	257.31	257.39	0.00843	1.58	7.52	49.33	0.55
East 2	2899.9	Hazel w CC	10.38	255.94	257.34	257.34	257.42	0.006541	1.43	9.34	49.44	0.49
East 2	2884	100 Year	13.32	255.74	257.01	256.95	257.1	0.003975	1.16	10.95	36.06	0.39
East 2	2884	100 Year w C	16.05	255.74	257.06	256.98	257.16	0.004025	1.21	12.66	37.28	0.4
East 2	2884	Hazel	8.62	255.74	256.9	256.82	256.98	0.004365	1.12	7.3	27.15	0.4
East 2	2884	Hazel w CC	10.38	255.74	256.94	256.86	257.03	0.00464	1.19	8.3	31.95	0.41
East 2	2862	100 Year	15.97	255.62	256.78	256.78	256.95	0.010484	1.84	8.85	29.96	0.64
East 2	2862	100 Year w C	19.35	255.62	256.84	256.84	257.01	0.009414	1.83	10.65	31.08	0.61
East 2	2862	Hazel	10.27	255.62	256.7	256.7	256.83	0.009956	1.67	6.36	27.73	0.61
East 2	2862	Hazel w CC	12.36	255.62	256.74	256.74	256.88	0.00912	1.66	7.65	28.84	0.59
East 2	2835.6	100 Year	15.97	255.22	256.67	256.5	256.7	0.002146	0.74	20.47	70.97	0.27
East 2	2835.6	100 Year w C	19.35	255.22	256.7	256.54	256.74	0.002357	0.8	22.94	74.06	0.28
East 2	2835.6	Hazel	10.27	255.22	256.58	256.43	256.61	0.001942	0.65	14.93	59.16	0.25
East 2	2835.6	Hazel w CC	12.36	255.22	256.62	256.46	256.65	0.001993	0.68	17.18	64.66	0.26
East 2	.1 Lay St	Culvert										
East 2	2744	100 Year	15.97	254.22	256.37	256.37	256.45	0.006352	1.73	20.88	94.07	0.62
East 2	2744	100 Year w C	19.35	254.22	256.4	256.4	256.49	0.007218	1.88	23.15	94.45	0.66
East 2	2744	Hazel	10.27	254.22	256.31	256.31	256.38	0.005401	1.51	14.98	87.6	0.56
East 2	2744	Hazel w CC	12.36	254.22	256.33	256.33	256.41	0.00601	1.62	16.95	90.72	0.59
East 2	2726	100 Year	15.97	254.17	255.04	254.91	255.12	0.007339	1.69	14.99	35.81	0.62
East 2	2726	100 Year w C	19.35	254.17	255.1	254.98	255.19	0.007651	1.81	16.98	37.01	0.64
East 2	2726	Hazel	10.27	254.17	254.93	254.82	254.99	0.006701	1.47	11.15	33.28	0.58
East 2	2726	Hazel w CC	12.36	254.17	254.97	254.86	255.04	0.006957	1.56	12.65	34.31	0.6
East 2	2692	100 Year	15.97	253.96	254.82	254.7	254.91	0.005149	1.74	16.22	41.58	0.63
East 2	2692	100 Year w C	19.35	253.96	254.91	254.79	254.99	0.004439	1.73	19.74	42.95	0.59
East 2	2692	Hazel	10.27	253.96	254.66	254.57	254.76	0.006901	1.72	9.74	32.91	0.7
East 2	2692	Hazel w CC	12.36	253.96	254.74	254.65	254.83	0.005587	1.68	12.83	40.51	0.64

East 2	2674	100 Year	15.97	253.67	254.56	254.56	254.77	0.009775	2.28	9.74	25.94	0.85
East 2	2674	100 Year w C	19.35	253.67	254.62	254.62	254.86	0.009963	2.44	11.51	29.18	0.87
East 2	2674	Hazel	10.27	253.67	254.38	254.38	254.58	0.012246	2.12	5.82	15.81	0.91
East 2	2674	Hazel w CC	12.36	253.67	254.42	254.42	254.66	0.013822	2.36	6.44	18.38	0.98
East 2	2647	100 Year	17.71	253.23	254.07	254.05	254.27	0.009958	2.14	10.39	27.68	0.84
East 2	2647	100 Year w C	21.45	253.23	254.12	254.12	254.35	0.01069	2.33	11.84	28.21	0.88
East 2	2647	Hazel	11.35	253.23	253.94	253.89	254.09	0.009369	1.81	7.23	23.02	0.79
East 2	2647	Hazel w CC	13.64	253.23	253.99	253.96	254.16	0.009618	1.94	8.4	24.79	0.81
East 2	2618	100 Year	17.71	253.11	253.62	253.62	253.82	0.026435	2.39	9.59	26.12	1.25
East 2	2618	100 Year w C	21.45	253.11	253.69	253.69	253.9	0.022862	2.5	11.48	27.9	1.2
East 2	2618	Hazel	11.35	253.11	253.52	253.52	253.67	0.026644	2.09	7.08	23.44	1.22
East 2	2618	Hazel w CC	13.64	253.11	253.56	253.56	253.72	0.025128	2.1	8.24	24.87	1.19
East 2	2592	100 Year	17.71	252.6	253.72		253.72	0.000404	0.36	49.44	89.31	0.12
East 2	2592	100 Year w C	21.45	252.6	253.79		253.8	0.000398	0.38	56.02	101.54	0.12
East 2	2592	Hazel	11.35	252.6	253.5		253.5	0.000793	0.43	30.96	78.7	0.16
East 2	2592	Hazel w CC	13.64	252.6	253.59		253.59	0.000568	0.39	38.15	82.49	0.13
East 2	2578	100 Year	17.71	252.47	253.72	252.98	253.72	0.000009	0.06	149.17	248.18	0.03
East 2	2578	100 Year w C	21.45	252.47	253.79	253.01	253.79	0.00001	0.07	166.86	257.33	0.03
East 2	2578	Hazel	11.35	252.47	253.5	252.93	253.5	0.000012	0.06	98.15	208.01	0.03
East 2	2578	Hazel w CC	13.64	252.47	253.59	252.94	253.59	0.000011	0.06	117.67	229.41	0.03
East 2	Grove St E (US)		Culvert									
East 2	2555	100 Year	17.71	252.02	253.72		253.72	0.000025	0.13	113.07	209.59	0.04
East 2	2555	100 Year w C	21.45	252.02	253.79		253.79	0.000026	0.14	128.18	221.75	0.04
East 2	2555	Hazel	11.35	252.02	253.5		253.5	0.000033	0.12	69.96	175.35	0.05
East 2	2555	Hazel w CC	13.64	252.02	253.58		253.58	0.000029	0.12	85.36	188.61	0.05
East 2	2519	100 Year	20.72	251.83	253.58		253.69	0.004741	1.63	18.15	30.27	0.46
East 2	2519	100 Year w C	24.96	251.83	253.6		253.74	0.00629	1.9	18.88	33.72	0.53
East 2	2519	Hazel	13.32	251.83	253.37		253.47	0.00483	1.46	12	27.76	0.45
East 2	2519	Hazel w CC	15.97	251.83	253.45		253.55	0.004892	1.54	14.24	29.03	0.46
East 2	2480	100 Year	20.72	251.54	253.2	253.16	253.4	0.011116	2.27	15.35	40.38	0.68
East 2	2480	100 Year w C	24.96	251.54	253.31	253.31	253.46	0.008308	2.09	21.39	63.82	0.59
East 2	2480	Hazel	13.32	251.54	253.12	253	253.24	0.00697	1.7	12.25	32.52	0.53
East 2	2480	Hazel w CC	15.97	251.54	253.16	253.07	253.3	0.008238	1.9	13.6	35.18	0.58
East 2	2451	100 Year	20.72	251.58	253	253	253.11	0.007667	1.88	18.74	64.06	0.58
East 2	2451	100 Year w C	24.96	251.58	253.01	253.01	253.16	0.009636	2.13	19.81	67.12	0.66
East 2	2451	Hazel	13.32	251.58	252.84	252.81	252.99	0.01017	1.95	10.94	33.58	0.65
East 2	2451	Hazel w CC	15.97	251.58	252.92	252.92	253.05	0.008534	1.89	14.38	55.27	0.61
East 2	2425	100 Year	20.72	251.4	252.85		252.9	0.00485	1.39	24.19	65.64	0.41
East 2	2425	100 Year w C	24.96	251.4	252.91		252.96	0.004546	1.38	27.91	70.17	0.4
East 2	2425	Hazel	13.32	251.4	252.76		252.8	0.004342	1.24	18.11	57.98	0.38
East 2	2425	Hazel w CC	15.97	251.4	252.78		252.83	0.005189	1.37	19.68	60.77	0.42
East 2	2396	100 Year	20.72	251.31	252.8	252.5	252.82	0.001493	0.81	33.8	77.73	0.23
East 2	2396	100 Year w C	24.96	251.31	252.85	252.53	252.88	0.001536	0.84	38.05	81.61	0.24
East 2	2396	Hazel	13.32	251.31	252.72	252.43	252.73	0.001081	0.66	27.74	69.38	0.2
East 2	2396	Hazel w CC	15.97	251.31	252.73	252.46	252.75	0.001415	0.76	28.71	71.19	0.23
East 2	2361	100 Year	20.72	251.21	252.77	252.39	252.78	0.000828	0.63	40.88	84.43	0.17
East 2	2361	100 Year w C	24.96	251.21	252.82	252.44	252.84	0.0009	0.67	45.28	86.21	0.18
East 2	2361	Hazel	13.32	251.21	252.7	252.29	252.71	0.000513	0.47	35.17	78.16	0.13
East 2	2361	Hazel w CC	15.97	251.21	252.7	252.33	252.72	0.000711	0.56	35.63	78.42	0.16
East 2	2319	100 Year	29.85	250.9	252.68	252.4	252.73	0.0019	0.91	33	68.2	0.25
East 2	2319	100 Year w C	35.84	250.9	252.72	252.45	252.77	0.00225	1.01	35.49	73.03	0.27
East 2	2319	Hazel	19.42	250.9	252.65	252.29	252.67	0.000947	0.63	31.09	65.99	0.17
East 2	2319	Hazel w CC	23.27	250.9	252.64	252.34	252.67	0.001508	0.79	29.93	65.45	0.22
East 2	2297	100 Year	29.85	250.64	252.64	252.53	252.69	0.001757	1.31	35.89	129.76	0.38
East 2	2297	100 Year w C	35.84	250.64	252.68	252.58	252.73	0.001819	1.36	41.21	138.02	0.38

East 2	2297	Hazel	19.42	250.64	252.64	252.41	252.66	0.000753	0.86	35.69	129.55	0.25
East 2	2297	Hazel w CC	23.27	250.64	252.58	252.46	252.63	0.001784	1.29	28.56	115.76	0.38
East 2	St Vincent St	Culvert										
East 2	2262	100 Year	29.85	250.37	252.42	252.42	252.55	0.003018	2.02	23.3	81.52	0.55
East 2	2262	100 Year w C	35.84	250.37	252.47	252.47	252.6	0.002987	2.04	27.1	88.72	0.55
East 2	2262	Hazel	19.42	250.37	251.98	251.98	252.66	0.011814	3.64	5.34	14.37	1.01
East 2	2262	Hazel w CC	23.27	250.37	252.38	252.38	252.5	0.002811	1.92	19.6	77.84	0.54
East 2	2245.6	100 Year	29.85	250.2	252.04	251.94	252.2	0.007483	1.84	17.27	42.05	0.52
East 2	2245.6	100 Year w C	35.84	250.2	252.11	252.07	252.27	0.007626	1.92	20.46	52.59	0.53
East 2	2245.6	Hazel	19.42	250.2	251.95		252.05	0.005089	1.44	14.29	27.38	0.43
East 2	2245.6	Hazel w CC	23.27	250.2	251.97		252.1	0.006594	1.66	14.84	29.91	0.49
East 2	2221.3	100 Year	29.85	250.22	251.85	251.85	252.04	0.006143	2.1	20.18	60.82	0.62
East 2	2221.3	100 Year w C	35.84	250.22	251.92	251.92	252.11	0.006098	2.17	24.48	70.86	0.62
East 2	2221.3	Hazel	19.42	250.22	251.57	251.47	251.86	0.01114	2.38	8.47	13.09	0.81
East 2	2221.3	Hazel w CC	23.27	250.22	251.78	251.78	251.95	0.005704	1.95	16.29	52.37	0.59
East 2	2194.7	100 Year	29.85	250.18	251.71		251.79	0.002897	1.42	28.12	90.03	0.4
East 2	2194.7	100 Year w C	35.84	250.18	251.77		251.85	0.002826	1.44	33.76	100.67	0.4
East 2	2194.7	Hazel	19.42	250.18	251.58		251.66	0.002979	1.34	18.84	61.65	0.4
East 2	2194.7	Hazel w CC	23.27	250.18	251.64		251.71	0.002939	1.37	22.22	69.91	0.4
East 2	2166.9	100 Year	29.85	250.12	251.63		251.7	0.00322	1.27	27.52	72.68	0.36
East 2	2166.9	100 Year w C	35.84	250.12	251.68		251.76	0.003302	1.33	31.39	74.97	0.37
East 2	2166.9	Hazel	19.42	250.12	251.51		251.57	0.003142	1.18	19.94	53.49	0.35
East 2	2166.9	Hazel w CC	23.27	250.12	251.56		251.62	0.003147	1.21	22.76	61.87	0.35
East 2	2138.7	100 Year	29.85	250.05	251.58		251.63	0.001498	1.14	33.75	97.94	0.33
East 2	2138.7	100 Year w C	35.84	250.05	251.64		251.69	0.001521	1.18	39.24	101.56	0.34
East 2	2138.7	Hazel	19.42	250.05	251.46		251.5	0.001567	1.08	22.12	77.31	0.33
East 2	2138.7	Hazel w CC	23.27	250.05	251.51		251.56	0.001502	1.1	26.8	92.51	0.33
East 2	2116.8	100 Year	29.85	250.08	251.48		251.58	0.00374	1.64	23.52	72.56	0.5
East 2	2116.8	100 Year w C	35.84	250.08	251.53		251.64	0.003558	1.66	27.82	78.26	0.49
East 2	2116.8	Hazel	19.42	250.08	251.35		251.45	0.003999	1.57	16.02	49.01	0.51
East 2	2116.8	Hazel w CC	23.27	250.08	251.4		251.5	0.003836	1.59	18.96	57.35	0.5
East 2	2090.4	100 Year	29.85	250.03	251.36	251.32	251.48	0.004233	1.74	21.35	63.06	0.51
East 2	2090.4	100 Year w C	35.84	250.03	251.4	251.36	251.53	0.004499	1.84	24.36	69.92	0.53
East 2	2090.4	Hazel	19.42	250.03	251.24		251.34	0.003909	1.56	14.97	43.9	0.48
East 2	2090.4	Hazel w CC	23.27	250.03	251.29		251.4	0.004044	1.64	17.48	55.91	0.49
East 2	2069.7	100 Year	29.85	249.99	251.26	251.24	251.39	0.004399	1.79	20.94	82.33	0.54
East 2	2069.7	100 Year w C	35.84	249.99	251.33	251.29	251.44	0.003863	1.75	27.02	97.01	0.51
East 2	2069.7	Hazel	19.42	249.99	251.15		251.26	0.003861	1.57	13.98	43.83	0.5
East 2	2069.7	Hazel w CC	23.27	249.99	251.2	251.13	251.32	0.003938	1.64	16.71	64.4	0.5
East 2	2038.4	100 Year	29.09	249.96	251.27		251.3	0.000936	0.76	46.74	101.65	0.23
East 2	2038.4	100 Year w C	34.97	249.96	251.33		251.37	0.000906	0.78	53.09	102.28	0.23
East 2	2038.4	Hazel	19.79	249.96	251.16		251.18	0.000978	0.72	35.62	99.87	0.23
East 2	2038.4	Hazel w CC	23.98	249.96	251.21		251.24	0.000959	0.74	40.76	100.5	0.23
East 2	2022.5	100 Year	29.09	250.65	251.08	251.08	251.25	0.008643	1.38	16.44	48.65	0.69
East 2	2022.5	100 Year w C	34.97	250.65	251.13	251.13	251.32	0.008778	1.49	18.62	49.57	0.71
East 2	2022.5	Hazel	19.79	250.65	251	251	251.14	0.008433	1.18	12.58	47.14	0.66
East 2	2022.5	Hazel w CC	23.98	250.65	251.04	251.04	251.19	0.008382	1.27	14.48	47.8	0.67
East 2	2002.7	100 Year	29.09	249.7	251.04		251.08	0.001569	1.09	32.53	61.28	0.34
East 2	2002.7	100 Year w C	34.97	249.7	251.12		251.16	0.00147	1.11	37.4	61.75	0.33
East 2	2002.7	Hazel	19.79	249.7	250.89		250.93	0.001968	1.11	23.44	60.41	0.37
East 2	2002.7	Hazel w CC	23.98	249.7	250.95		250.99	0.001855	1.12	27.15	60.75	0.37
East 2	1971.6	100 Year	29.09	249.61	251.02	250.64	251.04	0.000758	0.7	40.08	60.03	0.21
East 2	1971.6	100 Year w C	34.97	249.61	251.1	250.68	251.13	0.000766	0.74	44.86	60.34	0.21
East 2	1971.6	Hazel	19.79	249.61	250.87	250.57	250.89	0.000779	0.65	31.03	59.55	0.2
East 2	1971.6	Hazel w CC	23.98	249.61	250.93	250.6	250.95	0.000812	0.69	34.65	59.74	0.21

East 2	1921	100 Year	51.77	249.13	250.99	250.4	251.01	0.000495	0.63	86.13	95.93	0.17
East 2	1921	100 Year w C	62.56	249.13	251.07	250.45	251.1	0.000562	0.7	93.44	96.09	0.18
East 2	1921	Hazel	34.98	249.13	250.85	250.32	250.86	0.000389	0.52	72.11	95.55	0.15
East 2	1921	Hazel w CC	42.31	249.13	250.9	250.36	250.92	0.000455	0.58	77.62	95.73	0.16
East 2	1887	100 Year	51.77	248.86	250.87	250.66	250.95	0.006536	1.77	46.56	92.49	0.55
East 2	1887	100 Year w C	62.56	248.86	250.94	250.72	251.03	0.006716	1.87	52.8	94.21	0.56
East 2	1887	Hazel	34.98	248.86	250.75	250.56	250.81	0.005607	1.51	36.61	76.66	0.5
East 2	1887	Hazel w CC	42.31	248.86	250.79	250.61	250.87	0.006587	1.68	39.6	80.57	0.54
East 2	Bothwell Cr		Culvert									
East 2	1859	100 Year	51.77	248.31	250.65	250.65	250.85	0.011222	2.76	34.49	81.42	0.91
East 2	1859	100 Year w C	62.56	248.31	250.71	250.71	250.92	0.011416	2.89	39.01	81.76	0.92
East 2	1859	Hazel	34.98	248.31	250.56	250.56	250.73	0.010053	2.43	27.19	77.74	0.84
East 2	1859	Hazel w CC	42.31	248.31	250.6	250.6	250.78	0.010648	2.59	30.52	78.08	0.88
East 2	1820	100 Year	55.4	247.48	249.99		250.25	0.005079	2.63	31.49	38.06	0.58
East 2	1820	100 Year w C	66.83	247.48	250.01	249.81	250.38	0.00697	3.11	32.46	38.52	0.69
East 2	1820	Hazel	37.94	247.48	249.91		250.06	0.002879	1.93	28.58	35.74	0.44
East 2	1820	Hazel w CC	45.66	247.48	249.95		250.15	0.003759	2.24	30.15	37.29	0.5
East 2	1785	100 Year	55.4	247.26	250.06	249.73	250.09	0.000545	0.8	74.61	136.67	0.22
East 2	1785	100 Year w C	66.83	247.26	250.13	249.76	250.17	0.000553	0.83	84.56	140.27	0.23
East 2	1785	Hazel	37.94	247.26	249.93	249.61	249.96	0.000537	0.74	57.28	129.65	0.22
East 2	1785	Hazel w CC	45.66	247.26	250	249.66	250.02	0.00053	0.76	65.81	136.45	0.22
East 2	Grove St E		Culvert									
East 2	1737	100 Year	55.4	246.76	249.91	249.91	250.09	0.004464	2.67	44.6	91.67	0.66
East 2	1737	100 Year w C	66.83	246.76	249.93	249.93	250.16	0.005723	3.06	46.86	93	0.75
East 2	1737	Hazel	37.94	246.76	249.79	249.79	249.95	0.003971	2.4	34.38	81.89	0.62
East 2	1737	Hazel w CC	45.66	246.76	249.84	249.84	250.02	0.004467	2.6	38.2	84.15	0.66
East 2	1704	100 Year	55.4	246.75	249.43		249.53	0.002004	2.06	51.76	40.73	0.43
East 2	1704	100 Year w C	66.83	246.75	249.57		249.69	0.002187	2.24	57.86	46.68	0.45
East 2	1704	Hazel	37.94	246.75	249.13		249.21	0.001886	1.83	40.01	37.91	0.41
East 2	1704	Hazel w CC	45.66	246.75	249.27		249.36	0.001957	1.95	45.21	39.07	0.42
East 2	1679	100 Year	55.4	246.66	249.22		249.44	0.005302	2.83	34.73	37.83	0.61
East 2	1679	100 Year w C	66.83	246.66	249.37		249.6	0.005066	2.89	40.69	38.18	0.6
East 2	1679	Hazel	37.94	246.66	249		249.14	0.003774	2.23	27.73	26.8	0.5
East 2	1679	Hazel w CC	45.66	246.66	249.1		249.28	0.004345	2.47	30.76	30.75	0.54
East 2	1641	100 Year	55.4	246.36	249.28		249.32	0.000786	1.26	72.61	44.8	0.25
East 2	1641	100 Year w C	66.83	246.36	249.43		249.48	0.000876	1.38	79.29	45.47	0.27
East 2	1641	Hazel	37.94	246.36	249.03		249.06	0.000611	1.04	61.5	43.62	0.22
East 2	1641	Hazel w CC	45.66	246.36	249.15		249.18	0.000692	1.15	66.68	44.25	0.23
East 2	1593.3	100 Year	55.4	246.29	249.24		249.28	0.000846	1.31	72.81	52.74	0.26
East 2	1593.3	100 Year w C	66.83	246.29	249.39		249.43	0.000912	1.42	80.5	53.19	0.28
East 2	1593.3	Hazel	37.94	246.29	249		249.03	0.000698	1.11	60.03	51.9	0.24
East 2	1593.3	Hazel w CC	45.66	246.29	249.11		249.15	0.000767	1.21	66.01	52.33	0.25
East 2	1568.2	100 Year	55.39	246.14	249.23		249.26	0.000571	1.08	86.65	51.24	0.21
East 2	1568.2	100 Year w C	66.74	246.14	249.38		249.41	0.000641	1.18	94.03	51.24	0.22
East 2	1568.2	Hazel	38.42	246.14	248.99		249.01	0.000436	0.88	74.32	50.07	0.18
East 2	1568.2	Hazel w CC	46.27	246.14	249.1		249.13	0.00051	0.99	80.05	51.24	0.19
East 2	1533.2	100 Year	55.39	245.85	248.97	248.61	249.17	0.003339	2.6	43.5	40.69	0.57
East 2	1533.2	100 Year w C	66.74	245.85	249.04	248.75	249.29	0.00429	3	46.2	44.05	0.64
East 2	1533.2	Hazel	38.42	245.85	248.82	248.41	248.95	0.002305	2.06	37.87	35.45	0.47
East 2	1533.2	Hazel w CC	46.27	245.85	248.89	248.52	249.05	0.002827	2.33	40.37	35.66	0.52
East 2	Parkdale Cr		Culvert									
East 2	1498.8	100 Year	55.39	245.03	248.12	248.12	248.39	0.004216	2.79	33.42	53.1	0.64
East 2	1498.8	100 Year w C	66.74	245.03	248.18	248.18	248.49	0.004926	3.08	36.49	53.54	0.69

East 2	1498.8	Hazel	38.42	245.03	247.37	247.37	248.53	0.009623	4.77	8.06	19.22	1
East 2	1498.8	Hazel w CC	46.27	245.03	248.03	248.03	248.3	0.004175	2.7	28.78	52.62	0.63
East 2	1487.5	100 Year	55.39	244.68	247.72		247.78	0.001041	1.42	62.78	51.81	0.27
East 2	1487.5	100 Year w C	66.74	244.68	247.82		247.9	0.001183	1.55	68.11	53.32	0.29
East 2	1487.5	Hazel	38.42	244.68	247.54		247.59	0.000763	1.17	53.86	49.67	0.23
East 2	1487.5	Hazel w CC	46.27	244.68	247.64		247.69	0.000883	1.28	58.51	50.54	0.25
East 2	1477.2	100 Year	55.39	244.55	247.63	247.32	247.75	0.002084	1.87	44.49	55.19	0.44
East 2	1477.2	100 Year w C	66.74	244.55	247.71	247.43	247.86	0.002293	2.02	49.14	56.26	0.47
East 2	1477.2	Hazel	38.42	244.55	247.47	247.2	247.56	0.001798	1.63	35.89	53.32	0.4
East 2	1477.2	Hazel w CC	46.27	244.55	247.56	247.28	247.66	0.00187	1.72	40.6	54.4	0.41
East 2	Davidson St	Culvert										
East 2	1391.9	100 Year	55.39	244.22	246.75	246.75	246.94	0.005038	2.66	35.93	71.28	0.68
East 2	1391.9	100 Year w C	66.74	244.22	246.79	246.79	247.02	0.005877	2.92	38.9	71.95	0.74
East 2	1391.9	Hazel	38.42	244.22	246.61	246.61	246.81	0.005131	2.54	26.87	59.06	0.68
East 2	1391.9	Hazel w CC	46.27	244.22	246.68	246.68	246.87	0.005116	2.61	31.11	64.76	0.68
East 2	1373.1	100 Year	55.39	244.36	246.28		246.5	0.006116	2.74	33.22	48.29	0.68
East 2	1373.1	100 Year w C	66.74	244.36	246.38		246.6	0.00566	2.74	38.13	49.74	0.66
East 2	1373.1	Hazel	38.42	244.36	246.09		246.31	0.006649	2.64	25.25	37.25	0.7
East 2	1373.1	Hazel w CC	46.27	244.36	246.18		246.41	0.006613	2.74	28.8	44.48	0.7
East 2	1349.3	100 Year	55.39	243.71	246.24		246.38	0.002736	1.8	36.94	42.38	0.38
East 2	1349.3	100 Year w C	66.74	243.71	246.32		246.49	0.003072	1.96	40.4	42.84	0.41
East 2	1349.3	Hazel	38.42	243.71	246.08		246.19	0.002251	1.56	30.5	41.27	0.34
East 2	1349.3	Hazel w CC	46.27	243.71	246.16		246.28	0.002469	1.68	33.73	41.89	0.36
East 2	1321.1	100 Year	55.39	245.05	245.96	245.96	246.23	0.012216	2.82	26.92	50.34	0.97
East 2	1321.1	100 Year w C	66.74	245.05	246.04	246.04	246.33	0.011992	2.96	30.98	53.41	0.98
East 2	1321.1	Hazel	38.42	245.05	245.82	245.82	246.05	0.01251	2.54	20.36	45.97	0.96
East 2	1321.1	Hazel w CC	46.27	245.05	245.89	245.89	246.13	0.012555	2.69	23.38	48.36	0.97
East 2	1293.7	100 Year	55.39	244.57	245.37	245.37	245.6	0.013177	2.63	27.04	53.64	0.99
East 2	1293.7	100 Year w C	66.74	244.57	245.42	245.42	245.69	0.013468	2.79	30.07	54.08	1.01
East 2	1293.7	Hazel	38.42	244.57	245.26	245.26	245.45	0.013471	2.39	21.48	52.49	0.97
East 2	1293.7	Hazel w CC	46.27	244.57	245.31	245.31	245.52	0.013725	2.54	23.93	53	0.99
East 2	1265.5	100 Year	55.39	243.95	244.84	244.84	245.16	0.006355	2.06	23.48	41.45	0.71
East 2	1265.5	100 Year w C	66.74	243.95	244.92	244.92	245.28	0.005825	2.09	26.92	41.86	0.69
East 2	1265.5	Hazel	38.42	243.95	244.71	244.71	244.95	0.00741	1.98	18.02	38.8	0.74
East 2	1265.5	Hazel w CC	46.27	243.95	244.76	244.76	245.05	0.007207	2.06	20.33	40.73	0.74
East 2	1249.8	100 Year	55.39	243.49	244.49	244.49	244.83	0.00747	2.39	24.51	45.24	0.82
East 2	1249.8	100 Year w C	66.74	243.49	244.59	244.59	244.96	0.006912	2.47	29.12	48.11	0.81
East 2	1249.8	Hazel	38.42	243.49	244.32	244.3	244.6	0.008849	2.23	17.67	35.07	0.86
East 2	1249.8	Hazel w CC	46.27	243.49	244.39	244.39	244.71	0.008974	2.39	19.97	36.61	0.88
East 2	1225.2	100 Year	61.95	243.3	244.33	244.33	244.65	0.003547	1.87	28.93	51.89	0.67
East 2	1225.2	100 Year w C	74.25	243.3	244.45	244.45	244.76	0.002874	1.83	35.23	54.86	0.62
East 2	1225.2	Hazel	44.02	243.3	244.2	244.2	244.46	0.003947	1.75	22.12	46.94	0.7
East 2	1225.2	Hazel w CC	53.16	243.3	244.29	244.29	244.56	0.003305	1.74	26.71	49.91	0.65
East 2	1206.2	100 Year	65.17	240.2	242.51	242.51	242.93	0.00745	3.26	30.66	38.36	0.74
East 2	1206.2	100 Year w C	78.21	240.2	242.64	242.64	243.08	0.007593	3.44	35.68	40.15	0.76
East 2	1206.2	Hazel	47.73	240.2	242.3	242.3	242.68	0.007044	2.95	23.26	34.96	0.71
East 2	1206.2	Hazel w CC	57.68	240.2	242.4	242.4	242.83	0.007737	3.2	26.74	36.16	0.75
East 2	1195.3	100 Year	65.17	240.2	242.14		242.42	0.011153	2.79	34.1	42.11	0.67
East 2	1195.3	100 Year w C	78.21	240.2	242.29		242.56	0.010308	2.83	40.21	43.59	0.66
East 2	1195.3	Hazel	47.73	240.2	241.95	241.92	242.22	0.011158	2.64	26.32	40.7	0.67
East 2	1195.3	Hazel w CC	57.68	240.2	242.08		242.34	0.010831	2.69	31.42	41.61	0.66
East 2	1165.7	100 Year	65.17	239.57	241.76	241.7	242.09	0.010214	3.05	31.03	33.67	0.69
East 2	1165.7	100 Year w C	78.21	239.57	241.91		242.25	0.009846	3.15	36.24	35.54	0.68
East 2	1165.7	Hazel	47.73	239.57	241.5	241.5	241.86	0.011768	3	22.73	31.89	0.72
East 2	1165.7	Hazel w CC	57.68	239.57	241.63	241.63	242	0.011445	3.1	26.94	32.86	0.72

East 2	1143.9	100 Year	65.17	239.24	241.35	241.35	241.81	0.01499	3.53	25.88	27.54	0.8
East 2	1143.9	100 Year w C	78.21	239.24	241.51	241.51	241.98	0.014494	3.65	30.2	28.83	0.8
East 2	1143.9	Hazel	47.73	239.24	241.16	241.16	241.56	0.014138	3.2	20.61	25.98	0.77
East 2	1143.9	Hazel w CC	57.68	239.24	241.29	241.29	241.71	0.014105	3.35	24.07	27.07	0.77
East 2	1121	100 Year	65.17	238.76	241.1	241.1	241.44	0.011155	3.37	37.31	53.63	0.75
East 2	1121	100 Year w C	78.21	238.76	241.22	241.22	241.56	0.011319	3.52	43.72	57.72	0.76
East 2	1121	Hazel	47.73	238.76	240.96	240.96	241.25	0.009758	3	29.98	48.62	0.69
East 2	1121	Hazel w CC	57.68	238.76	241.05	241.05	241.36	0.010351	3.19	34.64	50.46	0.72
East 2	1088.7	100 Year	65.17	238.16	240.93		240.97	0.000694	0.83	69.14	64.78	0.17
East 2	1088.7	100 Year w C	78.21	238.16	241.07		241.12	0.000672	0.85	78.33	66.07	0.17
East 2	1088.7	Hazel	47.73	238.16	240.76		240.8	0.000629	0.75	58.75	63.35	0.16
East 2	1088.7	Hazel w CC	57.68	238.16	240.86		240.91	0.000657	0.8	65.17	64.13	0.17
East 2	1069	100 Year	65.17	238.02	240.87		240.95	0.001233	1.32	53.08	77.55	0.26
East 2	1069	100 Year w C	78.21	238.02	241.02		241.1	0.000884	1.16	64.89	78.66	0.22
East 2	1069	Hazel	47.73	238.02	240.7		240.78	0.001608	1.44	40.22	71.42	0.29
East 2	1069	Hazel w CC	57.68	238.02	240.81		240.88	0.001346	1.36	48.23	76.6	0.27
East 2	1042.7	100 Year	65.17	237.74	240.82		240.9	0.002757	1.94	68.25	63.91	0.37
East 2	1042.7	100 Year w C	78.21	237.74	240.99		241.06	0.002572	1.94	79.58	73.01	0.36
East 2	1042.7	Hazel	47.73	237.74	240.66		240.72	0.002101	1.63	59.42	48.61	0.32
East 2	1042.7	Hazel w CC	57.68	237.74	240.76		240.84	0.002486	1.82	64.57	56.35	0.35
East 2	1016.9	100 Year	65.17	237.33	240.81		240.84	0.001306	1.09	85.44	46.9	0.2
East 2	1016.9	100 Year w C	78.21	237.33	240.96		241	0.001454	1.19	93.26	51.63	0.21
East 2	1016.9	Hazel	47.73	237.33	240.65		240.68	0.000911	0.88	78.4	45.05	0.16
East 2	1016.9	Hazel w CC	57.68	237.33	240.75		240.78	0.001124	1	82.84	45.57	0.18
East 2	992.8	100 Year	65.17	237.25	240.78		240.82	0.000848	1.25	84.11	48.17	0.22
East 2	992.8	100 Year w C	78.21	237.25	240.93		240.97	0.000947	1.36	91.46	50.12	0.23
East 2	992.8	Hazel	47.73	237.25	240.63		240.66	0.000588	1.01	77.25	47.16	0.18
East 2	992.8	Hazel w CC	57.68	237.25	240.72		240.76	0.000727	1.15	81.64	47.79	0.2
East 2	973	100 Year	62.15	236.84	240.67		240.79	0.0014	1.78	53.1	50.2	0.3
East 2	973	100 Year w C	80.64	236.84	240.77		240.94	0.001939	2.13	58.61	58.16	0.35
East 2	973	Hazel	45.3	236.84	240.56		240.64	0.000914	1.41	48.02	46.36	0.24
East 2	973	Hazel w CC	55.76	236.84	240.63		240.73	0.001214	1.64	51.22	47.91	0.28
East 2	942.8	100 Year	62.15	239.71	240.46	240.46	240.68	0.011837	1.53	31.33	71.57	0.59
East 2	942.8	100 Year w C	80.64	239.71	240.55	240.55	240.81	0.011764	1.64	37.29	72.37	0.6
East 2	942.8	Hazel	45.3	239.71	240.38	240.38	240.56	0.011565	1.39	25.47	70.67	0.57
East 2	942.8	Hazel w CC	55.76	239.71	240.43	240.43	240.64	0.011797	1.48	29.16	71.27	0.59
East 2	910.8	100 Year	62.15	238.42	238.38		238.43	0.003438		64.07	87.16	0
East 2	910.8	100 Year w C	80.64	238.42	238.57		238.62	0.002787	0.31	82.02	102.96	0.33
East 2	910.8	Hazel	45.3	238.42	238.2		238.24	0.003782		49.67	74.48	0
East 2	910.8	Hazel w CC	55.76	238.42	238.31		238.36	0.003512		58.16	77.65	0
East 2	885.9	100 Year	62.15	237.86	237.97		238.24	0.018826	0.51	27.08	33.73	0.75
East 2	885.9	100 Year w C	80.64	237.86	238.04	238.01	238.43	0.025063	0.78	29.55	39.52	0.92
East 2	885.9	Hazel	45.3	237.86	237.91		238.07	0.012754	0.2	24.96	30.29	0.51
East 2	885.9	Hazel w CC	55.76	237.86	237.95		238.18	0.016559	0.4	26.27	32.27	0.68
East 2	857.6	100 Year	62.15	237.43	237.64	237.64	237.8	0.011409	0.77	35.81	108.38	0.67
East 2	857.6	100 Year w C	80.64	237.43	237.7	237.7	237.89	0.012154	0.98	42.35	113	0.73
East 2	857.6	Hazel	45.3	237.43	237.56	237.56	237.71	0.012669	0.47	27.16	103.72	0.65
East 2	857.6	Hazel w CC	55.76	237.43	237.62	237.62	237.77	0.011491	0.68	33.05	107.27	0.66
East 2	808.7	100 Year	62.15	237.05	236.86	236.86	237.12	0.011808		27.3	51.44	0
East 2	808.7	100 Year w C	80.64	237.05	236.99	236.99	237.26	0.009437		35.08	64.85	0
East 2	808.7	Hazel	45.3	237.05	236.78	236.75	236.97	0.010438		23.3	49.22	0
East 2	808.7	Hazel w CC	55.76	237.05	236.83	236.8	237.07	0.011126		25.98	49.76	0
East 2	745	100 Year	62.15	235.79	236.16	236.16	236.32	0.01104	0.7	36.67	108.48	0.47
East 2	745	100 Year w C	80.64	235.79	236.24	236.24	236.41	0.010293	0.81	46.82	141.24	0.48
East 2	745	Hazel	45.3	235.79	236.05	236.05	236.22	0.013276	0.54	26.17	83.42	0.48

East 2	745	Hazel w CC	55.76	235.79	236.11	236.11	236.29	0.012685	0.67	31.62	94.46	0.49
East 2	711.1	100 Year	62.15	234.96	235.32	235.32	235.56	0.00267	0.54	31.4	73.5	0.38
East 2	711.1	100 Year w C	80.64	234.96	235.46	235.46	235.68	0.002243	0.61	43.36	98.05	0.38
East 2	711.1	Hazel	45.3	234.96	235.22	235.22	235.42	0.002875	0.43	24.46	67.65	0.36
East 2	711.1	Hazel w CC	55.76	234.96	235.29	235.29	235.51	0.002648	0.51	29.14	71.54	0.37
East 2	685.7	100 Year	62.15	234.6	234.64	234.64	234.75	0.003772	0.37	48.71	221	0.72
East 2	685.7	100 Year w C	80.64	234.6	234.69	234.69	234.81	0.00381	0.58	58.26	231.14	0.81
East 2	685.7	Hazel	45.3	234.6	234.6	234.6	234.69	0.00364	0.08	39.72	207.65	0.48
East 2	685.7	Hazel w CC	55.76	234.6	234.63	234.63	234.73	0.003875	0.27	44.82	216.49	0.67
East 2	651.5	100 Year	62.15	233.8	233.81	233.81	233.92	0.00412	0.07	42.65	202.1	0.48
East 2	651.5	100 Year w C	80.64	233.8	233.85	233.85	233.98	0.003953	0.23	51.82	213.18	0.65
East 2	651.5	Hazel	45.3	233.8	233.76	233.76	233.86	0.004116		34.19	191.84	0
East 2	651.5	Hazel w CC	55.76	233.8	233.79	233.79	233.89	0.003973		40.05	198.9	0
East 2	618.5	100 Year	62.15	233.4	233.31	233.29	233.43	0.004805		41.14	146.95	0
East 2	618.5	100 Year w C	80.64	233.4	233.36	233.34	233.5	0.00511		48.57	153.35	0
East 2	618.5	Hazel	45.3	233.4	233.26	233.24	233.35	0.004286		34.17	140.94	0
East 2	618.5	Hazel w CC	55.76	233.4	233.29	233.27	233.4	0.004502		38.94	144.66	0
East 2	584.7	100 Year	65.84	233.09	233.16	233.16	233.29	0.003533	0.41	41.61	170.18	0.72
East 2	584.7	100 Year w C	85.1	233.09	233.21	233.21	233.35	0.003613	0.51	51.03	188	0.76
East 2	584.7	Hazel	49.64	233.09	233.11	233.11	233.22	0.003422	0.16	33.36	151.76	0.56
East 2	584.7	Hazel w CC	61.1	233.09	233.15	233.15	233.27	0.003279	0.37	40.34	167.79	0.68
East 2	550.7	100 Year	65.84	232.82	233.11	232.89	233.15	0.000637	0.09	72.73	192.77	0.1
East 2	550.7	100 Year w C	85.1	232.82	233.22	232.95	233.26	0.000522	0.13	95.47	216.18	0.1
East 2	550.7	Hazel	49.64	232.82	232.99	232.83	233.04	0.000761	0.09	52.42	166.3	0.1
East 2	550.7	Hazel w CC	61.1	232.82	233.08	232.87	233.12	0.000677	0.1	67.2	183.41	0.1
East 2	520.4	100 Year	65.84	232.49	232.85	232.85	233.07	0.030056	1.06	32.96	74.86	0.77
East 2	520.4	100 Year w C	85.1	232.49	232.96	232.96	233.19	0.02601	1.2	41.7	87.95	0.75
East 2	520.4	Hazel	49.64	232.49	232.76	232.76	232.95	0.032158	0.85	26.41	69.13	0.74
East 2	520.4	Hazel w CC	61.1	232.49	232.82	232.82	233.04	0.03153	1.02	30.75	72.52	0.77
East 2	491.1	100 Year	65.84	231.85	232.31	232.31	232.52	0.00942	1.07	33.41	79.32	0.69
East 2	491.1	100 Year w C	85.1	231.85	232.4	232.4	232.63	0.008627	1.24	41.58	88.64	0.72
East 2	491.1	Hazel	49.64	231.85	232.22	232.22	232.41	0.010013	0.9	26.81	72.69	0.68
East 2	491.1	Hazel w CC	61.1	231.85	232.29	232.29	232.49	0.00904	1.01	32.16	78.19	0.67
East 2	458.4	100 Year	65.84	231.1	231.41	231.41	231.58	0.035473	1.76	36.9	112.63	1.3
East 2	458.4	100 Year w C	85.1	231.1	231.48	231.48	231.67	0.033037	1.91	45.01	120.85	1.31
East 2	458.4	Hazel	49.64	231.1	231.35	231.35	231.49	0.036469	1.49	30.19	107.09	1.26
East 2	458.4	Hazel w CC	61.1	231.1	231.39	231.39	231.55	0.037005	1.7	34.58	110.75	1.31
East 2	426.7	100 Year	65.84	229.58	230.21	230.21	230.41	0.009147	1.1	41.64	113.12	0.49
East 2	426.7	100 Year w C	85.1	229.58	230.31	230.31	230.51	0.008287	1.18	54.64	132.93	0.48
East 2	426.7	Hazel	49.64	229.58	230.11	230.11	230.3	0.009603	0.98	31.44	87.96	0.49
East 2	426.7	Hazel w CC	61.1	229.58	230.18	230.18	230.38	0.009211	1.07	38.73	109.81	0.49
East 2	398	100 Year	65.84	227.21	227.23	227.23	227.38	0.005558	0.06	37.97	119.85	0.2
East 2	398	100 Year w C	85.1	227.21	227.29	227.29	227.47	0.006354	0.09	45.66	132.96	0.23
East 2	398	Hazel	49.64	227.21	227.16	227.16	227.3	0.004993		29.79	107.5	0
East 2	398	Hazel w CC	61.1	227.21	227.21	227.21	227.36	0.005425		35.65	118.19	0
East 2	369.7	100 Year	65.84	225.58	226.07	226.07	226.21	0.005045	2.12	46.01	177.69	1.23
East 2	369.7	100 Year w C	85.1	225.58	226.13	226.13	226.29	0.004916	2.37	58.34	209.44	1.25
East 2	369.7	Hazel	49.64	225.58	226.01	226.01	226.14	0.005	1.89	35.9	142.08	1.19
East 2	369.7	Hazel w CC	61.1	225.58	226.05	226.05	226.19	0.005044	2.06	43.04	164.91	1.22
East 2	334.5	100 Year	68.38	224.15	225.05	225.05	225.28	0.00638	2.14	33.83	74.05	0.81
East 2	334.5	100 Year w C	88.57	224.15	225.15	225.15	225.4	0.0062	2.3	40.76	75.47	0.82
East 2	334.5	Hazel	52.77	224.15	224.9	224.9	225.15	0.009808	2.23	24.12	47.31	0.95
East 2	334.5	Hazel w CC	64.94	224.15	225.03	225.03	225.25	0.006751	2.15	31.9	73.67	0.83
East 2	285.5	100 Year	68.38	223.48	223.69	223.69	223.85	0.003833	0.46	39.67	128.36	0.4
East 2	285.5	100 Year w C	88.57	223.48	223.76	223.76	223.94	0.004471	0.6	47.82	130.43	0.45

East 2	285.5	Hazel	52.77	223.48	223.64	223.64	223.78	0.003101	0.33	32.82	121.11	0.34
East 2	285.5	Hazel w CC	64.94	223.48	223.68	223.68	223.84	0.003753	0.44	37.9	127.9	0.39
East 2	236	100 Year	68.64	221.03	221.15	221.12	221.26	0.008417	0.85	49.83	192.95	1.1
East 2	236	100 Year w C	88.86	221.03	221.22	221.19	221.33	0.007368	1.1	63.35	216.17	1.1
East 2	236	Hazel	53.03	221.03	221.11	221.06	221.2	0.007793	0.68	42.31	170.98	1.08
East 2	236	Hazel w CC	65.27	221.03	221.14	221.11	221.25	0.008985	0.85	46.8	184.76	1.15
East 2	98.3	100 Year	68.64	219.9	220.64		220.67	0.002355	0.93	100.04	325.67	0.41
East 2	98.3	100 Year w C	88.86	219.9	220.68		220.72	0.002694	1.04	113.14	338.79	0.44
East 2	98.3	Hazel	53.03	219.9	220.58		220.61	0.00256	0.89	82.26	295.76	0.41
East 2	98.3	Hazel w CC	65.27	219.9	220.64		220.66	0.002242	0.9	98.39	323.88	0.4
East 2	17.1	100 Year	68.64	219.69	220.06	220.06	220.28	0.013069	3.08	45.82	180.59	1.94
East 2	17.1	100 Year w C	88.86	219.69	220.26	220.26	220.43	0.004495	2.67	102.17	334	1.25
East 2	17.1	Hazel	53.03	219.69	219.98	219.98	220.16	0.01813	2.85	34.46	118.71	2.15
East 2	17.1	Hazel w CC	65.27	219.69	220.02	220.02	220.25	0.017108	3.17	40.02	136.49	2.16
East 2	2	100 Year	68.64	218.33	219.13	218.47	219.13	0.000179	0.21	328.55	410.8	0.07
East 2	2	100 Year w C	88.86	218.33	219.13	218.5	219.13	0.0003	0.27	328.55	410.8	0.1
East 2	2	Hazel	53.03	218.33	219.13	218.45	219.13	0.000107	0.16	328.55	410.8	0.06
East 2	2	Hazel w CC	65.27	218.33	219.13	218.46	219.13	0.000162	0.2	328.55	410.8	0.07
East 1	675.3	100 Year	13.03	258.07	258.57	258.57	258.7	0.037808	1.32	8.39	33.46	0.87
East 1	675.3	100 Year w C	15.69	258.07	258.61	258.61	258.75	0.037736	1.46	9.67	34.76	0.89
East 1	675.3	Hazel	7.93	258.07	258.47	258.47	258.58	0.040035	1.25	5.37	25.15	0.87
East 1	675.3	Hazel w CC	9.5	258.07	258.51	258.51	258.63	0.038	1.29	6.39	28.71	0.86
East 1	582.7	100 Year	13.03	256.36	256.79	256.72	256.8	0.009052	0.86	24.9	166.38	0.5
East 1	582.7	100 Year w C	15.69	256.36	256.8	256.73	256.82	0.011078	0.96	26.37	169.32	0.56
East 1	582.7	Hazel	7.93	256.36	256.74	256.69	256.76	0.009297	0.79	17.71	152.14	0.49
East 1	582.7	Hazel w CC	9.5	256.36	256.76	256.7	256.77	0.009525	0.82	19.8	155.7	0.5
East 1	547.4	100 Year	13.03	255.29	256.47	256.37	256.53	0.006816	1.35	14.21	68.11	0.55
East 1	547.4	100 Year w C	15.69	255.29	256.54	256.42	256.58	0.004737	1.2	18.83	77.01	0.46
East 1	547.4	Hazel	7.93	255.29	256.31	256.25	256.38	0.011826	1.47	6.72	25.38	0.69
East 1	547.4	Hazel w CC	9.5	255.29	256.36	256.31	256.43	0.009947	1.42	8.19	33.99	0.64
East 1	499.9	100 Year	13.03	254.17	255.73	255.73	256.1	0.010691	2.77	5.57	9.55	0.85
East 1	499.9	100 Year w C	15.69	254.17	255.87	255.87	256.23	0.009543	2.81	7.19	13.17	0.81
East 1	499.9	Hazel	7.93	254.17	255.4	255.4	255.74	0.014378	2.61	3.13	4.99	0.96
East 1	499.9	Hazel w CC	9.5	254.17	255.52	255.52	255.87	0.012785	2.66	3.82	6.65	0.91
East 1	402	100 Year	13.03	252.28	253.92	252.9	253.92	0.000035	0.18	71.13	63	0.05
East 1	402	100 Year w C	15.69	252.28	253.98	252.92	253.98	0.000044	0.21	74.89	63.31	0.06
East 1	402	Hazel	7.93	252.28	253.71	252.85	253.72	0.000024	0.14	58.42	61.95	0.04
East 1	402	Hazel w CC	9.5	252.28	253.81	252.86	253.81	0.000025	0.15	64.59	62.46	0.05
East 1	374	100 Year	13.03	252.17	253.91	253.51	253.92	0.000042	0.29	45.85	85.76	0.12
East 1	374	100 Year w C	15.69	252.17	253.97	253.52	253.98	0.000043	0.31	50.94	86.23	0.13
East 1	374	Hazel	7.93	252.17	253.71	253.1	253.71	0.000074	0.28	28.51	84.22	0.15
East 1	374	Hazel w CC	9.5	252.17	253.81	253.48	253.81	0.000045	0.26	36.97	84.94	0.12
East 1	300		Culvert									
East 1	108.1	100 Year	18.12	251.71	251.73	251.68	251.82	0.026971	0.21	14.18	52.44	0.76
East 1	108.1	100 Year w C	21.97	251.71	251.82	251.72	251.88	0.016743	1.19	19.29	65.89	1.47
East 1	108.1	Hazel	11.15	251.71	251.61	251.61	251.7	0.052597		8.17	43.51	0
East 1	108.1	Hazel w CC	13.36	251.71	251.63	251.63	251.74	0.050693		9.38	45.53	0
East 1	81.8	100 Year	23.92	249.59	251.45	251.29	251.55	0.005879	1.7	19.44	40.23	0.48
East 1	81.8	100 Year w C	28.98	249.59	251.52	251.37	251.63	0.006652	1.82	22.05	40.35	0.5
East 1	81.8	Hazel	15.19	249.59	251.32	250.82	251.39	0.004127	1.4	14.02	39.78	0.41
East 1	81.8	Hazel w CC	18.21	249.59	251.37	250.92	251.45	0.004808	1.52	16.11	40.09	0.44
East 1	27.8	100 Year	23.92	249.4	251.4	251.1	251.41	0.001142	0.67	57.23	107.24	0.19
East 1	27.8	100 Year w C	28.98	249.4	251.46	251.13	251.47	0.001157	0.7	64.38	107.41	0.19
East 1	27.8	Hazel	15.19	249.4	251.25	251.03	251.26	0.001195	0.64	41.96	107	0.19
East 1	27.8	Hazel w CC	18.21	249.4	251.31	251.06	251.32	0.00114	0.64	48.04	107.06	0.18

East 1	0	100 Year	23.92	249.32	251.17	251.17	251.33	0.005569	2.33	23.03	58.12	0.59
East 1	0	100 Year w C	28.98	249.32	251.22	251.22	251.4	0.006285	2.52	25.79	58.42	0.63
East 1	0	Hazel	15.19	249.32	250.93	250.93	251.17	0.007869	2.47	10.4	27.69	0.68
East 1	0	Hazel w CC	18.21	249.32	251.11	251.11	251.25	0.004804	2.1	19.14	57.87	0.54
West	729	100 Year	3.7	227.14	227.73	227.73	227.94	0.043378	2.03	1.82	4.39	1.01
West	729	100 Year w C	4.4	227.14	227.79	227.79	228.02	0.042409	2.11	2.08	4.65	1.01
West	729	Hazel	2.26	227.14	227.59	227.59	227.76	0.046364	1.8	1.25	3.83	1.01
West	729	Hazel w CC	2.72	227.14	227.64	227.64	227.82	0.045305	1.89	1.44	4.01	1.01
West	698	100 Year	3.7	225.75	226.48	226.48	226.66	0.01826	1.91	1.94	5.33	1.01
West	698	100 Year w C	4.4	225.75	226.53	226.53	226.73	0.018139	1.98	2.22	5.66	1.01
West	698	Hazel	2.26	225.75	226.34	226.34	226.5	0.018972	1.75	1.29	4.13	1
West	698	Hazel w CC	2.72	225.75	226.39	226.39	226.56	0.018671	1.8	1.51	4.57	1
West	656	100 Year	3.7	224.78	225.51	225.51	225.7	0.017679	1.95	2.04	5.87	0.95
West	656	100 Year w C	4.4	224.78	225.55	225.55	225.76	0.017532	2.08	2.31	6.05	0.96
West	656	Hazel	2.26	224.78	225.39	225.39	225.53	0.019714	1.68	1.39	5.33	0.95
West	656	Hazel w CC	2.72	224.78	225.43	225.43	225.59	0.018582	1.77	1.61	5.57	0.94
West	618	100 Year	1.1	223.87	224.41	224.36	224.47	0.012333	1.15	0.96	4.24	0.77
West	618	100 Year w C	1.36	223.87	224.45	224.39	224.52	0.011174	1.18	1.15	4.54	0.75
West	618	Hazel	1	223.87	224.39	224.34	224.45	0.0125	1.12	0.89	4.13	0.77
West	618	Hazel w CC	1.22	223.87	224.43	224.38	224.5	0.01149	1.15	1.06	4.39	0.75
West	580	100 Year	1.1	223.22	223.7	223.7	223.82	0.022749	1.59	0.69	2.7	1
West	580	100 Year w C	1.36	223.22	223.74	223.74	223.88	0.024207	1.64	0.83	3.02	1
West	580	Hazel	1	223.22	223.67	223.67	223.8	0.021714	1.56	0.64	2.56	1
West	580	Hazel w CC	1.22	223.22	223.72	223.72	223.85	0.0238	1.62	0.76	2.86	1
West	550	Park St	Culvert									
West	531	100 Year	1.1	222.63	223.7		223.71	0.000199	0.38	2.88	19.32	0.12
West	531	100 Year w C	1.36	222.63	223.72		223.73	0.000283	0.46	2.94	20.4	0.15
West	531	Hazel	1	222.63	223.69		223.69	0.000174	0.35	2.83	19.18	0.12
West	531	Hazel w CC	1.22	222.63	223.71		223.72	0.000242	0.42	2.89	19.36	0.14
West	505	100 Year	1.1	222.3	223.7		223.71	0.00004	0.16	8.03	12.66	0.05
West	505	100 Year w C	1.36	222.3	223.73		223.73	0.000055	0.2	8.31	12.8	0.06
West	505	Hazel	1	222.3	223.69		223.69	0.000035	0.15	7.83	12.57	0.05
West	505	Hazel w CC	1.22	222.3	223.71		223.71	0.000048	0.18	8.09	12.69	0.06
West	477	100 Year	1.1	223.46	223.7		223.7	0.001535	0.36	3.21	25.61	0.27
West	477	100 Year w C	1.36	223.46	223.72		223.72	0.001451	0.37	3.76	27.76	0.27
West	477	Hazel	1	223.46	223.68		223.69	0.001901	0.37	2.81	24	0.29
West	477	Hazel w CC	1.22	223.46	223.7		223.71	0.001759	0.39	3.29	25.98	0.29
West	436	100 Year	1.44	223.24	223.6		223.62	0.002767	0.51	2.86	17.49	0.37
West	436	100 Year w C	1.76	223.24	223.61		223.63	0.003998	0.61	2.9	17.97	0.44
West	436	Hazel	1.18	223.24	223.55	223.47	223.57	0.004714	0.57	2.06	13	0.46
West	436	Hazel w CC	1.43	223.24	223.58	223.48	223.6	0.003865	0.57	2.52	15.27	0.43
West	396	100 Year	6.17	222.91	223.17	223.17	223.24	0.013834	1.29	5.39	41.98	0.98
West	396	100 Year w C	7.36	222.91	223.19	223.19	223.26	0.011194	1.26	6.42	42.78	0.9
West	396	Hazel	3.87	222.91	223.14	223.14	223.19	0.012181	1.07	4.16	40.3	0.89
West	396	Hazel w CC	4.67	222.91	223.15	223.15	223.21	0.014027	1.19	4.5	40.82	0.96
West	352	100 Year	6.17	222.43	222.79	222.79	222.89	0.004712	1.45	5.27	35.16	0.91
West	352	100 Year w C	7.36	222.43	222.81	222.81	222.92	0.004949	1.56	6.07	39.39	0.94
West	352	Hazel	3.87	222.43	222.73	222.73	222.81	0.005338	1.28	3.49	24.57	0.93
West	352	Hazel w CC	4.67	222.43	222.75	222.75	222.84	0.005206	1.36	4.06	25.83	0.93
West	324	100 Year	6.17	222.2	222.48	222.48	222.56	0.007422	1.33	5.26	33.16	0.89
West	324	100 Year w C	7.36	222.2	222.5	222.5	222.59	0.007194	1.4	6.02	34.72	0.9
West	324	Hazel	3.87	222.2	222.42	222.42	222.49	0.008803	1.18	3.59	28.36	0.91
West	324	Hazel w CC	4.67	222.2	222.45	222.45	222.52	0.008031	1.23	4.21	30.23	0.9
West	307	100 Year	7.33	221.94	222.17	222.17	222.25	0.006305	0.76	6.8	38.97	0.6

West	307	100 Year w C	8.72	221.94	222.2	222.2	222.28	0.005927	0.81	7.96	41.26	0.6
West	307	Hazel	4.38	221.94	222.11	222.11	222.18	0.006802	0.61	4.66	37	0.58
West	307	Hazel w CC	5.28	221.94	222.14	222.14	222.2	0.006043	0.65	5.52	37.81	0.56
West	275	100 Year	7.33	220.11	221.52		221.55	0.000299	1.06	14.76	45.75	0.31
West	275	100 Year w C	8.72	220.11	221.55		221.59	0.000352	1.17	16.04	46.14	0.34
West	275	Hazel	4.38	220.11	221.45		221.47	0.000167	0.76	11.92	38.27	0.23
West	275	Hazel w CC	5.28	220.11	221.48		221.5	0.000209	0.86	12.8	41.9	0.26
West	249	100 Year	7.33	220.97	221.54	221.15	221.54	0.000062	0.31	24.6	49.64	0.14
West	249	100 Year w C	8.72	220.97	221.57	221.17	221.57	0.000073	0.35	26.08	49.86	0.15
West	249	Hazel	4.38	220.97	221.46	221.1	221.47	0.000036	0.21	20.99	49.2	0.1
West	249	Hazel w CC	5.28	220.97	221.49	221.11	221.49	0.000044	0.24	22.18	49.32	0.12
West	222	100 Year	7.33	221.17	221.45	221.45	221.53	0.008215	1.51	6.92	42.58	1.03
West	222	100 Year w C	8.72	221.17	221.46	221.46	221.56	0.008652	1.62	7.67	43.69	1.06
West	222	Hazel	4.38	221.17	221.39	221.39	221.46	0.008269	1.28	4.79	38.78	1
West	222	Hazel w CC	5.28	221.17	221.41	221.41	221.48	0.007925	1.34	5.55	39.82	0.99
West	191	100 Year	11.27	220.58	221.04	221.04	221.16	0.00799	1.67	8.04	35.26	0.86
West	191	100 Year w C	13.32	220.58	221.07	221.07	221.2	0.007743	1.74	9.25	36.42	0.86
West	191	Hazel	6.23	220.58	220.92	220.92	221.03	0.010167	1.49	4.51	25.5	0.92
West	191	Hazel w CC	7.5	220.58	220.97	220.97	221.07	0.008213	1.48	5.74	30.5	0.84
West	154	100 Year	11.27	219.79	220.34	220.2	220.39	0.004964	1.09	11.64	31.17	0.5
West	154	100 Year w C	13.32	219.79	220.38	220.23	220.44	0.005218	1.17	12.76	31.46	0.52
West	154	Hazel	6.23	219.79	220.26	220.11	220.28	0.00322	0.77	9.06	29.82	0.39
West	154	Hazel w CC	7.5	219.79	220.27	220.14	220.31	0.003903	0.87	9.61	30.08	0.43
West	123	100 Year	12.17	219.78	220.11	220.11	220.18	0.009323	1.19	10.21	62	0.71
West	123	100 Year w C	14.38	219.78	220.12	220.12	220.21	0.010266	1.29	11.07	63.28	0.75
West	123	Hazel	6.62	219.78	220.04	220.04	220.1	0.011716	1.12	6.23	52.75	0.76
West	123	Hazel w CC	7.96	219.78	220.06	220.06	220.12	0.009765	1.1	7.53	56.44	0.71
West	88	100 Year	12.17	219.65	220.03		220.05	0.001389	0.55	22.23	130.12	0.31
West	88	100 Year w C	14.38	219.65	220.05		220.07	0.00127	0.55	25.23	134.29	0.3
West	88	Hazel	6.62	219.65	219.98	219.88	219.99	0.001057	0.42	15.9	109.19	0.26
West	88	Hazel w CC	7.96	219.65	219.99		220	0.001252	0.47	16.99	110.95	0.29
West	32	100 Year	12.17	219.51	219.8	219.8	219.87	0.014041	1.57	13.39	95.13	1.08
West	32	100 Year w C	14.38	219.51	219.81	219.81	219.89	0.015436	1.7	14.4	96.11	1.15
West	32	Hazel	6.62	219.51	219.71	219.71	219.8	0.035558	1.67	6.17	61.8	1.5
West	32	Hazel w CC	7.96	219.51	219.76	219.76	219.82	0.016079	1.43	9.69	85.7	1.09
West	0	100 Year	12.17	217.3	219.13	217.37	219.13	0.000001	0.03	401.37	219.36	0.01
West	0	100 Year w C	14.38	217.3	219.13	217.39	219.13	0.000001	0.04	401.37	219.36	0.01
West	0	Hazel	6.62	217.3	219.13	217.34	219.13	0	0.02	401.37	219.36	0
West	0	Hazel w CC	7.96	217.3	219.13	217.35	219.13	0	0.02	401.37	219.36	0

Sophia Creek - Supplemental Flow Scenarios

Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
			(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
East 1	374	100 Year	13.03	252.17	254.11	252.76	254.11	0.000002	0.11	122.83	87.13	0.03
East 1	374	100 Year w	15.69	252.17	254.15	252.78	254.15	0.000003	0.13	125.88	87.35	0.03
East 1	374	Hazel	7.93	252.17	254.02	252.71	254.02	0.000001	0.07	114.61	86.53	0.02
East 1	374	Hazel w CC	9.5	252.17	254.05	252.72	254.05	0.000001	0.08	117.31	86.73	0.02
East 1	320.9	100 Year	13.03	253.56	253.99	253.99	254.1	0.003994	0.44	10.35	48.18	0.29
East 1	320.9	100 Year w	15.69	253.56	254.04	254.04	254.14	0.003365	0.42	13.11	63.67	0.27
East 1	320.9	Hazel	7.93	253.56	253.93	253.93	254.01	0.003093	0.35	7.61	44	0.25
East 1	320.9	Hazel w CC	9.5	253.56	253.95	253.95	254.04	0.003352	0.38	8.59	46.03	0.26
East 1	281	100 Year	13.03	255.4	253.7	253.7	253.87	0.002894		7.27	22.07	0
East 1	281	100 Year w	15.69	255.4	253.75	253.75	253.93	0.002775		8.38	23.53	0
East 1	281	Hazel	7.93	255.4	253.55	253.55	253.72	0.003351		4.33	13.17	0
East 1	281	Hazel w CC	9.5	255.4	253.63	253.63	253.77	0.002548		5.7	20.35	0
East 1	219.3	100 Year	13.03	252.25	252.6	252.6	252.68	0.003832	0.67	11.3	66.44	0.49
East 1	219.3	100 Year w	15.69	252.25	252.63	252.63	252.71	0.003688	0.72	13.29	77.49	0.49
East 1	219.3	Hazel	7.93	252.25	252.54	252.54	252.61	0.003649	0.53	7.84	58.49	0.44
East 1	219.3	Hazel w CC	9.5	252.25	252.57	252.57	252.63	0.003464	0.57	9.24	60.4	0.45
East 1	178.1	100 Year	13.03	250.04	251.9		251.92	0.000802	0.67	19.68	37.85	0.17
East 1	178.1	100 Year w	15.69	250.04	251.91		251.95	0.001058	0.78	20.34	39.81	0.2
East 1	178.1	Hazel	7.93	250.04	251.74		251.76	0.000737	0.6	14.64	29.1	0.16
East 1	178.1	Hazel w CC	9.5	250.04	251.78		251.8	0.000838	0.65	15.89	31.52	0.18
East 1	155.5	100 Year	18.12	250.07	251.86		251.9	0.000862	1.03	21.77	44.92	0.27
East 1	155.5	100 Year w	21.97	250.07	251.85		251.92	0.001298	1.26	21.55	44.7	0.33
East 1	155.5	Hazel	11.15	250.07	251.71		251.74	0.000636	0.83	16.06	30.75	0.23
East 1	155.5	Hazel w CC	13.36	250.07	251.74		251.78	0.000794	0.94	17.09	34.58	0.25
East 1	134.1	100 Year	18.12	249.7	251.87		251.88	0.000158	0.54	63.63	210.15	0.12
East 1	134.1	100 Year w	21.97	249.7	251.88		251.89	0.000224	0.65	64.51	210.59	0.15
East 1	134.1	Hazel	11.15	249.7	251.72		251.73	0.000191	0.56	34.53	157	0.13
East 1	134.1	Hazel w CC	13.36	249.7	251.75		251.76	0.000206	0.59	40.53	172.62	0.14
East 1	108.1	100 Year	18.12	251.71	251.82	251.68	251.86	0.011016	1	19.49	66.02	1.2
East 1	108.1	100 Year w	21.97	251.71	251.72	251.72	251.85	0.047627	0.13	13.32	49.55	0.75
East 1	108.1	Hazel	11.15	251.71	251.63	251.61	251.7	0.036557		9.27	45.35	0
East 1	108.1	Hazel w CC	13.36	251.71	251.63	251.63	251.74	0.050693		9.38	45.53	0

Sophia Creek - Calibration +25% Mannings

Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
			(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
East 2	3041.4	100 Year	13.11	258.17	259.44	259.38	259.79	0.035973	2.72	5.34	8.85	0.86
East 2	3041.4	Hazel	8.39	258.17	259.27	259.15	259.49	0.027851	2.12	4.17	6.01	0.74
East 2	3041.4	Hazel w CC	10.08	258.17	259.36	259.23	259.61	0.028273	2.28	4.72	6.75	0.75
East 2	3011	100 Year	13.11	257.28	259.03	258.85	259.21	0.010248	2.08	8.35	15.04	0.57
East 2	3011	Hazel	8.39	257.28	258.74	258.52	258.93	0.012813	1.98	4.75	8.99	0.61
East 2	3011	Hazel w CC	10.08	257.28	258.84	258.63	259.04	0.01278	2.09	5.73	11.49	0.62
East 2	2989.4	100 Year	13.11	257.05	258.56	258.56	258.89	0.021656	2.67	5.9	12.35	0.8
East 2	2989.4	Hazel	8.39	257.05	258.46	258.24	258.65	0.013652	1.99	4.84	9.35	0.62
East 2	2989.4	Hazel w CC	10.08	257.05	258.52	258.43	258.74	0.014773	2.16	5.5	10.51	0.66
East 2	2966.5	100 Year	13.32	256.73	258.3	258.3	258.44	0.012892	2	10.24	32.47	0.6
East 2	2966.5	Hazel	8.62	256.73	258.09	258.09	258.28	0.018588	2.09	5.67	16.32	0.7
East 2	2966.5	Hazel w CC	10.38	256.73	258.15	258.15	258.35	0.018966	2.2	6.69	17.77	0.71
East 2	2934.2	100 Year	13.32	256.28	257.88	257.73	257.91	0.00232	0.74	16.52	59.43	0.25
East 2	2934.2	Hazel	8.62	256.28	257.79	257.64	257.82	0.002099	0.66	11.62	46.11	0.23
East 2	2934.2	Hazel w CC	10.38	256.28	257.82	257.67	257.85	0.002446	0.73	13.04	54.7	0.25
East 2	Howard Cr		Culvert									
East 2	2899.9	100 Year	13.32	255.94	257.37	257.37	257.46	0.011746	1.56	10.52	49.51	0.53
East 2	2899.9	Hazel	8.62	255.94	257.31	257.31	257.39	0.013201	1.58	7.52	49.33	0.55
East 2	2899.9	Hazel w CC	10.38	255.94	257.34	257.34	257.42	0.010247	1.43	9.34	49.44	0.49
East 2	2884	100 Year	13.32	255.74	257.07	256.95	257.13	0.003992	0.97	13.09	37.41	0.32
East 2	2884	Hazel	8.62	255.74	256.96	256.82	257.01	0.004253	0.92	8.94	34.57	0.32
East 2	2884	Hazel w CC	10.38	255.74	257	256.86	257.05	0.00441	0.97	10.29	35.36	0.33
East 2	2862	100 Year	15.97	255.62	256.78	256.78	256.95	0.016439	1.84	8.85	29.96	0.64
East 2	2862	Hazel	10.27	255.62	256.7	256.7	256.83	0.015594	1.67	6.36	27.73	0.61
East 2	2862	Hazel w CC	12.36	255.62	256.74	256.74	256.88	0.0143	1.67	7.65	28.84	0.59
East 2	2835.6	100 Year	15.97	255.22	256.67	256.5	256.7	0.003364	0.74	20.48	70.98	0.27
East 2	2835.6	Hazel	10.27	255.22	256.59	256.43	256.61	0.002934	0.64	15.16	59.33	0.25
East 2	2835.6	Hazel w CC	12.36	255.22	256.62	256.46	256.65	0.003105	0.68	17.23	64.71	0.26
East 2	.1 Lay St		Culvert									
East 2	2744	100 Year	15.97	254.22	256.37	256.37	256.45	0.009939	1.73	20.88	94.07	0.62
East 2	2744	Hazel	10.27	254.22	256.31	256.31	256.38	0.008455	1.51	14.98	87.6	0.56
East 2	2744	Hazel w CC	12.36	254.22	256.33	256.33	256.41	0.009385	1.62	16.97	90.74	0.59
East 2	2726	100 Year	15.97	254.17	255.11	254.91	255.16	0.007675	1.46	17.39	37.39	0.51
East 2	2726	Hazel	10.27	254.17	254.99	254.82	255.03	0.006896	1.25	13.06	34.59	0.48
East 2	2726	Hazel w CC	12.36	254.17	255.03	254.86	255.08	0.007451	1.35	14.56	35.54	0.5
East 2	2692	100 Year	15.97	253.96	254.88	254.7	254.95	0.005497	1.51	18.69	42.35	0.52
East 2	2692	Hazel	10.27	253.96	254.72	254.57	254.79	0.006825	1.46	12.17	39.77	0.56
East 2	2692	Hazel w CC	12.36	253.96	254.8	254.65	254.86	0.005628	1.43	15.3	41.4	0.52
East 2	2674	100 Year	15.97	253.67	254.56	254.56	254.77	0.015312	2.28	9.73	25.94	0.85
East 2	2674	Hazel	10.27	253.67	254.38	254.38	254.58	0.019614	2.14	5.77	15.74	0.92
East 2	2674	Hazel w CC	12.36	253.67	254.42	254.42	254.66	0.021645	2.36	6.44	18.38	0.98
East 2	2647	100 Year	17.71	253.23	254.12	254.05	254.28	0.011115	1.9	11.97	28.27	0.72
East 2	2647	Hazel	11.35	253.23	254.03	253.89	254.13	0.008047	1.48	9.41	25.98	0.6
East 2	2647	Hazel w CC	13.64	253.23	254.06	253.96	254.18	0.009689	1.67	10.16	26.6	0.66
East 2	2618	100 Year	17.71	253.11	253.71	253.62	253.84	0.021036	1.97	12.04	28.2	0.93
East 2	2618	Hazel	11.35	253.11	253.52	253.52	253.67	0.041708	2.09	7.08	23.44	1.22
East 2	2618	Hazel w CC	13.64	253.11	253.6	253.56	253.73	0.029121	1.93	9.07	25.7	1.04

East 2	2592	100 Year	17.71	252.6	253.75		253.76	0.000516	0.34	52.66	94.54	0.11
East 2	2592	Hazel	11.35	252.6	253.55		253.55	0.000814	0.36	35.1	80.87	0.13
East 2	2592	Hazel w CC	13.64	252.6	253.63		253.64	0.000646	0.35	42.02	84.06	0.12
East 2	2578	100 Year	17.71	252.47	253.76	252.98	253.76	0.000012	0.06	157.87	251.34	0.02
East 2	2578	Hazel	11.35	252.47	253.55	252.92	253.55	0.000014	0.05	109.03	222.72	0.02
East 2	2578	Hazel w CC	13.64	252.47	253.63	252.95	253.63	0.000013	0.06	128.37	234.81	0.02
East 2	Grove St E (US)		Culvert									
East 2	2555	100 Year	17.71	252.02	253.75		253.76	0.000033	0.12	120.49	216.7	0.04
East 2	2555	Hazel	11.35	252.02	253.55		253.55	0.000039	0.11	78.75	181.94	0.04
East 2	2555	Hazel w CC	13.64	252.02	253.63		253.63	0.000035	0.11	94.97	200.72	0.04
East 2	2519	100 Year	20.72	251.83	253.64		253.72	0.005928	1.5	20.17	41.17	0.41
East 2	2519	Hazel	13.32	251.83	253.45		253.52	0.005236	1.27	14.35	29.05	0.38
East 2	2519	Hazel w CC	15.97	251.83	253.53		253.61	0.00538	1.35	16.67	29.73	0.39
East 2	2480	100 Year	20.72	251.54	253.28	253.15	253.41	0.01107	1.89	19.44	60.73	0.55
East 2	2480	Hazel	13.32	251.54	253.18		253.27	0.008114	1.52	14.32	36.31	0.46
East 2	2480	Hazel w CC	15.97	251.54	253.22		253.33	0.009253	1.68	16.23	43.95	0.5
East 2	2451	100 Year	20.72	251.58	253.04		253.12	0.008403	1.61	21.42	68.77	0.49
East 2	2451	Hazel	13.32	251.58	252.92		253.01	0.009261	1.58	14.39	55.35	0.51
East 2	2451	Hazel w CC	15.97	251.58	252.97		253.06	0.009113	1.61	17	59.02	0.51
East 2	2425	100 Year	20.72	251.4	252.91		252.95	0.004663	1.12	28.37	70.73	0.33
East 2	2425	Hazel	13.32	251.4	252.8		252.83	0.004636	1.05	21.12	61.69	0.32
East 2	2425	Hazel w CC	15.97	251.4	252.84		252.87	0.005009	1.12	23.35	64	0.33
East 2	2396	100 Year	20.72	251.31	252.85	252.5	252.87	0.001717	0.71	37.59	81.24	0.2
East 2	2396	Hazel	13.32	251.31	252.75	252.43	252.76	0.001364	0.6	30.02	74.24	0.18
East 2	2396	Hazel w CC	15.97	251.31	252.78	252.46	252.79	0.001645	0.67	31.89	75.4	0.2
East 2	2361	100 Year	20.72	251.21	252.81	252.39	252.82	0.001045	0.57	44.17	85.99	0.16
East 2	2361	Hazel	13.32	251.21	252.72	252.29	252.73	0.000696	0.45	37	80.45	0.13
East 2	2361	Hazel w CC	15.97	251.21	252.74	252.33	252.75	0.000905	0.51	38.37	81.56	0.14
East 2	2319	100 Year	29.85	250.9	252.71	252.4	252.75	0.002622	0.86	34.59	71.61	0.23
East 2	2319	Hazel	19.42	250.9	252.66	252.29	252.68	0.001398	0.62	31.78	67	0.17
East 2	2319	Hazel w CC	23.27	250.9	252.66	252.34	252.69	0.0021	0.76	31.26	66.07	0.21
East 2	2297	100 Year	29.85	250.64	252.64	252.53	252.69	0.00276	1.32	35.86	129.73	0.38
East 2	2297	Hazel	19.42	250.64	252.64	252.41	252.66	0.001182	0.86	35.68	129.54	0.25
East 2	2297	Hazel w CC	23.27	250.64	252.58	252.46	252.63	0.002743	1.28	28.83	116.83	0.37
East 2	St Vincent St		Culvert									
East 2	2262	100 Year	29.85	250.37	252.42	252.42	252.55	0.004729	2.02	23.31	81.54	0.55
East 2	2262	Hazel	19.42	250.37	251.98	251.98	252.66	0.018502	3.64	5.34	14.37	1.01
East 2	2262	Hazel w CC	23.27	250.37	252.38	252.38	252.5	0.004404	1.92	19.6	77.84	0.54
East 2	2245.6	100 Year	29.85	250.2	252.15	251.94	252.24	0.006543	1.45	22.86	60.76	0.4
East 2	2245.6	Hazel	19.42	250.2	252.02		252.09	0.005706	1.27	16.24	35.28	0.36
East 2	2245.6	Hazel w CC	23.27	250.2	252.11	251.63	252.18	0.00488	1.23	20.75	54.41	0.34
East 2	2221.3	100 Year	29.85	250.22	251.85	251.85	252.04	0.010016	2.14	19.79	59.6	0.63
East 2	2221.3	Hazel	19.42	250.22	251.67	251.47	251.89	0.011857	2.1	10.7	36.6	0.67
East 2	2221.3	Hazel w CC	23.27	250.22	251.7	251.55	251.97	0.014622	2.37	12.06	48.61	0.75
East 2	2194.7	100 Year	29.85	250.18	251.78		251.83	0.002894	1.17	34.7	101.86	0.32
East 2	2194.7	Hazel	19.42	250.18	251.65		251.7	0.002964	1.11	23.01	71.27	0.32
East 2	2194.7	Hazel w CC	23.27	250.18	251.7		251.75	0.002962	1.14	27.18	87.64	0.32
East 2	2166.9	100 Year	29.85	250.12	251.68		251.74	0.003514	1.1	31.65	75.4	0.3
East 2	2166.9	Hazel	19.42	250.12	251.56		251.61	0.003358	1.01	22.96	62.5	0.29
East 2	2166.9	Hazel w CC	23.27	250.12	251.61		251.66	0.003415	1.04	26.35	71.26	0.29
East 2	2138.7	100 Year	29.85	250.05	251.63		251.67	0.001785	1.02	38.05	101.11	0.29

East 2	2138.7	Hazel	19.42	250.05	251.5		251.54	0.001751	0.94	25.99	91.44	0.28
East 2	2138.7	Hazel w CC	23.27	250.05	251.55		251.59	0.001729	0.96	30.87	95.64	0.28
East 2	2116.8	100 Year	29.85	250.08	251.54		251.61	0.003761	1.36	28.12	78.4	0.41
East 2	2116.8	Hazel	19.42	250.08	251.41		251.48	0.003909	1.29	19.48	58.42	0.41
East 2	2116.8	Hazel w CC	23.27	250.08	251.46		251.53	0.003893	1.33	22.7	68.79	0.41
East 2	2090.4	100 Year	29.85	250.03	251.41		251.5	0.004606	1.49	24.99	71.3	0.43
East 2	2090.4	Hazel	19.42	250.03	251.3		251.37	0.004179	1.33	17.91	57.14	0.4
East 2	2090.4	Hazel w CC	23.27	250.03	251.35		251.42	0.004272	1.39	20.82	62.36	0.41
East 2	2069.7	100 Year	29.85	249.99	251.32		251.4	0.004578	1.51	25.88	93.19	0.44
East 2	2069.7	Hazel	19.42	249.99	251.21		251.28	0.004283	1.37	16.74	64.65	0.42
East 2	2069.7	Hazel w CC	23.27	249.99	251.26		251.34	0.004228	1.4	20.84	82.26	0.42
East 2	2038.4	100 Year	29.09	249.96	251.29		251.32	0.001306	0.73	48.5	101.78	0.22
East 2	2038.4	Hazel	19.79	249.96	251.18		251.2	0.001334	0.68	37.32	100.04	0.22
East 2	2038.4	Hazel w CC	23.98	249.96	251.23		251.25	0.001329	0.71	42.5	100.88	0.22
East 2	2022.5	100 Year	29.09	250.65	251.08	251.08	251.25	0.013576	1.38	16.44	48.65	0.69
East 2	2022.5	Hazel	19.79	250.65	251	251	251.14	0.013268	1.18	12.56	47.13	0.66
East 2	2022.5	Hazel w CC	23.98	250.65	251.04	251.04	251.19	0.01315	1.27	14.48	47.8	0.67
East 2	2002.7	100 Year	29.09	249.7	251.08		251.11	0.002004	1.01	34.76	61.5	0.31
East 2	2002.7	Hazel	19.79	249.7	250.93		250.96	0.002269	0.98	25.96	60.64	0.32
East 2	2002.7	Hazel w CC	23.98	249.7	251		251.03	0.002109	0.99	30.17	61.05	0.31
East 2	1971.6	100 Year	29.09	249.61	251.04	250.64	251.07	0.001072	0.68	41.41	60.1	0.2
East 2	1971.6	Hazel	19.79	249.61	250.89	250.57	250.91	0.001035	0.61	32.74	59.64	0.19
East 2	1971.6	Hazel w CC	23.98	249.61	250.96	250.6	250.99	0.001046	0.64	36.91	59.86	0.19
East 2	1921	100 Year	51.77	249.13	251	250.4	251.02	0.000758	0.63	86.8	95.95	0.17
East 2	1921	Hazel	34.98	249.13	250.86	250.32	250.88	0.000569	0.51	73.77	95.61	0.14
East 2	1921	Hazel w CC	42.31	249.13	250.93	250.36	250.95	0.000647	0.56	80.11	95.8	0.15
East 2	1887	100 Year	51.77	248.86	250.84	250.66	250.93	0.011726	1.86	43.93	86.75	0.58
East 2	1887	Hazel	34.98	248.86	250.75	250.56	250.81	0.008749	1.51	36.65	76.67	0.5
East 2	1887	Hazel w CC	42.31	248.86	250.8	250.61	250.87	0.009607	1.64	40.62	81.53	0.52
East 2	Bothwell Cr		Culvert									
East 2	1859	100 Year	51.77	248.31	250.65	250.65	250.85	0.017573	2.76	34.49	81.42	0.91
East 2	1859	Hazel	34.98	248.31	250.56	250.56	250.73	0.015744	2.43	27.19	77.74	0.84
East 2	1859	Hazel w CC	42.31	248.31	250.6	250.6	250.78	0.016676	2.59	30.51	78.08	0.88
East 2	1820	100 Year	55.4	247.48	250.02		250.27	0.007398	2.56	32.68	38.67	0.57
East 2	1820	Hazel	37.94	247.48	249.93		250.07	0.004262	1.89	29.41	36.21	0.43
East 2	1820	Hazel w CC	45.66	247.48	249.98		250.16	0.00552	2.19	31.14	37.95	0.49
East 2	1785	100 Year	55.4	247.26	250.06	249.73	250.09	0.000856	0.8	74.61	136.67	0.22
East 2	1785	Hazel	37.94	247.26	249.93	249.61	249.96	0.000842	0.74	57.28	129.65	0.22
East 2	1785	Hazel w CC	45.66	247.26	250	249.66	250.02	0.000832	0.76	65.81	136.45	0.22
East 2	Grove St E		Culvert									
East 2	1737	100 Year	55.4	246.76	249.91	249.91	250.09	0.006991	2.67	44.6	91.66	0.66
East 2	1737	Hazel	37.94	246.76	249.79	249.79	249.95	0.006217	2.4	34.38	81.89	0.62
East 2	1737	Hazel w CC	45.66	246.76	249.84	249.84	250.02	0.006996	2.6	38.19	84.14	0.66
East 2	1704	100 Year	55.4	246.75	249.51		249.6	0.002627	1.93	55.27	41.64	0.39
East 2	1704	Hazel	37.94	246.75	249.21		249.29	0.002387	1.69	43.25	38.6	0.37
East 2	1704	Hazel w CC	45.66	246.75	249.36		249.44	0.002456	1.79	49.13	40.17	0.38
East 2	1679	100 Year	55.4	246.66	249.32		249.49	0.006215	2.53	38.75	38.1	0.53
East 2	1679	Hazel	37.94	246.66	249.06		249.19	0.005143	2.12	29.55	28.81	0.47
East 2	1679	Hazel w CC	45.66	246.66	249.18		249.34	0.006074	2.39	33.29	37.48	0.52
East 2	1641	100 Year	55.4	246.36	249.33		249.37	0.001123	1.22	74.81	44.99	0.24
East 2	1641	Hazel	37.94	246.36	249.07		249.09	0.000882	1.01	63.15	43.74	0.21

East 2	1641	Hazel w CC	45.66	246.36	249.2		249.22	0.000989	1.11	68.68	44.5	0.22
East 2	1593.3	100 Year	55.4	246.29	249.27		249.31	0.001237	1.28	74.48	52.84	0.26
East 2	1593.3	Hazel	37.94	246.29	249.02		249.05	0.00103	1.09	61.26	52	0.23
East 2	1593.3	Hazel w CC	45.66	246.29	249.14		249.17	0.001121	1.18	67.57	52.43	0.24
East 2	1568.2	100 Year	55.39	246.14	249.25		249.28	0.000857	1.06	87.8	51.24	0.2
East 2	1568.2	Hazel	38.42	246.14	249.01		249.02	0.000659	0.87	75.13	50.13	0.18
East 2	1568.2	Hazel w CC	46.27	246.14	249.13		249.15	0.000765	0.97	81.16	51.24	0.19
East 2	1533.2	100 Year	55.39	245.85	248.97	248.61	249.17	0.005199	2.59	43.6	40.75	0.56
East 2	1533.2	Hazel	38.42	245.85	248.82	248.41	248.95	0.003605	2.06	37.88	35.45	0.47
East 2	1533.2	Hazel w CC	46.27	245.85	248.89	248.52	249.05	0.004374	2.32	40.55	35.67	0.52
East 2	Parkdale Cr	Culvert										
East 2	1498.8	100 Year	55.39	245.03	248.1	248.1	248.39	0.007142	2.88	32.35	52.99	0.66
East 2	1498.8	Hazel	38.42	245.03	247.37	247.37	248.53	0.015069	4.77	8.06	19.22	1
East 2	1498.8	Hazel w CC	46.27	245.03	248.03	248.03	248.3	0.006582	2.7	28.7	52.61	0.63
East 2	1487.5	100 Year	55.39	244.68	247.73		247.79	0.001578	1.4	63.44	52.09	0.27
East 2	1487.5	Hazel	38.42	244.68	247.55		247.59	0.001173	1.16	54.22	49.73	0.23
East 2	1487.5	Hazel w CC	46.27	244.68	247.63		247.69	0.001392	1.29	58.36	50.52	0.25
East 2	1477.2	100 Year	55.39	244.55	247.63	247.32	247.75	0.003239	1.86	44.62	55.2	0.44
East 2	1477.2	Hazel	38.42	244.55	247.47	247.2	247.56	0.002819	1.63	35.89	53.32	0.4
East 2	1477.2	Hazel w CC	46.27	244.55	247.54	247.28	247.65	0.003119	1.77	39.68	54.15	0.43
East 2	Davidson St	Culvert										
East 2	1391.9	100 Year	55.39	244.22	246.75	246.75	246.94	0.007893	2.66	35.93	71.29	0.68
East 2	1391.9	Hazel	38.42	244.22	246.61	246.61	246.81	0.008037	2.54	26.87	59.06	0.68
East 2	1391.9	Hazel w CC	46.27	244.22	246.68	246.68	246.87	0.008012	2.61	31.11	64.77	0.68
East 2	1373.1	100 Year	55.39	244.36	246.39		246.54	0.005728	2.21	38.86	49.84	0.53
East 2	1373.1	Hazel	38.42	244.36	246.2		246.34	0.006501	2.19	29.7	44.68	0.56
East 2	1373.1	Hazel w CC	46.27	244.36	246.3		246.44	0.006083	2.2	34.21	48.62	0.54
East 2	1349.3	100 Year	55.39	243.71	246.31		246.43	0.003411	1.64	40.01	42.79	0.34
East 2	1349.3	Hazel	38.42	243.71	246.14		246.23	0.002829	1.43	33.03	41.76	0.31
East 2	1349.3	Hazel w CC	46.27	243.71	246.23		246.33	0.003094	1.53	36.51	42.32	0.33
East 2	1321.1	100 Year	55.39	245.05	245.96	245.96	246.23	0.019127	2.82	26.92	50.34	0.97
East 2	1321.1	Hazel	38.42	245.05	245.82	245.82	246.05	0.019608	2.54	20.36	45.97	0.96
East 2	1321.1	Hazel w CC	46.27	245.05	245.89	245.89	246.13	0.019674	2.69	23.38	48.35	0.97
East 2	1293.7	100 Year	55.39	244.57	245.37	245.37	245.6	0.020653	2.63	27.03	53.64	0.99
East 2	1293.7	Hazel	38.42	244.57	245.26	245.26	245.45	0.021104	2.39	21.48	52.49	0.97
East 2	1293.7	Hazel w CC	46.27	244.57	245.31	245.31	245.52	0.021514	2.54	23.92	53	1
East 2	1265.5	100 Year	55.39	243.95	244.84	244.84	245.16	0.009969	2.06	23.48	41.45	0.71
East 2	1265.5	Hazel	38.42	243.95	244.71	244.71	244.95	0.011622	1.98	18.01	38.8	0.74
East 2	1265.5	Hazel w CC	46.27	243.95	244.76	244.76	245.05	0.011314	2.06	20.32	40.73	0.74
East 2	1249.8	100 Year	55.39	243.49	244.52	244.49	244.83	0.010302	2.29	25.75	45.61	0.78
East 2	1249.8	Hazel	38.42	243.49	244.44	244.3	244.63	0.007324	1.81	22.14	43.41	0.64
East 2	1249.8	Hazel w CC	46.27	243.49	244.48	244.39	244.73	0.008798	2.04	23.82	45.03	0.71
East 2	1225.2	100 Year	61.95	243.3	244.33	244.33	244.65	0.00557	1.87	28.92	51.89	0.67
East 2	1225.2	Hazel	44.02	243.3	244.2	244.2	244.46	0.006199	1.75	22.12	46.94	0.7
East 2	1225.2	Hazel w CC	53.16	243.3	244.29	244.29	244.56	0.005191	1.74	26.71	49.91	0.65
East 2	1206.2	100 Year	65.17	240.2	242.51	242.51	242.93	0.011668	3.26	30.66	38.36	0.74
East 2	1206.2	Hazel	47.73	240.2	242.3	242.3	242.68	0.011029	2.95	23.26	34.96	0.71
East 2	1206.2	Hazel w CC	57.68	240.2	242.4	242.4	242.83	0.012117	3.2	26.74	36.16	0.75
East 2	1195.3	100 Year	65.17	240.2	242.29		242.47	0.01114	2.35	40.28	43.6	0.55
East 2	1195.3	Hazel	47.73	240.2	242.07		242.25	0.011989	2.25	31.02	41.51	0.55
East 2	1195.3	Hazel w CC	57.68	240.2	242.2		242.38	0.011526	2.32	36.34	42.53	0.55

East 2	651.5	100 Year	62.15	233.8	233.81	233.81	233.92	0.006471	0.07	42.65	202.1	0.48
East 2	651.5	Hazel	45.3	233.8	233.76	233.76	233.86	0.006464		34.19	191.84	0
East 2	651.5	Hazel w CC	55.76	233.8	233.79	233.79	233.89	0.00624		40.05	198.9	0
East 2	618.5	100 Year	62.15	233.4	233.37	233.29	233.45	0.004125		51.13	155.27	0
East 2	618.5	Hazel	45.3	233.4	233.32	233.24	233.37	0.003753		42.13	148.81	0
East 2	618.5	Hazel w CC	55.76	233.4	233.35	233.27	233.42	0.003971		47.97	152.87	0
East 2	584.7	100 Year	65.84	233.09	233.16	233.16	233.29	0.00555	0.41	41.61	170.18	0.72
East 2	584.7	Hazel	49.64	233.09	233.11	233.11	233.22	0.005374	0.16	33.36	151.76	0.56
East 2	584.7	Hazel w CC	61.1	233.09	233.15	233.15	233.27	0.00515	0.37	40.34	167.79	0.68
East 2	550.7	100 Year	65.84	232.82	233.14	232.89	233.18	0.000831	0.1	79.19	204.14	0.09
East 2	550.7	Hazel	49.64	232.82	233.04	232.83	233.07	0.000985	0.1	59.96	174.44	0.1
East 2	550.7	Hazel w CC	61.1	232.82	233.11	232.87	233.15	0.000842	0.09	73.34	193.19	0.09
East 2	520.4	100 Year	65.84	232.49	232.94	232.85	233.09	0.027451	0.94	39.98	82.84	0.61
East 2	520.4	Hazel	49.64	232.49	232.86	232.76	232.98	0.025459	0.79	33.53	75.48	0.57
East 2	520.4	Hazel w CC	61.1	232.49	232.92	232.82	233.06	0.027011	0.88	38.2	79.92	0.59
East 2	491.1	100 Year	65.84	231.85	232.3	232.3	232.52	0.014884	1.07	33.32	79.24	0.69
East 2	491.1	Hazel	49.64	231.85	232.22	232.22	232.41	0.015703	0.9	26.81	72.69	0.68
East 2	491.1	Hazel w CC	61.1	231.85	232.28	232.28	232.49	0.015096	1.03	31.45	77.53	0.69
East 2	458.4	100 Year	65.84	231.1	231.41	231.41	231.58	0.055515	1.76	36.9	112.63	1.3
East 2	458.4	Hazel	49.64	231.1	231.35	231.35	231.49	0.05661	1.49	30.27	107.16	1.25
East 2	458.4	Hazel w CC	61.1	231.1	231.39	231.39	231.55	0.057911	1.7	34.58	110.75	1.31
East 2	426.7	100 Year	65.84	229.58	230.21	230.21	230.41	0.014333	1.1	41.64	113.12	0.49
East 2	426.7	Hazel	49.64	229.58	230.1	230.1	230.3	0.015516	0.99	31	86.32	0.49
East 2	426.7	Hazel w CC	61.1	229.58	230.18	230.18	230.38	0.014412	1.07	38.76	109.84	0.49
East 2	398	100 Year	65.84	227.21	227.23	227.23	227.38	0.008723	0.06	37.97	119.85	0.2
East 2	398	Hazel	49.64	227.21	227.16	227.16	227.3	0.007838		29.79	107.5	0
East 2	398	Hazel w CC	61.1	227.21	227.21	227.21	227.36	0.008516		35.65	118.19	0
East 2	369.7	100 Year	65.84	225.58	226.07	226.07	226.21	0.0079	2.12	46.05	177.86	1.23
East 2	369.7	Hazel	49.64	225.58	226.01	226.01	226.14	0.007809	1.89	35.98	142.31	1.19
East 2	369.7	Hazel w CC	61.1	225.58	226.05	226.05	226.19	0.007916	2.06	43.04	164.91	1.22
East 2	334.5	100 Year	68.38	224.15	225.06	225.06	225.28	0.009996	2.14	33.83	74.06	0.81
East 2	334.5	Hazel	52.77	224.15	224.9	224.9	225.15	0.015372	2.23	24.12	47.31	0.95
East 2	334.5	Hazel w CC	64.94	224.15	225.03	225.03	225.25	0.010583	2.15	31.9	73.67	0.83
East 2	285.5	100 Year	68.38	223.48	223.69	223.69	223.85	0.006012	0.47	39.69	128.36	0.4
East 2	285.5	Hazel	52.77	223.48	223.64	223.64	223.78	0.004867	0.33	32.82	121.11	0.34
East 2	285.5	Hazel w CC	64.94	223.48	223.68	223.68	223.84	0.005886	0.44	37.91	127.9	0.39
East 2	236	100 Year	68.64	221.03	221.21		221.28	0.007662	0.84	61.03	215.1	0.88
East 2	236	Hazel	53.03	221.03	221.16	221.06	221.22	0.007451	0.64	50.88	195.33	0.82
East 2	236	Hazel w CC	65.27	221.03	221.19		221.27	0.007929	0.78	58.13	213.01	0.87
East 2	98.3	100 Year	68.64	219.9	220.7		220.72	0.002337	0.8	119.92	341.94	0.33
East 2	98.3	Hazel	53.03	219.9	220.63		220.65	0.002487	0.75	96.2	320.98	0.33
East 2	98.3	Hazel w CC	65.27	219.9	220.69		220.71	0.002276	0.78	117.32	341.08	0.33
East 2	17.1	100 Year	68.64	219.69	220.06	220.06	220.28	0.020588	3.08	45.72	179.86	1.94
East 2	17.1	Hazel	53.03	219.69	219.97	219.97	220.16	0.02866	2.86	34.35	118.44	2.16
East 2	17.1	Hazel w CC	65.27	219.69	220.02	220.02	220.25	0.026997	3.17	39.92	136.13	2.17
East 2	2	100 Year	68.64	218.33	219.13	218.47	219.13	0.00028	0.21	328.55	410.8	0.07
East 2	2	Hazel	53.03	218.33	219.13	218.45	219.13	0.000167	0.16	328.55	410.8	0.06
East 2	2	Hazel w CC	65.27	218.33	219.13	218.46	219.13	0.000253	0.2	328.55	410.8	0.07
East 1	675.3	100 Year	13.03	258.07	258.77	258.57	258.8	0.011045	0.85	15.94	47.5	0.42
East 1	675.3	Hazel	7.93	258.07	258.5	258.47	258.59	0.044905	1.11	6.18	28.02	0.75
East 1	675.3	Hazel w CC	9.5	258.07	258.53	258.51	258.63	0.047318	1.19	7.04	30.46	0.78
East 1	582.7	100 Year	13.03	256.36	256.72	256.72	256.77	0.062924	1.57	14.72	142.73	1.01

East 1	582.7	Hazel	7.93	256.36	256.76	256.69	256.77	0.010751	0.7	19.57	155.28	0.43
East 1	582.7	Hazel w CC	9.5	256.36	256.77	256.7	256.78	0.010684	0.72	22.12	160.56	0.43
East 1	547.4	100 Year	13.03	255.29	256.53	256.37	256.56	0.005775	1.05	18.04	74.82	0.41
East 1	547.4	Hazel	7.93	255.29	256.37	256.25	256.42	0.009003	1.1	8.85	39.7	0.49
East 1	547.4	Hazel w CC	9.5	255.29	256.43	256.31	256.47	0.00763	1.09	11.35	56.45	0.46
East 1	499.9	100 Year	13.03	254.17	255.74	255.74	256.1	0.016618	2.76	5.59	9.58	0.85
East 1	499.9	Hazel	7.93	254.17	255.4	255.4	255.74	0.022516	2.61	3.13	4.99	0.96
East 1	499.9	Hazel w CC	9.5	254.17	255.51	255.51	255.87	0.020432	2.68	3.79	6.58	0.92
East 1	402	100 Year	13.03	252.28	253.92	252.9	253.92	0.000055	0.18	71.17	63.01	0.05
East 1	402	Hazel	7.93	252.28	253.72	252.85	253.72	0.000038	0.14	58.46	61.95	0.04
East 1	402	Hazel w CC	9.5	252.28	253.81	252.86	253.82	0.00004	0.15	64.62	62.47	0.05
East 1	374	100 Year	13.03	252.17	253.91	253.51	253.92	0.000065	0.29	45.85	85.76	0.12
East 1	374	Hazel	7.93	252.17	253.71	253.1	253.71	0.000116	0.28	28.51	84.22	0.15
East 1	374	Hazel w CC	9.5	252.17	253.81	253.48	253.81	0.000071	0.26	36.97	84.94	0.12
East 1	300		Culvert									
East 1	108.1	100 Year	18.12	251.71	251.82	251.68	251.86	0.017897	0.98	19.26	65.87	1.21
East 1	108.1	Hazel	11.15	251.71	251.63	251.61	251.7	0.055496		9.37	45.51	0
East 1	108.1	Hazel w CC	13.36	251.71	251.7	251.63	251.76	0.031332		12.72	48.56	0
East 1	81.8	100 Year	23.92	249.59	251.53	251.29	251.6	0.006754	1.47	22.55	40.37	0.4
East 1	81.8	Hazel	15.19	249.59	251.38	250.82	251.44	0.004955	1.23	16.63	40.11	0.35
East 1	81.8	Hazel w CC	18.21	249.59	251.44	250.92	251.5	0.005638	1.33	18.89	40.21	0.37
East 1	27.8	100 Year	23.92	249.4	251.42	251.1	251.43	0.001554	0.64	59.83	107.3	0.18
East 1	27.8	Hazel	15.19	249.4	251.28	251.03	251.28	0.001585	0.6	44.33	107.02	0.17
East 1	27.8	Hazel w CC	18.21	249.4	251.33	251.06	251.34	0.001533	0.6	50.45	107.09	0.17
East 1	0	100 Year	23.92	249.32	251.17	251.17	251.33	0.008671	2.32	23.09	58.12	0.59
East 1	0	Hazel	15.19	249.32	250.97	250.93	251.17	0.01001	2.28	11.92	39.83	0.62
East 1	0	Hazel w CC	18.21	249.32	251.11	251.11	251.25	0.007539	2.1	19.11	57.87	0.54
West	729	100 Year	3.7	227.14	227.73	227.73	227.94	0.067877	2.03	1.82	4.39	1.01
West	729	Hazel	2.26	227.14	227.6	227.6	227.76	0.070988	1.79	1.26	3.84	1
West	729	Hazel w CC	2.72	227.14	227.64	227.64	227.82	0.070913	1.89	1.44	4.01	1.01
West	698	100 Year	3.7	225.75	226.53	226.48	226.67	0.020037	1.67	2.22	5.66	0.85
West	698	Hazel	2.26	225.75	226.4		226.51	0.018256	1.44	1.57	4.68	0.79
West	698	Hazel w CC	2.72	225.75	226.45	226.38	226.57	0.018404	1.5	1.81	5.11	0.81
West	656	100 Year	3.7	224.78	225.51	225.51	225.7	0.027707	1.95	2.04	5.87	0.95
West	656	Hazel	2.26	224.78	225.39	225.39	225.53	0.030868	1.68	1.39	5.33	0.95
West	656	Hazel w CC	2.72	224.78	225.43	225.43	225.59	0.030705	1.8	1.58	5.55	0.96
West	618	100 Year	1.1	223.87	224.47	224.36	224.51	0.009622	0.9	1.23	4.65	0.56
West	618	Hazel	1	223.87	224.44	224.34	224.48	0.009996	0.88	1.13	4.51	0.56
West	618	Hazel w CC	1.22	223.87	224.49	224.38	224.53	0.009391	0.91	1.33	4.81	0.55
West	580	100 Year	1.1	223.22	223.69	223.69	223.82	0.035992	1.6	0.69	2.69	1.01
West	580	Hazel	1	223.22	223.67	223.67	223.8	0.034003	1.56	0.64	2.56	1
West	580	Hazel w CC	1.22	223.22	223.72	223.72	223.85	0.037296	1.62	0.75	2.86	1.01
West	Park St		Culvert									
West	531	100 Year	1.1	222.63	223.72		223.73	0.000291	0.37	2.94	20.4	0.12
West	531	Hazel	1	222.63	223.71		223.72	0.000252	0.35	2.9	19.38	0.11
West	531	Hazel w CC	1.22	222.63	223.73		223.74	0.000348	0.41	2.96	20.45	0.13
West	505	100 Year	1.1	222.3	223.72		223.72	0.000057	0.16	8.28	12.79	0.05
West	505	Hazel	1	222.3	223.71		223.71	0.00005	0.15	8.1	12.7	0.05
West	505	Hazel w CC	1.22	222.3	223.73		223.73	0.000068	0.17	8.38	12.84	0.06
West	477	100 Year	1.1	223.46	223.72		223.72	0.001492	0.3	3.75	27.75	0.22
West	477	Hazel	1	223.46	223.7		223.71	0.001717	0.31	3.37	26.37	0.23

West	477	Hazel w CC	1.22	223.46	223.72		223.73	0.001571	0.32	3.94	28.17	0.22
West	436	100 Year	1.44	223.24	223.57		223.59	0.007903	0.63	2.3	14.27	0.48
West	436	Hazel	1.18	223.24	223.54		223.56	0.009332	0.62	1.9	12.71	0.51
West	436	Hazel w CC	1.43	223.24	223.56		223.58	0.00974	0.67	2.13	13.12	0.53
West	396	100 Year	6.17	222.91	223.21		223.25	0.008356	0.92	7.23	43.4	0.63
West	396	Hazel	3.87	222.91	223.17		223.2	0.008661	0.81	5.37	41.96	0.62
West	396	Hazel w CC	4.67	222.91	223.18		223.22	0.008631	0.86	6.03	42.49	0.63
West	352	100 Year	6.17	222.43	222.79	222.79	222.89	0.00742	1.45	5.27	35.07	0.91
West	352	Hazel	3.87	222.43	222.73	222.73	222.81	0.008373	1.28	3.49	24.57	0.93
West	352	Hazel w CC	4.67	222.43	222.75	222.75	222.84	0.008172	1.36	4.06	25.83	0.93
West	324	100 Year	6.17	222.2	222.48	222.48	222.56	0.011643	1.33	5.26	33.16	0.89
West	324	Hazel	3.87	222.2	222.42	222.42	222.49	0.013808	1.18	3.59	28.36	0.91
West	324	Hazel w CC	4.67	222.2	222.45	222.45	222.52	0.012553	1.23	4.22	30.24	0.9
West	307	100 Year	7.33	221.94	222.17	222.17	222.25	0.009899	0.76	6.8	38.97	0.6
West	307	Hazel	4.38	221.94	222.11	222.11	222.18	0.010647	0.61	4.67	37	0.58
West	307	Hazel w CC	5.28	221.94	222.14	222.14	222.2	0.009486	0.65	5.52	37.8	0.56
West	275	100 Year	7.33	220.11	221.53		221.56	0.000453	1.05	15	45.83	0.31
West	275	Hazel	4.38	220.11	221.46		221.47	0.000257	0.76	12.03	38.45	0.23
West	275	Hazel w CC	5.28	220.11	221.48		221.5	0.000319	0.86	12.97	42.23	0.26
West	249	100 Year	7.33	220.97	221.54	221.15	221.54	0.000096	0.31	24.74	49.66	0.14
West	249	Hazel	4.38	220.97	221.46	221.1	221.47	0.000056	0.21	21.08	49.21	0.1
West	249	Hazel w CC	5.28	220.97	221.49	221.11	221.49	0.000068	0.24	22.29	49.33	0.12
West	222	100 Year	7.33	221.17	221.45	221.45	221.53	0.012184	1.48	7.05	42.74	1
West	222	Hazel	4.38	221.17	221.4	221.39	221.46	0.012492	1.27	4.85	38.85	0.98
West	222	Hazel w CC	5.28	221.17	221.41	221.41	221.48	0.012404	1.34	5.55	39.83	0.99
West	191	100 Year	11.27	220.58	221.04	221.04	221.16	0.012519	1.67	8.04	35.26	0.86
West	191	Hazel	6.23	220.58	220.92	220.92	221.03	0.01594	1.49	4.51	25.5	0.92
West	191	Hazel w CC	7.5	220.58	220.97	220.97	221.07	0.012876	1.48	5.74	30.5	0.84
West	154	100 Year	11.27	219.79	220.38	220.2	220.43	0.005513	0.97	13	31.53	0.43
West	154	Hazel	6.23	219.79	220.28	220.11	220.3	0.004038	0.71	9.75	30.15	0.35
West	154	Hazel w CC	7.5	219.79	220.31	220.14	220.33	0.004609	0.8	10.56	30.59	0.38
West	123	100 Year	12.17	219.78	220.13		220.19	0.010865	1.07	11.3	63.68	0.62
West	123	Hazel	6.62	219.78	220.06		220.1	0.010472	0.91	7.56	56.46	0.59
West	123	Hazel w CC	7.96	219.78	220.08		220.13	0.009841	0.93	8.74	58.34	0.57
West	88	100 Year	12.17	219.65	220.06		220.07	0.0013	0.45	25.93	135.41	0.24
West	88	Hazel	6.62	219.65	220	219.88	220.01	0.001097	0.36	18.15	113.99	0.22
West	88	Hazel w CC	7.96	219.65	220.01		220.02	0.00124	0.4	19.93	123.14	0.23
West	32	100 Year	12.17	219.51	219.8	219.8	219.87	0.02186	1.56	13.41	95.16	1.08
West	32	Hazel	6.62	219.51	219.71	219.71	219.8	0.055684	1.66	6.17	61.8	1.5
West	32	Hazel w CC	7.96	219.51	219.76	219.76	219.82	0.025343	1.43	9.67	85.67	1.1
West	0	100 Year	12.17	217.3	219.13	217.37	219.13	0.000001	0.03	401.37	219.36	0.01
West	0	Hazel	6.62	217.3	219.13	217.34	219.13	0	0.02	401.37	219.36	0
West	0	Hazel w CC	7.96	217.3	219.13	217.35	219.13	0	0.02	401.37	219.36	0

Sophia Creek - Calibration -25% Mannings

Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
			(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
East 2	3041.4	100 Year	13.11	258.17	259.38	259.38	259.78	0.015999	2.9	4.85	6.92	0.95
East 2	3041.4	Hazel	8.39	258.17	259.15	259.15	259.46	0.017771	2.54	3.44	5.48	0.95
East 2	3041.4	Hazel w CC	10.08	258.17	259.23	259.23	259.58	0.017345	2.7	3.92	5.82	0.96
East 2	3011	100 Year	13.11	257.28	258.85	258.85	259.18	0.007284	2.66	5.93	11.78	0.78
East 2	3011	Hazel	8.39	257.28	258.52	258.52	258.87	0.011408	2.66	3.31	5.16	0.93
East 2	3011	Hazel w CC	10.08	257.28	258.63	258.63	259	0.010225	2.74	3.96	6.06	0.9
East 2	2989.4	100 Year	13.11	257.05	258.56	258.56	258.89	0.007802	2.67	5.9	12.36	0.8
East 2	2989.4	Hazel	8.39	257.05	258.24	258.24	258.59	0.011801	2.64	3.32	5.23	0.93
East 2	2989.4	Hazel w CC	10.08	257.05	258.35	258.35	258.73	0.0111	2.77	3.93	6.9	0.92
East 2	2966.5	100 Year	13.32	256.73	258.3	258.3	258.44	0.004706	2.01	10.18	32.4	0.6
East 2	2966.5	Hazel	8.62	256.73	258.09	258.09	258.28	0.0067	2.09	5.67	16.32	0.7
East 2	2966.5	Hazel w CC	10.38	256.73	258.15	258.15	258.35	0.006835	2.2	6.69	17.77	0.71
East 2	2934.2	100 Year	13.32	256.28	257.88	257.73	257.91	0.00085	0.75	16.42	59.41	0.25
East 2	2934.2	Hazel	8.62	256.28	257.78	257.64	257.82	0.000808	0.68	11.32	45.07	0.24
East 2	2934.2	Hazel w CC	10.38	256.28	257.82	257.67	257.85	0.000863	0.72	13.23	56.13	0.25
East 2	Howard Cr		Culvert									
East 2	2899.9	100 Year	13.32	255.94	257.37	257.37	257.46	0.004234	1.56	10.52	49.51	0.53
East 2	2899.9	Hazel	8.62	255.94	257.31	257.31	257.39	0.004758	1.58	7.52	49.33	0.55
East 2	2899.9	Hazel w CC	10.38	255.94	257.34	257.34	257.42	0.003696	1.43	9.34	49.44	0.49
East 2	2884	100 Year	13.32	255.74	256.95	256.95	257.08	0.003961	1.47	8.64	33.5	0.51
East 2	2884	Hazel	8.62	255.74	256.82	256.82	256.96	0.005786	1.6	5.4	20.05	0.6
East 2	2884	Hazel w CC	10.38	255.74	256.86	256.86	257.01	0.00549	1.61	6.24	22.71	0.59
East 2	2862	100 Year	15.97	255.62	256.78	256.78	256.95	0.005934	1.85	8.85	29.96	0.64
East 2	2862	Hazel	10.27	255.62	256.7	256.7	256.83	0.005655	1.68	6.35	27.72	0.61
East 2	2862	Hazel w CC	12.36	255.62	256.74	256.74	256.88	0.00516	1.67	7.65	28.84	0.59
East 2	2835.6	100 Year	15.97	255.22	256.66	256.5	256.7	0.001271	0.75	20.11	70.76	0.28
East 2	2835.6	Hazel	10.27	255.22	256.59	256.43	256.61	0.001059	0.64	15.16	59.33	0.25
East 2	2835.6	Hazel w CC	12.36	255.22	256.62	256.46	256.65	0.001119	0.68	17.24	64.72	0.26
East 2	.1 Lay St		Culvert									
East 2	2744	100 Year	15.97	254.22	256.37	256.37	256.45	0.003596	1.73	20.85	94.06	0.62
East 2	2744	Hazel	10.27	254.22	256.31	256.31	256.38	0.003061	1.51	14.95	87.57	0.56
East 2	2744	Hazel w CC	12.36	254.22	256.33	256.33	256.41	0.003391	1.62	16.95	90.72	0.59
East 2	2726	100 Year	15.97	254.17	255	254.91	255.1	0.005427	1.88	13.57	34.92	0.71
East 2	2726	Hazel	10.27	254.17	254.88	254.82	254.96	0.005326	1.66	9.61	30.01	0.69
East 2	2726	Hazel w CC	12.36	254.17	254.91	254.86	255.01	0.006214	1.85	10.48	31.18	0.74
East 2	2692	100 Year	15.97	253.96	254.7	254.7	254.89	0.006751	2.37	11.29	35.48	0.93
East 2	2692	Hazel	10.27	253.96	254.57	254.57	254.74	0.007315	2.14	7.29	26.92	0.93
East 2	2692	Hazel w CC	12.36	253.96	254.65	254.65	254.8	0.00568	2.07	9.72	32.87	0.84
East 2	2674	100 Year	15.97	253.67	254.56	254.56	254.77	0.005519	2.28	9.74	25.94	0.85
East 2	2674	Hazel	10.27	253.67	254.38	254.38	254.58	0.007032	2.14	5.78	15.76	0.92
East 2	2674	Hazel w CC	12.36	253.67	254.42	254.42	254.66	0.007804	2.36	6.44	18.38	0.98
East 2	2647	100 Year	17.71	253.23	254.05	254.05	254.26	0.006271	2.22	9.9	26.38	0.89
East 2	2647	Hazel	11.35	253.23	253.89	253.89	254.08	0.00767	2.04	6.15	17.71	0.94
East 2	2647	Hazel w CC	13.64	253.23	253.96	253.96	254.16	0.006561	2.07	7.73	23.74	0.89
East 2	2618	100 Year	17.71	253.11	253.62	253.62	253.82	0.015114	2.4	9.55	26.08	1.26
East 2	2618	Hazel	11.35	253.11	253.52	253.52	253.67	0.015033	2.09	7.08	23.44	1.22
East 2	2618	Hazel w CC	13.64	253.11	253.56	253.56	253.72	0.014177	2.1	8.24	24.87	1.19

East 2	2592	100 Year	17.71	252.6	253.67		253.68	0.0003	0.41	45.52	85.27	0.13
East 2	2592	Hazel	11.35	252.6	253.46		253.47	0.000603	0.49	28.32	76.96	0.18
East 2	2592	Hazel w CC	13.64	252.6	253.55		253.56	0.000425	0.44	35.07	80.85	0.15
East 2	2578	100 Year	17.71	252.47	253.68	252.98	253.68	0.000006	0.07	138.43	238.08	0.03
East 2	2578	Hazel	11.35	252.47	253.47	252.93	253.47	0.000008	0.08	91.34	202.75	0.03
East 2	2578	Hazel w CC	13.64	252.47	253.55	252.94	253.55	0.000007	0.06	109.25	223.15	0.03
East 2	Grove St E (US)		Culvert									
East 2	2555	100 Year	17.71	252.02	253.67		253.68	0.000018	0.14	103.61	205.44	0.05
East 2	2555	Hazel	11.35	252.02	253.46		253.46	0.000023	0.18	63.61	169.85	0.06
East 2	2555	Hazel w CC	13.64	252.02	253.55		253.55	0.00002	0.13	78.69	181.9	0.05
East 2	2519	100 Year	20.72	251.83	253.47		253.63	0.004227	1.93	14.86	29.16	0.57
East 2	2519	Hazel	13.32	251.83	253.29		253.42	0.003858	1.65	10	23.73	0.53
East 2	2519	Hazel w CC	15.97	251.83	253.36		253.5	0.004095	1.78	11.71	26.98	0.55
East 2	2480	100 Year	20.72	251.54	253.16	253.16	253.4	0.007703	2.45	13.7	35.28	0.75
East 2	2480	Hazel	13.32	251.54	253.01	253	253.21	0.00696	2.11	8.89	27.98	0.69
East 2	2480	Hazel w CC	15.97	251.54	253.07	253.07	253.29	0.00705	2.22	10.91	31.65	0.7
East 2	2451	100 Year	20.72	251.58	253	253	253.11	0.004316	1.88	18.75	64.11	0.58
East 2	2451	Hazel	13.32	251.58	252.8	252.8	252.99	0.007551	2.16	9.52	30.02	0.74
East 2	2451	Hazel w CC	15.97	251.58	252.92	252.92	253.05	0.004817	1.89	14.37	55.23	0.61
East 2	2425	100 Year	20.72	251.4	252.77		252.86	0.005359	1.85	19.07	60.37	0.57
East 2	2425	Hazel	13.32	251.4	252.7		252.76	0.003817	1.49	15.25	45.75	0.48
East 2	2425	Hazel w CC	15.97	251.4	252.71		252.79	0.005197	1.74	15.57	46.5	0.56
East 2	2396	100 Year	20.72	251.31	252.75	252.5	252.78	0.001186	0.93	30.06	74.26	0.28
East 2	2396	Hazel	13.32	251.31	252.69	252.43	252.71	0.000752	0.72	25.76	66.56	0.22
East 2	2396	Hazel w CC	15.97	251.31	252.69	252.46	252.71	0.001072	0.86	25.84	66.62	0.26
East 2	2361	100 Year	20.72	251.21	252.73	252.39	252.75	0.000572	0.68	37.81	81.14	0.19
East 2	2361	Hazel	13.32	251.21	252.68	252.29	252.69	0.000326	0.5	33.64	77.03	0.14
East 2	2361	Hazel w CC	15.97	251.21	252.67	252.33	252.69	0.000482	0.61	33.28	76.73	0.17
East 2	2319	100 Year	29.85	250.9	252.66	252.4	252.71	0.001204	0.96	31.66	66.91	0.26
East 2	2319	Hazel	19.42	250.9	252.65	252.29	252.67	0.000561	0.65	30.57	65.75	0.18
East 2	2319	Hazel w CC	23.27	250.9	252.62	252.34	252.66	0.000929	0.82	29	63.45	0.23
East 2	2297	100 Year	29.85	250.64	252.64	252.53	252.69	0.001002	1.32	35.77	129.63	0.38
East 2	2297	Hazel	19.42	250.64	252.64	252.41	252.66	0.000427	0.86	35.68	129.53	0.25
East 2	2297	Hazel w CC	23.27	250.64	252.58	252.46	252.63	0.000965	1.27	29.17	118.2	0.37
East 2	St Vincent St		Culvert									
East 2	2262	100 Year	29.85	250.37	252.42	252.42	252.55	0.001709	2.03	23.29	81.51	0.55
East 2	2262	Hazel	19.42	250.37	251.98	251.98	252.66	0.006671	3.64	5.34	14.37	1.01
East 2	2262	Hazel w CC	23.27	250.37	252.38	252.38	252.5	0.001588	1.92	19.61	77.84	0.54
East 2	2245.6	100 Year	29.85	250.2	251.94	251.94	252.19	0.007378	2.29	13.86	26.82	0.68
East 2	2245.6	Hazel	19.42	250.2	251.87		252.01	0.004361	1.7	12.22	25.15	0.52
East 2	2245.6	Hazel w CC	23.27	250.2	251.86	251.63	252.07	0.006655	2.08	11.92	24.57	0.64
East 2	2221.3	100 Year	29.85	250.22	251.85	251.85	252.04	0.003467	2.1	20.19	60.85	0.62
East 2	2221.3	Hazel	19.42	250.22	251.48	251.47	251.84	0.009221	2.68	7.37	10.72	0.96
East 2	2221.3	Hazel w CC	23.27	250.22	251.78	251.78	251.95	0.003219	1.95	16.29	52.37	0.59
East 2	2194.7	100 Year	29.85	250.18	251.63	251.59	251.76	0.00279	1.78	22.02	69.56	0.52
East 2	2194.7	Hazel	19.42	250.18	251.51	251.25	251.63	0.00297	1.71	14.29	51.89	0.53
East 2	2194.7	Hazel w CC	23.27	250.18	251.56	251.53	251.68	0.002964	1.76	17.14	59.4	0.53
East 2	2166.9	100 Year	29.85	250.12	251.58		251.67	0.002557	1.47	23.99	67.27	0.42
East 2	2166.9	Hazel	19.42	250.12	251.46		251.54	0.002561	1.38	17.39	48.94	0.42
East 2	2166.9	Hazel w CC	23.27	250.12	251.5		251.59	0.002641	1.44	19.68	53.34	0.43
East 2	2138.7	100 Year	29.85	250.05	251.56		251.62	0.000975	1.21	31.66	96.52	0.35

East 2	2138.7	Hazel	19.42	250.05	251.43		251.49	0.001059	1.17	20.39	67.75	0.36
East 2	2138.7	Hazel w CC	23.27	250.05	251.48		251.54	0.001081	1.21	23.88	83.95	0.37
East 2	2116.8	100 Year	29.85	250.08	251.4	251.4	251.57	0.003636	2.06	18.82	57.05	0.65
East 2	2116.8	Hazel	19.42	250.08	251.28	251.28	251.44	0.003801	1.93	12.91	41.85	0.65
East 2	2116.8	Hazel w CC	23.27	250.08	251.35	251.34	251.49	0.003222	1.87	16.07	49.1	0.61
East 2	2090.4	100 Year	29.85	250.03	251.32	251.32	251.47	0.00319	1.96	18.83	60.2	0.58
East 2	2090.4	Hazel	19.42	250.03	251.15	251.14	251.32	0.003957	1.97	11.47	33.91	0.63
East 2	2090.4	Hazel w CC	23.27	250.03	251.21	251.2	251.39	0.003879	2.03	13.66	38.85	0.63
East 2	2069.7	100 Year	29.85	249.99	251.24	251.24	251.39	0.002972	1.93	18.88	75.07	0.59
East 2	2069.7	Hazel	19.42	249.99	251.1	251.03	251.25	0.003137	1.81	11.83	30.22	0.59
East 2	2069.7	Hazel w CC	23.27	249.99	251.14	251.13	251.31	0.00335	1.94	13.53	41.34	0.61
East 2	2038.4	100 Year	29.09	249.96	251.25		251.29	0.000588	0.8	45.2	101.46	0.25
East 2	2038.4	Hazel	19.79	249.96	251.14		251.17	0.000631	0.76	34.09	99.71	0.25
East 2	2038.4	Hazel w CC	23.98	249.96	251.2		251.22	0.000609	0.78	39.22	100.23	0.25
East 2	2022.5	100 Year	29.09	250.65	251.08	251.08	251.25	0.0049	1.38	16.44	48.65	0.69
East 2	2022.5	Hazel	19.79	250.65	251	251	251.14	0.004791	1.18	12.56	47.13	0.66
East 2	2022.5	Hazel w CC	23.98	250.65	251.04	251.04	251.19	0.004751	1.27	14.48	47.8	0.67
East 2	2002.7	100 Year	29.09	249.7	251		251.05	0.001132	1.21	30.06	61.04	0.38
East 2	2002.7	Hazel	19.79	249.7	250.85		250.9	0.001542	1.26	21	59.79	0.43
East 2	2002.7	Hazel w CC	23.98	249.7	250.91		250.96	0.001374	1.25	24.84	60.54	0.42
East 2	1971.6	100 Year	29.09	249.61	250.99	250.64	251.02	0.000486	0.74	38.51	59.95	0.22
East 2	1971.6	Hazel	19.79	249.61	250.84	250.57	250.86	0.000511	0.69	29.58	59.48	0.22
East 2	1971.6	Hazel w CC	23.98	249.61	250.9	250.6	250.93	0.000518	0.73	33.35	59.67	0.22
East 2	1921	100 Year	51.77	249.13	250.98	250.4	251	0.000294	0.65	84.8	95.9	0.17
East 2	1921	Hazel	34.98	249.13	250.83	250.32	250.85	0.000232	0.53	70.79	95.51	0.15
East 2	1921	Hazel w CC	42.31	249.13	250.89	250.36	250.91	0.000267	0.59	76.68	95.71	0.16
East 2	1887	100 Year	51.77	248.86	250.88	250.66	250.96	0.003519	1.74	47.35	92.61	0.54
East 2	1887	Hazel	34.98	248.86	250.75	250.56	250.81	0.003141	1.51	36.7	76.68	0.5
East 2	1887	Hazel w CC	42.31	248.86	250.8	250.61	250.87	0.003462	1.64	40.62	81.53	0.52
East 2	Bothwell Cr		Culvert									
East 2	1859	100 Year	51.77	248.31	250.65	250.65	250.85	0.006336	2.76	34.48	81.42	0.91
East 2	1859	Hazel	34.98	248.31	250.56	250.56	250.73	0.005677	2.43	27.19	77.74	0.84
East 2	1859	Hazel w CC	42.31	248.31	250.6	250.6	250.78	0.006017	2.59	30.5	78.07	0.88
East 2	1820	100 Year	55.4	247.48	249.96		250.24	0.003041	2.69	30.55	37.76	0.6
East 2	1820	Hazel	37.94	247.48	249.89		250.04	0.001695	1.96	27.93	35.22	0.45
East 2	1820	Hazel w CC	45.66	247.48	249.93		250.13	0.002228	2.28	29.39	36.2	0.51
East 2	1785	100 Year	55.4	247.26	250.06	249.73	250.09	0.000309	0.8	74.61	136.67	0.22
East 2	1785	Hazel	37.94	247.26	249.93	249.61	249.96	0.000304	0.74	57.28	129.65	0.22
East 2	1785	Hazel w CC	45.66	247.26	250	249.66	250.02	0.0003	0.76	65.81	136.45	0.22
East 2	Grove St E		Culvert									
East 2	1737	100 Year	55.4	246.76	249.91	249.91	250.09	0.002521	2.68	44.6	91.66	0.66
East 2	1737	Hazel	37.94	246.76	249.79	249.79	249.95	0.002243	2.4	34.38	81.88	0.62
East 2	1737	Hazel w CC	45.66	246.76	249.84	249.84	250.02	0.002523	2.6	38.19	84.14	0.66
East 2	1704	100 Year	55.4	246.75	249.32		249.45	0.001426	2.25	47.51	39.77	0.48
East 2	1704	Hazel	37.94	246.75	249.05		249.15	0.001306	1.98	37.1	37.36	0.45
East 2	1704	Hazel w CC	45.66	246.75	249.17		249.28	0.001393	2.12	41.51	38.18	0.47
East 2	1679	100 Year	55.4	246.66	249.14		249.38	0.003346	2.92	31.9	33.59	0.64
East 2	1679	Hazel	37.94	246.66	248.93		249.1	0.002529	2.37	26.03	26.61	0.55
East 2	1679	Hazel w CC	45.66	246.66	249.02		249.22	0.002878	2.61	28.47	27	0.59
East 2	1641	100 Year	55.4	246.36	249.24		249.28	0.000482	1.3	70.62	44.63	0.26
East 2	1641	Hazel	37.94	246.36	249		249.03	0.00037	1.07	60.11	43.52	0.22

East 2	1641	Hazel w CC	45.66	246.36	249.11		249.14	0.000425	1.18	64.84	43.98	0.24
East 2	1593.3	100 Year	55.4	246.29	249.21		249.25	0.000508	1.34	71.29	52.65	0.27
East 2	1593.3	Hazel	37.94	246.29	248.98		249.01	0.000413	1.13	59.03	51.83	0.24
East 2	1593.3	Hazel w CC	45.66	246.29	249.08		249.12	0.000462	1.24	64.54	52.23	0.26
East 2	1568.2	100 Year	55.39	246.14	249.21		249.24	0.000335	1.09	85.58	51.24	0.21
East 2	1568.2	Hazel	38.42	246.14	248.98		249	0.000252	0.89	73.67	50.03	0.18
East 2	1568.2	Hazel w CC	46.27	246.14	249.08		249.11	0.0003	1	78.98	51.24	0.2
East 2	1533.2	100 Year	55.39	245.85	248.97	248.61	249.16	0.001905	2.61	43.29	39.31	0.57
East 2	1533.2	Hazel	38.42	245.85	248.82	248.41	248.95	0.001299	2.06	37.88	35.45	0.47
East 2	1533.2	Hazel w CC	46.27	245.85	248.88	248.52	249.04	0.001627	2.35	40.06	35.63	0.52
East 2	Parkdale Cr	Culvert										
East 2	1498.8	100 Year	55.39	245.03	248.11	248.11	248.39	0.002523	2.86	32.63	53.02	0.66
East 2	1498.8	Hazel	38.42	245.03	247.37	247.37	248.53	0.005433	4.77	8.06	19.22	1
East 2	1498.8	Hazel w CC	46.27	245.03	248.03	248.03	248.3	0.002372	2.7	28.71	52.61	0.63
East 2	1487.5	100 Year	55.39	244.68	247.71		247.77	0.000603	1.44	62.2	51.56	0.27
East 2	1487.5	Hazel	38.42	244.68	247.54		247.58	0.000436	1.17	53.61	49.63	0.23
East 2	1487.5	Hazel w CC	46.27	244.68	247.63		247.68	0.00051	1.3	58.01	50.45	0.25
East 2	1477.2	100 Year	55.39	244.55	247.62	247.32	247.75	0.001199	1.88	44.21	55.17	0.44
East 2	1477.2	Hazel	38.42	244.55	247.47	247.2	247.56	0.001013	1.63	35.94	53.33	0.4
East 2	1477.2	Hazel w CC	46.27	244.55	247.55	247.28	247.66	0.001076	1.74	40.34	54.33	0.42
East 2	Davidson St	Culvert										
East 2	1391.9	100 Year	55.39	244.22	246.75	246.75	246.94	0.002847	2.66	35.94	71.29	0.68
East 2	1391.9	Hazel	38.42	244.22	246.61	246.61	246.81	0.002899	2.54	26.87	59.06	0.68
East 2	1391.9	Hazel w CC	46.27	244.22	246.68	246.68	246.87	0.002889	2.61	31.11	64.77	0.68
East 2	1373.1	100 Year	55.39	244.36	246.23	246.23	246.49	0.004218	2.97	31.15	46.92	0.75
East 2	1373.1	Hazel	38.42	244.36	246.03	246.03	246.29	0.004888	2.92	22.9	34.53	0.79
East 2	1373.1	Hazel w CC	46.27	244.36	246.11	246.11	246.4	0.005048	3.09	25.89	37.74	0.81
East 2	1349.3	100 Year	55.39	243.71	246.16		246.33	0.002016	2.01	33.63	41.88	0.44
East 2	1349.3	Hazel	38.42	243.71	246.02		246.14	0.001614	1.72	27.89	39.75	0.39
East 2	1349.3	Hazel w CC	46.27	243.71	246.09		246.24	0.001791	1.86	30.83	41.34	0.41
East 2	1321.1	100 Year	55.39	245.05	245.96	245.96	246.23	0.006893	2.82	26.93	50.34	0.97
East 2	1321.1	Hazel	38.42	245.05	245.82	245.82	246.05	0.007067	2.54	20.36	45.97	0.96
East 2	1321.1	Hazel w CC	46.27	245.05	245.89	245.89	246.13	0.007086	2.69	23.39	48.38	0.97
East 2	1293.7	100 Year	55.39	244.57	245.37	245.37	245.6	0.007448	2.63	27.03	53.64	0.99
East 2	1293.7	Hazel	38.42	244.57	245.26	245.26	245.45	0.00761	2.39	21.48	52.49	0.97
East 2	1293.7	Hazel w CC	46.27	244.57	245.31	245.31	245.52	0.007759	2.54	23.92	53	1
East 2	1265.5	100 Year	55.39	243.95	244.84	244.84	245.16	0.003601	2.06	23.47	41.45	0.71
East 2	1265.5	Hazel	38.42	243.95	244.71	244.71	244.95	0.004197	1.98	18.01	38.8	0.74
East 2	1265.5	Hazel w CC	46.27	243.95	244.76	244.76	245.05	0.004083	2.06	20.32	40.73	0.74
East 2	1249.8	100 Year	55.39	243.49	244.49	244.49	244.83	0.004225	2.39	24.51	45.24	0.82
East 2	1249.8	Hazel	38.42	243.49	244.3	244.3	244.6	0.005583	2.31	17.03	34.37	0.9
East 2	1249.8	Hazel w CC	46.27	243.49	244.39	244.39	244.71	0.005077	2.39	19.97	36.6	0.88
East 2	1225.2	100 Year	61.95	243.3	244.33	244.33	244.65	0.002012	1.87	28.92	51.88	0.67
East 2	1225.2	Hazel	44.02	243.3	244.2	244.2	244.46	0.002237	1.75	22.13	46.94	0.7
East 2	1225.2	Hazel w CC	53.16	243.3	244.29	244.29	244.56	0.001875	1.74	26.7	49.91	0.65
East 2	1206.2	100 Year	65.17	240.2	242.51	242.51	242.93	0.004206	3.26	30.66	38.36	0.74
East 2	1206.2	Hazel	47.73	240.2	242.3	242.3	242.68	0.003975	2.95	23.26	34.96	0.71
East 2	1206.2	Hazel w CC	57.68	240.2	242.4	242.4	242.83	0.004367	3.2	26.74	36.16	0.75
East 2	1195.3	100 Year	65.17	240.2	242.08	242.08	242.41	0.007834	3.04	31.35	41.6	0.75
East 2	1195.3	Hazel	47.73	240.2	241.92	241.92	242.22	0.007568	2.8	24.74	40.45	0.72
East 2	1195.3	Hazel w CC	57.68	240.2	242.02	242.02	242.33	0.007593	2.92	28.84	41.09	0.73

East 2	651.5	100 Year	62.15	233.8	233.81	233.81	233.92	0.002338	0.07	42.65	202.1	0.48
East 2	651.5	Hazel	45.3	233.8	233.76	233.76	233.86	0.002335		34.19	191.84	0
East 2	651.5	Hazel w CC	55.76	233.8	233.79	233.79	233.89	0.002254		40.05	198.9	0
East 2	618.5	100 Year	62.15	233.4	233.29	233.29	233.42	0.003231		38.68	144.38	0
East 2	618.5	Hazel	45.3	233.4	233.24	233.24	233.35	0.003127		30.78	136.31	0
East 2	618.5	Hazel w CC	55.76	233.4	233.27	233.27	233.4	0.003435		35.03	141.61	0
East 2	584.7	100 Year	65.84	233.09	233.16	233.16	233.29	0.002005	0.41	41.61	170.18	0.72
East 2	584.7	Hazel	49.64	233.09	233.11	233.11	233.22	0.001941	0.16	33.36	151.76	0.56
East 2	584.7	Hazel w CC	61.1	233.09	233.15	233.15	233.27	0.00186	0.37	40.34	167.79	0.68
East 2	550.7	100 Year	65.84	232.82	233.08	232.89	233.13	0.000444	0.11	67.59	184.3	0.11
East 2	550.7	Hazel	49.64	232.82	232.96	232.83	233.02	0.000553	0.09	47.65	137.6	0.11
East 2	550.7	Hazel w CC	61.1	232.82	233.05	232.87	233.1	0.000485	0.11	62.12	176.23	0.12
East 2	520.4	100 Year	65.84	232.49	232.85	232.85	233.07	0.016948	1.06	32.96	74.86	0.77
East 2	520.4	Hazel	49.64	232.49	232.76	232.76	232.95	0.018133	0.85	26.41	69.13	0.74
East 2	520.4	Hazel w CC	61.1	232.49	232.82	232.82	233.04	0.017779	1.02	30.75	72.52	0.77
East 2	491.1	100 Year	65.84	231.85	232.31	232.31	232.52	0.005332	1.07	33.41	79.32	0.69
East 2	491.1	Hazel	49.64	231.85	232.22	232.22	232.41	0.005611	0.9	26.91	72.81	0.68
East 2	491.1	Hazel w CC	61.1	231.85	232.28	232.28	232.49	0.005455	1.03	31.44	77.52	0.69
East 2	458.4	100 Year	65.84	231.1	231.41	231.41	231.58	0.020007	1.76	36.9	112.63	1.3
East 2	458.4	Hazel	49.64	231.1	231.35	231.35	231.49	0.02068	1.49	30.13	107.04	1.26
East 2	458.4	Hazel w CC	61.1	231.1	231.39	231.39	231.55	0.020866	1.7	34.58	110.75	1.31
East 2	426.7	100 Year	65.84	229.58	230.21	230.21	230.4	0.005158	1.1	41.68	113.19	0.49
East 2	426.7	Hazel	49.64	229.58	230.1	230.1	230.3	0.005445	0.98	31.39	87.76	0.49
East 2	426.7	Hazel w CC	61.1	229.58	230.18	230.18	230.38	0.005199	1.07	38.76	109.83	0.49
East 2	398	100 Year	65.84	227.21	227.23	227.23	227.38	0.00315	0.06	37.97	119.85	0.2
East 2	398	Hazel	49.64	227.21	227.16	227.16	227.3	0.00283		29.79	107.5	0
East 2	398	Hazel w CC	61.1	227.21	227.21	227.21	227.36	0.003075		35.65	118.19	0
East 2	369.7	100 Year	65.84	225.58	226.07	226.07	226.21	0.002853	2.12	46.05	177.86	1.23
East 2	369.7	Hazel	49.64	225.58	226.01	226.01	226.14	0.002819	1.89	35.98	142.31	1.19
East 2	369.7	Hazel w CC	61.1	225.58	226.06	226.06	226.19	0.002749	2.03	43.79	168.66	1.2
East 2	334.5	100 Year	68.38	224.15	225.06	225.06	225.28	0.003606	2.14	33.83	74.06	0.81
East 2	334.5	Hazel	52.77	224.15	224.9	224.9	225.15	0.005545	2.23	24.12	47.31	0.95
East 2	334.5	Hazel w CC	64.94	224.15	225.02	225.02	225.25	0.003949	2.17	31.49	73.13	0.84
East 2	285.5	100 Year	68.38	223.48	223.69	223.69	223.85	0.002171	0.47	39.69	128.36	0.4
East 2	285.5	Hazel	52.77	223.48	223.64	223.64	223.78	0.001758	0.33	32.82	121.11	0.34
East 2	285.5	Hazel w CC	64.94	223.48	223.68	223.68	223.84	0.002125	0.44	37.91	127.9	0.39
East 2	236	100 Year	68.64	221.03	221.12	221.12	221.26	0.006751	0.9	43.72	174.57	1.33
East 2	236	Hazel	53.03	221.03	221.07	221.06	221.19	0.00721	0.59	35.22	153.62	1.27
East 2	236	Hazel w CC	65.27	221.03	221.11	221.11	221.25	0.006838	0.83	41.94	170.37	1.35
East 2	98.3	100 Year	68.64	219.9	220.58		220.62	0.00254	1.17	81.06	292.39	0.55
East 2	98.3	Hazel	53.03	219.9	220.53		220.56	0.002862	1.14	66.04	250.56	0.57
East 2	98.3	Hazel w CC	65.27	219.9	220.58		220.62	0.002306	1.11	80.82	291.45	0.52
East 2	17.1	100 Year	68.64	219.69	220.06	220.06	220.28	0.007454	3.08	45.65	179.32	1.94
East 2	17.1	Hazel	53.03	219.69	219.97	219.97	220.16	0.010392	2.86	34.29	118.28	2.16
East 2	17.1	Hazel w CC	65.27	219.69	220.01	220.01	220.25	0.011043	3.25	38.33	128.62	2.28
East 2	2	100 Year	68.64	218.33	219.13	218.47	219.13	0.000101	0.21	328.55	410.8	0.07
East 2	2	Hazel	53.03	218.33	219.13	218.45	219.13	0.00006	0.16	328.55	410.8	0.06
East 2	2	Hazel w CC	65.27	218.33	219.13	218.46	219.13	0.000091	0.2	328.55	410.8	0.07
East 1	675.3	100 Year	13.03	258.07	258.57	258.57	258.7	0.021318	1.32	8.39	33.46	0.87
East 1	675.3	Hazel	7.93	258.07	258.47	258.47	258.58	0.022574	1.25	5.37	25.15	0.87
East 1	675.3	Hazel w CC	9.5	258.07	258.51	258.51	258.63	0.021427	1.29	6.39	28.71	0.86
East 1	582.7	100 Year	13.03	256.36	256.77	256.72	256.79	0.007591	1.01	21.77	159.8	0.6

East 1	582.7	Hazel	7.93	256.36	256.72	256.69	256.74	0.009246	0.99	14.24	141.08	0.64
East 1	582.7	Hazel w CC	9.5	256.36	256.73	256.7	256.75	0.009392	1.03	16.09	147.44	0.65
East 1	547.4	100 Year	13.03	255.29	256.37	256.37	256.49	0.009164	1.85	8.67	38.14	0.82
East 1	547.4	Hazel	7.93	255.29	256.25	256.25	256.37	0.011251	1.82	5.42	20.9	0.9
East 1	547.4	Hazel w CC	9.5	255.29	256.31	256.31	256.42	0.00926	1.73	6.8	25.56	0.81
East 1	499.9	100 Year	13.03	254.17	255.74	255.74	256.1	0.005991	2.76	5.59	9.58	0.85
East 1	499.9	Hazel	7.93	254.17	255.4	255.4	255.74	0.008118	2.61	3.13	4.99	0.96
East 1	499.9	Hazel w CC	9.5	254.17	255.52	255.52	255.87	0.007219	2.66	3.82	6.65	0.91
East 1	402	100 Year	13.03	252.28	253.92	252.9	253.92	0.00002	0.18	71.1	63	0.05
East 1	402	Hazel	7.93	252.28	253.71	252.85	253.72	0.000014	0.14	58.39	61.95	0.04
East 1	402	Hazel w CC	9.5	252.28	253.81	252.86	253.81	0.000014	0.15	64.56	62.46	0.05
East 1	374	100 Year	13.03	252.17	253.91	253.51	253.92	0.000024	0.29	45.85	85.76	0.12
East 1	374	Hazel	7.93	252.17	253.71	253.1	253.71	0.000042	0.28	28.51	84.22	0.15
East 1	374	Hazel w CC	9.5	252.17	253.81	253.48	253.81	0.000025	0.26	36.97	84.94	0.12
East 1	300		Culvert									
East 1	108.1	100 Year	18.12	251.71	251.68	251.68	251.8	0.028525		11.44	47.2	0
East 1	108.1	Hazel	11.15	251.71	251.61	251.61	251.7	0.029657		8.17	43.51	0
East 1	108.1	Hazel w CC	13.36	251.71	251.63	251.63	251.74	0.028584		9.38	45.53	0
East 1	81.8	100 Year	23.92	249.59	251.35	251.29	251.51	0.004992	2.06	15.48	40.06	0.59
East 1	81.8	Hazel	15.19	249.59	251.24	250.81	251.35	0.003125	1.6	11.05	32.31	0.48
East 1	81.8	Hazel w CC	18.21	249.59	251.29	250.92	251.41	0.003741	1.76	12.91	39.29	0.52
East 1	27.8	100 Year	23.92	249.4	251.37	251.1	251.38	0.000743	0.72	54.65	107.18	0.2
East 1	27.8	Hazel	15.19	249.4	251.23	251.03	251.24	0.000834	0.7	39.06	106.97	0.21
East 1	27.8	Hazel w CC	18.21	249.4	251.29	251.06	251.3	0.00075	0.69	45.66	107.04	0.2
East 1	0	100 Year	23.92	249.32	251.17	251.17	251.33	0.003108	2.32	23.14	58.13	0.59
East 1	0	Hazel	15.19	249.32	250.94	250.94	251.17	0.004173	2.41	10.79	28.86	0.66
East 1	0	Hazel w CC	18.21	249.32	251.11	251.11	251.25	0.002714	2.1	19.12	57.87	0.54
West	729	100 Year	3.7	227.14	227.73	227.73	227.94	0.02446	2.03	1.82	4.39	1.01
West	729	Hazel	2.26	227.14	227.59	227.59	227.76	0.026143	1.8	1.25	3.83	1.01
West	729	Hazel w CC	2.72	227.14	227.64	227.64	227.82	0.025553	1.89	1.44	4.01	1.01
West	698	100 Year	3.7	225.75	226.48	226.48	226.66	0.01031	1.91	1.94	5.33	1.01
West	698	Hazel	2.26	225.75	226.34	226.34	226.5	0.010713	1.75	1.29	4.13	1
West	698	Hazel w CC	2.72	225.75	226.38	226.38	226.56	0.011043	1.84	1.48	4.51	1.02
West	656	100 Year	3.7	224.78	225.51	225.51	225.7	0.009989	1.95	2.04	5.87	0.95
West	656	Hazel	2.26	224.78	225.39	225.39	225.53	0.011128	1.68	1.39	5.33	0.95
West	656	Hazel w CC	2.72	224.78	225.43	225.43	225.59	0.011069	1.8	1.58	5.55	0.96
West	618	100 Year	1.1	223.87	224.36	224.36	224.46	0.01215	1.4	0.79	3.93	1
West	618	Hazel	1	223.87	224.34	224.34	224.44	0.012958	1.4	0.72	3.73	1.02
West	618	Hazel w CC	1.22	223.87	224.38	224.38	224.48	0.012134	1.44	0.85	4.06	1
West	580	100 Year	1.1	223.22	223.7	223.7	223.82	0.012841	1.59	0.69	2.7	1
West	580	Hazel	1	223.22	223.67	223.67	223.8	0.012259	1.56	0.64	2.56	1
West	580	Hazel w CC	1.22	223.22	223.72	223.72	223.85	0.013431	1.62	0.76	2.86	1
West	Park St		Culvert									
West	531	100 Year	1.1	222.63	223.68		223.69	0.000121	0.39	2.81	19.13	0.13
West	531	Hazel	1	222.63	223.68		223.69	0.000101	0.36	2.81	19.1	0.12
West	531	Hazel w CC	1.22	222.63	223.69		223.7	0.000143	0.43	2.85	19.23	0.14
West	505	100 Year	1.1	222.3	223.68		223.69	0.000024	0.17	7.78	12.54	0.06
West	505	Hazel	1	222.3	223.68		223.68	0.00002	0.15	7.74	12.52	0.05
West	505	Hazel w CC	1.22	222.3	223.7		223.7	0.000029	0.18	7.92	12.61	0.06
West	477	100 Year	1.1	223.46	223.67		223.68	0.001509	0.43	2.68	23.8	0.35
West	477	Hazel	1	223.46	223.67		223.68	0.001301	0.4	2.64	23.74	0.32

West	477	Hazel w CC	1.22	223.46	223.68		223.69	0.001389	0.43	2.94	24.46	0.34
West	436	100 Year	1.44	223.24	223.52		223.56	0.006822	0.85	1.69	11.89	0.72
West	436	Hazel	1.18	223.24	223.47	223.47	223.52	0.014402	1.07	1.11	9.77	1.01
West	436	Hazel w CC	1.43	223.24	223.5	223.48	223.55	0.010492	1.01	1.41	10.69	0.89
West	396	100 Year	6.17	222.91	223.17	223.17	223.24	0.007958	1.29	5.36	41.96	0.99
West	396	Hazel	3.87	222.91	223.14	223.14	223.19	0.006901	1.07	4.16	40.29	0.89
West	396	Hazel w CC	4.67	222.91	223.15	223.15	223.21	0.007925	1.19	4.5	40.82	0.96
West	352	100 Year	6.17	222.43	222.79	222.79	222.89	0.002675	1.45	5.27	35.11	0.91
West	352	Hazel	3.87	222.43	222.73	222.73	222.81	0.003023	1.28	3.49	24.57	0.93
West	352	Hazel w CC	4.67	222.43	222.75	222.75	222.84	0.002948	1.36	4.06	25.83	0.93
West	324	100 Year	6.17	222.2	222.48	222.48	222.56	0.004203	1.33	5.26	33.16	0.89
West	324	Hazel	3.87	222.2	222.42	222.42	222.49	0.004958	1.17	3.59	28.37	0.91
West	324	Hazel w CC	4.67	222.2	222.45	222.45	222.52	0.004531	1.23	4.22	30.24	0.9
West	307	100 Year	7.33	221.94	222.17	222.17	222.25	0.003576	0.76	6.8	38.97	0.6
West	307	Hazel	4.38	221.94	222.11	222.11	222.18	0.003832	0.61	4.67	37.01	0.58
West	307	Hazel w CC	5.28	221.94	222.14	222.14	222.2	0.003428	0.65	5.52	37.8	0.56
West	275	100 Year	7.33	220.11	221.52		221.55	0.000175	1.07	14.55	45.22	0.32
West	275	Hazel	4.38	220.11	221.45		221.47	0.000096	0.77	11.82	38.11	0.23
West	275	Hazel w CC	5.28	220.11	221.47		221.5	0.000121	0.87	12.67	41.63	0.26
West	249	100 Year	7.33	220.97	221.53	221.15	221.54	0.000036	0.31	24.46	49.62	0.14
West	249	Hazel	4.38	220.97	221.46	221.1	221.46	0.000021	0.21	20.91	49.19	0.1
West	249	Hazel w CC	5.28	220.97	221.48	221.11	221.49	0.000025	0.25	22.08	49.31	0.12
West	222	100 Year	7.33	221.17	221.45	221.45	221.53	0.004623	1.5	6.93	42.6	1.02
West	222	Hazel	4.38	221.17	221.39	221.39	221.46	0.004682	1.28	4.79	38.78	1
West	222	Hazel w CC	5.28	221.17	221.41	221.41	221.48	0.004464	1.34	5.56	39.84	0.99
West	191	100 Year	11.27	220.58	221.04	221.04	221.16	0.004511	1.67	8.05	35.26	0.86
West	191	Hazel	6.23	220.58	220.92	220.92	221.03	0.005752	1.49	4.51	25.5	0.92
West	191	Hazel w CC	7.5	220.58	220.97	220.97	221.07	0.004646	1.48	5.74	30.5	0.84
West	154	100 Year	11.27	219.79	220.27	220.2	220.35	0.005405	1.35	9.35	29.96	0.67
West	154	Hazel	6.23	219.79	220.2	220.11	220.24	0.00328	0.94	7.45	29.01	0.51
West	154	Hazel w CC	7.5	219.79	220.22	220.14	220.27	0.004002	1.06	7.89	29.23	0.57
West	123	100 Year	12.17	219.78	220.11	220.11	220.18	0.005254	1.19	10.22	62.01	0.71
West	123	Hazel	6.62	219.78	220.04	220.04	220.1	0.006633	1.12	6.22	52.74	0.76
West	123	Hazel w CC	7.96	219.78	220.06	220.06	220.12	0.005524	1.1	7.53	56.44	0.71
West	88	100 Year	12.17	219.65	220		220.02	0.001299	0.66	18.52	116.82	0.39
West	88	Hazel	6.62	219.65	219.95	219.88	219.97	0.000999	0.51	13.34	101.27	0.33
West	88	Hazel w CC	7.96	219.65	219.96		219.98	0.001261	0.58	13.91	101.94	0.37
West	32	100 Year	12.17	219.51	219.8	219.8	219.87	0.007952	1.57	13.38	95.12	1.08
West	32	Hazel	6.62	219.51	219.71	219.71	219.8	0.020076	1.66	6.17	61.8	1.5
West	32	Hazel w CC	7.96	219.51	219.76	219.76	219.82	0.009097	1.43	9.69	85.69	1.09
West	0	100 Year	12.17	217.3	219.13	217.37	219.13	0	0.03	401.37	219.36	0.01
West	0	Hazel	6.62	217.3	219.13	217.34	219.13	0	0.02	401.37	219.36	0
West	0	Hazel w CC	7.96	217.3	219.13	217.35	219.13	0	0.02	401.37	219.36	0

Sophia Creek - Calibration +50% Expansion / Contraction

Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
			(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
East 2	3041.4	100 Year	13.11	258.17	259.38	259.38	259.78	0.028371	2.9	4.85	6.92	0.95
East 2	3041.4	Hazel	8.39	258.17	259.16	259.15	259.46	0.030322	2.51	3.48	5.51	0.94
East 2	3041.4	Hazel w CC	10.08	258.17	259.25	259.23	259.58	0.028753	2.64	4.01	5.89	0.93
East 2	3011	100 Year	13.11	257.28	258.87	258.85	259.18	0.01211	2.6	6.13	12.25	0.76
East 2	3011	Hazel	8.39	257.28	258.65	258.52	258.89	0.01177	2.24	4.06	6.19	0.73
East 2	3011	Hazel w CC	10.08	257.28	258.73	258.63	259.01	0.012426	2.42	4.64	8.66	0.76
East 2	2989.4	100 Year	13.11	257.05	258.56	258.56	258.89	0.013838	2.67	5.9	12.35	0.8
East 2	2989.4	Hazel	8.39	257.05	258.34	258.24	258.61	0.014008	2.33	3.88	6.69	0.78
East 2	2989.4	Hazel w CC	10.08	257.05	258.43	258.43	258.73	0.013989	2.48	4.61	9.1	0.79
East 2	2966.5	100 Year	13.32	256.73	258.3	258.3	258.44	0.008229	1.99	10.24	32.47	0.6
East 2	2966.5	Hazel	8.62	256.73	258.09	258.09	258.28	0.011877	2.09	5.67	16.32	0.7
East 2	2966.5	Hazel w CC	10.38	256.73	258.15	258.15	258.35	0.012118	2.2	6.69	17.77	0.71
East 2	2934.2	100 Year	13.32	256.28	257.87	257.73	257.91	0.001612	0.77	15.99	59.32	0.26
East 2	2934.2	Hazel	8.62	256.28	257.79	257.64	257.82	0.001369	0.66	11.51	45.53	0.23
East 2	2934.2	Hazel w CC	10.38	256.28	257.82	257.67	257.85	0.001521	0.72	13.24	56.14	0.25
East 2	Howard Cr		Culvert									
East 2	2899.9	100 Year	13.32	255.94	257.37	257.37	257.46	0.007498	1.56	10.51	49.51	0.53
East 2	2899.9	Hazel	8.62	255.94	257.31	257.31	257.39	0.00843	1.58	7.52	49.33	0.55
East 2	2899.9	Hazel w CC	10.38	255.94	257.34	257.34	257.42	0.006541	1.43	9.34	49.44	0.49
East 2	2884	100 Year	13.32	255.74	257.02	256.95	257.1	0.003868	1.15	11.08	36.15	0.38
East 2	2884	Hazel	8.62	255.74	256.91	256.82	256.98	0.004259	1.11	7.37	27.63	0.39
East 2	2884	Hazel w CC	10.38	255.74	256.94	256.86	257.03	0.004567	1.18	8.37	32.72	0.41
East 2	2862	100 Year	15.97	255.62	256.78	256.78	256.95	0.010484	1.84	8.85	29.96	0.64
East 2	2862	Hazel	10.27	255.62	256.7	256.7	256.83	0.009956	1.67	6.36	27.73	0.61
East 2	2862	Hazel w CC	12.36	255.62	256.74	256.74	256.88	0.00912	1.66	7.65	28.84	0.59
East 2	2835.6	100 Year	15.97	255.22	256.67	256.5	256.7	0.002146	0.74	20.47	70.97	0.27
East 2	2835.6	Hazel	10.27	255.22	256.58	256.43	256.61	0.001942	0.65	14.93	59.16	0.25
East 2	2835.6	Hazel w CC	12.36	255.22	256.62	256.46	256.65	0.001993	0.68	17.18	64.66	0.26
East 2	.1 Lay St		Culvert									
East 2	2744	100 Year	15.97	254.22	256.37	256.37	256.45	0.006352	1.73	20.88	94.07	0.62
East 2	2744	Hazel	10.27	254.22	256.31	256.31	256.38	0.005401	1.51	14.98	87.6	0.56
East 2	2744	Hazel w CC	12.36	254.22	256.33	256.33	256.41	0.00601	1.62	16.95	90.72	0.59
East 2	2726	100 Year	15.97	254.17	255.04	254.91	255.12	0.007417	1.7	14.93	35.77	0.62
East 2	2726	Hazel	10.27	254.17	254.93	254.82	254.99	0.006747	1.47	11.11	33.09	0.58
East 2	2726	Hazel w CC	12.36	254.17	254.97	254.86	255.04	0.007054	1.57	12.58	34.26	0.6
East 2	2692	100 Year	15.97	253.96	254.83	254.7	254.92	0.004914	1.71	16.5	41.64	0.61
East 2	2692	Hazel	10.27	253.96	254.66	254.57	254.76	0.006628	1.69	9.92	33.2	0.69
East 2	2692	Hazel w CC	12.36	253.96	254.75	254.65	254.83	0.005293	1.65	13.13	40.85	0.63
East 2	2674	100 Year	15.97	253.67	254.56	254.56	254.77	0.009775	2.28	9.74	25.94	0.85
East 2	2674	Hazel	10.27	253.67	254.38	254.38	254.58	0.012246	2.12	5.82	15.81	0.91
East 2	2674	Hazel w CC	12.36	253.67	254.42	254.42	254.66	0.013822	2.36	6.44	18.38	0.98
East 2	2647	100 Year	17.71	253.23	254.05	254.05	254.26	0.011092	2.22	9.9	26.39	0.89
East 2	2647	Hazel	11.35	253.23	253.94	253.89	254.09	0.009422	1.81	7.21	23	0.8
East 2	2647	Hazel w CC	13.64	253.23	253.98	253.96	254.16	0.009927	1.96	8.28	24.61	0.83
East 2	2618	100 Year	17.71	253.11	253.69	253.62	253.83	0.015435	2.05	11.51	27.92	0.99
East 2	2618	Hazel	11.35	253.11	253.52	253.52	253.67	0.026644	2.09	7.08	23.44	1.22
East 2	2618	Hazel w CC	13.64	253.11	253.57	253.56	253.72	0.024572	2.09	8.3	24.98	1.18

East 2	2592	100 Year	17.71	252.6	253.73		253.74	0.000368	0.35	50.87	91.11	0.11
East 2	2592	Hazel	11.35	252.6	253.52		253.52	0.000661	0.4	32.68	79.34	0.14
East 2	2592	Hazel w CC	13.64	252.6	253.6		253.61	0.000508	0.38	39.46	83.04	0.13
East 2	2578	100 Year	17.71	252.47	253.73	252.98	253.74	0.000009	0.06	152.73	249.84	0.02
East 2	2578	Hazel	11.35	252.47	253.52	252.93	253.52	0.000011	0.06	102.36	209.77	0.03
East 2	2578	Hazel w CC	13.64	252.47	253.6	252.94	253.6	0.00001	0.06	120.97	233.68	0.03
East 2	Grove St E (US)		Culvert									
East 2	2555	100 Year	17.71	252.02	253.73		253.73	0.000023	0.12	116.08	211.51	0.04
East 2	2555	Hazel	11.35	252.02	253.51		253.51	0.00003	0.12	72.72	177.75	0.05
East 2	2555	Hazel w CC	13.64	252.02	253.6		253.6	0.000027	0.12	88.25	192.82	0.04
East 2	2519	100 Year	20.72	251.83	253.58		253.68	0.004788	1.63	18.08	30.2	0.46
East 2	2519	Hazel	13.32	251.83	253.37		253.47	0.004753	1.45	12.1	28.04	0.44
East 2	2519	Hazel w CC	15.97	251.83	253.45		253.55	0.004873	1.54	14.27	29.04	0.45
East 2	2480	100 Year	20.72	251.54	253.21	253.16	253.4	0.010457	2.22	15.84	41.17	0.66
East 2	2480	Hazel	13.32	251.54	253.1	253	253.23	0.007427	1.75	11.86	32.27	0.54
East 2	2480	Hazel w CC	15.97	251.54	253.16	253.07	253.3	0.008078	1.88	13.74	35.32	0.57
East 2	2451	100 Year	20.72	251.58	253	253	253.11	0.007667	1.88	18.74	64.06	0.58
East 2	2451	Hazel	13.32	251.58	252.86	252.81	252.99	0.008968	1.86	11.64	35.98	0.62
East 2	2451	Hazel w CC	15.97	251.58	252.92	252.92	253.05	0.008534	1.89	14.38	55.27	0.61
East 2	2425	100 Year	20.72	251.4	252.86		252.91	0.004641	1.36	24.55	66.36	0.4
East 2	2425	Hazel	13.32	251.4	252.76		252.8	0.004276	1.23	18.42	59.19	0.38
East 2	2425	Hazel w CC	15.97	251.4	252.79		252.84	0.004894	1.34	20.1	61.04	0.41
East 2	2396	100 Year	20.72	251.31	252.8	252.5	252.83	0.001469	0.8	33.99	77.86	0.23
East 2	2396	Hazel	13.32	251.31	252.72	252.43	252.73	0.001072	0.65	27.83	69.56	0.2
East 2	2396	Hazel w CC	15.97	251.31	252.74	252.46	252.75	0.001382	0.75	28.94	71.76	0.22
East 2	2361	100 Year	20.72	251.21	252.77	252.39	252.79	0.000819	0.62	41.03	84.57	0.17
East 2	2361	Hazel	13.32	251.21	252.7	252.29	252.71	0.000511	0.47	35.22	78.19	0.13
East 2	2361	Hazel w CC	15.97	251.21	252.71	252.33	252.72	0.000698	0.56	35.85	78.55	0.16
East 2	2319	100 Year	29.85	250.9	252.68	252.4	252.73	0.00189	0.91	33.06	68.36	0.25
East 2	2319	Hazel	19.42	250.9	252.65	252.29	252.67	0.000947	0.63	31.09	65.99	0.17
East 2	2319	Hazel w CC	23.27	250.9	252.64	252.34	252.67	0.001482	0.79	30.13	65.54	0.22
East 2	2297	100 Year	29.85	250.64	252.64	252.53	252.69	0.001757	1.31	35.89	129.76	0.38
East 2	2297	Hazel	19.42	250.64	252.64	252.41	252.66	0.000753	0.86	35.69	129.55	0.25
East 2	2297	Hazel w CC	23.27	250.64	252.58	252.46	252.63	0.001784	1.29	28.56	115.76	0.38
East 2	St Vincent St		Culvert									
East 2	2262	100 Year	29.85	250.37	252.42	252.42	252.55	0.003018	2.02	23.3	81.52	0.55
East 2	2262	Hazel	19.42	250.37	251.98	251.98	252.66	0.011814	3.64	5.34	14.37	1.01
East 2	2262	Hazel w CC	23.27	250.37	252.38	252.38	252.5	0.002811	1.92	19.6	77.84	0.54
East 2	2245.6	100 Year	29.85	250.2	252.04	251.94	252.2	0.007516	1.84	17.23	41.55	0.52
East 2	2245.6	Hazel	19.42	250.2	251.96		252.06	0.004863	1.42	14.53	28.26	0.42
East 2	2245.6	Hazel w CC	23.27	250.2	251.97		252.1	0.006547	1.66	14.88	30.12	0.48
East 2	2221.3	100 Year	29.85	250.22	251.85	251.85	252.04	0.006143	2.1	20.18	60.82	0.62
East 2	2221.3	Hazel	19.42	250.22	251.61	251.47	251.87	0.009582	2.27	9.1	18.53	0.75
East 2	2221.3	Hazel w CC	23.27	250.22	251.78	251.78	251.95	0.005704	1.95	16.29	52.37	0.59
East 2	2194.7	100 Year	29.85	250.18	251.71		251.79	0.002831	1.4	28.42	90.8	0.4
East 2	2194.7	Hazel	19.42	250.18	251.59		251.66	0.002897	1.33	19.07	61.95	0.39
East 2	2194.7	Hazel w CC	23.27	250.18	251.64		251.71	0.002865	1.36	22.47	70.35	0.39
East 2	2166.9	100 Year	29.85	250.12	251.63		251.7	0.003121	1.26	27.86	72.88	0.35
East 2	2166.9	Hazel	19.42	250.12	251.51		251.57	0.003077	1.17	20.1	53.57	0.34
East 2	2166.9	Hazel w CC	23.27	250.12	251.56		251.63	0.003074	1.2	22.97	62.52	0.35
East 2	2138.7	100 Year	29.85	250.05	251.59		251.64	0.001471	1.13	34.02	98.07	0.33

East 2	2138.7	Hazel	19.42	250.05	251.46		251.51	0.001535	1.07	22.33	77.94	0.33
East 2	2138.7	Hazel w CC	23.27	250.05	251.51		251.56	0.001476	1.09	27.02	92.6	0.32
East 2	2116.8	100 Year	29.85	250.08	251.47		251.58	0.00375	1.64	23.49	72.51	0.5
East 2	2116.8	Hazel	19.42	250.08	251.35		251.45	0.003946	1.56	16.11	49.19	0.51
East 2	2116.8	Hazel w CC	23.27	250.08	251.4		251.5	0.003882	1.6	18.87	57.16	0.51
East 2	2090.4	100 Year	29.85	250.03	251.36	251.32	251.48	0.004134	1.72	21.56	63.37	0.5
East 2	2090.4	Hazel	19.42	250.03	251.25		251.35	0.003807	1.54	15.19	44.57	0.47
East 2	2090.4	Hazel w CC	23.27	250.03	251.3		251.4	0.003884	1.61	17.8	56.75	0.48
East 2	2069.7	100 Year	29.85	249.99	251.29	251.24	251.39	0.003665	1.66	23.05	85.58	0.49
East 2	2069.7	Hazel	19.42	249.99	251.17		251.27	0.003366	1.49	14.96	50.62	0.46
East 2	2069.7	Hazel w CC	23.27	249.99	251.23	251.13	251.32	0.003383	1.54	18.26	72.93	0.47
East 2	2038.4	100 Year	29.09	249.96	251.28		251.31	0.000894	0.75	47.42	101.7	0.23
East 2	2038.4	Hazel	19.79	249.96	251.16		251.19	0.000937	0.71	36.14	99.92	0.23
East 2	2038.4	Hazel w CC	23.98	249.96	251.22		251.24	0.000919	0.73	41.35	100.63	0.23
East 2	2022.5	100 Year	29.09	250.65	251.08	251.08	251.25	0.008643	1.38	16.44	48.65	0.69
East 2	2022.5	Hazel	19.79	250.65	251	251	251.14	0.008433	1.18	12.58	47.14	0.66
East 2	2022.5	Hazel w CC	23.98	250.65	251.04	251.04	251.19	0.008382	1.27	14.48	47.8	0.67
East 2	2002.7	100 Year	29.09	249.7	251.05		251.09	0.001481	1.07	33.14	61.34	0.33
East 2	2002.7	Hazel	19.79	249.7	250.9		250.94	0.001845	1.08	23.95	60.46	0.36
East 2	2002.7	Hazel w CC	23.98	249.7	250.96		251	0.001739	1.09	27.74	60.81	0.35
East 2	1971.6	100 Year	29.09	249.61	251.03	250.64	251.05	0.000726	0.69	40.61	60.06	0.2
East 2	1971.6	Hazel	19.79	249.61	250.87	250.57	250.89	0.000747	0.64	31.45	59.57	0.2
East 2	1971.6	Hazel w CC	23.98	249.61	250.93	250.6	250.96	0.000776	0.68	35.16	59.77	0.21
East 2	1921	100 Year	51.77	249.13	251	250.4	251.02	0.00048	0.63	86.97	95.95	0.17
East 2	1921	Hazel	34.98	249.13	250.85	250.32	250.87	0.000378	0.52	72.74	95.58	0.14
East 2	1921	Hazel w CC	42.31	249.13	250.91	250.36	250.93	0.000441	0.58	78.4	95.76	0.16
East 2	1887	100 Year	51.77	248.86	250.87	250.66	250.95	0.006536	1.77	46.56	92.49	0.55
East 2	1887	Hazel	34.98	248.86	250.75	250.56	250.81	0.005607	1.51	36.61	76.66	0.5
East 2	1887	Hazel w CC	42.31	248.86	250.79	250.61	250.87	0.006587	1.68	39.6	80.57	0.54
East 2	Bothwell Cr		Culvert									
East 2	1859	100 Year	51.77	248.31	250.65	250.65	250.85	0.011222	2.76	34.49	81.42	0.91
East 2	1859	Hazel	34.98	248.31	250.56	250.56	250.73	0.010053	2.43	27.19	77.74	0.84
East 2	1859	Hazel w CC	42.31	248.31	250.6	250.6	250.78	0.010648	2.59	30.52	78.08	0.88
East 2	1820	100 Year	55.4	247.48	250.05		250.29	0.00439	2.5	33.96	39.28	0.55
East 2	1820	Hazel	37.94	247.48	249.94		250.08	0.002671	1.88	29.72	36.38	0.42
East 2	1820	Hazel w CC	45.66	247.48	250		250.17	0.003378	2.15	31.83	38.17	0.48
East 2	1785	100 Year	55.4	247.26	250.06	249.73	250.09	0.000545	0.8	74.61	136.67	0.22
East 2	1785	Hazel	37.94	247.26	249.93	249.61	249.96	0.000537	0.74	57.28	129.65	0.22
East 2	1785	Hazel w CC	45.66	247.26	250	249.66	250.02	0.00053	0.76	65.81	136.45	0.22
East 2	Grove St E		Culvert									
East 2	1737	100 Year	55.4	246.76	249.91	249.91	250.09	0.004464	2.67	44.6	91.67	0.66
East 2	1737	Hazel	37.94	246.76	249.79	249.79	249.95	0.003971	2.4	34.38	81.89	0.62
East 2	1737	Hazel w CC	45.66	246.76	249.84	249.84	250.02	0.004467	2.6	38.2	84.15	0.66
East 2	1704	100 Year	55.4	246.75	249.46		249.56	0.001874	2.01	53.06	41.04	0.41
East 2	1704	Hazel	37.94	246.75	249.16		249.24	0.001748	1.78	41.14	38.11	0.39
East 2	1704	Hazel w CC	45.66	246.75	249.3		249.39	0.001801	1.89	46.61	39.39	0.4
East 2	1679	100 Year	55.4	246.66	249.28		249.47	0.004409	2.63	37.27	38.04	0.56
East 2	1679	Hazel	37.94	246.66	249.03		249.17	0.003466	2.16	28.73	27.29	0.48
East 2	1679	Hazel w CC	45.66	246.66	249.15		249.31	0.003934	2.39	32.28	34.37	0.52
East 2	1641	100 Year	55.4	246.36	249.31		249.34	0.00075	1.24	73.73	44.9	0.25
East 2	1641	Hazel	37.94	246.36	249.05		249.07	0.00059	1.03	62.23	43.67	0.21

East 2	1641	Hazel w CC	45.66	246.36	249.17		249.2	0.000664	1.13	67.59	44.38	0.23
East 2	1593.3	100 Year	55.4	246.29	249.27		249.31	0.000798	1.28	74.25	52.82	0.26
East 2	1593.3	Hazel	37.94	246.29	249.01		249.04	0.000667	1.09	60.98	51.98	0.23
East 2	1593.3	Hazel w CC	45.66	246.29	249.13		249.17	0.000728	1.18	67.19	52.41	0.24
East 2	1568.2	100 Year	55.39	246.14	249.26		249.28	0.000545	1.06	87.96	51.24	0.2
East 2	1568.2	Hazel	38.42	246.14	249.01		249.02	0.000421	0.87	75.16	50.13	0.18
East 2	1568.2	Hazel w CC	46.27	246.14	249.12		249.15	0.00049	0.97	81.13	51.24	0.19
East 2	1533.2	100 Year	55.39	245.85	248.97	248.61	249.17	0.003339	2.6	43.5	40.69	0.57
East 2	1533.2	Hazel	38.42	245.85	248.82	248.41	248.95	0.002305	2.06	37.87	35.45	0.47
East 2	1533.2	Hazel w CC	46.27	245.85	248.89	248.52	249.05	0.002827	2.33	40.37	35.66	0.52
East 2	Parkdale Cr	Culvert										
East 2	1498.8	100 Year	55.39	245.03	248.12	248.12	248.39	0.004216	2.79	33.42	53.1	0.64
East 2	1498.8	Hazel	38.42	245.03	247.37	247.37	248.53	0.009623	4.77	8.06	19.22	1
East 2	1498.8	Hazel w CC	46.27	245.03	248.03	248.03	248.3	0.004175	2.7	28.78	52.62	0.63
East 2	1487.5	100 Year	55.39	244.68	247.73		247.79	0.001008	1.4	63.45	52.09	0.27
East 2	1487.5	Hazel	38.42	244.68	247.55		247.6	0.000748	1.16	54.28	49.74	0.23
East 2	1487.5	Hazel w CC	46.27	244.68	247.64		247.7	0.000864	1.27	58.97	50.63	0.24
East 2	1477.2	100 Year	55.39	244.55	247.63	247.32	247.75	0.002084	1.87	44.49	55.19	0.44
East 2	1477.2	Hazel	38.42	244.55	247.47	247.2	247.56	0.001798	1.63	35.89	53.32	0.4
East 2	1477.2	Hazel w CC	46.27	244.55	247.56	247.28	247.66	0.00187	1.72	40.6	54.4	0.41
East 2	Davidson St	Culvert										
East 2	1391.9	100 Year	55.39	244.22	246.75	246.75	246.94	0.005038	2.66	35.93	71.28	0.68
East 2	1391.9	Hazel	38.42	244.22	246.61	246.61	246.81	0.005131	2.54	26.87	59.06	0.68
East 2	1391.9	Hazel w CC	46.27	244.22	246.68	246.68	246.87	0.005116	2.61	31.11	64.76	0.68
East 2	1373.1	100 Year	55.39	244.36	246.3		246.5	0.005613	2.64	34.12	48.59	0.65
East 2	1373.1	Hazel	38.42	244.36	246.12		246.31	0.005938	2.52	26.22	38.02	0.66
East 2	1373.1	Hazel w CC	46.27	244.36	246.21		246.41	0.005923	2.62	29.86	44.72	0.67
East 2	1349.3	100 Year	55.39	243.71	246.24		246.38	0.002679	1.79	37.22	42.41	0.38
East 2	1349.3	Hazel	38.42	243.71	246.09		246.19	0.002201	1.55	30.75	41.32	0.34
East 2	1349.3	Hazel w CC	46.27	243.71	246.17		246.29	0.002415	1.66	34	41.95	0.36
East 2	1321.1	100 Year	55.39	245.05	245.96	245.96	246.23	0.012216	2.82	26.92	50.34	0.97
East 2	1321.1	Hazel	38.42	245.05	245.82	245.82	246.05	0.01251	2.54	20.36	45.97	0.96
East 2	1321.1	Hazel w CC	46.27	245.05	245.89	245.89	246.13	0.012555	2.69	23.38	48.36	0.97
East 2	1293.7	100 Year	55.39	244.57	245.37	245.37	245.6	0.013177	2.63	27.04	53.64	0.99
East 2	1293.7	Hazel	38.42	244.57	245.26	245.26	245.45	0.013471	2.39	21.48	52.49	0.97
East 2	1293.7	Hazel w CC	46.27	244.57	245.31	245.31	245.52	0.013725	2.54	23.93	53	0.99
East 2	1265.5	100 Year	55.39	243.95	244.84	244.84	245.16	0.006355	2.06	23.48	41.45	0.71
East 2	1265.5	Hazel	38.42	243.95	244.71	244.71	244.95	0.00741	1.98	18.02	38.8	0.74
East 2	1265.5	Hazel w CC	46.27	243.95	244.76	244.76	245.05	0.007207	2.06	20.33	40.73	0.74
East 2	1249.8	100 Year	55.39	243.49	244.49	244.49	244.83	0.00747	2.39	24.51	45.24	0.82
East 2	1249.8	Hazel	38.42	243.49	244.32	244.3	244.6	0.008746	2.22	17.74	35.15	0.85
East 2	1249.8	Hazel w CC	46.27	243.49	244.39	244.39	244.71	0.008974	2.39	19.97	36.61	0.88
East 2	1225.2	100 Year	61.95	243.3	244.33	244.33	244.65	0.003547	1.87	28.93	51.89	0.67
East 2	1225.2	Hazel	44.02	243.3	244.2	244.2	244.46	0.003947	1.75	22.12	46.94	0.7
East 2	1225.2	Hazel w CC	53.16	243.3	244.29	244.29	244.56	0.003305	1.74	26.71	49.91	0.65
East 2	1206.2	100 Year	65.17	240.2	242.51	242.51	242.93	0.00745	3.26	30.66	38.36	0.74
East 2	1206.2	Hazel	47.73	240.2	242.3	242.3	242.68	0.007044	2.95	23.26	34.96	0.71
East 2	1206.2	Hazel w CC	57.68	240.2	242.4	242.4	242.83	0.007737	3.2	26.74	36.16	0.75
East 2	1195.3	100 Year	65.17	240.2	242.15		242.42	0.011041	2.78	34.23	42.14	0.67
East 2	1195.3	Hazel	47.73	240.2	241.96	241.92	242.22	0.011256	2.61	26.63	40.74	0.66
East 2	1195.3	Hazel w CC	57.68	240.2	242.08		242.34	0.010818	2.68	31.43	41.62	0.66

East 2	651.5	100 Year	62.15	233.8	233.81	233.81	233.92	0.00412	0.07	42.65	202.1	0.48
East 2	651.5	Hazel	45.3	233.8	233.76	233.76	233.86	0.004116		34.19	191.84	0
East 2	651.5	Hazel w CC	55.76	233.8	233.79	233.79	233.89	0.003973		40.05	198.9	0
East 2	618.5	100 Year	62.15	233.4	233.31	233.29	233.42	0.004875		40.92	146.72	0
East 2	618.5	Hazel	45.3	233.4	233.26	233.24	233.35	0.004313		34.08	140.83	0
East 2	618.5	Hazel w CC	55.76	233.4	233.29	233.27	233.4	0.004579		38.7	144.41	0
East 2	584.7	100 Year	65.84	233.09	233.16	233.16	233.29	0.003533	0.41	41.61	170.18	0.72
East 2	584.7	Hazel	49.64	233.09	233.11	233.11	233.22	0.003422	0.16	33.36	151.76	0.56
East 2	584.7	Hazel w CC	61.1	233.09	233.15	233.15	233.27	0.003279	0.37	40.34	167.79	0.68
East 2	550.7	100 Year	65.84	232.82	233.12	232.89	233.16	0.000602	0.09	74.22	193.8	0.1
East 2	550.7	Hazel	49.64	232.82	233.01	232.83	233.05	0.00081	0.1	55.13	171.15	0.11
East 2	550.7	Hazel w CC	61.1	232.82	233.09	232.87	233.13	0.000646	0.09	68.6	186.39	0.1
East 2	520.4	100 Year	65.84	232.49	232.85	232.85	233.07	0.030056	1.06	32.96	74.86	0.77
East 2	520.4	Hazel	49.64	232.49	232.76	232.76	232.95	0.032158	0.85	26.41	69.13	0.74
East 2	520.4	Hazel w CC	61.1	232.49	232.82	232.82	233.04	0.03153	1.02	30.75	72.52	0.77
East 2	491.1	100 Year	65.84	231.85	232.31	232.31	232.52	0.00942	1.07	33.41	79.32	0.69
East 2	491.1	Hazel	49.64	231.85	232.22	232.22	232.41	0.010013	0.9	26.81	72.69	0.68
East 2	491.1	Hazel w CC	61.1	231.85	232.29	232.29	232.49	0.00904	1.01	32.16	78.19	0.67
East 2	458.4	100 Year	65.84	231.1	231.41	231.41	231.58	0.035473	1.76	36.9	112.63	1.3
East 2	458.4	Hazel	49.64	231.1	231.35	231.35	231.49	0.036469	1.49	30.19	107.09	1.26
East 2	458.4	Hazel w CC	61.1	231.1	231.39	231.39	231.55	0.037005	1.7	34.58	110.75	1.31
East 2	426.7	100 Year	65.84	229.58	230.21	230.21	230.41	0.009147	1.1	41.64	113.12	0.49
East 2	426.7	Hazel	49.64	229.58	230.11	230.11	230.3	0.009603	0.98	31.44	87.96	0.49
East 2	426.7	Hazel w CC	61.1	229.58	230.18	230.18	230.38	0.009211	1.07	38.73	109.81	0.49
East 2	398	100 Year	65.84	227.21	227.23	227.23	227.38	0.005558	0.06	37.97	119.85	0.2
East 2	398	Hazel	49.64	227.21	227.16	227.16	227.3	0.004993		29.79	107.5	0
East 2	398	Hazel w CC	61.1	227.21	227.21	227.21	227.36	0.005425		35.65	118.19	0
East 2	369.7	100 Year	65.84	225.58	226.07	226.07	226.21	0.005045	2.12	46.01	177.69	1.23
East 2	369.7	Hazel	49.64	225.58	226.01	226.01	226.14	0.005	1.89	35.9	142.08	1.19
East 2	369.7	Hazel w CC	61.1	225.58	226.05	226.05	226.19	0.005044	2.06	43.04	164.91	1.22
East 2	334.5	100 Year	68.38	224.15	225.05	225.05	225.28	0.00638	2.14	33.83	74.05	0.81
East 2	334.5	Hazel	52.77	224.15	224.9	224.9	225.15	0.009808	2.23	24.12	47.31	0.95
East 2	334.5	Hazel w CC	64.94	224.15	225.03	225.03	225.25	0.006751	2.15	31.9	73.67	0.83
East 2	285.5	100 Year	68.38	223.48	223.69	223.69	223.85	0.003833	0.46	39.67	128.36	0.4
East 2	285.5	Hazel	52.77	223.48	223.64	223.64	223.78	0.003101	0.33	32.82	121.11	0.34
East 2	285.5	Hazel w CC	64.94	223.48	223.68	223.68	223.84	0.003753	0.44	37.9	127.9	0.39
East 2	236	100 Year	68.64	221.03	221.15	221.12	221.26	0.008754	0.86	49.1	191.27	1.12
East 2	236	Hazel	53.03	221.03	221.12	221.06	221.2	0.007213	0.69	43.52	172.97	1.04
East 2	236	Hazel w CC	65.27	221.03	221.14	221.11	221.25	0.009163	0.85	46.46	183.78	1.16
East 2	98.3	100 Year	68.64	219.9	220.65		220.68	0.002202	0.9	102.23	328.46	0.39
East 2	98.3	Hazel	53.03	219.9	220.59		220.61	0.002542	0.89	82.46	296.29	0.41
East 2	98.3	Hazel w CC	65.27	219.9	220.64		220.67	0.002185	0.89	99.2	324.52	0.39
East 2	17.1	100 Year	68.64	219.69	220.06	220.06	220.28	0.013069	3.08	45.82	180.59	1.94
East 2	17.1	Hazel	53.03	219.69	219.98	219.98	220.16	0.01813	2.85	34.46	118.71	2.15
East 2	17.1	Hazel w CC	65.27	219.69	220.02	220.02	220.25	0.017108	3.17	40.02	136.49	2.16
East 2	2	100 Year	68.64	218.33	219.13	218.47	219.13	0.000179	0.21	328.55	410.8	0.07
East 2	2	Hazel	53.03	218.33	219.13	218.45	219.13	0.000107	0.16	328.55	410.8	0.06
East 2	2	Hazel w CC	65.27	218.33	219.13	218.46	219.13	0.000162	0.2	328.55	410.8	0.07
East 1	675.3	100 Year	13.03	258.07	258.57	258.57	258.7	0.037808	1.32	8.39	33.46	0.87
East 1	675.3	Hazel	7.93	258.07	258.47	258.47	258.58	0.040035	1.25	5.37	25.15	0.87
East 1	675.3	Hazel w CC	9.5	258.07	258.51	258.51	258.63	0.038	1.29	6.39	28.71	0.86
East 1	582.7	100 Year	13.03	256.36	256.79	256.72	256.81	0.008972	0.85	24.97	166.53	0.5

East 1	582.7	Hazel	7.93	256.36	256.74	256.69	256.76	0.00936	0.79	17.67	152.08	0.49
East 1	582.7	Hazel w CC	9.5	256.36	256.76	256.7	256.77	0.009588	0.83	19.76	155.62	0.5
East 1	547.4	100 Year	13.03	255.29	256.48	256.37	256.53	0.006372	1.31	14.58	68.72	0.53
East 1	547.4	Hazel	7.93	255.29	256.32	256.25	256.39	0.010999	1.42	6.96	26.6	0.67
East 1	547.4	Hazel w CC	9.5	255.29	256.36	256.31	256.43	0.00949	1.39	8.34	35.34	0.63
East 1	499.9	100 Year	13.03	254.17	255.73	255.73	256.1	0.010691	2.77	5.57	9.55	0.85
East 1	499.9	Hazel	7.93	254.17	255.4	255.4	255.74	0.014378	2.61	3.13	4.99	0.96
East 1	499.9	Hazel w CC	9.5	254.17	255.52	255.52	255.87	0.012785	2.66	3.82	6.65	0.91
East 1	402	100 Year	13.03	252.28	253.92	252.9	253.92	0.000035	0.18	71.14	63	0.05
East 1	402	Hazel	7.93	252.28	253.71	252.85	253.72	0.000024	0.14	58.43	61.95	0.04
East 1	402	Hazel w CC	9.5	252.28	253.81	252.86	253.82	0.000025	0.15	64.59	62.46	0.05
East 1	374	100 Year	13.03	252.17	253.91	253.51	253.92	0.000042	0.29	45.85	85.76	0.12
East 1	374	Hazel	7.93	252.17	253.71	253.1	253.71	0.000074	0.28	28.51	84.22	0.15
East 1	374	Hazel w CC	9.5	252.17	253.81	253.48	253.81	0.000045	0.26	36.97	84.94	0.12
East 1	300		Culvert									
East 1	108.1	100 Year	18.12	251.71	251.73	251.68	251.81	0.028291	0.17	13.95	51.56	0.71
East 1	108.1	Hazel	11.15	251.71	251.61	251.61	251.7	0.052597		8.17	43.51	0
East 1	108.1	Hazel w CC	13.36	251.71	251.63	251.63	251.74	0.050693		9.38	45.53	0
East 1	81.8	100 Year	23.92	249.59	251.47	251.29	251.56	0.00546	1.64	20.17	40.27	0.46
East 1	81.8	Hazel	15.19	249.59	251.33	250.82	251.4	0.003915	1.36	14.6	40.02	0.39
East 1	81.8	Hazel w CC	18.21	249.59	251.38	250.92	251.46	0.004518	1.47	16.7	40.11	0.42
East 1	27.8	100 Year	23.92	249.4	251.4	251.1	251.41	0.001101	0.66	57.9	107.26	0.18
East 1	27.8	Hazel	15.19	249.4	251.26	251.03	251.27	0.001114	0.62	42.96	107.01	0.18
East 1	27.8	Hazel w CC	18.21	249.4	251.32	251.06	251.33	0.001097	0.63	48.64	107.07	0.18
East 1	0	100 Year	23.92	249.32	251.17	251.17	251.33	0.005569	2.33	23.03	58.12	0.59
East 1	0	Hazel	15.19	249.32	250.93	250.93	251.17	0.007869	2.47	10.4	27.69	0.68
East 1	0	Hazel w CC	18.21	249.32	251.11	251.11	251.25	0.004804	2.1	19.14	57.87	0.54
West	729	100 Year	3.7	227.14	227.73	227.73	227.94	0.043378	2.03	1.82	4.39	1.01
West	729	Hazel	2.26	227.14	227.59	227.59	227.76	0.046364	1.8	1.25	3.83	1.01
West	729	Hazel w CC	2.72	227.14	227.64	227.64	227.82	0.045305	1.89	1.44	4.01	1.01
West	698	100 Year	3.7	225.75	226.48	226.48	226.66	0.01826	1.91	1.94	5.33	1.01
West	698	Hazel	2.26	225.75	226.34	226.34	226.5	0.018972	1.75	1.29	4.13	1
West	698	Hazel w CC	2.72	225.75	226.39	226.39	226.56	0.018671	1.8	1.51	4.57	1
West	656	100 Year	3.7	224.78	225.51	225.51	225.7	0.017679	1.95	2.04	5.87	0.95
West	656	Hazel	2.26	224.78	225.39	225.39	225.53	0.019714	1.68	1.39	5.33	0.95
West	656	Hazel w CC	2.72	224.78	225.43	225.43	225.59	0.018582	1.77	1.61	5.57	0.94
West	618	100 Year	1.1	223.87	224.41	224.36	224.47	0.011891	1.13	0.97	4.26	0.76
West	618	Hazel	1	223.87	224.39	224.34	224.45	0.01224	1.11	0.9	4.14	0.76
West	618	Hazel w CC	1.22	223.87	224.43	224.38	224.5	0.011462	1.15	1.06	4.4	0.75
West	580	100 Year	1.1	223.22	223.7	223.7	223.82	0.022749	1.59	0.69	2.7	1
West	580	Hazel	1	223.22	223.67	223.67	223.8	0.021714	1.56	0.64	2.56	1
West	580	Hazel w CC	1.22	223.22	223.72	223.72	223.85	0.0238	1.62	0.76	2.86	1
West	Park St		Culvert									
West	531	100 Year	1.1	222.63	223.71		223.71	0.000197	0.38	2.88	19.35	0.12
West	531	Hazel	1	222.63	223.69		223.7	0.000172	0.35	2.84	19.2	0.12
West	531	Hazel w CC	1.22	222.63	223.71		223.72	0.000239	0.42	2.9	19.39	0.14
West	505	100 Year	1.1	222.3	223.71		223.71	0.000039	0.16	8.05	12.67	0.05
West	505	Hazel	1	222.3	223.69		223.69	0.000035	0.15	7.85	12.58	0.05
West	505	Hazel w CC	1.22	222.3	223.71		223.71	0.000048	0.18	8.11	12.7	0.06
West	477	100 Year	1.1	223.46	223.7		223.7	0.001489	0.35	3.24	25.77	0.26
West	477	Hazel	1	223.46	223.68		223.69	0.001835	0.37	2.84	24.07	0.29

West	477	Hazel w CC	1.22	223.46	223.7		223.71	0.001705	0.38	3.32	26.14	0.28
West	436	100 Year	1.44	223.24	223.61		223.62	0.002714	0.51	2.88	17.77	0.37
West	436	Hazel	1.18	223.24	223.55	223.47	223.57	0.004652	0.57	2.07	13.02	0.46
West	436	Hazel w CC	1.43	223.24	223.58	223.48	223.6	0.003816	0.57	2.53	15.33	0.43
West	396	100 Year	6.17	222.91	223.17	223.17	223.24	0.013834	1.29	5.39	41.98	0.98
West	396	Hazel	3.87	222.91	223.14	223.14	223.19	0.012181	1.07	4.16	40.3	0.89
West	396	Hazel w CC	4.67	222.91	223.15	223.15	223.21	0.014027	1.19	4.5	40.82	0.96
West	352	100 Year	6.17	222.43	222.79	222.79	222.89	0.004712	1.45	5.27	35.16	0.91
West	352	Hazel	3.87	222.43	222.73	222.73	222.81	0.005338	1.28	3.49	24.57	0.93
West	352	Hazel w CC	4.67	222.43	222.75	222.75	222.84	0.005206	1.36	4.06	25.83	0.93
West	324	100 Year	6.17	222.2	222.48	222.48	222.56	0.007422	1.33	5.26	33.16	0.89
West	324	Hazel	3.87	222.2	222.42	222.42	222.49	0.008803	1.18	3.59	28.36	0.91
West	324	Hazel w CC	4.67	222.2	222.45	222.45	222.52	0.008031	1.23	4.21	30.23	0.9
West	307	100 Year	7.33	221.94	222.17	222.17	222.25	0.006305	0.76	6.8	38.97	0.6
West	307	Hazel	4.38	221.94	222.11	222.11	222.18	0.006802	0.61	4.66	37	0.58
West	307	Hazel w CC	5.28	221.94	222.14	222.14	222.2	0.006043	0.65	5.52	37.81	0.56
West	275	100 Year	7.33	220.11	221.53		221.56	0.000283	1.04	15.14	45.87	0.31
West	275	Hazel	4.38	220.11	221.46		221.48	0.000161	0.75	12.13	38.61	0.23
West	275	Hazel w CC	5.28	220.11	221.48		221.5	0.0002	0.85	13.07	42.41	0.26
West	249	100 Year	7.33	220.97	221.54	221.15	221.55	0.000061	0.31	24.78	49.67	0.14
West	249	Hazel	4.38	220.97	221.47	221.1	221.47	0.000035	0.21	21.13	49.21	0.1
West	249	Hazel w CC	5.28	220.97	221.49	221.11	221.49	0.000043	0.24	22.33	49.33	0.11
West	222	100 Year	7.33	221.17	221.45	221.45	221.53	0.008215	1.51	6.92	42.58	1.03
West	222	Hazel	4.38	221.17	221.39	221.39	221.46	0.008269	1.28	4.79	38.78	1
West	222	Hazel w CC	5.28	221.17	221.41	221.41	221.48	0.007925	1.34	5.55	39.82	0.99
West	191	100 Year	11.27	220.58	221.04	221.04	221.16	0.00799	1.67	8.04	35.26	0.86
West	191	Hazel	6.23	220.58	220.92	220.92	221.03	0.010167	1.49	4.51	25.5	0.92
West	191	Hazel w CC	7.5	220.58	220.97	220.97	221.07	0.008213	1.48	5.74	30.5	0.84
West	154	100 Year	11.27	219.79	220.34	220.2	220.39	0.004914	1.08	11.68	31.18	0.5
West	154	Hazel	6.23	219.79	220.25	220.11	220.28	0.003324	0.78	8.97	29.77	0.39
West	154	Hazel w CC	7.5	219.79	220.28	220.14	220.31	0.003862	0.87	9.65	30.1	0.43
West	123	100 Year	12.17	219.78	220.11	220.11	220.18	0.009323	1.19	10.21	62	0.71
West	123	Hazel	6.62	219.78	220.04	220.04	220.1	0.011716	1.12	6.23	52.75	0.76
West	123	Hazel w CC	7.96	219.78	220.06	220.06	220.12	0.009765	1.1	7.53	56.44	0.71
West	88	100 Year	12.17	219.65	220.03		220.05	0.001365	0.54	22.34	130.18	0.31
West	88	Hazel	6.62	219.65	219.98	219.88	219.99	0.001037	0.42	15.99	109.42	0.26
West	88	Hazel w CC	7.96	219.65	219.99		220	0.001236	0.47	17.06	111.05	0.28
West	32	100 Year	12.17	219.51	219.8	219.8	219.87	0.014041	1.57	13.39	95.13	1.08
West	32	Hazel	6.62	219.51	219.71	219.71	219.8	0.035558	1.67	6.17	61.8	1.5
West	32	Hazel w CC	7.96	219.51	219.76	219.76	219.82	0.016079	1.43	9.69	85.7	1.09
West	0	100 Year	12.17	217.3	219.13	217.37	219.13	0.000001	0.03	401.37	219.36	0.01
West	0	Hazel	6.62	217.3	219.13	217.34	219.13	0	0.02	401.37	219.36	0
West	0	Hazel w CC	7.96	217.3	219.13	217.35	219.13	0	0.02	401.37	219.36	0

Sophia Creek - Calibration -50% Expansion / Contraction

Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
			(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
East 2	3041.4	100 Year	13.11	258.17	259.38	259.38	259.78	0.028371	2.9	4.85	6.92	0.95
East 2	3041.4	Hazel	8.39	258.17	259.15	259.15	259.46	0.031634	2.54	3.44	5.48	0.95
East 2	3041.4	Hazel w CC	10.08	258.17	259.23	259.23	259.58	0.030481	2.69	3.93	5.83	0.95
East 2	3011	100 Year	13.11	257.28	258.86	258.85	259.18	0.012425	2.62	6.05	12.06	0.77
East 2	3011	Hazel	8.39	257.28	258.65	258.52	258.89	0.011595	2.22	4.08	6.23	0.72
East 2	3011	Hazel w CC	10.08	257.28	258.73	258.63	259.01	0.012469	2.43	4.63	8.64	0.76
East 2	2989.4	100 Year	13.11	257.05	258.56	258.56	258.89	0.013838	2.67	5.9	12.35	0.8
East 2	2989.4	Hazel	8.39	257.05	258.32	258.24	258.6	0.015474	2.4	3.72	5.95	0.81
East 2	2989.4	Hazel w CC	10.08	257.05	258.43	258.43	258.73	0.013989	2.48	4.61	9.1	0.79
East 2	2966.5	100 Year	13.32	256.73	258.3	258.3	258.44	0.008229	1.99	10.24	32.47	0.6
East 2	2966.5	Hazel	8.62	256.73	258.09	258.09	258.28	0.011877	2.09	5.67	16.32	0.7
East 2	2966.5	Hazel w CC	10.38	256.73	258.15	258.15	258.35	0.012118	2.2	6.69	17.77	0.71
East 2	2934.2	100 Year	13.32	256.28	257.87	257.73	257.91	0.001612	0.77	15.99	59.32	0.26
East 2	2934.2	Hazel	8.62	256.28	257.79	257.64	257.82	0.001369	0.66	11.51	45.53	0.23
East 2	2934.2	Hazel w CC	10.38	256.28	257.82	257.67	257.85	0.001521	0.72	13.24	56.14	0.25
East 2	Howard Cr		Culvert									
East 2	2899.9	100 Year	13.32	255.94	257.37	257.37	257.46	0.007498	1.56	10.51	49.51	0.53
East 2	2899.9	Hazel	8.62	255.94	257.31	257.31	257.39	0.00843	1.58	7.52	49.33	0.55
East 2	2899.9	Hazel w CC	10.38	255.94	257.34	257.34	257.42	0.006541	1.43	9.34	49.44	0.49
East 2	2884	100 Year	13.32	255.74	257.01	256.95	257.1	0.004099	1.18	10.82	35.96	0.4
East 2	2884	Hazel	8.62	255.74	256.9	256.82	256.98	0.004468	1.13	7.23	26.7	0.4
East 2	2884	Hazel w CC	10.38	255.74	256.94	256.86	257.02	0.004738	1.2	8.22	31.68	0.42
East 2	2862	100 Year	15.97	255.62	256.78	256.78	256.95	0.010484	1.84	8.85	29.96	0.64
East 2	2862	Hazel	10.27	255.62	256.7	256.7	256.83	0.009956	1.67	6.36	27.73	0.61
East 2	2862	Hazel w CC	12.36	255.62	256.74	256.74	256.88	0.00912	1.66	7.65	28.84	0.59
East 2	2835.6	100 Year	15.97	255.22	256.67	256.5	256.7	0.002146	0.74	20.47	70.97	0.27
East 2	2835.6	Hazel	10.27	255.22	256.58	256.43	256.61	0.001942	0.65	14.93	59.16	0.25
East 2	2835.6	Hazel w CC	12.36	255.22	256.62	256.46	256.65	0.001993	0.68	17.18	64.66	0.26
East 2	.1 Lay St		Culvert									
East 2	2744	100 Year	15.97	254.22	256.37	256.37	256.45	0.006352	1.73	20.88	94.07	0.62
East 2	2744	Hazel	10.27	254.22	256.31	256.31	256.38	0.005401	1.51	14.98	87.6	0.56
East 2	2744	Hazel w CC	12.36	254.22	256.33	256.33	256.41	0.00601	1.62	16.95	90.72	0.59
East 2	2726	100 Year	15.97	254.17	255.04	254.91	255.12	0.007267	1.69	15.05	35.84	0.62
East 2	2726	Hazel	10.27	254.17	254.93	254.82	254.99	0.006636	1.46	11.19	33.31	0.58
East 2	2726	Hazel w CC	12.36	254.17	254.98	254.86	255.04	0.006844	1.55	12.73	34.36	0.59
East 2	2692	100 Year	15.97	253.96	254.82	254.7	254.91	0.005391	1.77	15.94	41.53	0.64
East 2	2692	Hazel	10.27	253.96	254.65	254.57	254.76	0.007178	1.74	9.58	32.65	0.71
East 2	2692	Hazel w CC	12.36	253.96	254.73	254.65	254.83	0.005906	1.72	12.54	40.33	0.66
East 2	2674	100 Year	15.97	253.67	254.56	254.56	254.77	0.009775	2.28	9.74	25.94	0.85
East 2	2674	Hazel	10.27	253.67	254.38	254.38	254.58	0.012246	2.12	5.82	15.81	0.91
East 2	2674	Hazel w CC	12.36	253.67	254.42	254.42	254.66	0.013822	2.36	6.44	18.38	0.98
East 2	2647	100 Year	17.71	253.23	254.07	254.05	254.27	0.009928	2.14	10.41	27.69	0.84
East 2	2647	Hazel	11.35	253.23	253.94	253.89	254.09	0.009317	1.8	7.24	23.05	0.79
East 2	2647	Hazel w CC	13.64	253.23	253.99	253.96	254.16	0.009722	1.95	8.36	24.73	0.82
East 2	2618	100 Year	17.71	253.11	253.62	253.62	253.82	0.026691	2.4	9.56	26.09	1.26
East 2	2618	Hazel	11.35	253.11	253.52	253.52	253.67	0.026644	2.09	7.08	23.44	1.22
East 2	2618	Hazel w CC	13.64	253.11	253.56	253.56	253.72	0.025128	2.1	8.24	24.87	1.19

East 2	2592	100 Year	17.71	252.6	253.71		253.72	0.000421	0.37	48.82	88.93	0.12
East 2	2592	Hazel	11.35	252.6	253.48		253.49	0.000912	0.46	29.69	77.84	0.17
East 2	2592	Hazel w CC	13.64	252.6	253.57		253.58	0.000636	0.41	36.88	81.96	0.14
East 2	2578	100 Year	17.71	252.47	253.72	252.98	253.72	0.000009	0.06	147.85	246.02	0.03
East 2	2578	Hazel	11.35	252.47	253.48	252.93	253.48	0.000013	0.06	95.2	206.42	0.03
East 2	2578	Hazel w CC	13.64	252.47	253.57	252.94	253.57	0.000011	0.06	114.54	228.16	0.03
East 2	Grove St E (US)		Culvert									
East 2	2555	100 Year	17.71	252.02	253.7		253.71	0.000027	0.13	109.91	208.08	0.04
East 2	2555	Hazel	11.35	252.02	253.48		253.48	0.000036	0.13	67.41	172.9	0.05
East 2	2555	Hazel w CC	13.64	252.02	253.57		253.57	0.000032	0.13	82.48	183.94	0.05
East 2	2519	100 Year	20.72	251.83	253.58		253.69	0.004733	1.63	18.17	30.31	0.46
East 2	2519	Hazel	13.32	251.83	253.37		253.46	0.004861	1.46	11.96	27.65	0.45
East 2	2519	Hazel w CC	15.97	251.83	253.45		253.55	0.004922	1.54	14.2	29.02	0.46
East 2	2480	100 Year	20.72	251.54	253.19	253.16	253.4	0.011984	2.33	14.68	37.35	0.7
East 2	2480	Hazel	13.32	251.54	253.13	253	253.24	0.00663	1.67	12.59	33.51	0.52
East 2	2480	Hazel w CC	15.97	251.54	253.15	253.07	253.3	0.008334	1.91	13.52	35.09	0.58
East 2	2451	100 Year	20.72	251.58	253	253	253.11	0.007667	1.88	18.74	64.06	0.58
East 2	2451	Hazel	13.32	251.58	252.82	252.81	252.99	0.011637	2.05	10.21	32.16	0.7
East 2	2451	Hazel w CC	15.97	251.58	252.92	252.92	253.05	0.008534	1.89	14.38	55.27	0.61
East 2	2425	100 Year	20.72	251.4	252.85		252.9	0.005101	1.42	23.79	64.82	0.42
East 2	2425	Hazel	13.32	251.4	252.75		252.79	0.004542	1.26	17.78	55.25	0.39
East 2	2425	Hazel w CC	15.97	251.4	252.77		252.83	0.00554	1.41	19.21	60.46	0.44
East 2	2396	100 Year	20.72	251.31	252.8	252.5	252.82	0.001516	0.81	33.61	76.95	0.24
East 2	2396	Hazel	13.32	251.31	252.72	252.43	252.73	0.00109	0.66	27.66	69.21	0.2
East 2	2396	Hazel w CC	15.97	251.31	252.73	252.46	252.75	0.001447	0.76	28.48	70.67	0.23
East 2	2361	100 Year	20.72	251.21	252.77	252.39	252.78	0.000837	0.63	40.72	84.3	0.17
East 2	2361	Hazel	13.32	251.21	252.7	252.29	252.71	0.000515	0.48	35.13	78.14	0.13
East 2	2361	Hazel w CC	15.97	251.21	252.7	252.33	252.71	0.000724	0.56	35.41	78.3	0.16
East 2	2319	100 Year	29.85	250.9	252.68	252.4	252.73	0.00191	0.91	32.94	68.07	0.25
East 2	2319	Hazel	19.42	250.9	252.65	252.29	252.67	0.000947	0.63	31.09	65.99	0.17
East 2	2319	Hazel w CC	23.27	250.9	252.63	252.34	252.67	0.001534	0.8	29.75	65.37	0.22
East 2	2297	100 Year	29.85	250.64	252.64	252.53	252.69	0.001757	1.31	35.89	129.76	0.38
East 2	2297	Hazel	19.42	250.64	252.64	252.41	252.66	0.000753	0.86	35.69	129.55	0.25
East 2	2297	Hazel w CC	23.27	250.64	252.58	252.46	252.63	0.001784	1.29	28.56	115.76	0.38
East 2	St Vincent St		Culvert									
East 2	2262	100 Year	29.85	250.37	252.42	252.42	252.55	0.003018	2.02	23.3	81.52	0.55
East 2	2262	Hazel	19.42	250.37	251.98	251.98	252.66	0.011814	3.64	5.34	14.37	1.01
East 2	2262	Hazel w CC	23.27	250.37	252.38	252.38	252.5	0.002811	1.92	19.6	77.84	0.54
East 2	2245.6	100 Year	29.85	250.2	252.04	251.94	252.2	0.007436	1.83	17.32	42.76	0.52
East 2	2245.6	Hazel	19.42	250.2	251.95		252.05	0.005166	1.45	14.21	27.13	0.43
East 2	2245.6	Hazel w CC	23.27	250.2	251.97		252.1	0.006635	1.66	14.8	29.73	0.49
East 2	2221.3	100 Year	29.85	250.22	251.85	251.85	252.04	0.006143	2.1	20.18	60.82	0.62
East 2	2221.3	Hazel	19.42	250.22	251.52	251.47	251.85	0.013961	2.56	7.79	11.19	0.9
East 2	2221.3	Hazel w CC	23.27	250.22	251.78	251.78	251.95	0.005704	1.95	16.29	52.37	0.59
East 2	2194.7	100 Year	29.85	250.18	251.71		251.79	0.002959	1.43	27.82	89.28	0.4
East 2	2194.7	Hazel	19.42	250.18	251.58		251.65	0.003067	1.36	18.59	61.35	0.41
East 2	2194.7	Hazel w CC	23.27	250.18	251.63		251.71	0.003017	1.39	21.96	69.46	0.4
East 2	2166.9	100 Year	29.85	250.12	251.62		251.7	0.003317	1.29	27.2	72.5	0.36
East 2	2166.9	Hazel	19.42	250.12	251.51		251.57	0.0032	1.19	19.81	53.41	0.35
East 2	2166.9	Hazel w CC	23.27	250.12	251.56		251.62	0.003221	1.23	22.56	61.18	0.36
East 2	2138.7	100 Year	29.85	250.05	251.58		251.63	0.001519	1.15	33.53	97.84	0.33

East 2	2138.7	Hazel	19.42	250.05	251.45		251.5	0.001595	1.09	21.95	76.8	0.33
East 2	2138.7	Hazel w CC	23.27	250.05	251.51		251.56	0.001526	1.1	26.6	92.29	0.33
East 2	2116.8	100 Year	29.85	250.08	251.48		251.58	0.00361	1.62	23.86	73.24	0.49
East 2	2116.8	Hazel	19.42	250.08	251.35		251.45	0.003929	1.55	16.14	49.24	0.51
East 2	2116.8	Hazel w CC	23.27	250.08	251.41		251.51	0.003752	1.58	19.13	57.71	0.5
East 2	2090.4	100 Year	29.85	250.03	251.37	251.32	251.48	0.003764	1.65	22.44	64.53	0.48
East 2	2090.4	Hazel	19.42	250.03	251.24	251.14	251.34	0.003933	1.56	14.92	43.75	0.48
East 2	2090.4	Hazel w CC	23.27	250.03	251.3	251.2	251.4	0.003832	1.6	17.91	57.12	0.48
East 2	2069.7	100 Year	29.85	249.99	251.24	251.24	251.39	0.005259	1.93	18.87	75.05	0.59
East 2	2069.7	Hazel	19.42	249.99	251.13	251.03	251.26	0.004571	1.68	12.89	38.08	0.54
East 2	2069.7	Hazel w CC	23.27	249.99	251.17	251.13	251.31	0.00487	1.79	14.9	50.36	0.56
East 2	2038.4	100 Year	29.09	249.96	251.26		251.29	0.00098	0.78	46.06	101.6	0.24
East 2	2038.4	Hazel	19.79	249.96	251.15		251.18	0.001022	0.73	35.11	99.82	0.24
East 2	2038.4	Hazel w CC	23.98	249.96	251.2		251.23	0.001001	0.75	40.17	100.38	0.24
East 2	2022.5	100 Year	29.09	250.65	251.08	251.08	251.25	0.008643	1.38	16.44	48.65	0.69
East 2	2022.5	Hazel	19.79	250.65	251	251	251.14	0.008433	1.18	12.58	47.14	0.66
East 2	2022.5	Hazel w CC	23.98	250.65	251.04	251.04	251.19	0.008382	1.27	14.48	47.8	0.67
East 2	2002.7	100 Year	29.09	249.7	251.02		251.07	0.001733	1.14	31.5	61.18	0.36
East 2	2002.7	Hazel	19.79	249.7	250.88		250.92	0.002106	1.14	22.91	60.37	0.38
East 2	2002.7	Hazel w CC	23.98	249.7	250.94		250.99	0.001985	1.15	26.55	60.7	0.38
East 2	1971.6	100 Year	29.09	249.61	251	250.64	251.03	0.00082	0.73	39.08	59.98	0.21
East 2	1971.6	Hazel	19.79	249.61	250.86	250.57	250.88	0.000813	0.66	30.6	59.53	0.21
East 2	1971.6	Hazel w CC	23.98	249.61	250.92	250.6	250.94	0.00085	0.7	34.14	59.72	0.21
East 2	1921	100 Year	51.77	249.13	250.98	250.4	251	0.000525	0.65	84.49	95.9	0.17
East 2	1921	Hazel	34.98	249.13	250.84	250.32	250.85	0.000399	0.53	71.48	95.53	0.15
East 2	1921	Hazel w CC	42.31	249.13	250.9	250.36	250.91	0.000469	0.59	76.85	95.71	0.16
East 2	1887	100 Year	51.77	248.86	250.86	250.66	250.94	0.007003	1.81	45.22	90.88	0.57
East 2	1887	Hazel	34.98	248.86	250.75	250.56	250.81	0.005607	1.51	36.61	76.66	0.5
East 2	1887	Hazel w CC	42.31	248.86	250.79	250.61	250.87	0.006587	1.68	39.6	80.57	0.54
East 2	Bothwell Cr		Culvert									
East 2	1859	100 Year	51.77	248.31	250.66	250.66	250.85	0.011137	2.75	34.58	81.43	0.9
East 2	1859	Hazel	34.98	248.31	250.56	250.56	250.73	0.010053	2.43	27.19	77.74	0.84
East 2	1859	Hazel w CC	42.31	248.31	250.6	250.6	250.78	0.010648	2.59	30.52	78.08	0.88
East 2	1820	100 Year	55.4	247.48	249.88	249.64	250.21	0.006511	2.88	27.7	34.99	0.66
East 2	1820	Hazel	37.94	247.48	249.87		250.03	0.00314	1.99	27.29	34.58	0.46
East 2	1820	Hazel w CC	45.66	247.48	249.89		250.11	0.004335	2.36	28	35.29	0.54
East 2	1785	100 Year	55.4	247.26	250.06	249.73	250.09	0.000545	0.8	74.61	136.67	0.22
East 2	1785	Hazel	37.94	247.26	249.93	249.61	249.96	0.000537	0.74	57.28	129.65	0.22
East 2	1785	Hazel w CC	45.66	247.26	250	249.66	250.02	0.00053	0.76	65.81	136.45	0.22
East 2	Grove St E		Culvert									
East 2	1737	100 Year	55.4	246.76	249.91	249.91	250.09	0.004464	2.67	44.6	91.67	0.66
East 2	1737	Hazel	37.94	246.76	249.79	249.79	249.95	0.003971	2.4	34.38	81.89	0.62
East 2	1737	Hazel w CC	45.66	246.76	249.84	249.84	250.02	0.004467	2.6	38.2	84.15	0.66
East 2	1704	100 Year	55.4	246.75	249.37		249.48	0.002276	2.16	49.41	40.23	0.45
East 2	1704	Hazel	37.94	246.75	249.1		249.19	0.002039	1.89	38.89	37.71	0.42
East 2	1704	Hazel w CC	45.66	246.75	249.23		249.33	0.002149	2.02	43.69	38.7	0.44
East 2	1679	100 Year	55.4	246.66	249.16		249.39	0.00573	2.89	32.45	34.7	0.63
East 2	1679	Hazel	37.94	246.66	248.95		249.11	0.004232	2.32	26.59	26.67	0.53
East 2	1679	Hazel w CC	45.66	246.66	249.05		249.24	0.004877	2.58	29.18	27.78	0.57
East 2	1641	100 Year	55.4	246.36	249.26		249.3	0.000823	1.29	71.51	44.71	0.26
East 2	1641	Hazel	37.94	246.36	249.02		249.04	0.000634	1.06	60.77	43.57	0.22

East 2	1641	Hazel w CC	45.66	246.36	249.13		249.16	0.000721	1.16	65.77	44.12	0.24
East 2	1593.3	100 Year	55.4	246.29	249.21		249.26	0.000897	1.34	71.38	52.65	0.27
East 2	1593.3	Hazel	37.94	246.29	248.98		249.01	0.00073	1.13	59.08	51.83	0.24
East 2	1593.3	Hazel w CC	45.66	246.29	249.09		249.12	0.000809	1.23	64.83	52.25	0.26
East 2	1568.2	100 Year	55.39	246.14	249.21		249.23	0.000598	1.09	85.36	51.24	0.21
East 2	1568.2	Hazel	38.42	246.14	248.97		248.99	0.000451	0.89	73.5	50.02	0.18
East 2	1568.2	Hazel w CC	46.27	246.14	249.08		249.11	0.000532	1	78.99	51.24	0.2
East 2	1533.2	100 Year	55.39	245.85	248.97	248.61	249.17	0.003339	2.6	43.5	40.69	0.57
East 2	1533.2	Hazel	38.42	245.85	248.82	248.41	248.95	0.002305	2.06	37.87	35.45	0.47
East 2	1533.2	Hazel w CC	46.27	245.85	248.89	248.52	249.05	0.002827	2.33	40.37	35.66	0.52
East 2	Parkdale Cr	Culvert										
East 2	1498.8	100 Year	55.39	245.03	248.12	248.12	248.39	0.004216	2.79	33.42	53.1	0.64
East 2	1498.8	Hazel	38.42	245.03	247.37	247.37	248.53	0.009623	4.77	8.06	19.22	1
East 2	1498.8	Hazel w CC	46.27	245.03	248.03	248.03	248.3	0.004175	2.7	28.78	52.62	0.63
East 2	1487.5	100 Year	55.39	244.68	247.71		247.77	0.001068	1.44	62.23	51.57	0.27
East 2	1487.5	Hazel	38.42	244.68	247.53		247.58	0.000779	1.18	53.45	49.6	0.23
East 2	1487.5	Hazel w CC	46.27	244.68	247.63		247.68	0.000902	1.29	58.06	50.46	0.25
East 2	1477.2	100 Year	55.39	244.55	247.63	247.32	247.75	0.002084	1.87	44.49	55.19	0.44
East 2	1477.2	Hazel	38.42	244.55	247.47	247.2	247.56	0.001798	1.63	35.89	53.32	0.4
East 2	1477.2	Hazel w CC	46.27	244.55	247.56	247.28	247.66	0.00187	1.72	40.6	54.4	0.41
East 2	Davidson St	Culvert										
East 2	1391.9	100 Year	55.39	244.22	246.75	246.75	246.94	0.005038	2.66	35.93	71.28	0.68
East 2	1391.9	Hazel	38.42	244.22	246.61	246.61	246.81	0.005131	2.54	26.87	59.06	0.68
East 2	1391.9	Hazel w CC	46.27	244.22	246.68	246.68	246.87	0.005116	2.61	31.11	64.76	0.68
East 2	1373.1	100 Year	55.39	244.36	246.24	246.23	246.49	0.007194	2.93	31.53	47.18	0.74
East 2	1373.1	Hazel	38.42	244.36	246.05		246.3	0.007833	2.81	23.73	35.01	0.75
East 2	1373.1	Hazel w CC	46.27	244.36	246.13	246.11	246.4	0.008148	2.97	26.72	38.72	0.78
East 2	1349.3	100 Year	55.39	243.71	246.23		246.38	0.002793	1.82	36.67	42.34	0.39
East 2	1349.3	Hazel	38.42	243.71	246.08		246.18	0.002301	1.58	30.26	41.21	0.35
East 2	1349.3	Hazel w CC	46.27	243.71	246.15		246.28	0.002524	1.69	33.47	41.84	0.37
East 2	1321.1	100 Year	55.39	245.05	245.96	245.96	246.23	0.012216	2.82	26.92	50.34	0.97
East 2	1321.1	Hazel	38.42	245.05	245.82	245.82	246.05	0.01251	2.54	20.36	45.97	0.96
East 2	1321.1	Hazel w CC	46.27	245.05	245.89	245.89	246.13	0.012555	2.69	23.38	48.36	0.97
East 2	1293.7	100 Year	55.39	244.57	245.37	245.37	245.6	0.013177	2.63	27.04	53.64	0.99
East 2	1293.7	Hazel	38.42	244.57	245.26	245.26	245.45	0.013471	2.39	21.48	52.49	0.97
East 2	1293.7	Hazel w CC	46.27	244.57	245.31	245.31	245.52	0.013725	2.54	23.93	53	0.99
East 2	1265.5	100 Year	55.39	243.95	244.84	244.84	245.16	0.006355	2.06	23.48	41.45	0.71
East 2	1265.5	Hazel	38.42	243.95	244.71	244.71	244.95	0.00741	1.98	18.02	38.8	0.74
East 2	1265.5	Hazel w CC	46.27	243.95	244.76	244.76	245.05	0.007207	2.06	20.33	40.73	0.74
East 2	1249.8	100 Year	55.39	243.49	244.49	244.49	244.83	0.00747	2.39	24.51	45.24	0.82
East 2	1249.8	Hazel	38.42	243.49	244.32	244.3	244.6	0.008941	2.24	17.61	35	0.86
East 2	1249.8	Hazel w CC	46.27	243.49	244.39	244.39	244.71	0.008974	2.39	19.97	36.61	0.88
East 2	1225.2	100 Year	61.95	243.3	244.33	244.33	244.65	0.003547	1.87	28.93	51.89	0.67
East 2	1225.2	Hazel	44.02	243.3	244.2	244.2	244.46	0.003947	1.75	22.12	46.94	0.7
East 2	1225.2	Hazel w CC	53.16	243.3	244.29	244.29	244.56	0.003305	1.74	26.71	49.91	0.65
East 2	1206.2	100 Year	65.17	240.2	242.51	242.51	242.93	0.00745	3.26	30.66	38.36	0.74
East 2	1206.2	Hazel	47.73	240.2	242.3	242.3	242.68	0.007044	2.95	23.26	34.96	0.71
East 2	1206.2	Hazel w CC	57.68	240.2	242.4	242.4	242.83	0.007737	3.2	26.74	36.16	0.75
East 2	1195.3	100 Year	65.17	240.2	242.15		242.42	0.010965	2.78	34.32	42.15	0.67
East 2	1195.3	Hazel	47.73	240.2	241.95	241.92	242.22	0.011887	2.67	26.04	40.65	0.68
East 2	1195.3	Hazel w CC	57.68	240.2	242.07		242.34	0.011099	2.71	31.12	41.54	0.67

East 2	651.5	100 Year	62.15	233.8	233.81	233.81	233.92	0.00412	0.07	42.65	202.1	0.48
East 2	651.5	Hazel	45.3	233.8	233.76	233.76	233.86	0.004116		34.19	191.84	0
East 2	651.5	Hazel w CC	55.76	233.8	233.79	233.79	233.89	0.003973		40.05	198.9	0
East 2	618.5	100 Year	62.15	233.4	233.31	233.29	233.42	0.00495		40.7	146.49	0
East 2	618.5	Hazel	45.3	233.4	233.26	233.24	233.35	0.004411		33.81	140.49	0
East 2	618.5	Hazel w CC	55.76	233.4	233.29	233.27	233.4	0.00471		38.31	144.03	0
East 2	584.7	100 Year	65.84	233.09	233.16	233.16	233.29	0.003533	0.41	41.61	170.18	0.72
East 2	584.7	Hazel	49.64	233.09	233.11	233.11	233.22	0.003422	0.16	33.36	151.76	0.56
East 2	584.7	Hazel w CC	61.1	233.09	233.15	233.15	233.27	0.003279	0.37	40.34	167.79	0.68
East 2	550.7	100 Year	65.84	232.82	233.1	232.89	233.15	0.000673	0.09	71.29	191.77	0.1
East 2	550.7	Hazel	49.64	232.82	232.99	232.83	233.04	0.000798	0.09	51.4	161.11	0.11
East 2	550.7	Hazel w CC	61.1	232.82	233.07	232.87	233.12	0.000713	0.1	65.97	180.38	0.11
East 2	520.4	100 Year	65.84	232.49	232.85	232.85	233.07	0.030056	1.06	32.96	74.86	0.77
East 2	520.4	Hazel	49.64	232.49	232.76	232.76	232.95	0.032158	0.85	26.41	69.13	0.74
East 2	520.4	Hazel w CC	61.1	232.49	232.82	232.82	233.04	0.03153	1.02	30.75	72.52	0.77
East 2	491.1	100 Year	65.84	231.85	232.31	232.31	232.52	0.00942	1.07	33.41	79.32	0.69
East 2	491.1	Hazel	49.64	231.85	232.22	232.22	232.41	0.010013	0.9	26.81	72.69	0.68
East 2	491.1	Hazel w CC	61.1	231.85	232.29	232.29	232.49	0.00904	1.01	32.16	78.19	0.67
East 2	458.4	100 Year	65.84	231.1	231.41	231.41	231.58	0.035473	1.76	36.9	112.63	1.3
East 2	458.4	Hazel	49.64	231.1	231.35	231.35	231.49	0.036469	1.49	30.19	107.09	1.26
East 2	458.4	Hazel w CC	61.1	231.1	231.39	231.39	231.55	0.037005	1.7	34.58	110.75	1.31
East 2	426.7	100 Year	65.84	229.58	230.21	230.21	230.41	0.009147	1.1	41.64	113.12	0.49
East 2	426.7	Hazel	49.64	229.58	230.11	230.11	230.3	0.009603	0.98	31.44	87.96	0.49
East 2	426.7	Hazel w CC	61.1	229.58	230.18	230.18	230.38	0.009211	1.07	38.73	109.81	0.49
East 2	398	100 Year	65.84	227.21	227.23	227.23	227.38	0.005558	0.06	37.97	119.85	0.2
East 2	398	Hazel	49.64	227.21	227.16	227.16	227.3	0.004993		29.79	107.5	0
East 2	398	Hazel w CC	61.1	227.21	227.21	227.21	227.36	0.005425		35.65	118.19	0
East 2	369.7	100 Year	65.84	225.58	226.07	226.07	226.21	0.005045	2.12	46.01	177.69	1.23
East 2	369.7	Hazel	49.64	225.58	226.01	226.01	226.14	0.005	1.89	35.9	142.08	1.19
East 2	369.7	Hazel w CC	61.1	225.58	226.05	226.05	226.19	0.005044	2.06	43.04	164.91	1.22
East 2	334.5	100 Year	68.38	224.15	225.05	225.05	225.28	0.00638	2.14	33.83	74.05	0.81
East 2	334.5	Hazel	52.77	224.15	224.9	224.9	225.15	0.009808	2.23	24.12	47.31	0.95
East 2	334.5	Hazel w CC	64.94	224.15	225.03	225.03	225.25	0.006751	2.15	31.9	73.67	0.83
East 2	285.5	100 Year	68.38	223.48	223.69	223.69	223.85	0.003833	0.46	39.67	128.36	0.4
East 2	285.5	Hazel	52.77	223.48	223.64	223.64	223.78	0.003101	0.33	32.82	121.11	0.34
East 2	285.5	Hazel w CC	64.94	223.48	223.68	223.68	223.84	0.003753	0.44	37.9	127.9	0.39
East 2	236	100 Year	68.64	221.03	221.15	221.12	221.26	0.008932	0.86	48.73	190.21	1.13
East 2	236	Hazel	53.03	221.03	221.11	221.06	221.2	0.007854	0.68	42.19	170.78	1.09
East 2	236	Hazel w CC	65.27	221.03	221.14	221.11	221.25	0.009167	0.85	46.45	183.76	1.16
East 2	98.3	100 Year	68.64	219.9	220.64		220.67	0.002365	0.93	99.91	325.51	0.41
East 2	98.3	Hazel	53.03	219.9	220.58		220.61	0.002617	0.9	81.69	294.17	0.42
East 2	98.3	Hazel w CC	65.27	219.9	220.64		220.66	0.002247	0.9	98.32	323.83	0.4
East 2	17.1	100 Year	68.64	219.69	220.06	220.06	220.28	0.013069	3.08	45.82	180.59	1.94
East 2	17.1	Hazel	53.03	219.69	219.98	219.98	220.16	0.01813	2.85	34.46	118.71	2.15
East 2	17.1	Hazel w CC	65.27	219.69	220.02	220.02	220.25	0.017108	3.17	40.02	136.49	2.16
East 2	2	100 Year	68.64	218.33	219.13	218.47	219.13	0.000179	0.21	328.55	410.8	0.07
East 2	2	Hazel	53.03	218.33	219.13	218.45	219.13	0.000107	0.16	328.55	410.8	0.06
East 2	2	Hazel w CC	65.27	218.33	219.13	218.46	219.13	0.000162	0.2	328.55	410.8	0.07
East 1	675.3	100 Year	13.03	258.07	258.57	258.57	258.7	0.037808	1.32	8.39	33.46	0.87
East 1	675.3	Hazel	7.93	258.07	258.47	258.47	258.58	0.040035	1.25	5.37	25.15	0.87
East 1	675.3	Hazel w CC	9.5	258.07	258.51	258.51	258.63	0.038	1.29	6.39	28.71	0.86
East 1	582.7	100 Year	13.03	256.36	256.79	256.72	256.8	0.009196	0.86	24.75	166.09	0.5

East 1	582.7	Hazel	7.93	256.36	256.74	256.69	256.76	0.00932	0.79	17.69	152.12	0.49
East 1	582.7	Hazel w CC	9.5	256.36	256.76	256.7	256.77	0.009073	0.81	20.12	156.33	0.49
East 1	547.4	100 Year	13.03	255.29	256.47	256.37	256.52	0.007272	1.38	13.8	67.14	0.56
East 1	547.4	Hazel	7.93	255.29	256.3	256.25	256.38	0.012286	1.49	6.63	25.19	0.7
East 1	547.4	Hazel w CC	9.5	255.29	256.35	256.31	256.43	0.010407	1.44	8.06	32.7	0.65
East 1	499.9	100 Year	13.03	254.17	255.73	255.73	256.1	0.010691	2.77	5.57	9.55	0.85
East 1	499.9	Hazel	7.93	254.17	255.4	255.4	255.74	0.014378	2.61	3.13	4.99	0.96
East 1	499.9	Hazel w CC	9.5	254.17	255.52	255.52	255.87	0.012785	2.66	3.82	6.65	0.91
East 1	402	100 Year	13.03	252.28	253.92	252.9	253.92	0.000035	0.18	71.12	63	0.05
East 1	402	Hazel	7.93	252.28	253.71	252.85	253.72	0.000025	0.14	58.41	61.95	0.04
East 1	402	Hazel w CC	9.5	252.28	253.81	252.86	253.81	0.000025	0.15	64.58	62.46	0.05
East 1	374	100 Year	13.03	252.17	253.91	253.51	253.92	0.000042	0.29	45.85	85.76	0.12
East 1	374	Hazel	7.93	252.17	253.71	253.1	253.71	0.000074	0.28	28.51	84.22	0.15
East 1	374	Hazel w CC	9.5	252.17	253.81	253.48	253.81	0.000045	0.26	36.97	84.94	0.12
East 1	300		Culvert									
East 1	108.1	100 Year	18.12	251.71	251.74	251.68	251.82	0.025477	0.27	14.45	53.39	0.86
East 1	108.1	Hazel	11.15	251.71	251.61	251.61	251.7	0.052597		8.17	43.51	0
East 1	108.1	Hazel w CC	13.36	251.71	251.63	251.63	251.74	0.050693		9.38	45.53	0
East 1	81.8	100 Year	23.92	249.59	251.43	251.29	251.54	0.006404	1.77	18.61	40.2	0.5
East 1	81.8	Hazel	15.19	249.59	251.3	250.82	251.38	0.004396	1.44	13.4	39.5	0.42
East 1	81.8	Hazel w CC	18.21	249.59	251.35	250.92	251.44	0.005156	1.57	15.44	40.06	0.45
East 1	27.8	100 Year	23.92	249.4	251.39	251.1	251.4	0.001185	0.68	56.56	107.22	0.19
East 1	27.8	Hazel	15.19	249.4	251.24	251.03	251.25	0.001283	0.66	40.98	106.99	0.19
East 1	27.8	Hazel w CC	18.21	249.4	251.3	251.06	251.31	0.001184	0.65	47.43	107.06	0.19
East 1	0	100 Year	23.92	249.32	251.17	251.17	251.33	0.005569	2.33	23.03	58.12	0.59
East 1	0	Hazel	15.19	249.32	250.93	250.93	251.17	0.007869	2.47	10.4	27.69	0.68
East 1	0	Hazel w CC	18.21	249.32	251.11	251.11	251.25	0.004804	2.1	19.14	57.87	0.54
West	729	100 Year	3.7	227.14	227.73	227.73	227.94	0.043378	2.03	1.82	4.39	1.01
West	729	Hazel	2.26	227.14	227.59	227.59	227.76	0.046364	1.8	1.25	3.83	1.01
West	729	Hazel w CC	2.72	227.14	227.64	227.64	227.82	0.045305	1.89	1.44	4.01	1.01
West	698	100 Year	3.7	225.75	226.48	226.48	226.66	0.01826	1.91	1.94	5.33	1.01
West	698	Hazel	2.26	225.75	226.34	226.34	226.5	0.018972	1.75	1.29	4.13	1
West	698	Hazel w CC	2.72	225.75	226.39	226.39	226.56	0.018671	1.8	1.51	4.57	1
West	656	100 Year	3.7	224.78	225.51	225.51	225.7	0.017679	1.95	2.04	5.87	0.95
West	656	Hazel	2.26	224.78	225.39	225.39	225.53	0.019714	1.68	1.39	5.33	0.95
West	656	Hazel w CC	2.72	224.78	225.43	225.43	225.59	0.018582	1.77	1.61	5.57	0.94
West	618	100 Year	1.1	223.87	224.4	224.36	224.47	0.012602	1.16	0.95	4.23	0.78
West	618	Hazel	1	223.87	224.39	224.34	224.45	0.0129	1.13	0.88	4.11	0.78
West	618	Hazel w CC	1.22	223.87	224.43	224.38	224.5	0.01176	1.16	1.05	4.38	0.76
West	580	100 Year	1.1	223.22	223.7	223.7	223.82	0.022749	1.59	0.69	2.7	1
West	580	Hazel	1	223.22	223.67	223.67	223.8	0.021714	1.56	0.64	2.56	1
West	580	Hazel w CC	1.22	223.22	223.72	223.72	223.85	0.0238	1.62	0.76	2.86	1
West	Park St		Culvert									
West	531	100 Year	1.1	222.63	223.7		223.71	0.000202	0.38	2.87	19.29	0.13
West	531	Hazel	1	222.63	223.69		223.69	0.000175	0.35	2.82	19.16	0.12
West	531	Hazel w CC	1.22	222.63	223.7		223.71	0.000244	0.42	2.88	19.33	0.14
West	505	100 Year	1.1	222.3	223.7		223.7	0.00004	0.16	8.01	12.65	0.05
West	505	Hazel	1	222.3	223.69		223.69	0.000035	0.15	7.82	12.56	0.05
West	505	Hazel w CC	1.22	222.3	223.71		223.71	0.000048	0.18	8.07	12.68	0.06
West	477	100 Year	1.1	223.46	223.69		223.7	0.001587	0.36	3.17	25.45	0.27
West	477	Hazel	1	223.46	223.68		223.69	0.001915	0.37	2.8	23.99	0.3

West	477	Hazel w CC	1.22	223.46	223.7		223.7	0.001812	0.39	3.25	25.82	0.29
West	436	100 Year	1.44	223.24	223.6		223.62	0.002823	0.51	2.84	17.21	0.37
West	436	Hazel	1.18	223.24	223.55	223.47	223.57	0.004782	0.58	2.05	12.99	0.46
West	436	Hazel w CC	1.43	223.24	223.58	223.48	223.6	0.003912	0.57	2.5	15.22	0.43
West	396	100 Year	6.17	222.91	223.17	223.17	223.24	0.013834	1.29	5.39	41.98	0.98
West	396	Hazel	3.87	222.91	223.14	223.14	223.19	0.012181	1.07	4.16	40.3	0.89
West	396	Hazel w CC	4.67	222.91	223.15	223.15	223.21	0.014027	1.19	4.5	40.82	0.96
West	352	100 Year	6.17	222.43	222.79	222.79	222.89	0.004712	1.45	5.27	35.16	0.91
West	352	Hazel	3.87	222.43	222.73	222.73	222.81	0.005338	1.28	3.49	24.57	0.93
West	352	Hazel w CC	4.67	222.43	222.75	222.75	222.84	0.005206	1.36	4.06	25.83	0.93
West	324	100 Year	6.17	222.2	222.48	222.48	222.56	0.007422	1.33	5.26	33.16	0.89
West	324	Hazel	3.87	222.2	222.42	222.42	222.49	0.008803	1.18	3.59	28.36	0.91
West	324	Hazel w CC	4.67	222.2	222.45	222.45	222.52	0.008031	1.23	4.21	30.23	0.9
West	307	100 Year	7.33	221.94	222.17	222.17	222.25	0.006305	0.76	6.8	38.97	0.6
West	307	Hazel	4.38	221.94	222.11	222.11	222.18	0.006802	0.61	4.66	37	0.58
West	307	Hazel w CC	5.28	221.94	222.14	222.14	222.2	0.006043	0.65	5.52	37.81	0.56
West	275	100 Year	7.33	220.11	221.51		221.55	0.000321	1.09	14.27	44.47	0.33
West	275	Hazel	4.38	220.11	221.45		221.47	0.000174	0.78	11.68	37.67	0.24
West	275	Hazel w CC	5.28	220.11	221.47		221.49	0.00022	0.88	12.49	40.91	0.27
West	249	100 Year	7.33	220.97	221.53	221.15	221.54	0.000063	0.31	24.41	49.61	0.14
West	249	Hazel	4.38	220.97	221.46	221.1	221.46	0.000037	0.21	20.85	49.19	0.1
West	249	Hazel w CC	5.28	220.97	221.48	221.11	221.49	0.000045	0.25	22.03	49.3	0.12
West	222	100 Year	7.33	221.17	221.45	221.45	221.53	0.008215	1.51	6.92	42.58	1.03
West	222	Hazel	4.38	221.17	221.39	221.39	221.46	0.008269	1.28	4.79	38.78	1
West	222	Hazel w CC	5.28	221.17	221.41	221.41	221.48	0.007925	1.34	5.55	39.82	0.99
West	191	100 Year	11.27	220.58	221.04	221.04	221.16	0.00799	1.67	8.04	35.26	0.86
West	191	Hazel	6.23	220.58	220.92	220.92	221.03	0.010167	1.49	4.51	25.5	0.92
West	191	Hazel w CC	7.5	220.58	220.97	220.97	221.07	0.008213	1.48	5.74	30.5	0.84
West	154	100 Year	11.27	219.79	220.34	220.2	220.39	0.005008	1.09	11.61	31.16	0.5
West	154	Hazel	6.23	219.79	220.25	220.11	220.28	0.003266	0.77	9.02	29.79	0.39
West	154	Hazel w CC	7.5	219.79	220.27	220.14	220.31	0.003941	0.88	9.58	30.07	0.43
West	123	100 Year	12.17	219.78	220.11	220.11	220.18	0.009323	1.19	10.21	62	0.71
West	123	Hazel	6.62	219.78	220.04	220.04	220.1	0.011716	1.12	6.23	52.75	0.76
West	123	Hazel w CC	7.96	219.78	220.06	220.06	220.12	0.009765	1.1	7.53	56.44	0.71
West	88	100 Year	12.17	219.65	220.03		220.05	0.001333	0.54	22.5	130.26	0.3
West	88	Hazel	6.62	219.65	219.98	219.88	219.99	0.001075	0.42	15.81	108.97	0.26
West	88	Hazel w CC	7.96	219.65	219.99		220	0.00127	0.47	16.92	110.85	0.29
West	32	100 Year	12.17	219.51	219.8	219.8	219.87	0.014041	1.57	13.39	95.13	1.08
West	32	Hazel	6.62	219.51	219.71	219.71	219.8	0.035558	1.67	6.17	61.8	1.5
West	32	Hazel w CC	7.96	219.51	219.76	219.76	219.82	0.016079	1.43	9.69	85.7	1.09
West	0	100 Year	12.17	217.3	219.13	217.37	219.13	0.000001	0.03	401.37	219.36	0.01
West	0	Hazel	6.62	217.3	219.13	217.34	219.13	0	0.02	401.37	219.36	0
West	0	Hazel w CC	7.96	217.3	219.13	217.35	219.13	0	0.02	401.37	219.36	0

Appendix D

Floodplain Mapping

