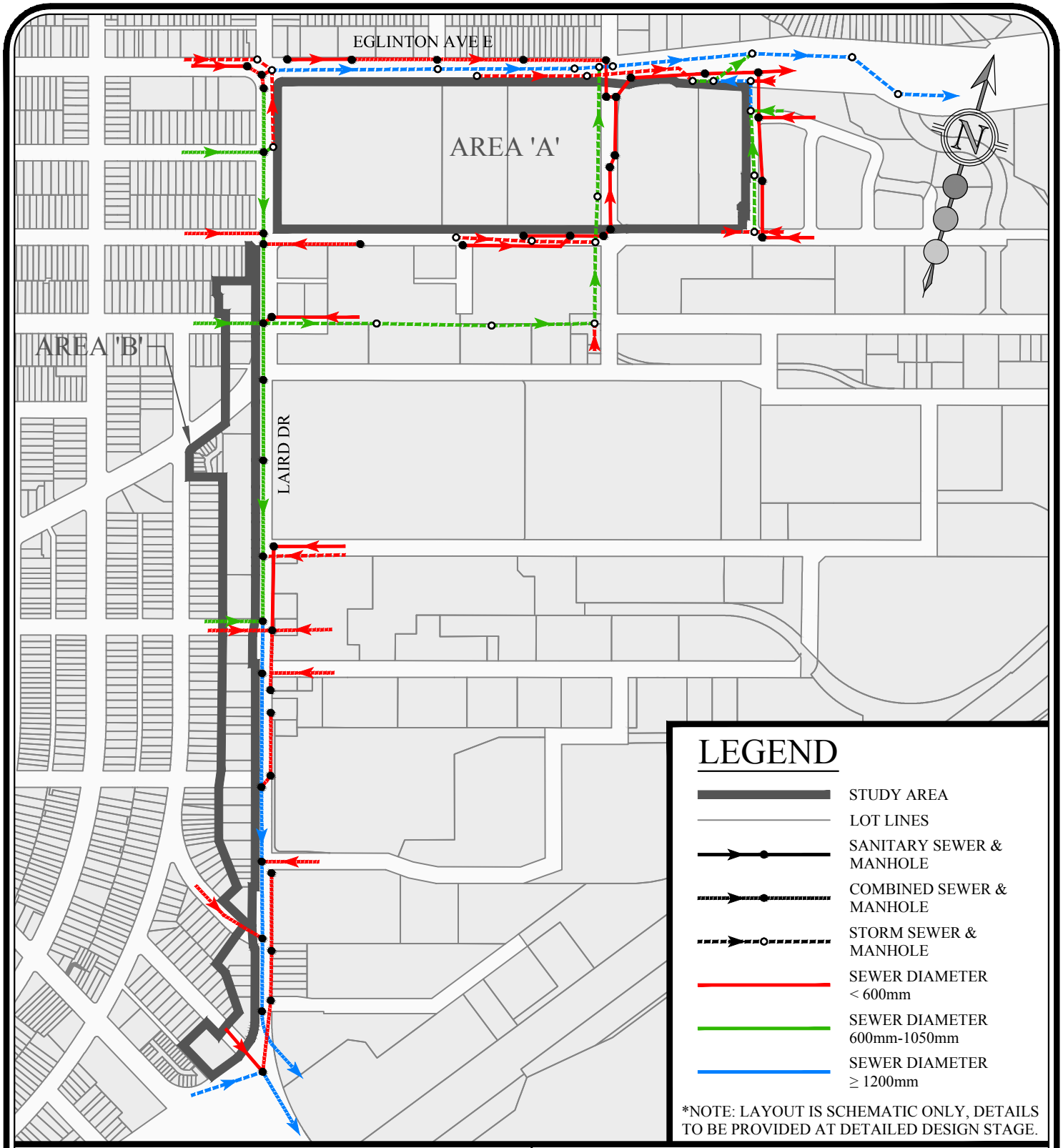


LAIRD FOCUS AREA STUDY

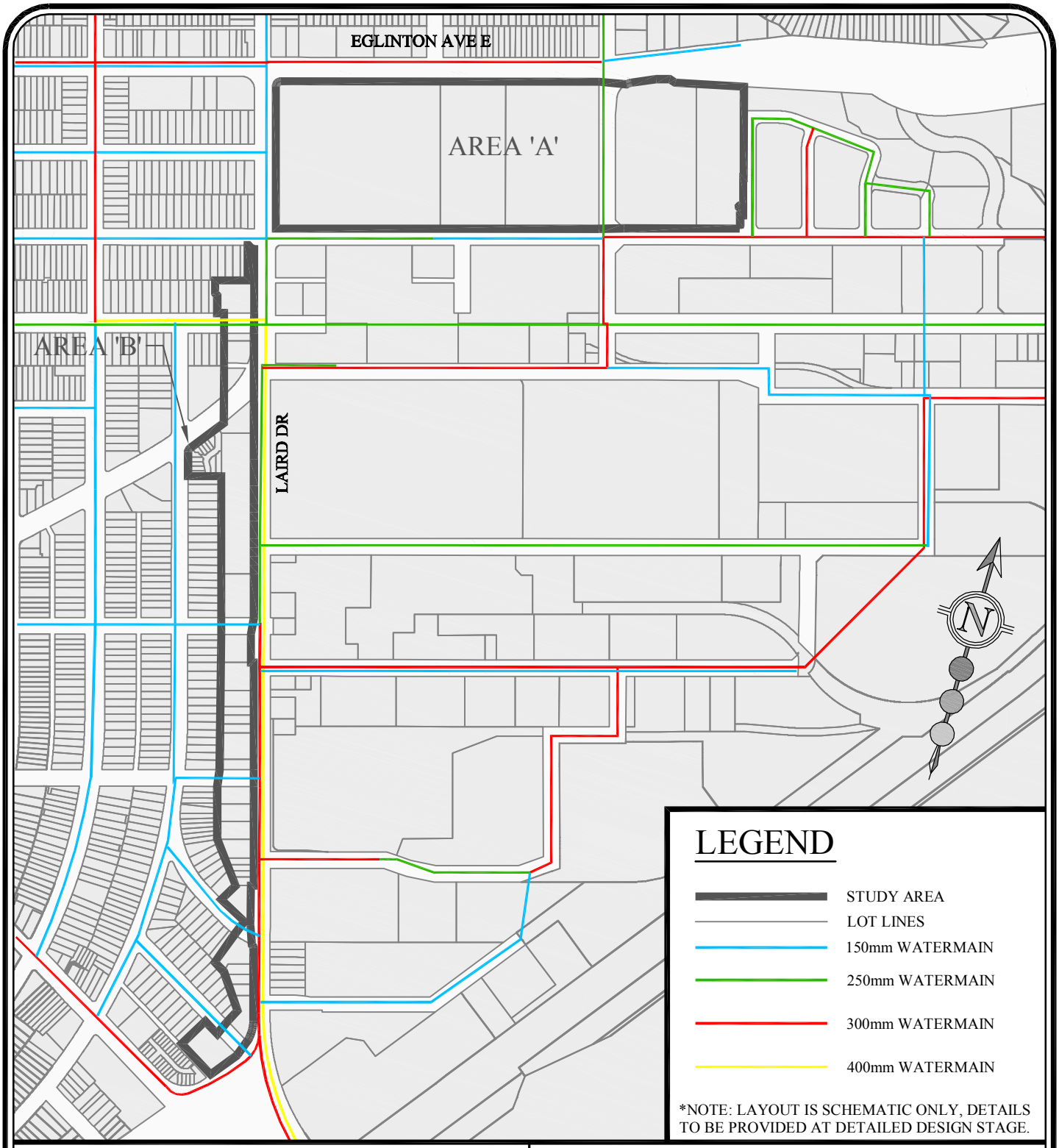
EXISTING SEWERS

TORONTO
100 QUEEN STREET WEST
TORONTO, ONTARIO M5H 2N2
TEL: (416) 392-2489
FAX: (416) 338-0685

SCS consulting group ltd
30 CENTURIAN DRIVE, SUITE 100
MARKHAM, ONTARIO L3R 8B8
TEL: (905) 475-1900
FAX: (905) 475-8335

DRAWN BY:	M.L.M.	CHECKED BY:	L.P.M.
SCALE:	N.T.S.	DATE:	JANUARY 2018
PROJECT No:	1896	FIGURE No:	6.2

File: P:\1896 – Laird Focus Area Study\Drawings\FSP\Fig\Report Figures\1896P-FIGS-6.2.dwg – Revised by <MMCCLYMONT> : Tue, Jan 16 2018 – 2:15pm



LEGEND

- STUDY AREA
- LOT LINES
- 150mm WATERMAIN
- 250mm WATERMAIN
- 300mm WATERMAIN
- 400mm WATERMAIN

*NOTE: LAYOUT IS SCHEMATIC ONLY, DETAILS TO BE PROVIDED AT DETAILED DESIGN STAGE.

LAIRD FOCUS AREA STUDY

EXISTING WATERMAIN

TORONTO
100 QUEEN STREET WEST
TORONTO, ONTARIO M5H 2N2
TEL: (416) 392-2489
FAX: (416) 338-0685

SCS consulting group ltd
30 CENTURIAN DRIVE, SUITE 100
MARKHAM, ONTARIO L3R 8B8
TEL: (905) 475-1900
FAX: (905) 475-8335

DRAWN BY:	J.R.L	CHECKED BY:	L.P.M.
SCALE:	N.T.S	DATE:	JANUARY 2018
PROJECT No:	1896	FIGURE No:	6.3

File: P:\1896 – Laird Focus Area Study\Drawings\FSP\Fig\1896P-FIGS-6.3.dwg – Revised by <JLIGHT> : Fri, May 04 2018 – 1:39pm

LAIRD FOCUS AREA STUDY

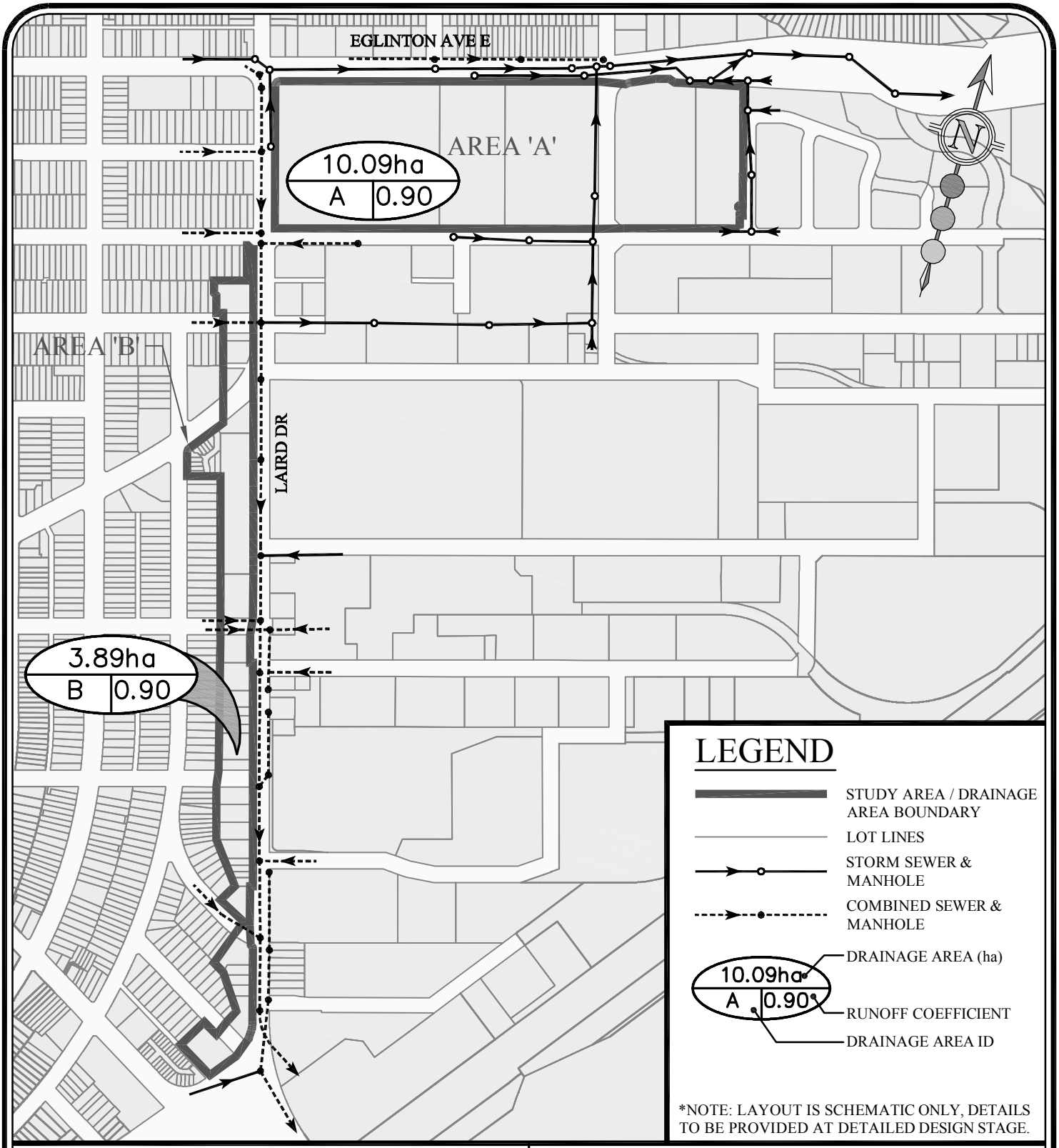
EXISTING STORM DRAINAGE PLAN

TORONTO
100 QUEEN STREET WEST
TORONTO, ONTARIO M5H 2N2
TEL: (416) 392-2489
FAX: (416) 338-0685

SCS consulting group ltd
30 CENTURIAN DRIVE, SUITE 100
MARKHAM, ONTARIO L3R 8B8
TEL: (905) 475-1900
FAX: (905) 475-8335

DRAWN BY: M.L.M.	CHECKED BY: L.P.M.
SCALE: N.T.S.	DATE: APRIL 2018
PROJECT No: 1896	FIGURE No: 6.4

File: P:\1896 – Laird Focus Area Study\Drawings\FSP\Fig\Report Figures\1896P–FIGS–6.4.dwg – Revised by <JLIGHT> : Fri, May 04 2018 – 1:52pm



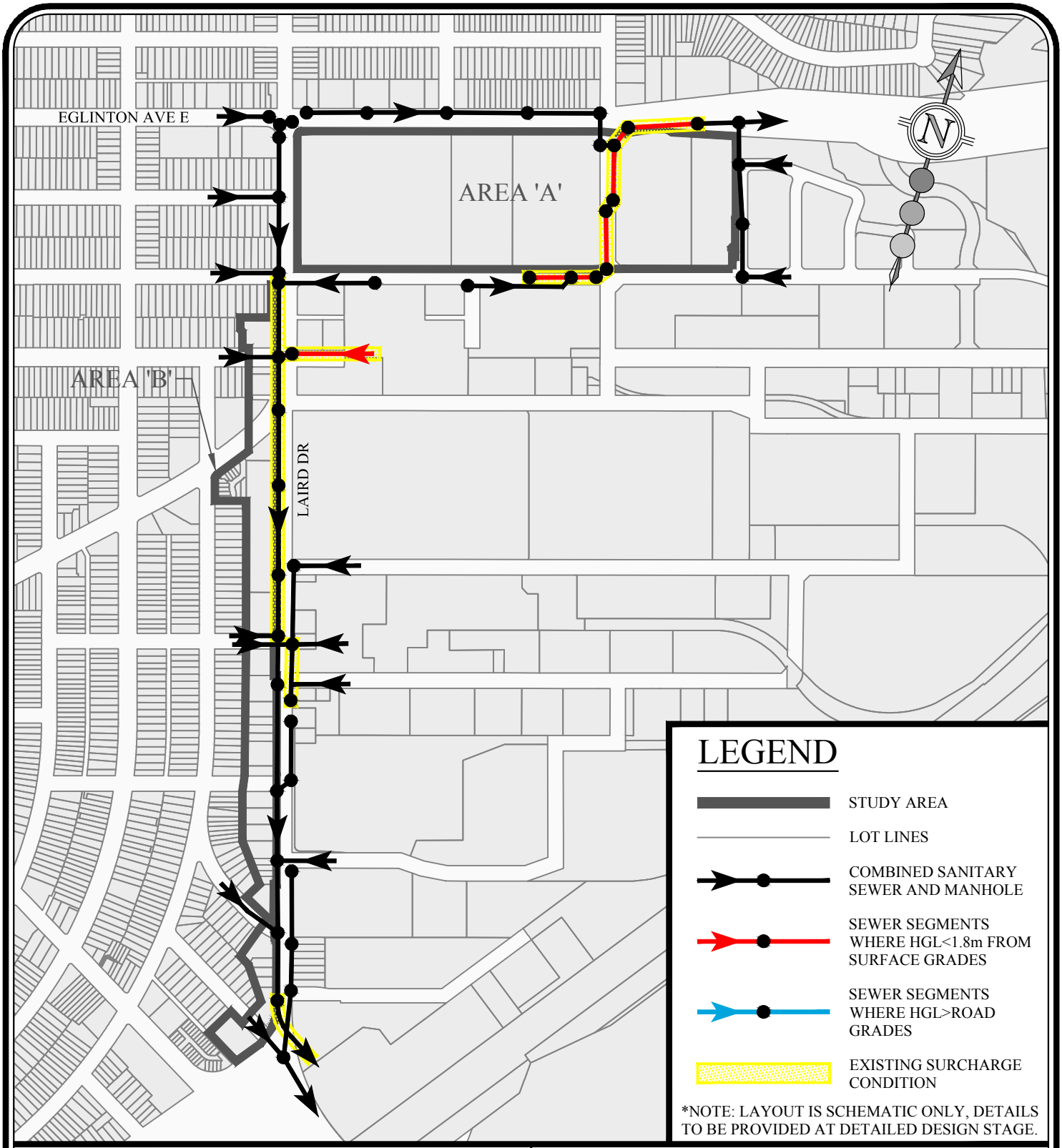
LAIRD FOCUS AREA STUDY

PROPOSED STORM DRAINAGE PLAN

TORONTO
100 QUEEN STREET WEST
TORONTO, ONTARIO M5H 2N2
TEL: (416) 392-2489
FAX: (416) 338-0685

SCS consulting group ltd
30 CENTURIAN DRIVE, SUITE 100
MARKHAM, ONTARIO L3R 8B8
TEL: (905) 475-1900
FAX: (905) 475-8335

DRAWN BY: M.L.M.	CHECKED BY: L.P.M.
SCALE: N.T.S.	DATE: APRIL 2018
PROJECT No: 1896	FIGURE No: 6.5



LAIRD FOCUS AREA STUDY

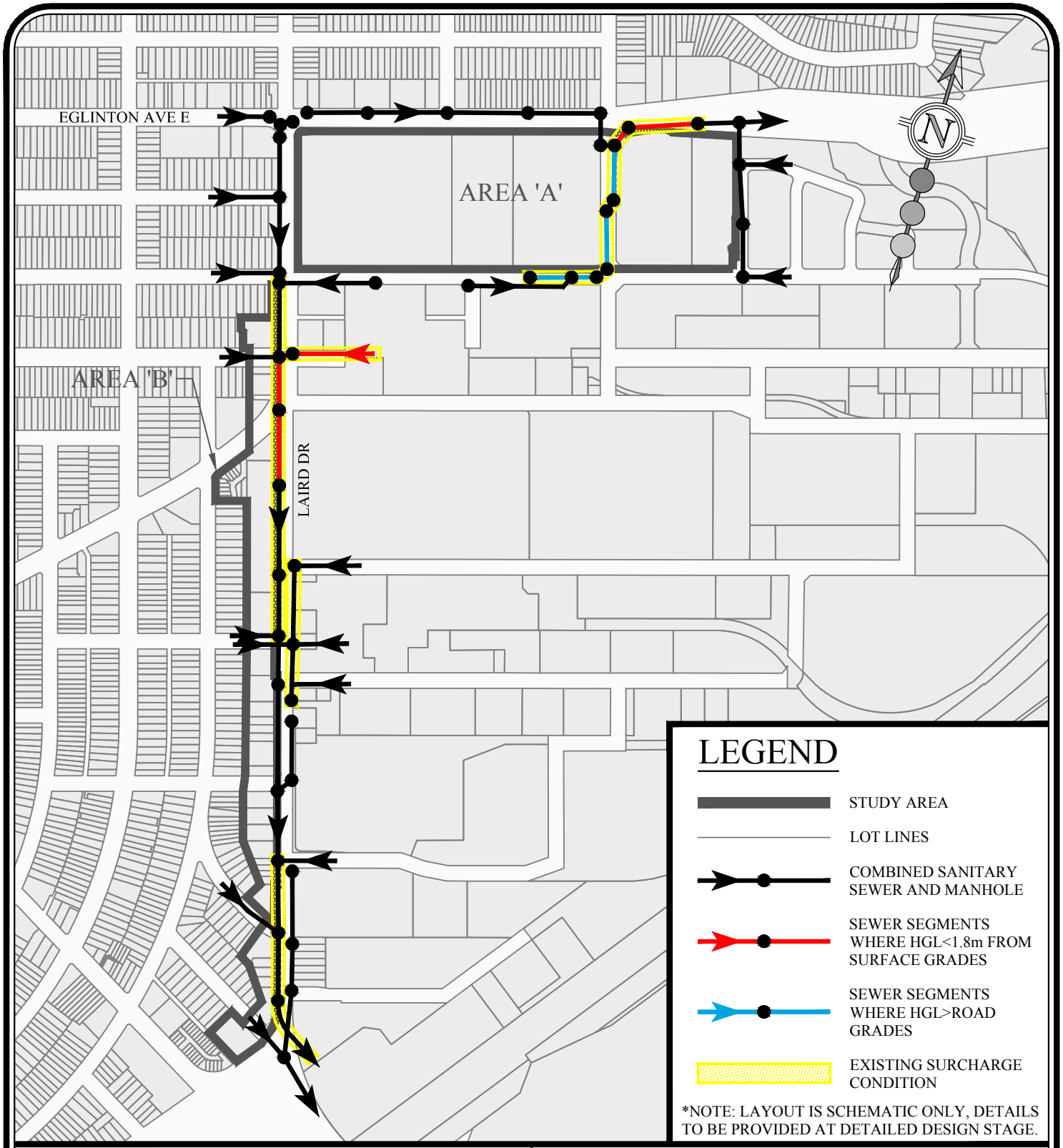
2-YEAR WET WEATHER FLOW

TORONTO
100 QUEEN STREET WEST
TORONTO, ONTARIO M5H 2N2
TEL: (416) 392-2489
FAX: (416) 338-0685

SCS consulting group ltd
30 CENTURIAN DRIVE, SUITE 100
MARKHAM, ONTARIO L3R 8B8
TEL: (905) 475-1900
FAX: (905) 475-8335

DRAWN BY:	M.L.M.	CHECKED BY:	L.P.M.
SCALE:	N.T.S.	DATE:	JANUARY 2018
PROJECT No:	1896	FIGURE No:	6.6

File: P:\1896 – Laird Focus Area Study\Drawings\FSP\Fig\Report Figures\1896P-FIGS-6.dwg – Revised by <MMCCLYMONT> : Mon, Jan 15 2018 – 5:02pm



LAIRD FOCUS AREA STUDY

100-YEAR WET WEATHER FLOW

TORONTO
100 QUEEN STREET WEST
TORONTO, ONTARIO M5H 2N2
TEL: (416) 392-2489
FAX: (416) 338-0685

SCS consulting group ltd
30 CENTURIAN DRIVE, SUITE 100
MARKHAM, ONTARIO L3R 8B8
TEL: (905) 475-1900
FAX: (905) 475-8335

DRAWN BY:	M.L.M.	CHECKED BY:	L.P.M.
SCALE:	N.T.S.	DATE:	JANUARY 2018
PROJECT No:	1896	FIGURE No:	6.7

File: P:\1896 – Laird Focus Area Study\Drawings\FSP\Fig\Report Figures\1896P-FIGS-7.dwg – Revised by <MMCCLYMONT> : Mon, Jan 15 2018 – 5:25pm

APPENDIX C-2

SERVICING MEMOS AND MODELS

SCS consulting group ltd

THE MUNICIPAL INFRASTRUCTURE GROUP LTD.
8800 Dufferin Street, Suite 200 T 905.738.5700
Vaughan, Ontario L4K 0C5 F 905.738.0065
www.tmig.ca

TECHNICAL MEMORANDUM TM1

DATE	April 27, 2018
TO	**Pascal Monat, SCS Consulting**
SUBJECT	Eglinton and Laird Planning Study **Review of Wastewater Servicing Impacts**
FROM	Kevin Brown, P.Eng
PROJECT NUMBER	17103

1 Background

The Municipal Infrastructure Group Ltd. (TMIG) has been retained by SCS Consulting Limited (SCS) to conduct a servicing analysis to understand the existing water system in the study area and the capacity for the potential re-development of the Eglington/Laird Development Area.

The recommended preferred Development Densities were developed by The Planning Partnership, and have been used in the assessment of servicing requirements and opportunities.

The Eglinton-Laird Focus Area consists of two distinct development areas, as follows:

- Three major blocks that front onto Eglinton Avenue. These will generally consist of high-density mixed use developments in the range of 11-55 storeys high
- Seven smaller blocks along the west side of Laird Ave. These will genereally consist of medium-density units, up to approximately 6 storeys in height.

The development density Statistics are provided in **Appendix A**.

2 Existing Sanitary Servicing

2.1 Model Review

The City provided a copy of their InfoWorks model for “Basement Flooding Study Area 2”, which fully contains the Study Area.

The properties being reviewed as part of this planning study are tributary to one of two main sewer reaches:

1. Properties along Eglinton are generally connected to the Eglinton sanitary sewer, which flows east towards the Don Valley Trunk Sewer, outletting in the vicinity of Don Mills Road and Overlea Boulevard.
2. Properties along Laird Drive are connected to the Laird Drive combined sewer, which flows south along Laird Drive and Millwood Road to the Don Valley Trunk Sewer, outletting in the vicinity of Broadview Avenue and O’Connor Drive.

The model contained the following scenarios:

a) Area 2 - Baseline 100 Year (EC + Super Pipe MetroLinx)
b) Area 2 - Baseline 2-year storm (EC + Super Pipe MetroLinx)
c) Area 2 - Baseline DWF (EC + Super Pipe MetroLinx)
d) Area 2 - Baseline May 12,2000 (EC + Super Pipe MetroLinx)

The provided model considers the following rainfall scenarios:

- 2-Year
- 100-Year
- May 12, 2000 (Extreme)

The model contains various subcatchments. The sanitary subcatchments contain population, base flow and trade flow. The foul flow is calculated using the population within a subcatchment and the Wastewater Profile assigned to the subcatchment. The Wastewater Profile identifies the generation rate as well as the diurnal pattern for that subcatchment. The trade flow is entered in m^3/s and is not peaked with the diurnal pattern.

The storm subcatchments have a variety of parameters related to runoff and each storm subcatchment loosely represents different runoff areas (roof, eavestroughs, disconnected roofs, etc).

The City provided the *Basement Flooding Study – Area 2* Project File Report (Nov 2014), as well as the Technical Memorandum's. These reports helped to understand the intricacities of the model and how it was first developed. From these reports, this is what was understood:

- The initial City calibration was accomplished by fixing the runoff surface parameters and adjusting the contributing areas. City documentation on how and where areas were adjusted was not available or discussed in the reports.
- Storm Subcatchments are set up as follows:
    - Subcatchment 1: Overland flow generated from pervious and impervious surfaces (grass, driveways, road, parking, etc.)
    - Subcatchment 2: Roof connected and disconnected areas.
        - This seems to be represented by two subcatchments in the model.
    - Subcatchment 3: Runoff from overflowing building roofs during large storm events to pervious or impervious systems.
- Six rainfall profiles:
    - Rainfall 1: Total rainfall profile and used for Subcatchment 1.
    - Rainfall 2: Lower portion of the total rainfall that reflects the connected roof area downspout capacity (rainfall that is intercepted by downspouts/eavetroughs)
    - Rainfall 3: The difference between Rainfall 1 and Rainfall 2 (the roof overflow)
    - Rainfall 4: ICI Roof rainfall on the commercial area east of Laird Drive and south of Eglinton Avenue.
    - Rainfall 5: ICI roof spill (not used)
    - Rainfall 6: Rainfall for external areas contributing to the sanitary trunk system and is equal to profile 1 for assessment events
- Each Subcatchment has a Land Use ID:

Land Use ID	Runoff Area 1	Runoff Area 2	Runoff Area 3	Description	Note
1	10	20	30	SS	Sanitary Parameters
2	11		31	TT	Storm Surface Parameters
3			22	TB	Storm Roof Parameters
4		21		TC	Storm Roof Parameters
5	23		24	TV	Storm Roof Spillage Parameters

The Land Use ID translaters into a Runoff Area ID listed based on what Runoff Area is used (i.e. if the Land Use ID is 1, the area listed under "Runoff Area 1" would correlate to Runoff Surface ID 10).

- Also included in the Subcatchment Grid, the Runoff Surface ID translates into runoff parameters for that ID.

Runoff Surface ID	Description	Runoff Routing Value	Runof Volume Type	Surface Type	Initial Loss Type	Initial Loss Value (m)	Initial Abs. Factor	Routing Model	Fixed Runoff Coeff.
10	Sanitary Impervious	0.012	Fixed	Impervious	Slope	0.000071	0	SWM	1
11	Storm Impervious	0.013	Fixed	Impervious	Abs	0.00188	0	SWMM	1
20	Sanitary Roof	0.012	Fixed	Impervious	Abs	0	0	SWMM	1
21	Storm Connected Roof	0.013	Fixed	Impervious	Abs	0	0	SWMM	1
22	Storm Disconnected Roof	0.073	Horton	Pervious	Abs	0.002	0	SWMM	1
23	Storm Impervious Roof OVF	0.013	Fixed	Impervious	Abs	0	0	SWMM	1
24	Storm Pervious Roof OVF	0.200	Fixed	Pervious	Abs	0	0	SWMM	1
30	Sanitary Pervious	0.200	Horton	Pervious	Abs	0.002	0	SWMM	1
31	Storm Pervious	0.410	Horton	Pervious	Abs	0.005	0	SWMM	1

2.2 Model Results – Existing Conditions

The Hydraulic Grade Line (HGL) profiles from the existing conditions model runs are provided for both main reaches (Eglinton Ave and Laird Drive) and for all four of the modelling scenarios provided. The branch along Eglinton is part of the foul system and the branch along Laird Dr is part of the combined system.

a) Area 2 - Baseline 100 Year (EC + Super Pipe MetroLinx)

Under this scenario, the Eglinton HGL shows surcharging to ground on Eglinton Avenue, and a backwater condition within the valley. This may be affected by the changing pipe sizes within the valley.

Under this scenario, the Laird HGL shows slight surcharging along the entire branch. The surcharging does not reach the 1.8 m limit.

b) Area 2 - Baseline 2-year storm (EC + Super Pipe MetroLinx)

Under this scenario, the Eglinton HGL shows significantly less surcharging than under the 100 Year storm along Eglinton. The backwater condition is still occurring along the end of this branch.

Under this scenario, the Laird HGL shows some surcharging along the northern part of the branch and some surcharging near the outfall. The surcharging appears to be below the 1.8m limit.

c) Area 2 - Baseline DWF (EC + Super Pipe MetroLinx)

Under this scenario, the Eglinton HGL is not visible either, suggesting that the HGL is largely produced from the inflow and infiltration along this branch.

Under this scenario, the Laird HGL is very low and not truly visible on the HGL, suggesting that the HGL is largely influenced from the storm flows within the combined system.

d) Area 2 - Baseline May 12,2000 (EC + Super Pipe MetroLinx)

Under this scenario, the Eglinton HGL shows surcharging below the surface along Eglington and backwater condition within the valley.

Under this scenario, the Laird HGL shows surcharging along Laird, with the largest amount of surcharging occurring near Eglinton Ave. The surcharging remains below the 1.8m limit.

2.3 Modifications to Reflect Post-Development Conditions (Area A)

There are three existing “Foul” subcatchments in the vicinity of the Eglinton development. These subcatchments have the ID’s of SAC06, SAC09 and SP2S25. All three have no population and some baseflow or “Additional Foul Flow”. There is no visible relationship with the baseflow or “additional foul flow” and the area of the subcatchment. SAC06 and SAC09 had runoff areas (Areas 1, 2 and 3 on both subcatchments) with a Land Use ID of 1.

Subcatchment ID SP2S25 drained to the combined system on Laird Dr. Subcatchment ID SAC06 and SAC09 drain to the foul system on Eglinton Ave.

The existing subcatchments were removed entirely in advance of the Proposed “Area A” (Eglinton) development addition.

The Eglinton Development consists of 16 different buildings over four addresses along Eglinton Avenue. To accommodate these new buildings in the model, new foul subcatchments were created:

Subcatchment ID	Address	Building Numbers Included
A1-1	815-845 Eglinton Ave	1-3
A1-2	815-845 Eglinton Ave	4
A1-3	815-845 Eglinton Ave	5
A2-1	849 Eglinton Ave	1-2
A2-2	849 Eglinton Ave	3
A3-1	939 Eglinton Ave	1-4
A4-1	943-957 Eglinton Ave	1-2
A4-2	943-957 Eglinton Ave	3
A4-3	943-957 Eglinton Ave	4

The sanitary flow calulations used the following design criteria:

	Generation Rate	Peaking Factor
Residential	240 Lpcd	Harmon
Commercial, Office, Retail, Community Centre	180,000 L/ha/day	None

The development statistics and estimated sanitary flow is shown in Appendix B and summarized in Table 1.

TABLE 1 – EGLINTON DEVELOPMENT STATISTICS AND SANITARY FLOW

Address	Building No.	Population	Res. Flow (L/s)	Peak Res. Flow (L/s)	Office Area (m^2)	Office Flow (L/s)
815-845 Eglinton Ave	1	391	1.09	4.37	3,170	0.66
	2	1,093	3.04	11.46	3,020	0.63
	3	0	0	0	10,890	2.27
	4	1,163	3.23	12.14	850	0.18
	5	0	0	0	2,080	0.43
849 Eglinton Ave	1	520	1.44	5.73	1,410	0.29
	2	463	1.29	5.13	690	0.14
	3	0	0	0	1,350	0.28
939 Eglinton Ave	1	638	1.77	6.94	1,285	0.27
	2	327	0.91	3.69	555	0.12
	3	671	1.86	7.27	0	0
	4	0	0	0	4,300	0.9
943-957 Eglinton Ave	1	635	1.76	6.91	2,230	0.46
	2	194	0.54	2.24	0	0
	3	544	1.51	5.98	0	0
	4	596	1.66	6.51	0	0

Overall, approximately 85 L/s will be added to the sanitary or combined systems for the Eglinton Ave development.

2.4 Model Results – Post-Development Conditions

The simulations were reviewed on two branches – Run 1 is the combined sewer along Laird and Run 2 is the foul sewer along Eglinton.

The HGL for both branches under the 2-year and 100-year, show similar results under existing conditions and post-development.

Run 1 (Laird Dr): The results of the combined system modelling along Laird Dr indicates no adverse impacts to redeveloping the site. The 2-year storm HGL looks very similar under existing conditons and post-development conditions. This suggests that the development flow was similar to the existing flow removed. In terms of risk of basement flooding, the freeboard is lower than 1.8m on the first two pipes, under existing and future conditions.

The 100-year storm HGL also looks similar under existing conditions and post-development conditions. This suggests that the development flow was similar to the existing flow removed. In terms of risk of basement flooding, the freeboard is lower than 1.8m on the first two pipes, under existing and future conditions.

Run 2 (Eglinton Ave): The 2-year storm HGL looks very similar under existing conditions and post-development conditions. The flow at the end is slightly lower in post-development conditions than existing conditions, suggesting that the development flow added was less than existing conditions.

The 100-year storm HGL very similar under existing conditions and post-development conditions. The flow at the end is approximately the same as existing conditions, suggesting that the development flow added was similar to the existing flows removed. Under the 100-year storm, the surcharging on Eglinton Ave reaches surface and exceeds the 1.8m limit.

Run 1 (Laird Dr), Pre-development:

From MH	To MH	Length(m)	Diameter (mm)	U/S Inv (m)	D/S Inv (m)	Slope (m/m)	Full Capacity (m3/s)	DWF Peak Flow (m3/s)	DWF + 2-yr Storm Peak Flow (m3/s)	DWF + 100-yr Storm Peak Flow (m3/s)
4113215853	4109815736	121.7	300	128.382	127.876	0.00416	0.058	0.00107	0.02551	0.04934
4109815736	4100215764	99.9	600	127.38	126.98	0.004	0.361	0.04486	0.62134	0.73341
4100215764	4093615783	69	675	126.42	126.15	0.00391	0.488	0.05508	0.55117	0.51781
4093615783	4084215811	97.7	675	126.15	125.75	0.00409	0.5	0.05507	0.52449	0.51734
4084215811	4074115841	106.1	675	125.75	125.33	0.00396	0.491	0.05515	0.51896	0.52631
4074115841	4073415843	6.6	675	125.33	125.25	0.01212	0.86	0.05515	0.53482	0.58158
4073415843	4065215867	85.5	675	125.25	124.96	0.00339	0.455	0.05514	0.65294	0.79818
4065215867	4059515883	59.5	1200	123.673	123.328	0.0058	2.757	0.10299	1.96778	2.66781
4059515883	4046215921	138.2	1200	123.327	122.435	0.00645	2.909	0.10928	2.03153	2.71125
4046215921	4037615947	89.9	1200	122.435	121.802	0.00704	3.038	0.11003	2.06492	2.75266
4037615947	4028715974	93.4	1200	121.802	121.146	0.00702	3.034	0.11383	2.34054	3.07064
4028715974	4014316063	178.8	1200	121.146	120	0.00641	2.899	0.11535	2.52559	3.38082
4014316063	4007316119	89.4	1200	115.73	115.46	0.00302	1.99	0.11737	2.59961	3.31796
4007316119	3998516199	119.1	1200	115.46	115.053	0.00342	2.117	0.12056	2.76749	3.59068
3998516199	3996116180	30.4	1500	114.796	114.683	0.00372	5.539	0.12057	2.94617	4.04177
3996116180	3992016148	52.1	1500	114.683	114.447	0.00453	6.114	0.15091	3.92206	5.64623
3992016148	3985216125	78.8	1500	114.447	114.141	0.00388	5.661	0.15091	3.91692	5.6428
3985216125	3979116151	65.8	1500	114.141	113.401	0.01125	9.634	0.15091	3.91173	5.64172
3979116151	3977616158	16.7	1500	113.401	113.257	0.00862	8.436	0.1509	3.91177	5.64143
3977616158	3975316202	49.3	3658	90.096	89.767	0.00668	57.793	1.03583	29.15681	81.76344

MH ID	Ground Level (m)	DWF Max Water Level (HGL,m)	DWF + 2-yr Storm Max Water Level (HGL,m)	DWF + 100-yr Storm Max Water Level (HGL,m)	DWF Min Freeboard (m)	DWF + 2-yr Storm Min Freeboard (m)	DWF + 100-yr Storm Min Freeboard (m)
4113215853	130.4	128.417	128.835	129.659	1.983	1.565	0.741
4109815736	131.1	127.525	128.733	129.301	3.575	2.367	1.799
4100215764	130.5	126.575	127.381	127.844	3.925	3.119	2.656
4093615783	130.4	126.303	127.079	127.52	4.097	3.321	2.88
4084215811	130.3	125.905	126.663	127.068	4.395	3.637	3.232
4074115841	130	125.469	126.199	126.559	4.531	3.801	3.441
4073415843	130	125.411	126.145	126.491	4.589	3.855	3.509
4065215867	130.1	123.841	124.443	125.193	6.259	5.657	4.907
4059515883	130.6	123.495	124.089	124.828	7.105	6.511	5.772
4046215921	131.6	122.601	123.195	124.004	8.999	8.405	7.596
4037615947	132.1	121.97	122.633	123.428	10.13	9.467	8.672
4028715974	132.5	121.318	122.031	122.676	11.182	10.469	9.824
4014316063	131	115.935	117.296	118.298	15.065	13.704	12.702
4007316119	131.2	115.661	116.775	117.467	15.539	14.425	13.733
3998516199	126.4	114.951	115.795	116.139	11.449	10.605	10.261
3996116180	127	114.845	115.719	116.062	12.155	11.281	10.938
3992016148	119.2	114.615	115.486	115.786	4.585	3.714	3.414
3985216125	125.9	114.357	114.922	115.166	11.543	10.978	10.734
3979116151	120.2	113.545	114.208	114.46	6.655	5.992	5.74
3977616158	117.9	90.477	91.941	94.178	27.423	25.959	23.722

Run 1 (Laird Dr), Post-Development:

From MH	To MH	Length(m)	Diameter (mm)	U/S Inv (m)	D/S Inv (m)	Slope (m/m)	Full Capacity (m3/s)	DWF Peak Flow (m3/s)	DWF + 2-yr Storm Peak Flow (m3/s)	DWF + 100-yr Storm Peak Flow (m3/s)
4113215853	4109815736	121.7	300	128.382	127.876	0.00416	0.058	0.01853	0.03968	0.06075
4109815736	4100215764	99.9	600	127.38	126.98	0.004	0.361	0.06233	0.62872	0.73783
4100215764	4093615783	69	675	126.42	126.15	0.00391	0.488	0.07254	0.5501	0.51938
4093615783	4084215811	97.7	675	126.15	125.75	0.00409	0.5	0.07253	0.52446	0.51896
4084215811	4074115841	106.1	675	125.75	125.33	0.00396	0.491	0.0726	0.51938	0.52795
4074115841	4073415843	6.6	675	125.33	125.25	0.01212	0.86	0.0726	0.53513	0.58337
4073415843	4065215867	85.5	675	125.25	124.96	0.00339	0.455	0.0726	0.65327	0.79987
4065215867	4059515883	59.5	1200	123.673	123.328	0.0058	2.757	0.12048	1.96815	2.66987
4059515883	4046215921	138.2	1200	123.327	122.435	0.00645	2.909	0.12676	2.03221	2.7119
4046215921	4037615947	89.9	1200	122.435	121.802	0.00704	3.038	0.12752	2.06549	2.75347
4037615947	4028715974	93.4	1200	121.802	121.146	0.00702	3.034	0.13132	2.34117	3.0713
4028715974	4014316063	178.8	1200	121.146	120	0.00641	2.899	0.13284	2.52624	3.38067
4014316063	4007316119	89.4	1200	115.73	115.46	0.00302	1.99	0.13487	2.60053	3.31806
4007316119	3998516199	119.1	1200	115.46	115.053	0.00342	2.117	0.13805	2.76862	3.58984
3998516199	3996116180	30.4	1500	114.796	114.683	0.00372	5.539	0.13806	2.94744	4.04101
3996116180	3992016148	52.1	1500	114.683	114.447	0.00453	6.114	0.16839	3.92362	5.64463
3992016148	3985216125	78.8	1500	114.447	114.141	0.00388	5.661	0.16839	3.91845	5.64121
3985216125	3979116151	65.8	1500	114.141	113.401	0.01125	9.634	0.16839	3.913	5.63981
3979116151	3977616158	16.7	1500	113.401	113.257	0.00862	8.436	0.16839	3.91312	5.63951
3977616158	3975316202	49.3	3658	90.096	89.767	0.00668	57.793	1.05251	29.16056	81.74126

MH ID	Ground Level (m)	DWF Max Water Level (HGL,m)	DWF + 2-yr Storm Max Water Level (HGL,m)	DWF + 100-yr Storm Max Water Level (HGL,m)	DWF Min Freeboard (m)	DWF + 2-yr Storm Min Freeboard (m)	DWF + 100-yr Storm Min Freeboard (m)
4113215853	130.4	128.501	129.007	129.87	1.899	1.393	0.53
4109815736	131.1	127.551	128.764	129.323	3.549	2.336	1.777
4100215764	130.5	126.6	127.383	127.856	3.9	3.117	2.644
4093615783	130.4	126.328	127.081	127.53	4.072	3.319	2.87
4084215811	130.3	125.93	126.664	127.075	4.37	3.636	3.225
4074115841	130	125.487	126.2	126.564	4.513	3.8	3.436
4073415843	130	125.436	126.146	126.495	4.564	3.854	3.505
4065215867	130.1	123.851	124.443	125.195	6.249	5.657	4.905
4059515883	130.6	123.505	124.089	124.83	7.095	6.511	5.77
4046215921	131.6	122.61	123.195	124.004	8.99	8.405	7.596
4037615947	132.1	121.979	122.634	123.428	10.121	9.466	8.672
4028715974	132.5	121.327	122.031	122.676	11.173	10.469	9.824
4014316063	131	115.95	117.298	118.297	15.05	13.702	12.703
4007316119	131.2	115.676	116.776	117.466	15.524	14.424	13.734
3998516199	126.4	114.96	115.795	116.139	11.44	10.605	10.261
3996116180	127	114.853	115.719	116.062	12.147	11.281	10.938
3992016148	119.2	114.623	115.486	115.786	4.577	3.714	3.414
3985216125	125.9	114.361	114.922	115.166	11.539	10.978	10.734
3979116151	120.2	113.55	114.208	114.46	6.65	5.992	5.74
3977616158	117.9	90.48	91.941	94.178	27.42	25.959	23.722

Run 2 (Eglinton Ave), Pre-Development:

From MH	To MH	Length(m)	Diameter (mm)	U/S Inv (m)	D/S Inv (m)	Slope (m/m)	Full Capacity (m3/s)	DWF Peak Flow (m3/s)	DWF + 2-yr Storm Peak Flow (m3/s)	DWF + 100-yr Storm Peak Flow (m3/s)
4119116042	4120716094	54.4	250	127.102	126.476	0.01151	0.059	0.0001	0.01983	0.03829
4120716094	4122116139	46.8	250	126.476	126.422	0.00115	0.019	0.00085	0.02806	0.05522
4122116139	4122816139	7.8	250	126.422	124.845	0.20218	0.248	0.00097	0.04286	0.06122
4122816139	4131016115	84.6	250	124.795	124.456	0.00401	0.035	0.00097	0.03083	0.05261
4131016115	4131516117	5.4	250	124.506	124.276	0.04259	0.114	0.00097	0.02938	0.05304
4131516117	4138516096	73.4	250	124.246	124.002	0.00332	0.032	0.00107	0.03763	0.06875
4138516096	4141316109	30.5	250	123.952	123.864	0.00289	0.03	0.00533	0.08705	0.10489
4141316109	4144416194	90.3	250	123.814	122.923	0.00987	0.055	0.00605	0.0889	0.10821
4144416194	NewLRT1	44.2	250	122.923	120.836	0.04724	0.12	0.00605	0.0889	0.1082
NewLRT1	NewLRT2	16	300	120.776	119.928	0.053	0.207	0.00605	0.0889	0.1082
NewLRT2	NewLRT4	131.5	300	119.868	112.896	0.05302	0.207	0.00793	0.10939	0.15916
NewLRT4	NewLRT5	45.4	525	111.94	111.144	0.01753	0.529	0.0181	0.19175	0.28511
NewLRT5	NewLRTstorage	199	2100	106.345	105.35	0.005	11.386	0.0181	0.1538	0.15209
NewLRTstorage	NewLRT6	3.5	600	103.735	103.7	0.01	0.57	0.0181	0.12154	0.12696
NewLRT6	4152316642	21.6	250	103.67	102.81	0.03973	0.11	0.01889	0.11709	0.12787
4152316642	4149316679	90.6	250	102.76	99.81	0.03255	0.1	0.01889	0.11705	0.12786
4149316679	4152416741	36.4	250	99.76	96.27	0.09598	0.171	0.01889	0.11705	0.12787
4152416741	4152816800	58.9	375	96.22	95.81	0.00697	0.136	0.01889	0.12527	0.13662
4152816800	4154316886	87.1	375	95.77	95.1	0.0077	0.143	0.01889	0.14367	0.16231
4154316886	4157416968	87.7	375	95.08	92.9	0.02487	0.257	0.01898	0.14813	0.1923
4157416968	4157716976	9.3	375	92.87	92.638	0.02495	0.257	0.01898	0.15131	0.21021
4157716976	4154017146	174.4	1500	91.968	91.285	0.00392	4.108	1.01364	4.59111	4.83038

MH ID	Ground Level (m)	DWF Max Water Level (HGL,m)	DWF + 2-yr Storm Max Water Level (HGL,m)	DWF + 100-yr Storm Max Water Level (HGL,m)	DWF Min Freeboard (m)	DWF + 2-yr Storm Min Freeboard (m)	DWF + 100-yr Storm Min Freeboard (m)
4119116042	129.7	127.128	127.209	129.84	2.572	2.491	-0.14
4120716094	129.4	126.517	127.019	129.666	2.883	2.381	-0.266
4122116139	129	126.449	126.967	129.281	2.551	2.033	-0.281
4122816139	129	124.83	126.936	129.22	4.17	2.064	-0.22
4131016115	128.5	124.536	126.707	128.706	3.964	1.793	-0.206
4131516117	128.5	124.283	126.688	128.668	4.217	1.812	-0.168
4138516096	128.5	124.026	126.337	127.814	4.474	2.163	0.686
4141316109	128.3	123.873	125.543	126.683	4.427	2.757	1.617
4144416194	125.5	122.969	123.1	123.143	2.531	2.4	2.357
NewLRT1	123.6	120.821	120.918	120.936	2.779	2.682	2.664
NewLRT2	127.1	119.917	120.03	120.095	7.183	7.07	7.005
NewLRT4	119.2	112.023	112.166	112.224	7.177	7.034	6.976
NewLRT5	119.1	106.465	106.558	107.342	12.635	12.542	11.758
NewLRTstorag	109.7	103.83	106.18	107.342	5.87	3.52	2.358
NewLRT6	109.7	103.744	105.326	106.319	5.956	4.374	3.381
4152316642	105.06	102.838	104.281	105.082	2.222	0.779	-0.022
4149316679	103.31	99.821	99.952	99.976	3.489	3.358	3.334
4152416741	101.27	96.317	96.519	97.474	4.953	4.751	3.796
4152816800	101.11	95.864	96.204	97.098	5.246	4.906	4.012
4154316886	98.35	95.158	95.778	96.548	3.192	2.572	1.802
4157416968	98.24	92.948	95.323	95.958	5.292	2.917	2.282
4157716976	96.8	92.485	95.271	95.89	4.315	1.529	0.91

Run 2 (Eglinton Ave), Post-Development:

From MH	To MH	Length(m)	Diameter (mm)	U/S Inv (m)	D/S Inv (m)	Slope (m/m)	Full Capacity (m3/s)	DWF Peak Flow (m3/s)	DWF + 2-yr Storm Peak Flow (m3/s)	DWF + 100-yr Storm Peak Flow (m3/s)
4119116042	4120716094	54.4	250	127.102	126.476	0.01151	0.059	0.01616	0.01616	0.01616
4120716094	4122116139	46.8	250	126.476	126.422	0.00115	0.019	0.0169	0.02332	0.02535
4122116139	4122816139	7.8	250	126.422	124.845	0.20218	0.248	0.01703	0.04001	0.05507
4122816139	4131016115	84.6	250	124.795	124.456	0.00401	0.035	0.01703	0.03024	0.04965
4131016115	4131516117	5.4	250	124.506	124.276	0.04259	0.114	0.01703	0.02891	0.04801
4131516117	4138516096	73.4	250	124.246	124.002	0.00332	0.032	0.02811	0.04218	0.05341
4138516096	4141316109	30.5	250	123.952	123.864	0.00289	0.03	0.03236	0.08642	0.10266
4141316109	4144416194	90.3	250	123.814	122.923	0.00987	0.055	0.03308	0.08813	0.10582
4144416194	NewLRT1	44.2	250	122.923	120.836	0.04724	0.12	0.03308	0.08813	0.10581
NewLRT1	NewLRT2	16	300	120.776	119.928	0.053	0.207	0.03308	0.08813	0.10581
NewLRT2	NewLRT4	131.5	300	119.868	112.896	0.05302	0.207	0.03495	0.10885	0.15358
NewLRT4	NewLRT5	45.4	525	111.94	111.144	0.01753	0.529	0.04496	0.19015	0.27835
NewLRT5	NewLRTstorage	199	2100	106.345	105.35	0.005	11.386	0.04495	0.14991	0.14629
NewLRTstorage	NewLRT6	3.5	600	103.735	103.7	0.01	0.57	0.04494	0.12034	0.12621
NewLRT6	4152316642	21.6	250	103.67	102.81	0.03973	0.11	0.04572	0.11714	0.12716
4152316642	4149316679	90.6	250	102.76	99.81	0.03255	0.1	0.04572	0.11712	0.12715
4149316679	4152416741	36.4	250	99.76	96.27	0.09598	0.171	0.04572	0.11712	0.12715
4152416741	4152816800	58.9	375	96.22	95.81	0.00697	0.136	0.04572	0.1255	0.13855
4152816800	4154316886	87.1	375	95.77	95.1	0.0077	0.143	0.04572	0.1438	0.1651
4154316886	4157416968	87.7	375	95.08	92.9	0.02487	0.257	0.0458	0.14816	0.19335
4157416968	4157716976	9.3	375	92.87	92.638	0.02495	0.257	0.0458	0.15136	0.21142
4157716976	4154017146	174.4	1500	91.968	91.285	0.00392	4.108	1.03568	4.59384	4.83162

MH ID	Ground Level (m)	DWF Max Water Level (HGL,m)	DWF + 2-yr Storm Max Water Level (HGL,m)	DWF + 100-yr Storm Max Water Level (HGL,m)	DWF Min Freeboard (m)	DWF + 2-yr Storm Min Freeboard (m)	DWF + 100-yr Storm Min Freeboard (m)
4119116042	129.7	127.194	127.194	129.191	2.506	2.506	0.509
4120716094	129.4	126.643	126.93	129.169	2.757	2.47	0.231
4122116139	129	126.473	126.874	129.072	2.527	2.126	-0.072
4122816139	129	124.92	126.843	128.998	4.08	2.157	0.002
4131016115	128.5	124.577	126.623	128.368	3.923	1.877	0.132
4131516117	128.5	124.43	126.605	128.321	4.07	1.895	0.179
4138516096	128.5	124.158	126.285	127.621	4.342	2.215	0.879
4141316109	128.3	123.957	125.503	126.53	4.343	2.797	1.77
4144416194	125.5	123.016	123.099	123.133	2.484	2.401	2.367
NewLRT1	123.6	120.862	120.918	120.933	2.738	2.682	2.667
NewLRT2	127.1	119.956	120.029	120.086	7.144	7.071	7.014
NewLRT4	119.2	112.055	112.165	112.218	7.145	7.035	6.982
NewLRT5	119.1	106.482	106.557	107.263	12.618	12.543	11.837
NewLRTstorag	109.7	103.925	106.187	107.262	5.775	3.513	2.438
NewLRT6	109.7	103.786	105.332	106.251	5.914	4.368	3.449
4152316642	105.06	102.883	104.286	105.027	2.177	0.774	0.033
4149316679	103.31	99.852	99.953	99.974	3.458	3.357	3.336
4152416741	101.27	96.372	96.521	97.456	4.898	4.749	3.814
4152816800	101.11	95.918	96.208	97.085	5.192	4.902	4.025
4154316886	98.35	95.193	95.78	96.542	3.157	2.57	1.808
4157416968	98.24	92.983	95.325	95.958	5.257	2.915	2.282
4157716976	96.8	92.49	95.273	95.889	4.31	1.527	0.911

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TECHNICAL MEMORANDUM TM1

DATE	February 16, 2018
TO	**Pascal Monat, SCS Consulting**
SUBJECT	Eglinton and Laird Planning Study **Review of Water and Wastewater Servicing Opportunities**
FROM	Kevin Brown, P. Eng
PROJECT NUMBER	17103

1 Background

The Municipal Infrastructure Group Ltd. (TMIG) has been retained by SCS Consulting Limited (SCS) to conduct a servicing analysis to understand the existing water system in the study area and the capacity for the potential re-development of the Eglington/Laird Development Area.

The recommended preferred Development Densities were developed by The Planning Partnership and have been used in the assessment of servicing requirements and opportunities.

The Eglinton-Laird Focus Area consists of two distinct development areas, as follows:

- Three major blocks that front onto Eglinton Avenue. These will generally consist of high-density mixed-use developments in the range of 6 to 32 storeys high
- Seven smaller blocks along the west side of Laird Ave. These will generally consist of smaller 3 to 10 storey mixed-use developments.

The development density Statistics are provided in **Appendix A**.

Information about the water system provided by the City was reviewed, and a modelling methodology developed to be applied to the analysis was stated in the memo dated June 7, 2017.

As part of the modelling methodology, a model calibration was performed as per the memo dated August 8, 2017.

The Existing condition analysis with the calibrated model was described in the memo dated October 27, 2017.

2 Existing Servicing

From the City of Toronto Water Supply infrastructure map, we have identified that the study area falls under the Pressure District PD3E. The transmission main supplying this area is the 600 mm main located along Don Mills Road to the east. The study area borders the Pressure District PD4E along the Bayview Avenue. (Refer Fig 1. – Water System).

From a meeting with Toronto Water, we had been advised that PD3E is hydraulically connected to PD3 to the west, but that PD3E should be able to function alone.

We have also been advised that there are Pressure-Reducing Valves (PRVs) located along the PD4 watermain on Bayview Avenue which can supplement the water supply and maintain pressures in PD3E.

2.1 Model Development and Calibration

TMIG Developed an InfoWater model for this Study Area. The main components of the model are described below.

2.1.1 Pipe Network

The City provided GIS shapefiles for the Water system (watermains and valves), and these were used to generate the pipe network for the InfoWater model after clarifying the information gaps. (Refer Fig 1 – Water system)

2.1.2 Water Demands

The average consumption/billing data from the geocoded meter data provided has been used as the modelled average day demands for each parcel. Using the demand allocation tool in InfoWater, these demands have been assigned to closest node in the pipe network to create an average day demand set.

Based on City of Toronto guidelines, the Maximum Day peaking factor is 1.8 and the Peak Hour factor is 2.5. The average consumption from the meter data was multiplied by the peaking factors to create the Maximum Day and Peak Hour demand sets.

Fire demands have been assigned to junctions in the network based on the land use. (Refer Fig 2-Fire demand allocation)

2.1.3 Boundary Conditions

Since the model developed is for the local area only, additional system data was collected to provide a suitable boundary condition at the study area limits. A fixed head reservoir has been established west of Don River and east of Overlea Boulevard and Thorncliffe Park Drive servicing the 400-mm transmission main along Overlea Boulevard.

The HGL elevation was established at 194 m through pressure logging.

2.1.4 Field Testing Program

A field testing program was developed to calibrate the model. These tests involved five hydrant flow tests along major water mains to calibrate the roughness coefficients along these primary feeds. Also, pressure loggers were installed at two locations (Overlea Blvd and Parkhurst Blvd) to track normal pressure variations over the course of a typical week. Fig.3 shows the details of the field testing program.

The fire flow test analysis was performed for all the five locations using NFPA 291 Extrapolation Methodology. Attachment A shows the fire flow analysis on all the five locations. Attachment B shows the pressure variations at those locations during hydrant test.

2.1.5 Model Calibration

The hydraulic information in model regarding pipe roughness (Hazen Williams Coefficient) and the boundary conditions (HGL for Fixed Head Reservoir) were initially assumed based on standard values. Model calibration involves the adjustment of the primary network model parameters (i.e. pipe roughness coefficients and Reservoir HGL) until the model results closely approximate actual observed conditions as measured from field data.

a. Boundary conditions

Using the pressure logger data at two locations and the static pressure data at the five-fire flow locations, the HGL for fixed head reservoir is adjusted to reasonable value.

b. Pipe Roughness Coefficient

The model was simulated for all five fire flow tests by assigning the maximum hydrant flow to “Demand 10” in model at the Fire flow node and the residual pressure at the nearby node is noted. The pipe roughness was adjusted along the mains such that to reduce the difference in residual head between model and field data. The adjusted pipe roughness coefficient is within the range specific by City of Toronto Standards.

The calibrated model head with observed field data is given in Attachment C. It is observed that the observed and simulated HGL differ in the range of +5 m to -5 m.

Overall, a good match between the model and the measured pressures was achieved. However, the area along Overllea Blvd (FF 1) where the model results varied from the other test locations. It is not clear why the modelled pressures do not match existing, but it is possibly related to a topographical elevation error, since an excellent calibration was obtained at the other fire flow test locations.

There are Pressure-Reducing Valves along Bayview Avenue, but it is not clear whether these are active on a regular basis. Our modelling and calibration exercise did not indicate that the PD3E system pressures would drop enough that the PRVs become active.

2.2 Model Results – Existing Conditions

The existing conditions were simulated with the calibrated model to establish the residual pressures under several demands scenarios throughout the Study Area. The model was simulated for the following scenarios and the pressure and head loss in system can be studied to understand the existing system capacity. Attachment D shows the model output for the existing condition analysis. Summary of results are provided in Table 1.

TABLE 1 EXISTING CONDITION MODELLING SCENARIO RESULTS

Water Demand Modeling Scenario	Minimum Water System Requirements	Modelling Results
Average Day Demand	Recommended System Pressures = 40 psi to 100 psi	Model System Pressure = 46.8 psi to 95.3 psi (Ref Fig 4)
Maximum Day Demand	Recommended System Pressures = 40 psi to 100 psi	Model System Pressure = 38.3 psi to 90.1 psi (Ref Fig 5)
Peak Hour Demand	Recommended System Pressures = 40 psi to 100 psi	Model System Pressure = 33 psi to 87.3 psi (Ref Fig 6)
Required Fire Flow to be provided at a residual pressure of no less than 20 psi		
Maximum Day Demand plus Fire Flow	Residential Fire flow requirements per City of Toronto Standards, Q_f >64 L/s to 189 L/s	Model Residential Available Fire flow = 56.5 L/s to 318.3 L/s (Ref Fig 7)
	Employment Fire flow requirements per City of Toronto Standards, Q_f = 189 L/s to 317 L/s	Model Employment / High Rise Available Fire flow 80.6 L/s to 792.5 L/s (Ref Fig 7)

1. Refer Attachment D for detailed water modelling output table

The model simulation results show that the system pressures are within the recommended range of 40 psi to 100 psi (275 kpa to 690 kpa) in most of the area. However, under Max Day and Peak Hour demand scenario, there are areas with low pressures and these areas are at the higher elevation range of the current pressure district.

Fire flow analysis performed shows that generally there are suitable fire flows available in most areas, however, there are some areas with not adequate fire flows. It is not clear whether these areas would be supplemented by additional water supply (and therefore increased pressures) from PD4 vis the PRVs along Bayview Avenue.

3 Modifications to Reflect Post-Development Conditions

The recommended preferred development densities provided in Appendix A have been used in the assessment of servicing requirements and opportunities.

The Eglinton-Laird Focus Area consists of two distinct development areas, as follows:

- Three major blocks that front onto Eglinton Avenue.
  These will generally consist of high-density mixed-use developments. Therefore, following design criteria is used.
  Residential = 191 Lpcd; ICI = 180,000 L/ha/Day

- Seven smaller blocks along the west side of Laird Ave.
  These will generally consist of medium density mixed use developments. Therefore, following design criteria is used.
  Residential = 320 Lpcd; ICI = 180,000 L/ha/Day

Attachment E shows the detailed water demand calculations for the proposed developments. A summary of demands is provided in Table 2.

TABLE 2 SUMMARY OF PROPOSED DEVELOPMENT WATER DEMANDS

Development Area	ICI Area (m^2)	Residential Units	Residential Population	Avg Day Demands		Max Day Demands		Peak Hour Demands	
				ICI (L/s)	RES (L/s)	ICI (L/s)	RES (L/s)	ICI (L/s)	RES (L/s)
Eglinton Avenue	44,670	3,755	6,684	9.31	14.78	10.24	19.21	11.17	36.94
Laird Drive	21,090	1,017	2,102	4.39	7.78	4.83	12.84	5.27	19.30

1. Refer Attachment E for detailed water demand calculations

The model was updated to reflect the post development conditions. The existing meter-based demands for the proposed redevelopment addresses were removed from the appropriate nodes, and the proposed future design demands were assigned to new nodes. The model was modified to add average day, Max day and Peak hour demand scenario for the Post Development conditions.

3.1 Model Results – Post-Development Conditions

The post development conditions were simulated with the modified calibrated model to establish the residual pressures under several demands scenarios throughout the Study Area. The model was simulated for the following scenarios and the pressure and head loss in system can be studied to understand the impact of the development existing system capacity. Attachment F shows the model output for the post development condition analysis. A summary of the results is provided in Table 3.

TABLE 3 POST DEVELOPMENT CONDITION MODELLING SCENARIO RESULTS

Water Demand Modeling Scenario	Minimum Water System Requirements	Modelling Results
Average Day Demand	Recommended System Pressures = 40 psi to 100 psi	Model System Pressure = 43.4 psi to 93.1 psi (Ref Fig 8)
Maximum Day Demand	Recommended System Pressures = 40 psi to 100 psi	Model System Pressure = 30.6 psi to 87 psi (Ref Fig 9)
Peak Hour Demand	Recommended System Pressures = 40 psi to 100 psi	Model System Pressure = 19.4 psi to 81.8 psi (Ref Fig 10)
Required Fire Flow to be provided at a residual pressure of no less than 20 psi		
Maximum Day Demand plus Fire Flow	Residential Fire flow requirements per City of Toronto Standards, Q_f >64 L/s to 189 L/s	Model Residential Available Fire flow = 50.2 L/s to 269.5 L/s (Ref Fig 11)
	Employment Fire flow requirements per City of Toronto Standards, Q_f = 189 L/s to 317 L/s	Model Employment / High Rise Available Fire flow 75.3 L/s to 742.9 L/s (Ref Fig 11)

1. Refer Attachment F for detailed water modelling output table

The model simulation results show that the system pressures are within the recommended range of 40 psi to 100 psi (275 kpa to 690 kpa) in most of the area. However, under Max day and Peak Hour demand scenario, there are areas with pressures below the desired level-of service. While some of these areas experience low pressures under existing conditions, the extent of the low-pressure areas increases as a result if the increased demands associated with the proposed development.

The modelled fire flow analysis indicates that there are suitable fire flows available in most areas, however, there are areas with sub-standard fire flows (as in the existing conditions modelling). Due to the increased fire flow demands associated with the proposed land use changes, the proposed redevelopment areas will not be provided with the City's design fire flows without some system improvements.

Under the peak hour demand scenario, the low-pressure area generally falls between Hanna Road and Bayview Avenue.

Under the fire flow scenario, there are broadly two zones with sub-standard fire flows.

- West of Bessborough Dr and South of Eglinton Ave
- Central Part of study area along Laird Dr, along Eglinton Ave and Vanderhoof Ave

Head loss through the distribution system was reviewed to understand the potential hydraulic bottlenecks that are limiting the fire flow availability. From FIG 9 (Post Dev Peak Hour Demand Scenario), we can see very high head losses along watermains in the following areas:

- Overlea Blvd, west of Don River to Thorncliffe Park Dr
- Wicksteed Ave, from Beth Nealson Dr to Leslie St

It is anticipated that focussing system improvements in these areas will result in the most efficient opportunity to restore system pressures and mitigate any impacts from the proposed development.

3.2 Recommended System Upgrades

The model was run again to confirm the magnitude of the system upgrades required to mitigate the impacts of the proposed developments on the level-of-service provided throughout the service area.

A series of system upgrades in the locations identified above are shown in Fig 12. A summary of the proposed upgrades is given in Table 4 with complete details included in Attachment G.

TABLE 4 SUMMARY OF PROPOSED SYSTEM UPGRADES

Road	From	To	Length (m)	Type of Upgrade	Ex Dia (mm)	Prop Dia (mm)
Overlea Blvd	West of Don River	Thorncliffe Park Dr	490.3	Rehab	400	400
Beth Nealson Dr	Thorncliffe Park Dr	Wicksteed Ave	500.4	Upsizing	300	400
Wicksteed Ave	Beth Nealson Dr	Leslie St	350.1	Upsizing	300	400
Leslie St	Wicksteed Ave	Research Rd	97.0	Upsizing	200	300
Leonard Linton Park Easement	Wicksteed Ave	Vanderhoof Ave	184.9	Upsizing	150	200
Aerodrome Cres	Vanderhoof Ave	Thomas Elgie Dr	222.4	Upsizing	200	300
Brentcliffe Rd	Vanderhoof Ave	Eglinton Ave	184.5	Upsizing	200	300
Vanderhoof Ave	Brentcliffe Rd	Fut Block A1/A2 easement	235.3	Upsizing	150	200
Vanderhoof Ave	Fut Block A1/A2 easement	Laird Dr	197.2	Upsizing	200	300

1. *Refer Attachment G for detailed upgrades identified for system improvements*

3.2.1 Verification of Pressure Improvements

The Upgraded System Post Development conditions were simulated with the modified calibrated model to confirm whether the post-development residual pressures can be restored to pre-development conditions throughout the service area.

Attachment H shows the model output for the upgraded system post development condition analysis. Summary of results and comparison with other conditions are provided in Table 5. This demonstrates that the reduction in system pressures resulting from the proposed redevelopment densities can be mitigated through the system improvements identified above. There are still some areas where the modelling results indicate that the desired level-of-service will not be met, but these are consistent with the areas identified in the existing conditions analysis.

The areas with sub-standard pressures (according to the model results) are located along the western edge of the Service Area. The affected area is at the highest elevations within the service area, and adjacent to the PD-4 watermain along Bayview Avenue. The City has advised that there are PRVs along Bayview Avenue which can supplement PD-3E. As the modelling demonstrates that the proposed system upgrades will be successful in maintining the existing conditions, we anticipate that there will be no overall adverse impacts resulting from the proposed development.

TABLE 5 MODELLING RESULTS WITH SYSTEM IMPROVEMENTS

Water Demand Modeling Scenario	Existing Condition Ex System Modelling Results	Post Development Ex System Modelling Results	Post Development Upgraded System Modelling Results
Average Day Demand	Model System Pressure = 46.8 psi to 95.3 psi (Ref Fig 4)	Model System Pressure = 43.4 psi to 93.1 psi (Ref Fig 8)	Model System Pressure = 47 psi to 95.4 psi
Maximum Day Demand	Model System Pressure = 38.3 psi to 90.1 psi (Ref Fig 5)	Model System Pressure = 30.6 psi to 87 psi (Ref Fig 9)	Model System Pressure = 40.3 psi to 92.1 psi
Peak Hour Demand	Model System Pressure = 33 psi to 87.3 psi (Ref Fig 6)	Model System Pressure = 19.4 psi to 81.8 psi (Ref Fig 10)	Model System Pressure = 34.5 psi to 89.6 psi (Ref Fig 13)
Required Fire Flow to be provided at a residual pressure of no less than 20 psi			
Maximum Day Demand plus Fire Flow	Model Residential Available Fire flow = 56.5 L/s to 318.3 L/s (Ref Fig 7)	Model Residential Available Fire flow = 50.2 L/s to 269.5 L/s (Ref Fig 11)	Model Residential Available Fire flow = 59.8 L/s to 473.3 L/s (Ref Fig 14)
	Model Employment / High Rise Available Fire flow = 80.6 L/s to 792.5 L/s (Ref Fig 7)	Model Employment / High Rise Available Fire flow = 75.3 L/s to 742.9 L/s (Ref Fig 11)	Model Employment / High Rise Available Fire flow = 84.0 L/s to 1432.2 L/s (Ref Fig 14)

1. Refer Attachment D, F & H for detailed system water modelling output table

4 Conclusion

The proposed development will result in increased system demands (average day, maximium day, and peak hour). These increases will impact the residual pressures throughout the PD-3E service area.

The impacts of the increased densities can be mitigated through 2.5 km of local system improvements.

FIGURES

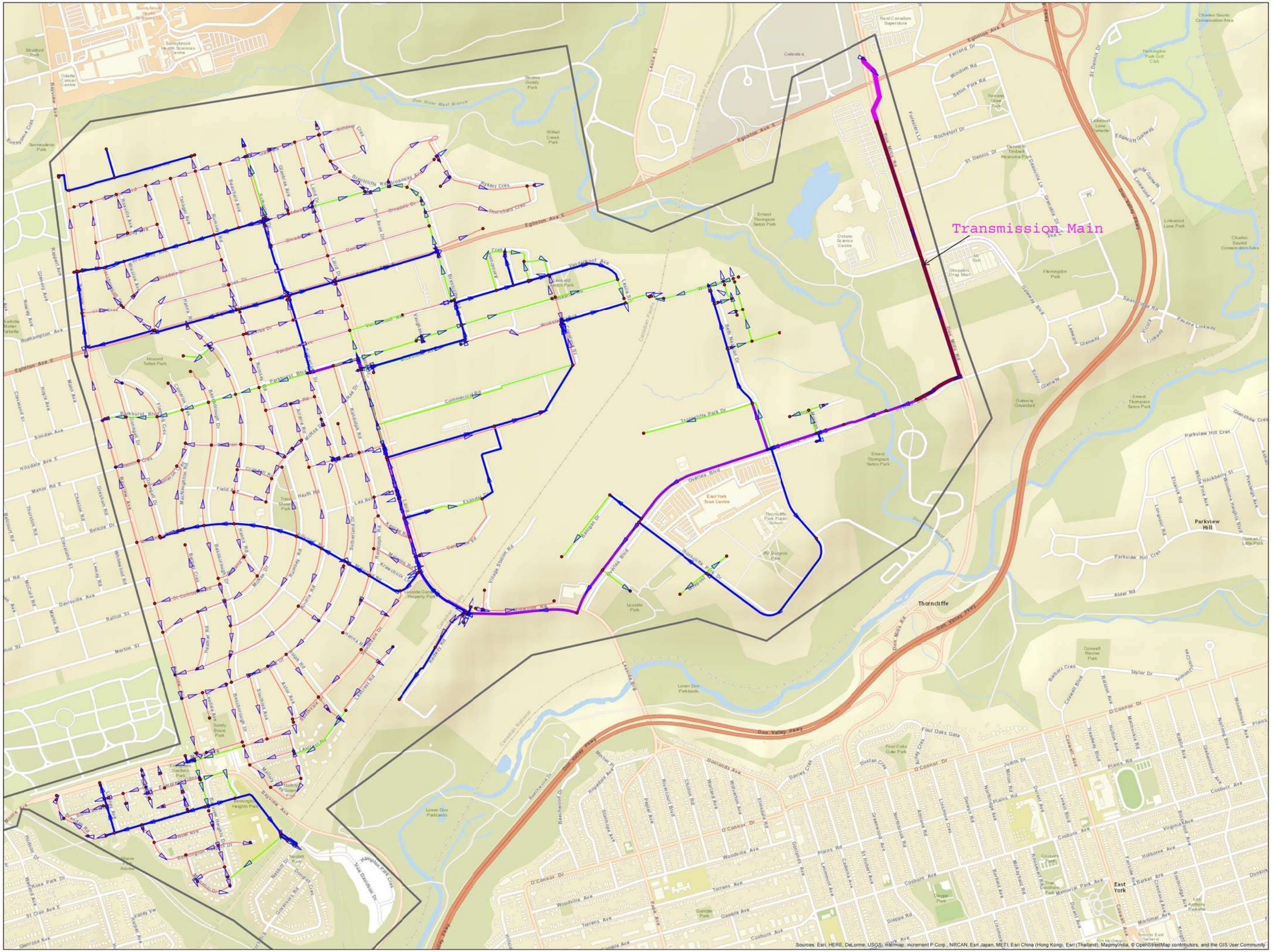
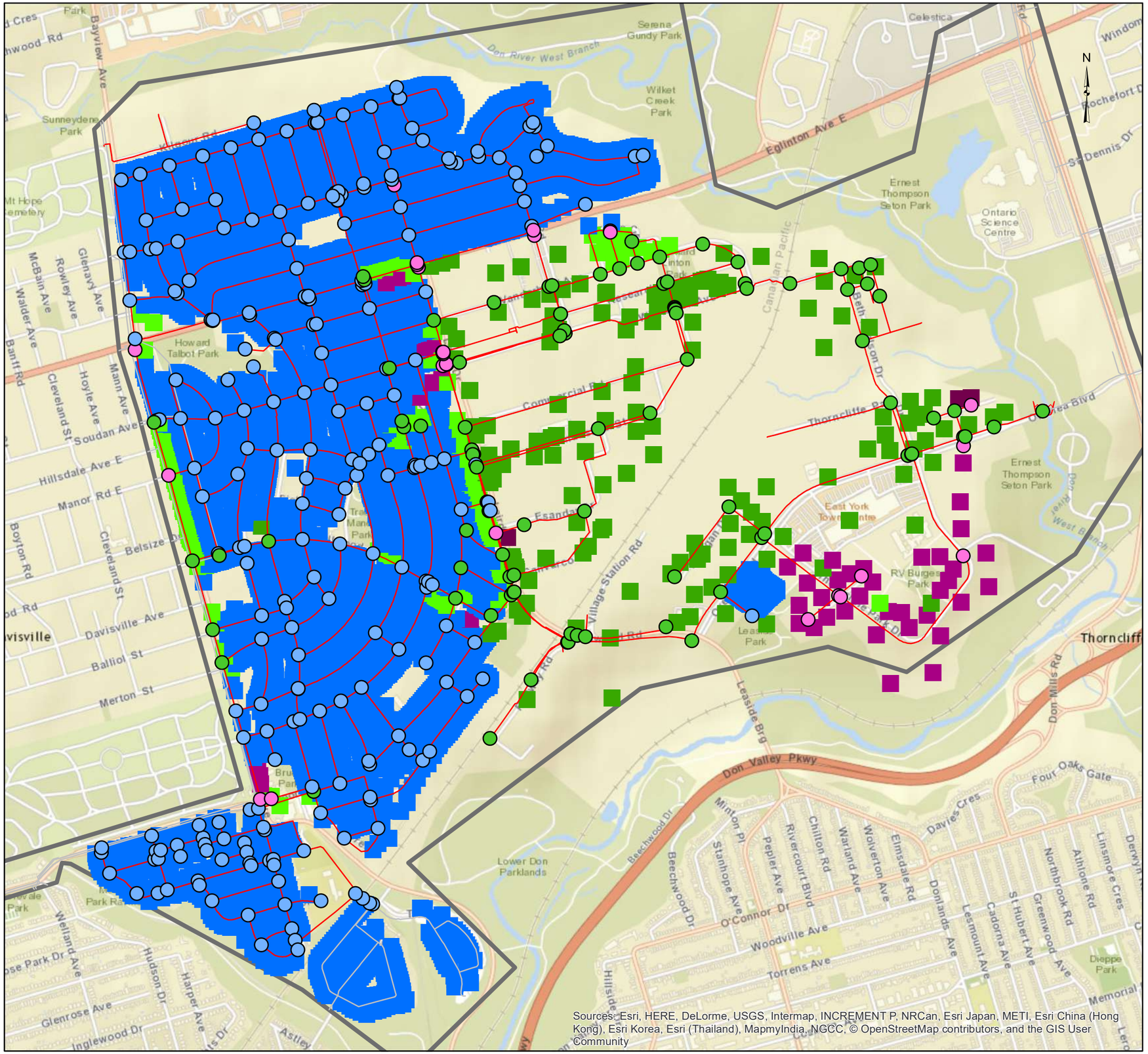


Fig 1.
Ex. Water
Distribution
System



Legend

Junction

FIRE_DEM

- 65 L/s
- 190 L/s
- 317 L/s

Meterdata_Landuse_Final

Land_Use

- RES, FF = 65 L/s
- ICI + RES , FF = 190 L/s
- ICI, FF = 190 L/s
- RES-HD, FF = 317 L/s
- ICI-HR, FF = 317 L/s

Fig 2. Fire Flow Demand Allocation

Fig 3

Legend

Pipe

RUN_DIAM

- < 150 mm
- 250 mm
- 300 mm
- 400 mm

FF5

FF4

FF2

Log 2

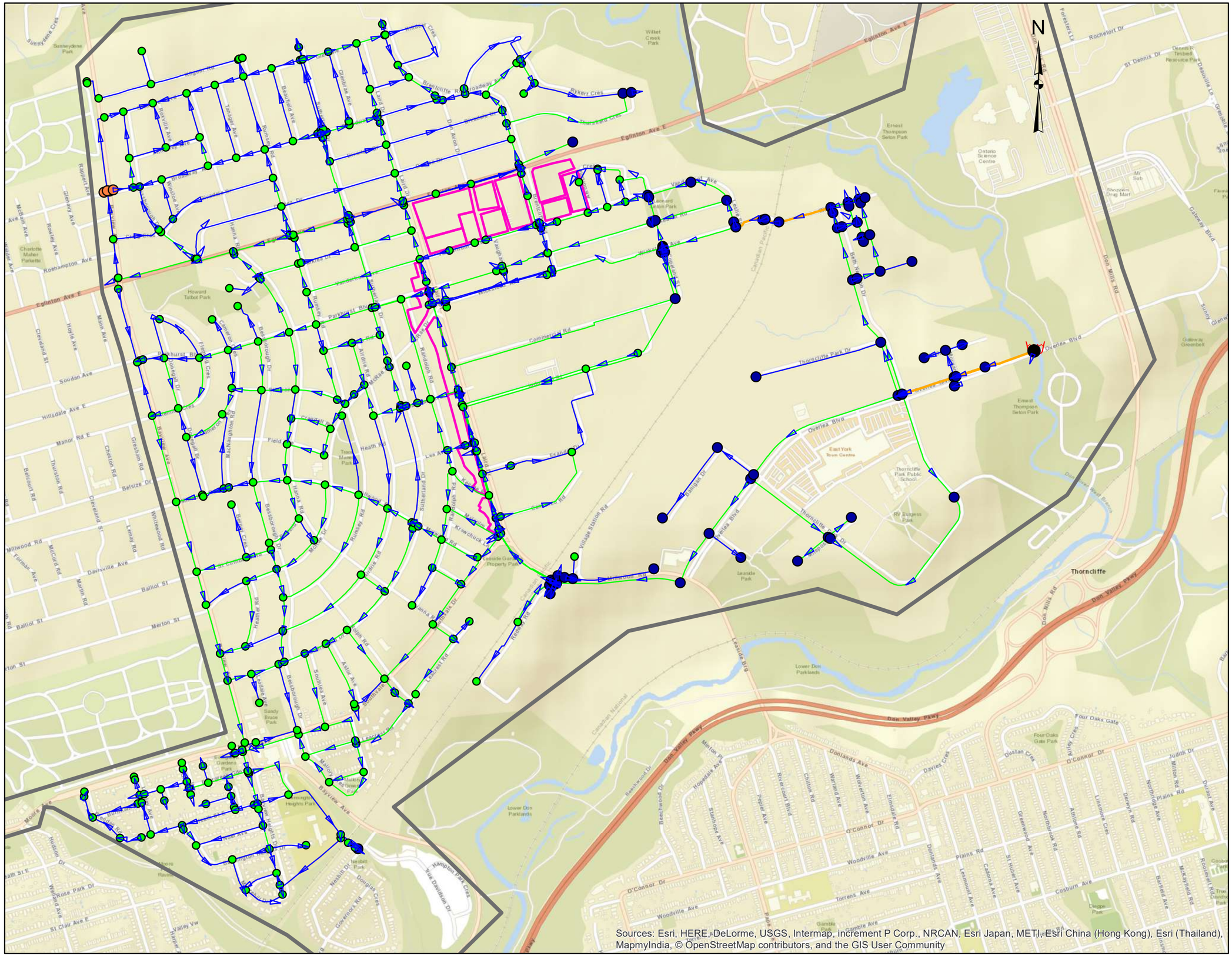
Log 1

FF3

FF1

Fig 1. Water Distribution System

Fig.3 Water Field Tests for Model Calibration



Legend

Junction

PRESSURE

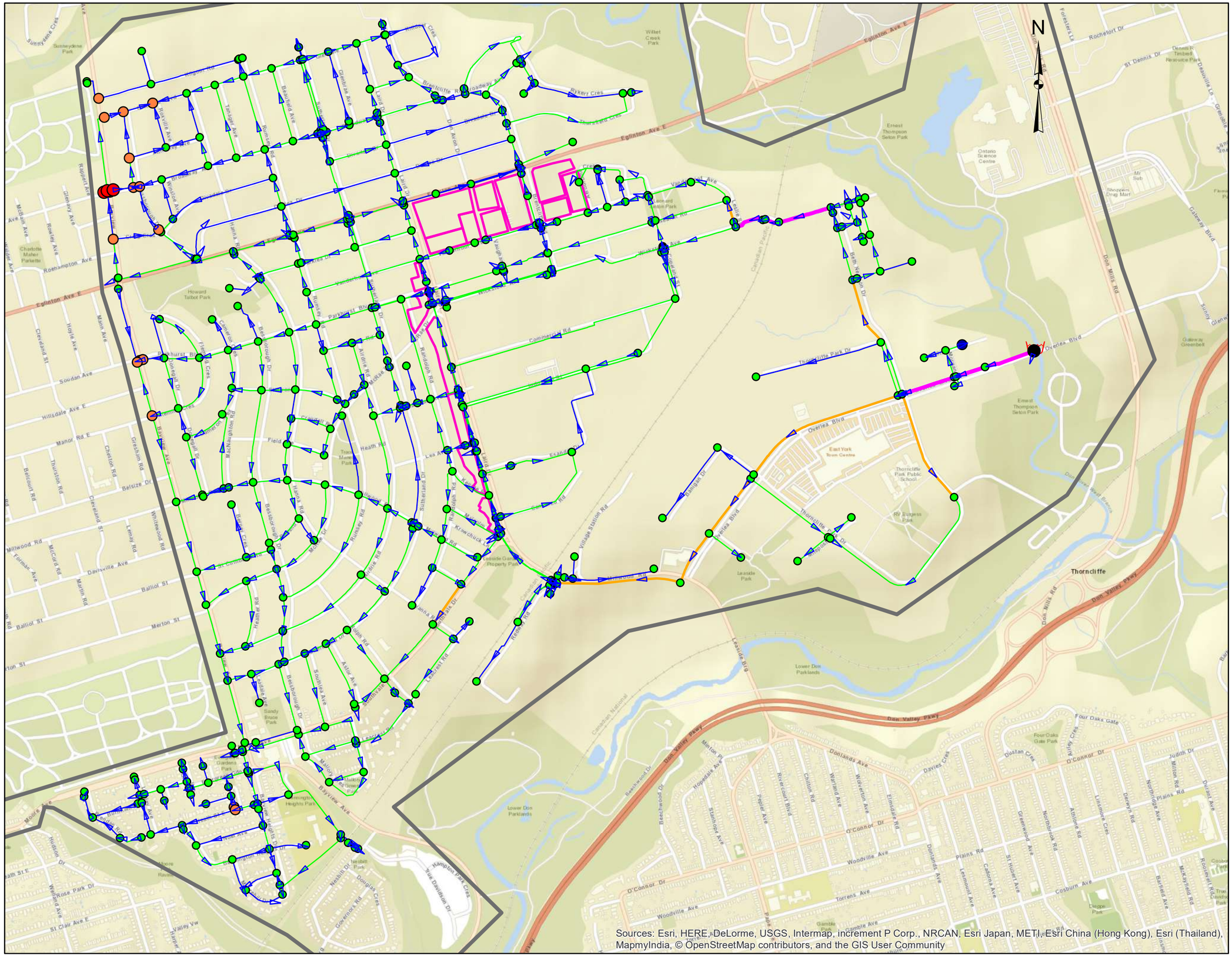
- < 40 psi
- 40 - 50 psi
- 50 -90 psi
- 90 -100 psi
- > 100 psi

Pipe

HL1000

- less than 0.00
- 0.00 ~ 1.00
- 1.00 ~ 5.00
- 5.00 ~ 10.00
- 10.00 ~ 20.76

Fig 4.
EX - Avg Day
Demand Scenario



Legend

Junction

PRESSURE

- < 40 psi
- 40 - 50 psi
- 50 -90 psi
- 90 -100 psi
- > 100 psi

Pipe

HL1000

- less than 0.00
- 0.00 ~ 1.00
- 1.00 ~ 5.00
- 5.00 ~ 10.00
- 10.00 ~ 20.76

Fig 5.
EX - Max Day
Demand Scenario

Legend

Junction

PRESSURE

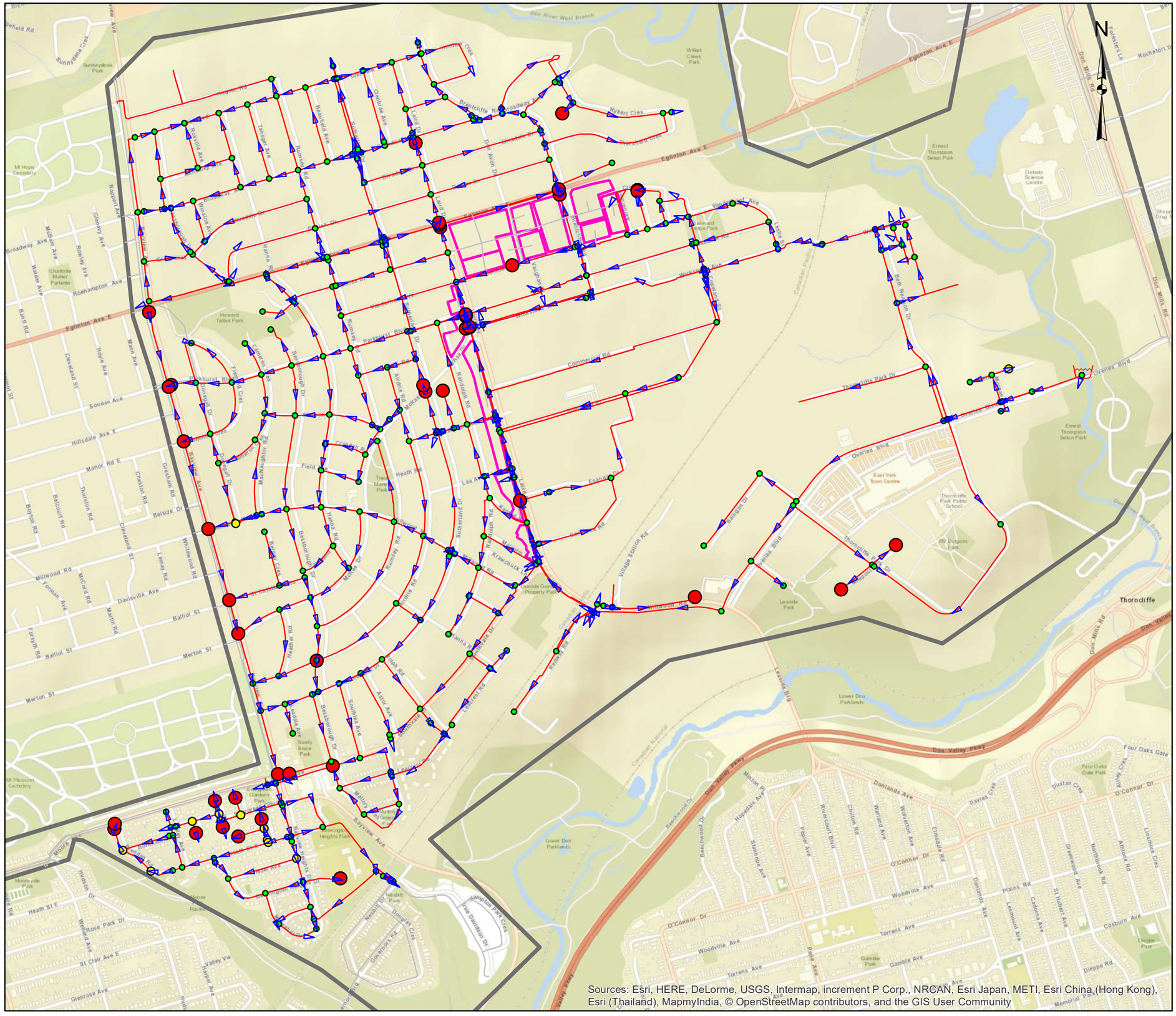
- < 40 psi
- 40 - 50 psi
- 50 -90 psi
- 90 -100 psi
- > 100 psi

Pipe

HL1000

- less than 0.00
- 0.00 ~ 1.00
- 1.00 ~ 5.00
- 5.00 ~ 10.00
- 10.00 ~ 20.76

Fig 6.
EX - Peak Hour Demand Scenario



Legend

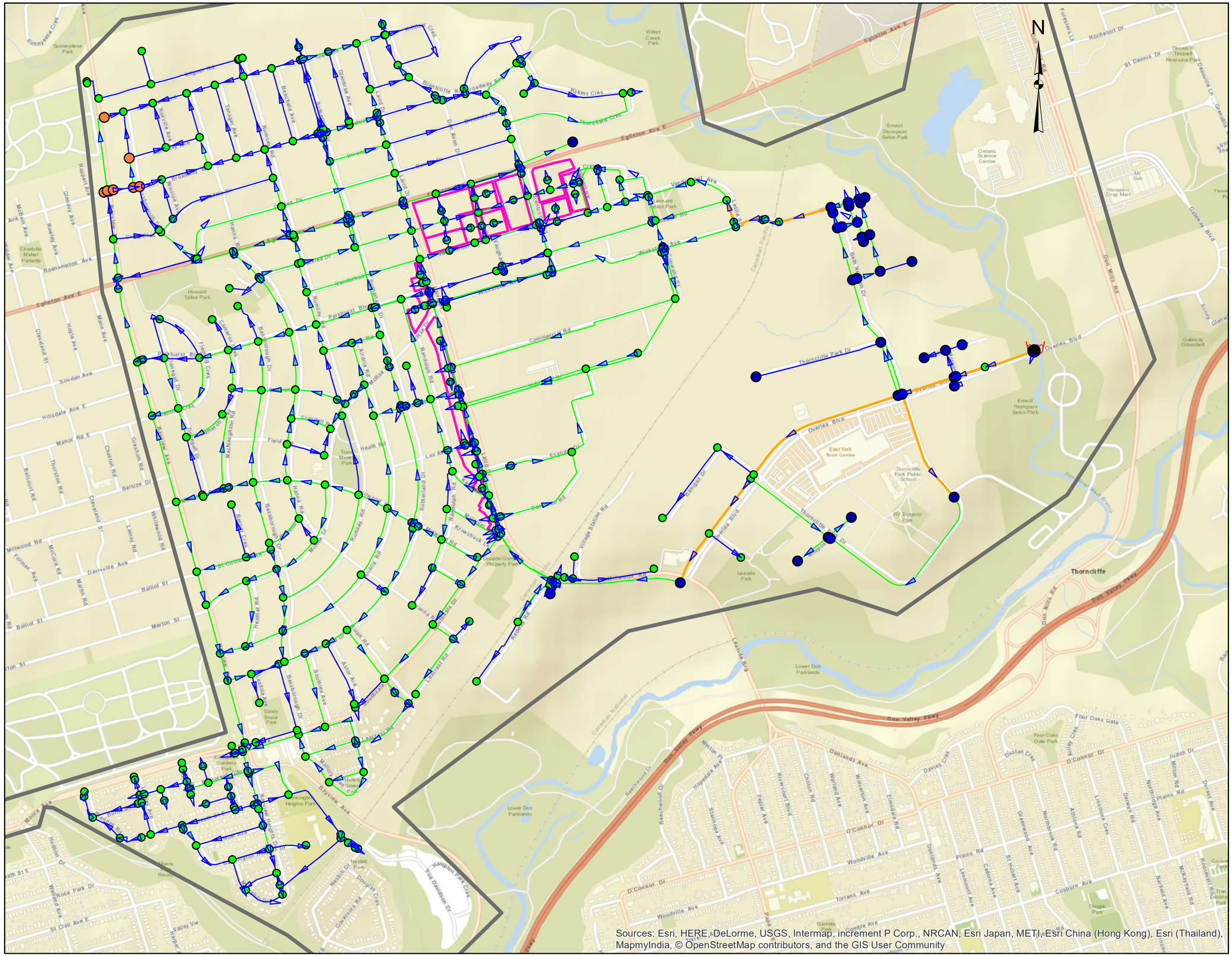
Junction

Junction.RES_FF

- Residual Fire Flow < 0 L/s
- Residual Fire Flow 0 - 5 L/s
- Residual Fire Flow > 5 L/s

Note:- At any given node the Available Flow at Hydrant must be greater than Total demand. Therefore the Residual Fire Flow at any node should be greater than Zero (indicating a greater available fire flow than what is required

Fig 7.
EX - Max Day + Fire Flow Demand Scenario



Legend

Junction

PRESSURE

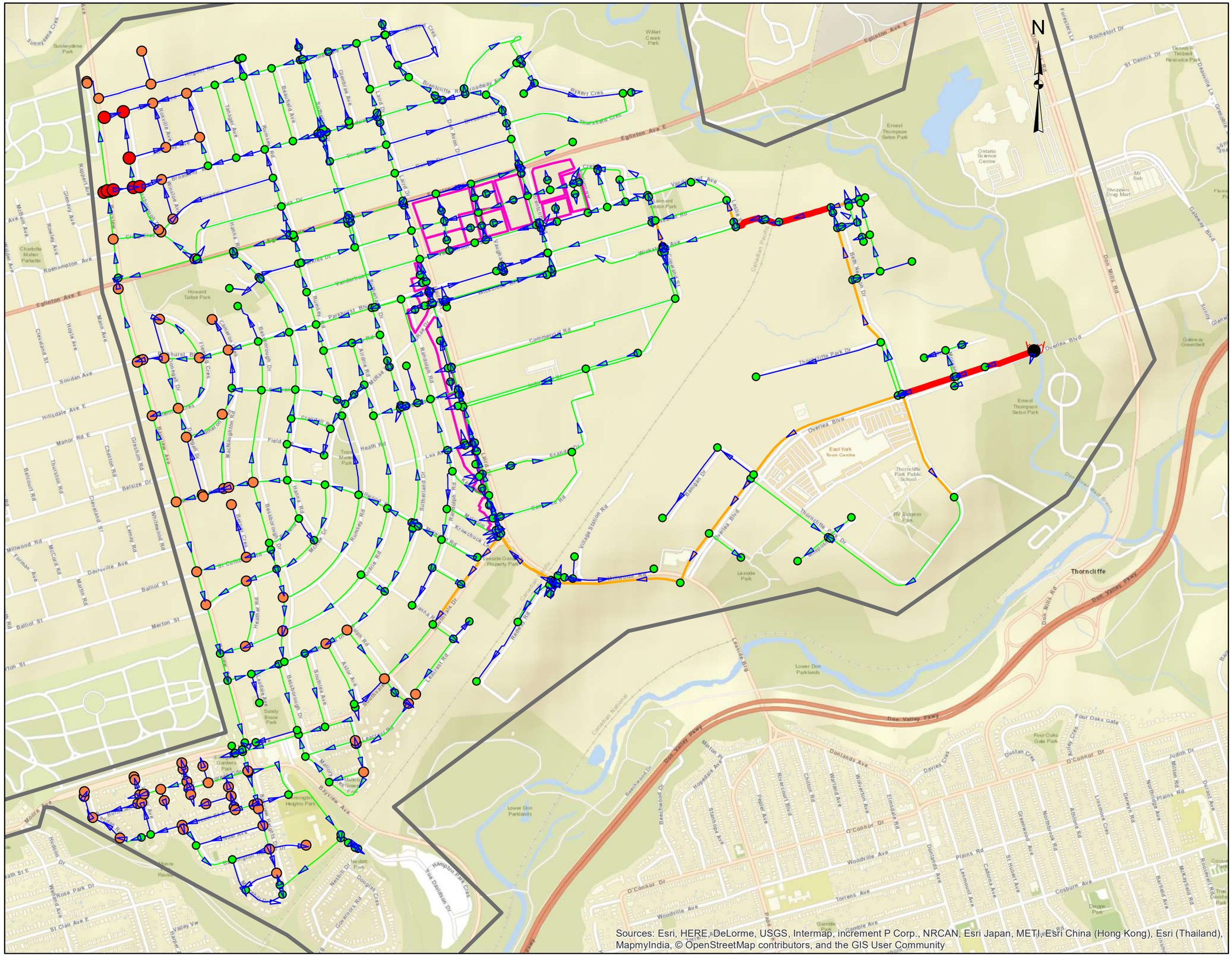
- < 40 psi
- 40 - 50 psi
- 50 -90 psi
- 90 -100 psi
- > 100 psi

Pipe

HL1000

- less than 0.00
- 0.00 ~ 1.00
- 1.00 ~ 5.00
- 5.00 ~ 10.00
- 10.00 ~ 20.76

Fig 8.
Post Dev -
Avg Day Demand
Scenario



Legend

Junction

PRESSURE

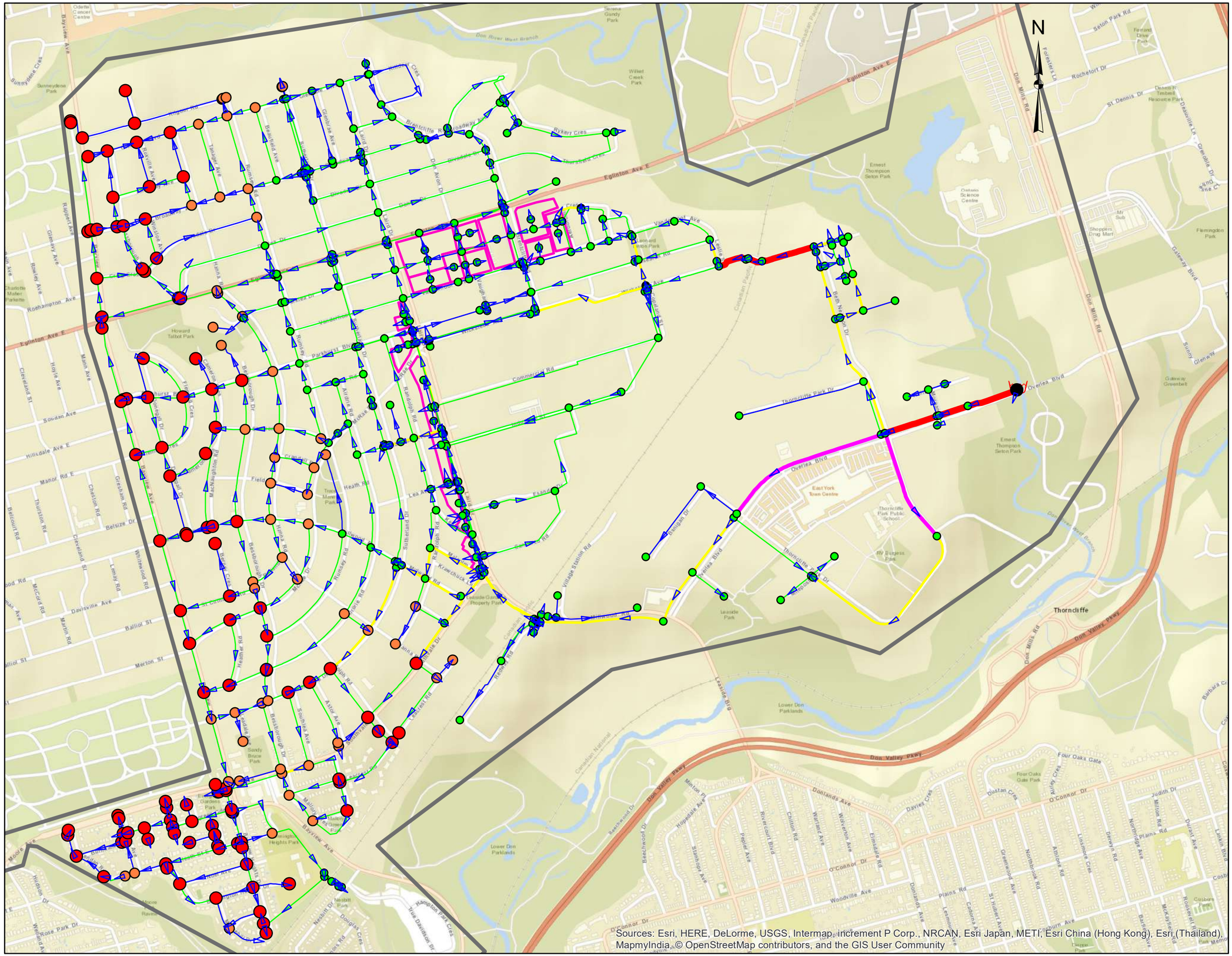
- < 40 psi
- 40 - 50 psi
- 50 -90 psi
- 90 -100 psi
- > 100 psi

Pipe

HL1000

- less than 0.00
- 0.00 ~ 1.00
- 1.00 ~ 5.00
- 5.00 ~ 10.00
- 10.00 ~ 20.76

Fig 9.
Post Dev -
Max Day Demand
Scenario



Legend

Junction

PRESSURE

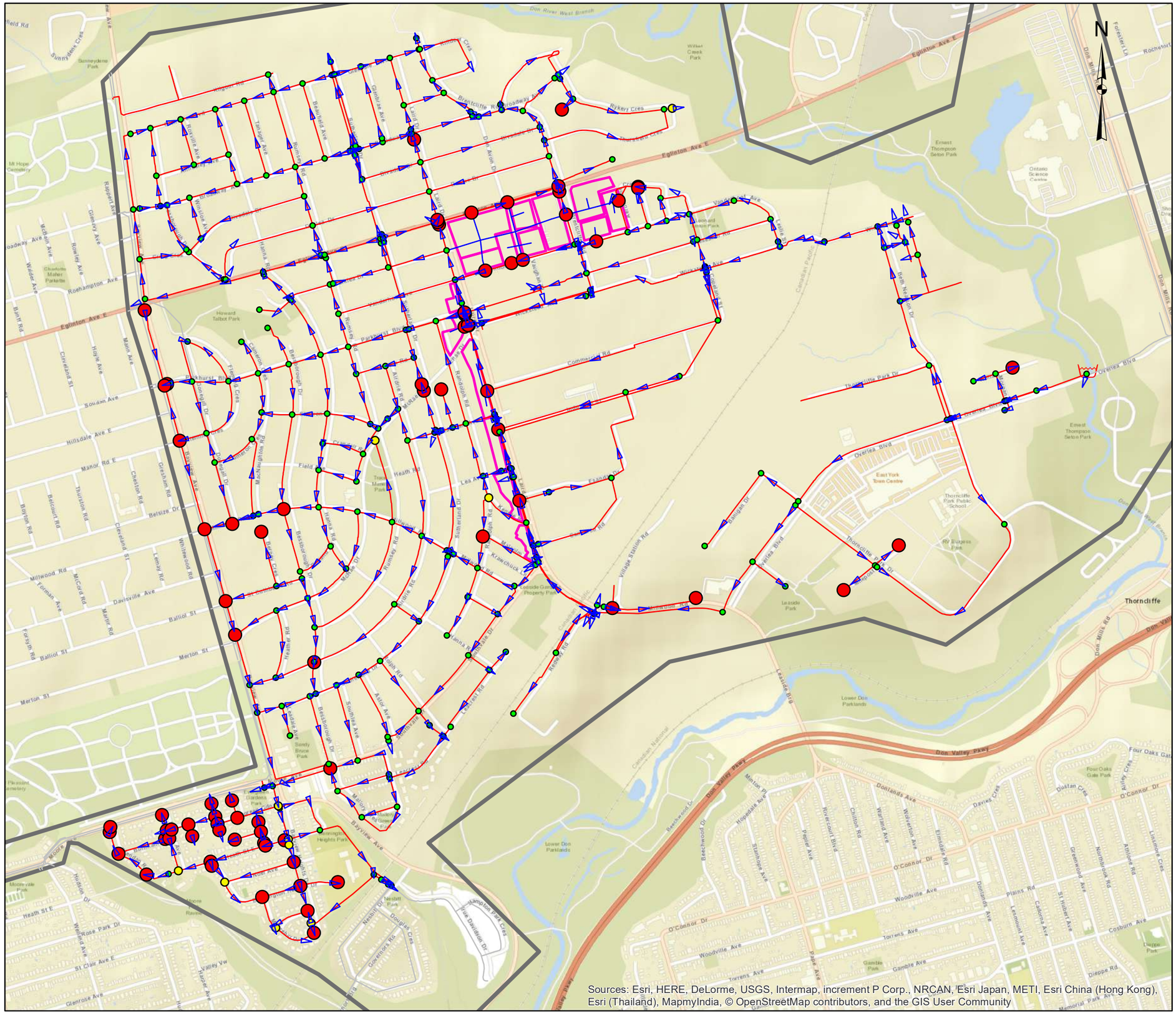
- < 40 psi
- 40 - 50 psi
- 50 -90 psi
- 90 -100 psi
- > 100 psi

Pipe

HL1000

- less than 0.00
- 0.00 ~ 1.00
- 1.00 ~ 5.00
- 5.00 ~ 10.00
- 10.00 ~ 20.76

Fig 10.
Post Dev -
Peak Hour
Demand Scenario



Legend

Junction

Junction.RES_FF

- Residual Fire Flow < 0 L/s
- Residual Fire Flow 0 - 5 L/s
- Residual Fire Flow > 5 L/s

Note:- At any given node the Available Flow at Hydrant must be greater than Total demand. Therefore the Residual Fire Flow at any node should be greater than Zero (indicating a greater available fire flow than what is required

Fig 11.
Post Dev
Max Day + Fire Flow
Demand Scenario

Legend

Pipe

<all other values>

Upgrades, Diameter

Watermain Rehab to increase Roughness Cooeff

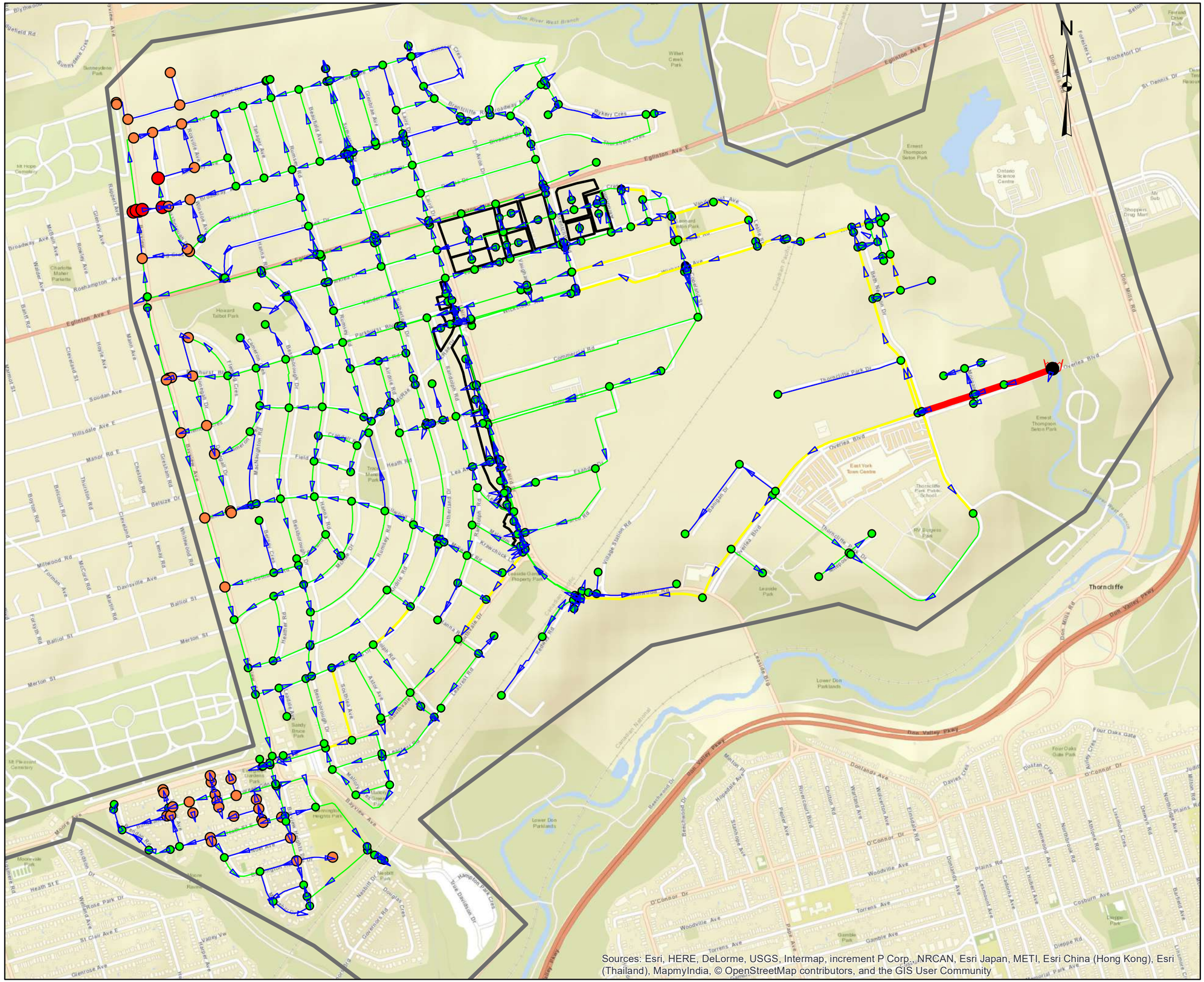
Upsizing to 400 mm

Upsizing to 300 mm

Upsizing to 200 mm

N

FIG 12. PROPOSED PIPE UPGRADES



Legend

Junction

PRESSURE

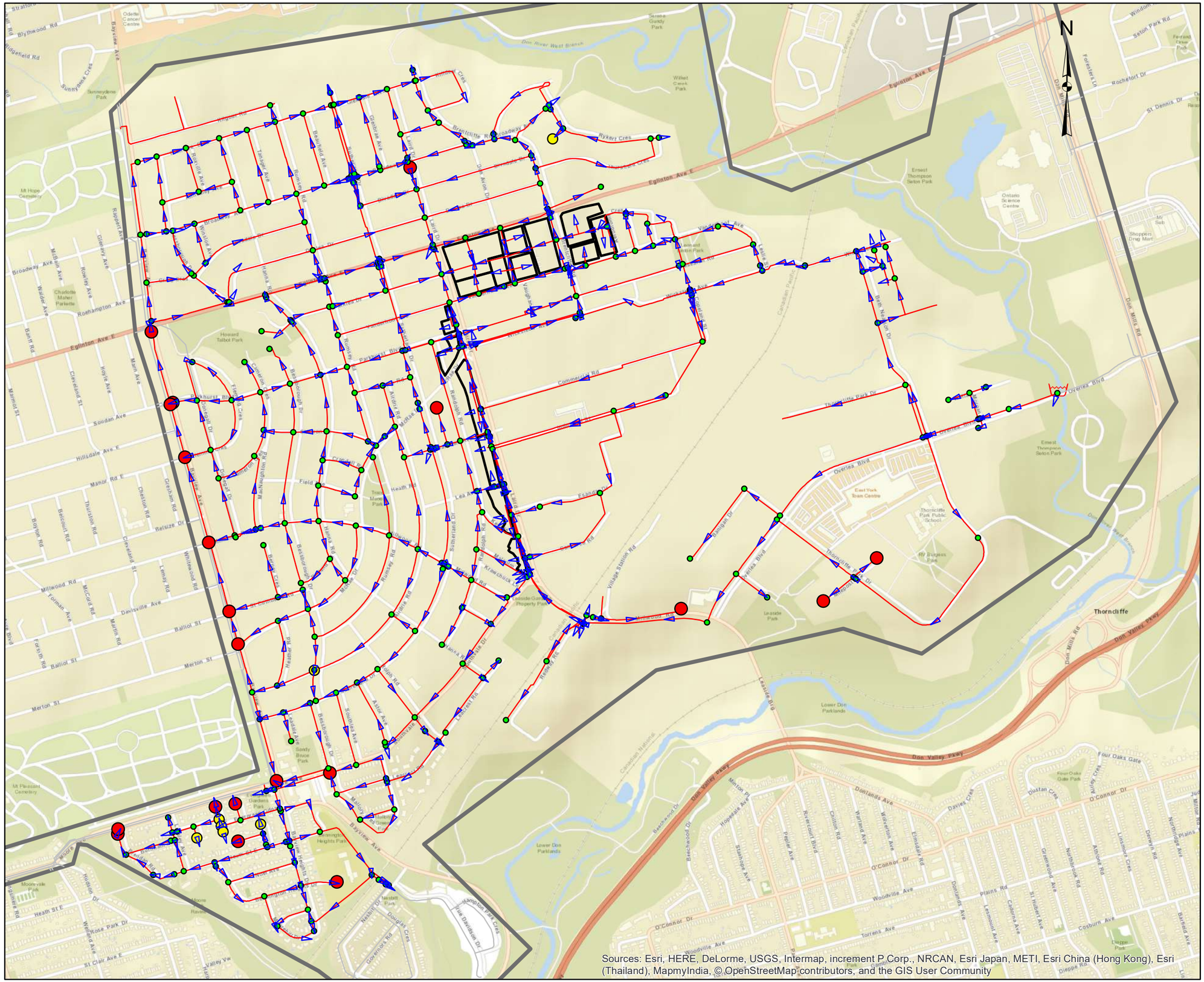
- < 40 psi
- 40 - 50 psi
- 50 -90 psi
- 90 -100 psi
- > 100 psi

Pipe

HL1000

- less than 0.00
- 0.00 ~ 1.00
- 1.00 ~ 5.00
- 5.00 ~ 10.00
- 10.00 ~ 20.76

Fig 13. Upgraded System Post Dev - Peak Hour Demand Scenario



Legend

Junction

Junction.RES_FF

- Residual Fire Flow < 0 L/s
- Residual Fire Flow 0 - 5 L/s
- Residual Fire Flow > 5 L/s

Note:- At any given node the Available Flow at Hydrant must be greater than Total demand. Therefore the Residual Fire Flow at any node should be greater than Zero (indicating a greater available fire flow than what is required

Fig 14.
Upgraded System
Post Dev
Max Day + Fire Flow
Demand Scenario

Attachment A

Fire Flow Test Analysis

NFPA 291 Extrapolation Methodology

Eglinton & Laird

Hydrant Test #1; Leaside Park Dr

Project: 17103 **Date:** 3-Aug-17
By: VP **Checked:** KCB

Date of Hydrant Test: 27-Jul-17 8:10 AM
Contractor: Aquazition
Flow Hydrant: 5 Leaside Park Dr
Residual Hydrant: 1 Leaside Park Dr

	Hydrant Test	
	Flow	Head
Data Point	L/s	psi
1	0	85
2	68	75
3	92	67

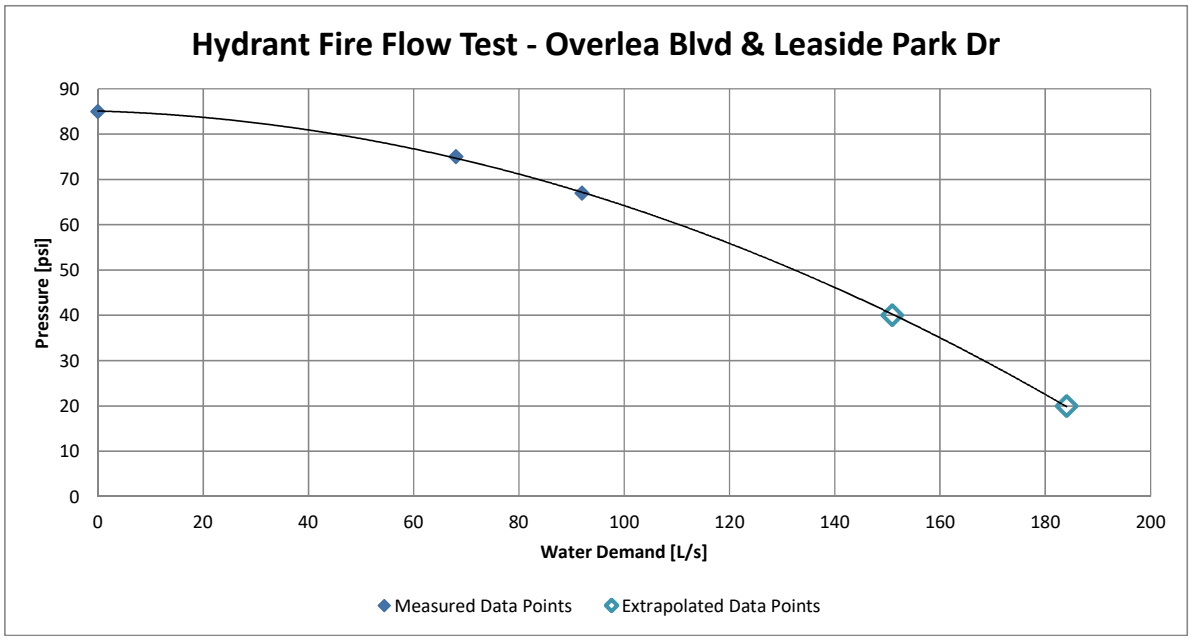
4.10.1.2 The formula that is generally used to compute the discharge at the specified residual pressure or for any desired pressure drop is Equation 4.10.1.2:

$$Q_R = Q_F \times \frac{h_r^{0.54}}{h_f^{0.54}} \qquad (4.10.1.2)$$

where:
Q_R = flow predicted at desired residual pressure
Q_F = total flow measured during test
h_r = pressure drop to desired residual pressure
h_f = pressure drop measured during test

Based on Data Point 3

Desired Pressure	Q_F	h_r	h_f	Q_R
psi	L/s	psi	psi	L/s
40	92	45	18	151
20	92	65	18	184



Fire Flow Test Analysis

NFPA 291 Extrapolation Methodology

Eglinton & Laird

Hydrant Test #2; 45 Wicksteed Ave

Project: 17103 **Date:** 3-Aug-17
By: VP **Checked:** KCB

Date of Hydrant Test: 27-Jul-17 8:35 AM
Contractor: Aquazition
Flow Hydrant: 45 Wicksteed Ave (West)
Residual Hydrant: 45 Wicksteed Ave (East)

	Hydrant Test	
Data Point	Flow L/s	Head psi
1	0	80
2	72	74
3	121	70

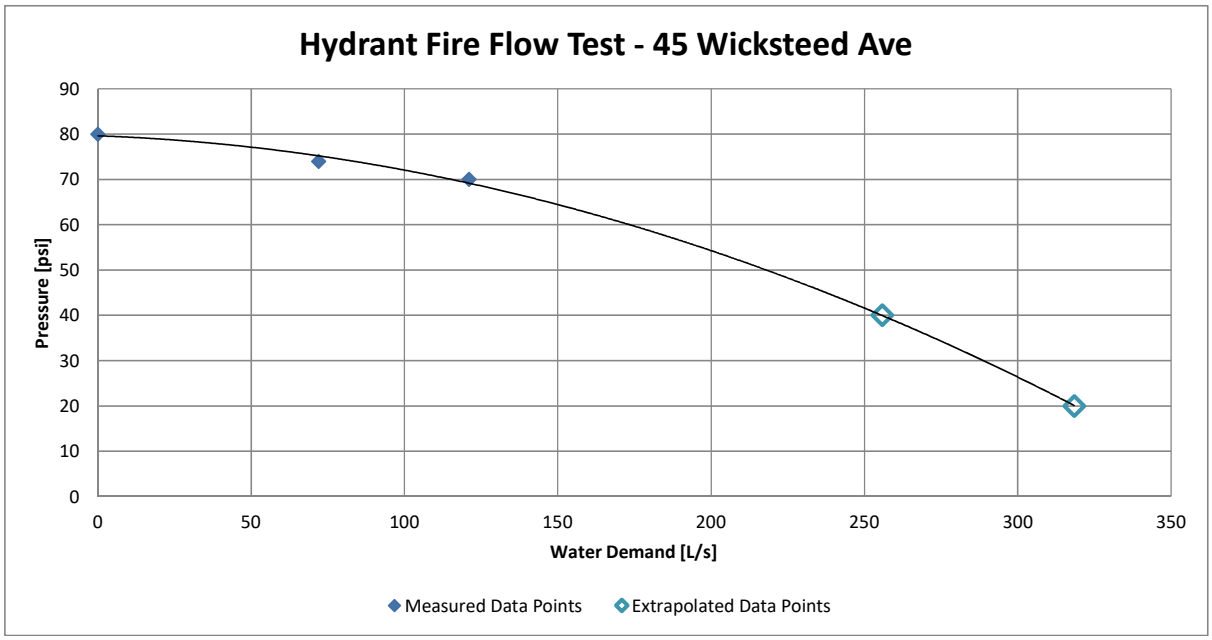
4.10.1.2 The formula that is generally used to compute the discharge at the specified residual pressure or for any desired pressure drop is Equation 4.10.1.2:

$$Q_R = Q_F \times \frac{h_r^{0.54}}{h_f^{0.54}} \qquad (4.10.1.2)$$

where:
Q_R = flow predicted at desired residual pressure
Q_F = total flow measured during test
h_r = pressure drop to desired residual pressure
h_f = pressure drop measured during test

Based on Data Point 3

Desired Pressure	Q_F	h_r	h_f	Q_R
psi	L/s	psi	psi	L/s
40	121.00	40	10	256
20	121.00	60	10	318



Fire Flow Test Analysis

NFPA 291 Extrapolation Methodology

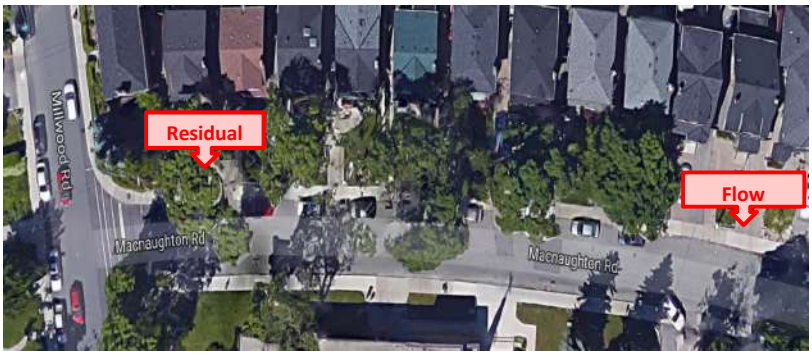
Eglinton & Laird

Hydrant Test #3; Macnaughton Rd

Project: 17103 **Date:** 3-Aug-17
By: VP **Checked:** KCB

Date of Hydrant Test: 27-Jul-17 9:30 AM
Contractor: Aquazition
Flow Hydrant: 24 Macnaughton Rd
Residual Hydrant: 4 Maughnaughtan Rd

	Hydrant Test	
Data Point	Flow L/s	Head psi
1	0	60
2	52	53
3	82	48



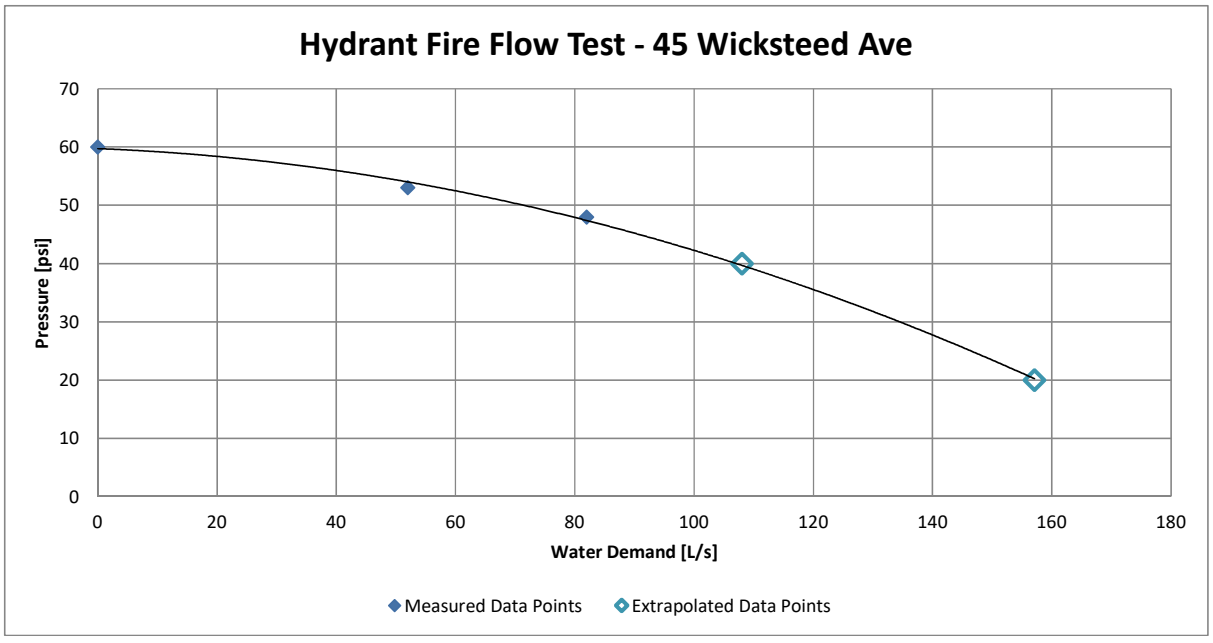
4.10.1.2 The formula that is generally used to compute the discharge at the specified residual pressure or for any desired pressure drop is Equation 4.10.1.2:

$$Q_R = Q_F \times \frac{h_r^{0.54}}{h_f^{0.54}} \qquad (4.10.1.2)$$

where:
Q_R = flow predicted at desired residual pressure
Q_F = total flow measured during test
h_r = pressure drop to desired residual pressure
h_f = pressure drop measured during test

Based on Data Point 3

Desired Pressure	Q_F	h_r	h_f	Q_R
psi	L/s	psi	psi	L/s
40	82.00	20	12	108
20	82.00	40	12	157



Fire Flow Test Analysis

NFPA 291 Extrapolation Methodology

Eglinton & Laird

Hydrant Test #4; 218 Wicksteed Ave

Project: 17103 **Date:** 3-Aug-17
By: VP **Checked:** KCB

Date of Hydrant Test: 27-Jul-17 8:55 AM
Contractor: Aquazition
Flow Hydrant: 210 Wicksteed ave
Residual Hydrant: 218 Wicksteed Ave

	Hydrant Test	
Data Point	Flow L/s	Head psi
1	0	86
2	69	76
3	114	71

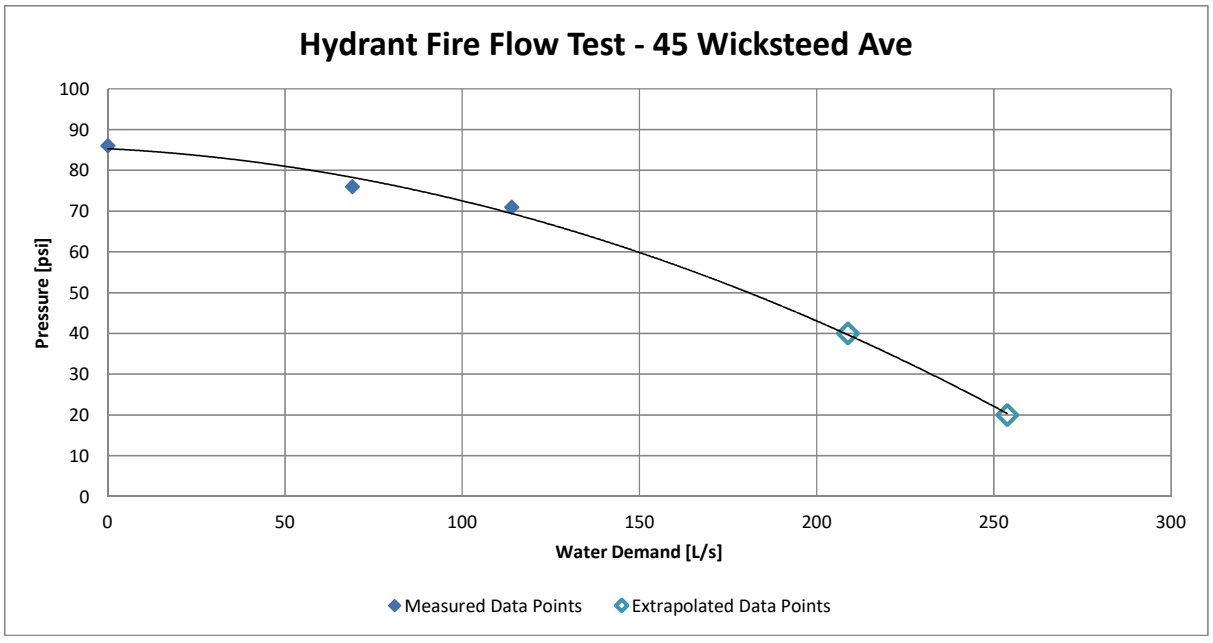
4.10.1.2 The formula that is generally used to compute the discharge at the specified residual pressure or for any desired pressure drop is Equation 4.10.1.2:

$$Q_R = Q_F \times \frac{h_r^{0.54}}{h_f^{0.54}} \qquad (4.10.1.2)$$

where:
Q_R = flow predicted at desired residual pressure
Q_F = total flow measured during test
h_r = pressure drop to desired residual pressure
h_f = pressure drop measured during test

Based on Data Point 3

Desired Pressure	Q_F	h_r	h_f	Q_R
psi	L/s	psi	psi	L/s
40	114.00	46	15	209
20	114.00	66	15	254



Fire Flow Test Analysis

NFPA 291 Extrapolation Methodology

Eglinton & Laird

Hydrant Test #4; Bessborough Dr

Project: 17103 **Date:** 3-Aug-17
By: VP **Checked:** KCB

Date of Hydrant Test: 27-Jul-17 10:00 AM
Contractor: Aquazition
Flow Hydrant: 331 Bessborough Dr
Residual Hydrant: 297 Bessborough Dr

	Hydrant Test	
Data Point	Flow L/s	Head psi
1	0	51
2	38	44
3	42	43

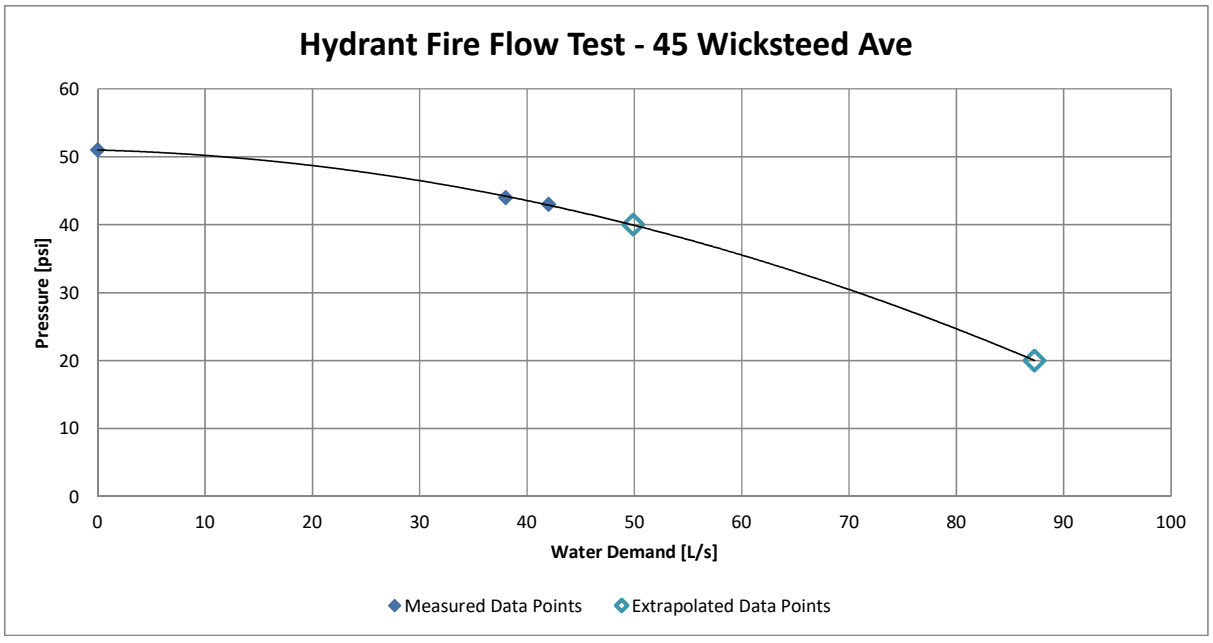
4.10.1.2 The formula that is generally used to compute the discharge at the specified residual pressure or for any desired pressure drop is Equation 4.10.1.2:

$$Q_R = Q_F \times \frac{h_r^{0.54}}{h_f^{0.54}} \qquad (4.10.1.2)$$

where:
Q_R = flow predicted at desired residual pressure
Q_F = total flow measured during test
h_r = pressure drop to desired residual pressure
h_f = pressure drop measured during test

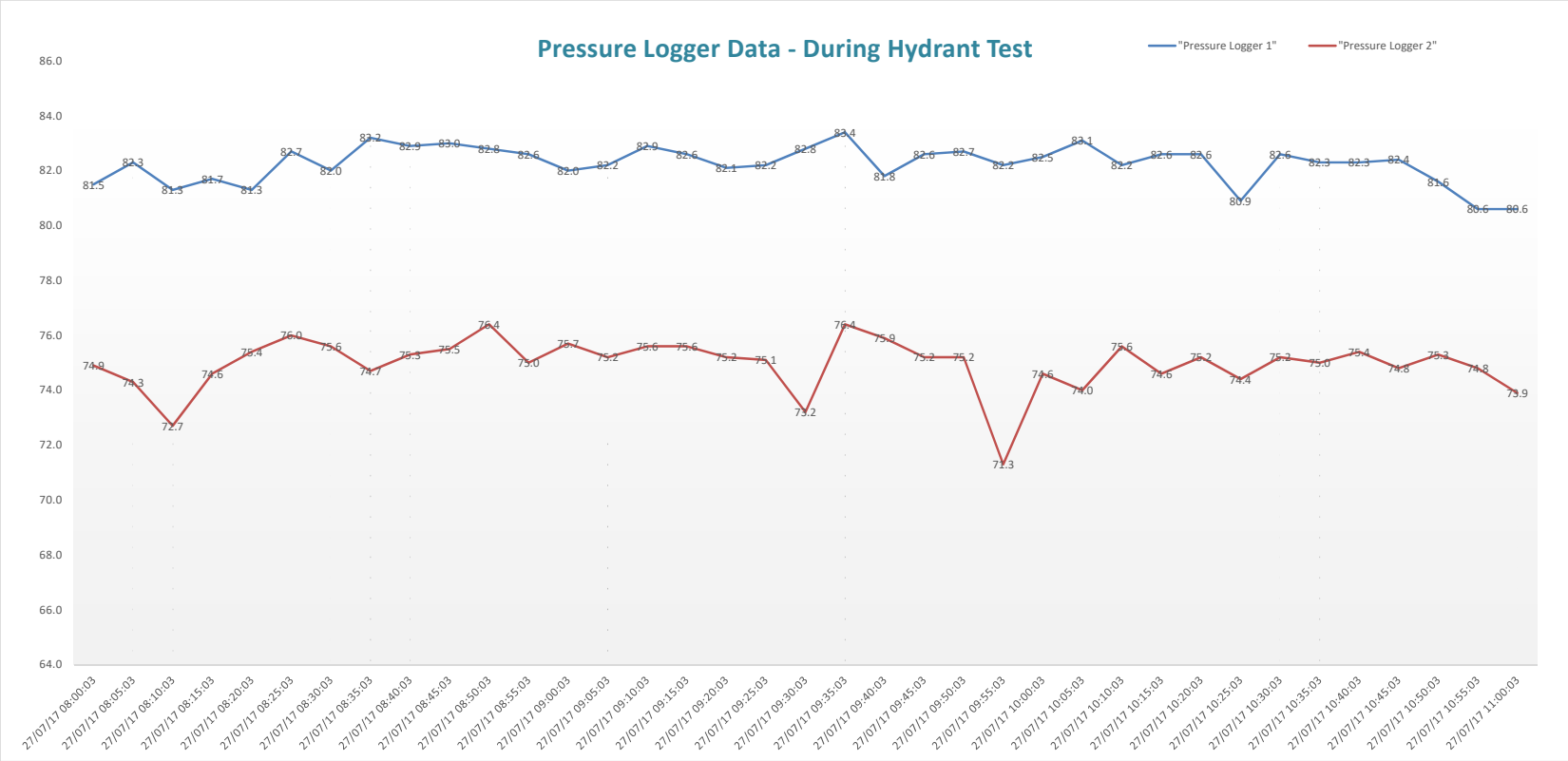
Based on Data Point 3

Desired Pressure psi	Q_F L/s	h_r psi	h_f psi	Q_R L/s
40	42.00	11	8	50
20	42.00	31	8	87



Attachment B

Attachment B



Attachment C

Attachment C

EGLINTION & LAIRD INTENSIFICATION
Model Calibration Table

Project: 17103 **Date:** 11-Aug-17
By: VP **Checked:** KCB

Pressure Logger 1	
ID	J16
Elevation (m)	128
Field Test Static Head (m)	186
Field Test Static Pressure (psi)	83
Calibrated Model Head (m)	192
Calibrated Model Pressure (psi)	90

Pressure Logger 2	
ID	J16
Elevation (m)	131
Field Test Static Head (m)	184
Field Test Static Pressure (psi)	75
Calibrated Model Head (m)	187
Calibrated Model Pressure (psi)	79

Fire Hydrant Test 1	
ID	WJ3000758
Elevation (m)	127
Field Test Max Flow (l/s)	92
Field Test Max flow Head (m)	174
Field Test Static Pressure (psi)	67
Calibrated Model Head (m)	180
Calibrated Model Pressure (psi)	75

Fire Hydrant Test 2	
ID	WJ3001072
Elevation (m)	130
Field Test Max Flow (l/s)	121
Field Test Max flow Head (m)	179
Field Test Static Pressure (psi)	70
Calibrated Model Head (m)	174
Calibrated Model Pressure (psi)	63

Fire Hydrant Test 3	
ID	WJ3000563
Elevation (m)	147
Field Test Max Flow (l/s)	82
Field Test Max flow Head (m)	180
Field Test Static Pressure (psi)	48
Calibrated Model Head (m)	177
Calibrated Model Pressure (psi)	44

Fire Hydrant Test 4	
ID	WJ38171
Elevation (m)	127
Field Test Max Flow (l/s)	114
Field Test Max flow Head (m)	177
Field Test Static Pressure (psi)	71
Calibrated Model Head (m)	177
Calibrated Model Pressure (psi)	70

Fire Hydrant Test 5	
ID	WJ3000097
Elevation (m)	154
Field Test Max Flow (l/s)	42
Field Test Max flow Head (m)	184
Field Test Static Pressure (psi)	43
Calibrated Model Head (m)	183
Calibrated Model Pressure (psi)	41

Refer Fig.1 For location of Loggers and fire flow test

Attachment D

Attachment D

17103 - Eglinton Laird Intensification Water Modelling - Jan 2018- Ex System Average Day Demand Run				
ID	Demand (L/s)	Elevation (m)	Head (m)	Pressure (psi)
WJ4018275	0	158.22	191.15	46.8
WJ3000094	0.34	157.83	191.15	47.4
WJ31211	0	157.5	191.15	47.8
WJ3000095	0.02	157.31	191.15	48.1
WJ3000011	0.16	155.74	191.15	50.3
WJ3000096	0.06	155.02	191.15	51.4
WJ3000097	0.08	154.19	191.15	52.5
WJ3000432	0.25	154.11	191.15	52.7
WJ3000433	0.12	153.32	191.15	53.8
WJ3000030	0.31	150.95	191.15	57.2
WJ56006	0	150.93	191.15	57.2
WJ3000029	0.32	150.84	191.15	57.3
WJ3000434	0.19	150.76	191.15	57.4
WJ31228	0	150.5	191.16	57.8
WJ3000055	0.1	150.32	191.15	58.1
WJ52820	0	150	190.98	58.3
WJ52818	0.08	149.95	190.98	58.3
WJ3000791	0.03	150.12	191.16	58.3
WJ3000212	0.59	150.06	191.15	58.4
WJ3000278	0.07	149.86	191.15	58.7
WJ23834	0.26	149.81	191.16	58.8
WJ3000098	0.13	149.75	191.15	58.9
WJ14740	0.03	149.4	190.98	59.1
WJ23835	0.27	149.54	191.16	59.2
WJ55511	0	149.24	191.15	59.6
WJ3000028	0.28	148.91	191.15	60.1
WJ23838	0.24	148.74	191.16	60.3
WJ3000012	0.22	148.62	191.15	60.5
WJ3000350	0.03	148.06	190.98	61.0
WJ23837	0.21	148.18	191.16	61.1
WJ3000031	0.16	147.96	190.98	61.1
WJ55513	0	148.12	191.15	61.2
WJ52814	0.03	147.9	190.98	61.2
WJ52782	0.02	147.82	190.98	61.4
WJ3000351	0.02	147.81	190.98	61.4
WJ52806	0.02	147.8	190.98	61.4
WJ52813	0.14	147.8	190.98	61.4
WJ3000289	0.19	147.96	191.16	61.4
WJ52781	0	147.7	190.98	61.5
WJ52784	0	147.7	190.98	61.5
WJ3001142	0.05	147.68	190.98	61.6
WJ3000756	0.01	147.66	190.98	61.6
WJ31227	0.05	147.81	191.16	61.6

Attachment D

17103 - Eglinton Laird Intensification Water Modelling - Jan 2018- Ex System Average Day Demand Run				
ID	Demand (L/s)	Elevation (m)	Head (m)	Pressure (psi)
WJ300002	0.45	147.77	191.14	61.7
WJ300049	0.03	147.57	190.98	61.7
WJ300035	0.07	147.48	190.98	61.8
WJ401823	0	147.52	191.15	62.0
WJ55837	0	147.4	191.15	62.2
WJ52804	0.02	147.2	190.98	62.2
WJ300004	0.04	147.19	190.97	62.2
WJ300109	0.05	147.14	190.98	62.3
WJ300049	0	147.08	190.98	62.4
WJ300034	0.07	147.02	190.98	62.5
WJ52807	0.08	147	190.98	62.5
WJ300079	0.31	147.05	191.16	62.7
WJ52809	0.05	146.8	190.98	62.8
WJ300057	0.27	146.9	191.13	62.9
WJ300039	0.03	146.64	190.98	63.0
WJ300027	0.26	146.66	191.15	63.3
WJ300003	0.12	146.45	190.97	63.3
WJ300097	0.24	146.57	191.1	63.3
WJ300056	0.14	146.55	191.16	63.4
WJ300057	0.21	146.48	191.13	63.5
WJ300062	0.05	146.46	191.16	63.5
WJ52803	0.02	146.18	190.98	63.7
WJ300097	0.19	146.18	191.1	63.9
WJ300000	0.23	146.1	191.13	64.0
WJ300056	0.16	145.98	191.04	64.1
WJ300124	0.07	146.06	191.13	64.1
WJ300088	0.39	146.06	191.14	64.1
WJ52787	0.01	145.8	190.98	64.2
WJ300005	0.13	145.74	190.98	64.3
WJ300079	0.22	145.89	191.16	64.4
WJ14604	0.03	145.6	190.98	64.5
WJ52786	0.05	145.6	190.98	64.5
WJ300004	0.04	145.42	191.14	65.0
WJ300005	0.29	145.43	191.16	65.0
WJ300011	0.27	145.4	191.16	65.1
WJ14724	0.07	145.2	190.98	65.1
WJ300053	0.19	145.25	191.05	65.1
WJ300011	0.09	145.22	191.16	65.3
WJ300087	0.3	145.1	191.1	65.4
WJ300002	0.02	144.89	190.98	65.5
WJ300053	0.13	144.93	191.05	65.6
WJ51871	0.25	145.01	191.15	65.6
WJ54892	0.23	144.91	191.07	65.6

Attachment D

17103 - Eglinton Laird Intensification Water Modelling - Jan 2018- Ex System Average Day Demand Run				
ID	Demand (L/s)	Elevation (m)	Head (m)	Pressure (psi)
WJ3000046	0.4	144.9	191.14	65.7
WJ3000435	0.16	144.83	191.15	65.9
WJ3000013	0.17	144.81	191.15	65.9
WJ14675	0.1	144.6	190.98	65.9
WJ3000002	0.21	144.72	191.13	66.0
WJ3000539	0.13	144.65	191.08	66.0
WJ3000054	0.1	144.7	191.16	66.0
WJ3000116	0.17	144.66	191.16	66.1
WJ3000035	0.09	144.43	190.97	66.2
WJ3000874	0.05	144.48	191.08	66.3
WJ51947	0	144.5	191.15	66.3
WJ3000332	0.29	144.5	191.15	66.3
WJ51882	0.03	144.5	191.16	66.3
WJ51883	0.24	144.5	191.16	66.3
WJ3000580	0.17	144.34	191.14	66.5
WJ57286	0.21	144	190.97	66.8
WJ17209	0	144	190.99	66.8
WJ17210	0.28	144	190.99	66.8
WJ52780	0	143.98	190.99	66.8
WJ3000043	0.19	143.95	190.97	66.9
WJ1018244	0	143.93	190.99	66.9
WJ3000042	0.22	143.92	190.98	66.9
WJ3000970	0.2	144.01	191.1	66.9
WJ3000024	0.06	143.9	190.99	66.9
WJ3000001	0.24	144.02	191.12	67.0
WJ3000478	0.25	143.99	191.12	67.0
WJ3000851	0.11	143.97	191.2	67.1
WJ3000794	0.19	143.91	191.16	67.2
WJ14729	0	143.6	190.98	67.4
WJ14744	0.09	143.6	190.98	67.4
WJ3000049	0.22	143.65	191.15	67.5
WJ3000034	0.16	143.47	190.97	67.5
WJ3000048	0.04	143.48	191.14	67.8
WJ52792	0.01	143.4	191.11	67.8
WJ3000540	0.17	143.34	191.1	67.9
WJ3000099	0.15	143.34	191.15	68.0
WJ3000479	0.28	143.32	191.14	68.0
WJ3000536	0.17	143.19	191.04	68.0
WJ3000568	0.08	143.18	191.04	68.0
WJ3000969	0.06	143.19	191.11	68.1
WJ3000480	0.37	143.15	191.14	68.2
WJ3000968	0.19	143.07	191.11	68.3
WJ1018241	0.48	143.04	191.11	68.3

Attachment D

17103 - Eglinton Laird Intensification Water Modelling - Jan 2018- Ex System Average Day Demand Run				
ID	Demand (L/s)	Elevation (m)	Head (m)	Pressure (psi)
WJ300005	0.26	143.06	191.16	68.4
WJ300096	0.1	142.75	191.11	68.8
WJ300001	0.19	142.65	191.1	68.9
WJ300001	0.01	142.63	191.1	68.9
WJ52810	0.09	142.48	190.98	68.9
WJ300064	0.21	142.35	191.05	69.2
WJ300096	0.5	142.4	191.11	69.3
WJ300062	0.23	141.99	191.16	69.9
WJ300048	0.08	141.8	190.98	69.9
WJ300048	0.37	141.88	191.15	70.0
WJ300064	0.15	141.69	190.97	70.1
WJ300054	0.06	141.65	191.11	70.3
WJ300056	0.07	141.53	191.02	70.4
WJ300054	0.08	141.47	191.1	70.6
WJ300064	0.17	141.07	191.11	71.1
WJ300010	0.23	141.07	191.15	71.2
WJ300091	0.23	141.03	191.16	71.3
WJ300048	0.14	140.92	191.16	71.4
WJ300048	0.13	140.83	191.16	71.6
WJ300058	0.23	140.66	191.15	71.8
WJ300043	0.22	140.45	191.15	72.1
WJ51894	0.14	140.2	191.16	72.4
WJ51914	0.04	140.2	191.16	72.4
WJ14608	0.04	138.8	190.98	74.2
WJ300010	0.24	138.56	191.15	74.8
WJ300005	0.03	138.16	191.16	75.3
WJ300058	0.23	137.94	191.16	75.7
WJ300080	0.21	137.93	191.16	75.7
WJ55845	0	137.9	191.15	75.7
WJ55851	0.01	137.9	191.15	75.7
WJ300043	0.21	137.87	191.15	75.7
WJ55852	0	137.8	191.15	75.9
WJ300058	0.1	137.72	191.16	76.0
WJ300079	0.28	137.56	191.17	76.2
WJ300028	0.33	137.35	191.15	76.5
WJ300085	0.2	137.25	191.2	76.7
WJ300037	0.06	137.19	191.16	76.7
WJ300088	0.09	137.15	191.17	76.8
WJ300043	0.25	137	191.15	77.0
WJ300097	0	137.01	191.15	77.0
WJ300080	0.11	136.93	191.16	77.1
WJ300097	0	136.92	191.15	77.1
WJ300092	0.16	136.9	191.17	77.1

Attachment D

17103 - Eglinton Laird Intensification Water Modelling - Jan 2018- Ex System Average Day Demand Run				
ID	Demand (L/s)	Elevation (m)	Head (m)	Pressure (psi)
WJ3000102	0.24	136.57	191.15	77.6
WJ3000923	0.15	136.54	191.19	77.7
WJ3000803	0.08	136.47	191.16	77.8
WJ3000441	0.03	136.43	191.15	77.8
WJ3000440	0.06	136.35	191.15	77.9
WJ3000439	0.12	136.33	191.15	77.9
WJ3000584	0.04	136.13	191.17	78.2
WJ3000334	0.03	135.9	191.16	78.6
WJ51898	0.13	135.9	191.16	78.6
WJ51908	0.09	135.9	191.16	78.6
WJ3000442	0.2	135.82	191.15	78.7
WJ3000315	0.5	135.59	191.16	79.0
WJ56380	0.05	135.59	191.15	79.0
WJ56382	0.07	135.59	191.15	79.0
WJ56384	0.03	135.57	191.15	79.0
WJ56385	0.04	135.57	191.15	79.0
WJ56387	0	135.57	191.15	79.0
WJ56388	0	135.57	191.15	79.0
WJ56389	0.08	135.57	191.15	79.0
WJ51892	0.04	135.5	191.16	79.1
WJ56391	0	135.41	191.15	79.2
WJ3000281	0.14	135.36	191.15	79.3
WJ56431	0.04	135.25	191.15	79.5
WJ3000886	0.34	135.26	191.17	79.5
WJ3000924	0.5	135.3	191.22	79.5
WJ3000331	0.33	135.2	191.16	79.6
WJ3000796	0.21	135.19	191.17	79.6
WJ3000853	0.61	135.22	191.2	79.6
WJ51910	0.12	135.1	191.16	79.7
WJ51936	0.11	135.1	191.16	79.7
WJ51937	0.08	135.1	191.16	79.7
WJ3000626	0.57	135.09	191.17	79.7
WJ3000805	0.11	135.01	191.16	79.8
WJ3000885	0.19	135.01	191.17	79.8
WJ51893	0.01	135	191.16	79.8
WJ3000443	0.13	134.94	191.15	79.9
WJ3000585	0.02	134.8	191.17	80.1
WJ3000806	0.14	134.79	191.16	80.1
WJ53257	0.07	134.6	191.18	80.4
WJ53252	0.17	134.59	191.18	80.4
WJ53255	0.09	134.6	191.19	80.4
WJ56394	0.13	134.54	191.15	80.5
WJ56400	0.02	134.54	191.15	80.5

Attachment D

17103 - Eglinton Laird Intensification Water Modelling - Jan 2018- Ex System Average Day Demand Run				
ID	Demand (L/s)	Elevation (m)	Head (m)	Pressure (psi)
WJ56401	0.04	134.54	191.15	80.5
WJ53253	0.27	134.5	191.19	80.6
WJ300035	0.17	134.42	191.15	80.6
WJ300007	0.01	134.32	191.15	80.8
WJ300044	0.07	134.28	191.15	80.8
WJ300000	0.56	134.25	191.17	80.9
WJ300044	0.2	134.16	191.15	81.0
WJ56393	0.08	134.15	191.15	81.0
WJ56421	0.13	134.15	191.15	81.0
WJ300085	0.22	134.17	191.22	81.1
WJ300000	0.15	133.89	191.17	81.4
WJ300057	0.29	133.89	191.18	81.4
WJ300007	0.65	133.61	191.15	81.8
WJ300028	0.43	133.45	191.15	82.0
WJ22402	0.19	133.38	191.17	82.2
WJ300031	0.54	133.26	191.16	82.3
WJ300035	0.1	133.17	191.15	82.4
WJ300080	0.21	132.93	191.16	82.8
WJ51918	0.9	132.9	191.16	82.8
WJ300011	0	132.96	191.25	82.9
WJ300011	0.01	132.93	191.25	82.9
WJ56395	0.11	132.82	191.15	82.9
WJ56397	0.04	132.82	191.15	82.9
WJ51919	0.04	132.8	191.16	83.0
WJ56399	0.05	132.65	191.15	83.2
WJ300012	0.27	132.72	191.25	83.2
WJ300051	0.07	132.67	191.24	83.3
WJ51921	0.07	132.5	191.16	83.4
WJ300052	0	132.53	191.25	83.5
WJ300053	0	132.53	191.25	83.5
WJ300085	0.15	132.5	191.23	83.5
WJ300052	0.17	132.32	191.25	83.8
WJ22421	0.12	132.24	191.18	83.8
WJ300052	0	132.29	191.25	83.8
WJ300116	0.1	131.99	190.98	83.9
WJ300092	0.16	132.24	191.25	83.9
WJ300034	0.99	132.15	191.24	84.0
WJ300080	0.14	132	191.17	84.1
WJ300097	0.16	131.95	191.2	84.2
WJ300079	0.16	131.93	191.18	84.2
WJ300097	0.04	131.82	191.18	84.4
WJ300052	0.17	131.81	191.23	84.5
WJ300097	0.03	131.75	191.18	84.5

Attachment D

17103 - Eglinton Laird Intensification Water Modelling - Jan 2018- Ex System Average Day Demand Run				
ID	Demand (L/s)	Elevation (m)	Head (m)	Pressure (psi)
WJ53264	0.02	131.56	191.18	84.8
WJ53269	0.02	131.56	191.19	84.8
WJ53276	0.04	131.56	191.18	84.8
WJ53277	0.25	131.56	191.18	84.8
WJ26595	0.01	131.56	191.23	84.8
WJ26596	0	131.56	191.23	84.8
WJ26597	0.12	131.56	191.23	84.8
WJ26598	0	131.56	191.23	84.8
WJ3000535	0.04	131.56	191.23	84.8
WJ3000798	0.55	131.49	191.19	84.9
WJ3000995	0.28	131.48	191.19	84.9
WJ3001068	0.14	131.5	191.21	84.9
J90	0	131.5	191.23	84.9
J74	0	131.5	191.24	84.9
J86	0	131.3	191.19	85.1
WJ3001165	0.09	131.37	191.29	85.2
WJ3000346	0.47	131.29	191.24	85.2
WJ3000573	0.04	130.95	191.2	85.6
J38	0	130.84	191.19	85.8
WJ3000799	0.01	130.85	191.2	85.8
WJ3000800	0.07	130.86	191.2	85.8
WJ3001181	0.14	130.85	191.2	85.8
WJ3000528	0.08	130.81	191.2	85.9
WJ3001074	0.07	130.6	191.21	86.2
WJ3001069	0.31	130.59	191.21	86.2
WJ3001238	0.08	130.58	191.23	86.2
WJ3000501	0.15	130.56	191.23	86.3
J64	0	130.44	191.21	86.4
WJ3000347	0.33	130.42	191.24	86.5
J36	0	130.3	191.16	86.5
WJ3000574	0.5	130.34	191.21	86.5
WJ3001245	0	130.28	191.21	86.6
WJ3000996	0.17	130.23	191.19	86.7
WJ3001169	0.01	130.01	190.98	86.7
WJ55196	0.2	130.18	191.15	86.7
WJ3001249	0	130.13	191.21	86.8
WJ3001071	0	130.12	191.21	86.8
WJ3000530	0.01	130.13	191.23	86.9
WJ3001075	0	130.11	191.21	86.9
WJ3000575	0.01	130.12	191.23	86.9
WJ26594	0.14	130.09	191.23	86.9
WJ3000532	0.01	130.09	191.23	86.9
WJ3001072	0.02	130.04	191.21	87.0

Attachment D

17103 - Eglinton Laird Intensification Water Modelling - Jan 2018- Ex System Average Day Demand Run				
ID	Demand (L/s)	Elevation (m)	Head (m)	Pressure (psi)
WJ300125	0	130.04	191.21	87.0
WJ14629	0	129.8	190.98	87.0
WJ300124	0	129.96	191.21	87.1
WJ300080	0	129.94	191.21	87.1
WJ300007	0.05	129.85	191.15	87.2
J44	0	129.84	191.16	87.2
WJ300016	0.47	129.82	191.22	87.3
WJ38309	0.31	129.6	191.21	87.6
WJ38310	0.15	129.58	191.21	87.6
WJ300007	0.09	129.49	191.15	87.7
J40	0	129.44	191.19	87.8
WJ27674	0	129.38	191.21	87.9
WJ300115	0	129.44	191.3	87.9
WJ51927	0.37	129.3	191.16	87.9
WJ300006	0	129.29	191.21	88.0
WJ300006	0	129.15	191.21	88.2
WJ300006	0.32	129.08	191.15	88.2
WJ300006	0.06	129.13	191.2	88.3
J42	0	129.03	191.17	88.3
WJ300006	0.34	129.06	191.2	88.3
WJ51923	0	129	191.16	88.4
WJ51925	0.31	129	191.16	88.4
WJ300028	0.31	128.88	191.15	88.5
WJ300116	0.03	129.02	191.29	88.5
WJ300006	0.03	128.93	191.21	88.5
WJ300085	0.07	128.92	191.21	88.5
WJ300124	0	128.93	191.21	88.5
WJ300006	0.31	128.8	191.16	88.7
WJ300006	0.35	128.77	191.16	88.7
WJ300050	0.79	128.75	191.24	88.8
WJ300086	0.04	128.6	191.15	88.9
WJ55201	0.05	128.42	191.15	89.2
WJ56502	0.15	128.41	191.15	89.2
J48	0	128.43	191.21	89.3
WJ55199	0.03	128.27	191.15	89.4
WJ27615	0.23	128.26	191.22	89.5
WJ300086	0.24	128.13	191.15	89.6
WJ27574	0.29	128.18	191.22	89.6
WJ300051	0.11	128.15	191.24	89.7
WJ27614	0.06	128.09	191.22	89.7
J46	0	128.02	191.22	89.8
WJ27575	0.34	128.02	191.22	89.8
WJ27595	0.28	128.02	191.22	89.8

Attachment D

17103 - Eglinton Laird Intensification Water Modelling - Jan 2018- Ex System Average Day Demand Run				
ID	Demand (L/s)	Elevation (m)	Head (m)	Pressure (psi)
WJ27596	0.17	128.02	191.22	89.8
WJ55058	0.01	127.78	190.98	89.8
WJ27634	0.2	127.88	191.22	90.1
WJ27694	0	127.88	191.22	90.1
WJ3000982	0.64	128.2	191.64	90.2
WJ3000859	0.01	127.54	191.23	90.5
WJ38289	0.5	127.42	191.24	90.7
WJ3000016	0.2	127.79	191.64	90.8
J16	0	129	192.86	90.8
WJ3000860	0.07	127.37	191.23	90.8
WJ3000759	2.92	127.73	191.63	90.9
WJ3000890	0.52	127.21	191.15	90.9
WJ3000760	1.17	127.67	191.64	91.0
WJ38269	0.08	127.27	191.24	91.0
WJ38270	0	127.27	191.24	91.0
WJ38271	0	127.27	191.24	91.0
WJ38272	0	127.27	191.24	91.0
WJ38273	0.02	127.27	191.24	91.0
WJ57290	1.09	127	190.98	91.0
WJ3000628	0.23	127.29	191.3	91.0
WJ3000858	0.09	127.2	191.23	91.0
WJ3001239	0	127.11	191.29	91.2
WJ38249	0	127	191.26	91.4
WJ3000889	0.05	126.88	191.15	91.4
WJ38229	0.07	127	191.27	91.4
WJ3000758	1.37	127.23	191.53	91.4
WJ38209	0	127.13	191.45	91.4
WJ3001083	0	127.13	191.46	91.5
WJ38171	0.58	127.05	191.55	91.7
WJ3001155	0.01	126.75	191.3	91.8
WJ3000161	0.13	126.55	191.24	92.0
WJ27654	0.03	126.48	191.23	92.0
WJ3000629	0.31	126.53	191.3	92.1
WJ38150	0.96	127.05	191.9	92.2
WJ24324	0	126.43	191.3	92.2
WJ24325	0.55	126.43	191.3	92.2
WJ24326	0	126.43	191.3	92.2
WJ3000627	0	126.43	191.3	92.2
WJ3000631	0.05	126.43	191.3	92.2
WJ3001254	0	126.43	191.3	92.2
WJ50349	0	127.05	191.91	92.2
WJ38169	0	127.05	191.91	92.2
WJ50350	0	127.05	191.92	92.2

Attachment D

17103 - Eglinton Laird Intensification Water Modelling - Jan 2018- Ex System Average Day Demand Run				
ID	Demand (L/s)	Elevation (m)	Head (m)	Pressure (psi)
WJ50362	0.01	127.05	191.91	92.2
WJ50348	0.21	127.05	191.92	92.2
WJ50351	0	127.05	191.92	92.2
WJ3000984	0.13	127.16	192.04	92.2
WJ3000544	0.64	126.61	191.53	92.3
WJ3001161	0	126.21	191.29	92.5
WJ3001166	0	126.1	191.29	92.7
WJ3000463	1.19	126.32	191.6	92.8
WJ3000630	0.02	126	191.3	92.8
WJ56518	12.23	126.18	191.6	93.0
WJ3000985	0	126.57	192.04	93.1
WJ3000762	0.17	126.59	192.08	93.1
WJ3000763	1.23	126.59	192.08	93.1
WJ38149	0	126.43	191.91	93.1
WJ50353	0.09	126.43	191.92	93.1
WJ50356	0	126.43	191.91	93.1
WJ50354	0.01	126.43	191.92	93.1
WJ50359	0	126.43	191.92	93.1
WJ50360	0	126.43	191.92	93.1
WJ50355	0	126.43	191.94	93.1
WJ50357	0	126.43	191.94	93.1
WJ50358	0.78	126.43	191.96	93.2
WJ50361	0	126.43	191.96	93.2
WJ3000761	1.15	126.43	192.06	93.3
WJ56519	2.86	125.85	191.6	93.5
WJ3001088	0.11	126.78	192.54	93.5
WJ3001081	0.4	126.51	192.54	93.9
WJ3000621	2.19	125.46	191.59	94.0
WJ3000764	0.19	126.39	192.54	94.0
WJ3000767	6.13	126.37	192.55	94.1
WJ3000765	0.09	126.26	192.56	94.3
WJ56492	20.22	125.32	191.68	94.4
WJ3001089	0.4	126.08	192.54	94.5
WJ3000632	0.39	124.91	191.46	94.6
WJ3001241	0	124.64	191.29	94.8
WJ3000339	0.39	124.15	191.16	95.3
WJ3000766	0.08	91.22	193.97	146.1

Attachment D

17103 - Eglinton Laird Intensification Water Modelling - Jan 2018- Ex System Maximum Day Demand Run				
ID	Demand (L/s)	Elevation (m)	Head (m)	Pressure (psi)
WJ4018275	0	158.22	185.17	38.3
WJ3000094	0.61	157.83	185.17	38.9
WJ31211	0	157.5	185.17	39.3
WJ3000095	0.03	157.31	185.17	39.6
WJ3000011	0.29	155.74	185.17	41.8
WJ3000096	0.11	155.02	185.17	42.9
WJ3000097	0.14	154.19	185.17	44.0
WJ3000432	0.46	154.11	185.17	44.2
WJ3000433	0.22	153.32	185.17	45.3
WJ3000030	0.59	150.95	185.17	48.7
WJ56006	0	150.93	185.17	48.7
WJ3000029	0.63	150.84	185.17	48.8
WJ3000434	0.34	150.76	185.17	48.9
WJ52820	0.01	150	184.65	49.3
WJ31228	0.01	150.5	185.19	49.3
WJ52818	0.15	149.95	184.65	49.3
WJ3000055	0.18	150.32	185.17	49.6
WJ3000791	0.06	150.12	185.19	49.9
WJ3000212	1.1	150.06	185.17	49.9
WJ14740	0.05	149.4	184.65	50.1
WJ3000278	0.12	149.86	185.17	50.2
WJ23834	0.47	149.81	185.18	50.3
WJ3000098	0.24	149.75	185.17	50.4
WJ23835	0.49	149.54	185.18	50.7
WJ55511	0	149.24	185.17	51.1
WJ3000028	0.55	148.91	185.17	51.6
WJ23838	0.43	148.74	185.19	51.8
WJ3000012	0.4	148.62	185.17	52.0
WJ3000350	0.05	148.06	184.65	52.0
WJ3000037	0.29	147.96	184.65	52.2
WJ52814	0.06	147.9	184.65	52.2
WJ52782	0.04	147.82	184.65	52.4
WJ3000351	0.03	147.81	184.65	52.4
WJ52806	0.04	147.8	184.65	52.4
WJ52813	0.25	147.8	184.65	52.4
WJ52784	0	147.7	184.65	52.5
WJ52781	0	147.7	184.65	52.5
WJ3001142	0.1	147.68	184.65	52.6
WJ3000756	0.02	147.66	184.65	52.6
WJ23837	0.38	148.18	185.19	52.6
WJ55513	0	148.12	185.17	52.7
WJ3000491	0.06	147.57	184.65	52.7

Attachment D

17103 - Eglinton Laird Intensification Water Modelling - Jan 2018- Ex System Maximum Day Demand Run				
ID	Demand (L/s)	Elevation (m)	Head (m)	Pressure (psi)
WJ3000352	0.12	147.48	184.65	52.8
WJ3000289	0.35	147.96	185.18	52.9
WJ3000027	0.85	147.77	185.13	53.1
WJ31227	0.08	147.81	185.19	53.2
WJ3000044	0.07	147.19	184.64	53.2
WJ52804	0.03	147.2	184.65	53.2
WJ3001090	0.09	147.14	184.65	53.3
WJ3000492	0.01	147.08	184.65	53.4
WJ3000349	0.12	147.02	184.65	53.5
WJ52807	0.15	147	184.65	53.5
WJ4018230	0	147.52	185.17	53.5
WJ55837	0	147.4	185.17	53.7
WJ52809	0.09	146.8	184.65	53.8
WJ3000394	0.05	146.64	184.65	54.0
WJ3000792	0.56	147.05	185.19	54.2
WJ3000036	0.22	146.45	184.64	54.3
WJ3000579	0.48	146.9	185.11	54.3
WJ3000972	0.44	146.57	185.03	54.7
WJ52803	0.04	146.18	184.65	54.7
WJ3000279	0.48	146.66	185.17	54.8
WJ3000578	0.38	146.48	185.11	54.9
WJ3000563	0.25	146.55	185.19	54.9
WJ3000624	0.09	146.46	185.19	55.1
WJ3000971	0.34	146.18	185.01	55.2
WJ52787	0.02	145.8	184.65	55.2
WJ3000569	0.29	145.98	184.85	55.3
WJ3000058	0.24	145.74	184.65	55.3
WJ3000003	0.41	146.1	185.1	55.4
WJ3001242	0.12	146.06	185.1	55.5
WJ14604	0.05	145.6	184.65	55.5
WJ52786	0.08	145.6	184.65	55.5
WJ3000883	0.71	146.06	185.13	55.5
WJ3000793	0.4	145.89	185.2	55.9
WJ14724	0.12	145.2	184.65	56.1
WJ3000538	0.34	145.25	184.87	56.3
WJ3000047	0.08	145.42	185.13	56.5
WJ3000023	0.04	144.89	184.66	56.5
WJ3000050	0.52	145.43	185.2	56.5
WJ3000115	0.48	145.4	185.19	56.6
WJ3000875	0.54	145.1	185.01	56.7
WJ3000537	0.24	144.93	184.87	56.8
WJ3000117	0.17	145.22	185.2	56.8

Attachment D

17103 - Eglinton Laird Intensification Water Modelling - Jan 2018- Ex System Maximum Day Demand Run				
ID	Demand (L/s)	Elevation (m)	Head (m)	Pressure (psi)
WJ54892	0.42	144.91	184.94	56.9
WJ14675	0.17	144.6	184.65	56.9
WJ51871	0.48	145.01	185.17	57.1
WJ3000035	0.16	144.43	184.64	57.2
WJ3000046	0.73	144.9	185.13	57.2
WJ3000539	0.23	144.65	184.94	57.3
WJ3000435	0.29	144.83	185.17	57.4
WJ3000013	0.31	144.81	185.17	57.4
WJ3000002	0.38	144.72	185.09	57.4
WJ3000054	0.19	144.7	185.18	57.6
WJ3000874	0.09	144.48	184.97	57.6
WJ3000116	0.3	144.66	185.2	57.6
WJ57286	0.38	144	184.64	57.8
WJ51947	0	144.5	185.18	57.8
WJ3000332	0.58	144.5	185.18	57.8
WJ51882	0.05	144.5	185.18	57.8
WJ51883	0.44	144.5	185.18	57.8
WJ17209	0	144	184.69	57.8
WJ17210	0.5	144	184.69	57.8
WJ3000043	0.35	143.95	184.64	57.9
WJ52780	0	143.98	184.69	57.9
WJ3000042	0.4	143.92	184.65	57.9
WJ1018244	0	143.93	184.69	57.9
WJ3000024	0.12	143.9	184.69	58.0
WJ3000580	0.3	144.34	185.14	58.0
WJ3000970	0.36	144.01	185.01	58.3
WJ14729	0	143.6	184.65	58.4
WJ14744	0.16	143.6	184.65	58.4
WJ3000001	0.44	144.02	185.09	58.4
WJ3000478	0.44	143.99	185.06	58.4
WJ3000034	0.29	143.47	184.64	58.5
WJ3000794	0.34	143.91	185.2	58.7
WJ3000851	0.19	143.97	185.3	58.8
WJ3000049	0.4	143.65	185.15	59.0
WJ3000536	0.3	143.19	184.83	59.2
WJ52792	0.03	143.4	185.04	59.2
WJ3000048	0.07	143.48	185.14	59.2
WJ3000568	0.14	143.18	184.85	59.2
WJ3000540	0.3	143.34	185.02	59.3
WJ3000479	0.51	143.32	185.14	59.5
WJ3000099	0.28	143.34	185.17	59.5
WJ3000969	0.11	143.19	185.05	59.5

Attachment D

17103 - Eglinton Laird Intensification Water Modelling - Jan 2018- Ex System Maximum Day Demand Run				
ID	Demand (L/s)	Elevation (m)	Head (m)	Pressure (psi)
WJ3000968	0.33	143.07	185.05	59.7
WJ3000480	0.67	143.15	185.14	59.7
WJ1018241	0.88	143.04	185.04	59.7
WJ3000051	0.47	143.06	185.2	59.9
WJ52810	0.16	142.48	184.65	59.9
WJ3000967	0.18	142.75	185.05	60.1
WJ3000015	0.34	142.65	185.01	60.2
WJ3000014	0.02	142.63	185.01	60.2
WJ3000643	0.38	142.35	184.86	60.4
WJ3000966	0.9	142.4	185.05	60.6
WJ3000486	0.14	141.8	184.65	60.9
WJ3000646	0.26	141.69	184.64	61.1
WJ3000625	0.41	141.99	185.2	61.4
WJ3000567	0.13	141.53	184.79	61.5
WJ3000481	0.66	141.88	185.17	61.5
WJ3000542	0.11	141.65	185.05	61.7
WJ3000541	0.15	141.47	185.02	61.9
WJ3000645	0.31	141.07	185.04	62.5
WJ3000100	0.42	141.07	185.17	62.7
WJ3000919	0.41	141.03	185.21	62.8
WJ3000482	0.24	140.92	185.2	63.0
WJ3000483	0.23	140.83	185.21	63.1
WJ3000581	0.42	140.66	185.17	63.3
WJ3000436	0.4	140.45	185.17	63.6
WJ51894	0.26	140.2	185.19	64.0
WJ51914	0.08	140.2	185.19	64.0
WJ14608	0.07	138.8	184.65	65.2
WJ3000101	0.43	138.56	185.17	66.3
WJ3000052	0.06	138.16	185.2	66.9
WJ3000802	0.38	137.93	185.2	67.2
WJ3000582	0.42	137.94	185.21	67.2
WJ55845	0	137.9	185.17	67.2
WJ55851	0.01	137.9	185.17	67.2
WJ3000437	0.37	137.87	185.17	67.2
WJ55852	0	137.8	185.17	67.3
WJ3000583	0.18	137.72	185.21	67.5
WJ3000795	0.51	137.56	185.21	67.7
WJ3000280	0.59	137.35	185.17	68.0
WJ3000372	0.1	137.19	185.21	68.3
WJ3000852	0.38	137.25	185.31	68.3
WJ3000884	0.16	137.15	185.22	68.3
WJ3000438	0.44	137	185.17	68.5

Attachment D

17103 - Eglinton Laird Intensification Water Modelling - Jan 2018- Ex System Maximum Day Demand Run				
ID	Demand (L/s)	Elevation (m)	Head (m)	Pressure (psi)
WJ3000978	0	137.01	185.17	68.5
WJ3000979	0.01	136.92	185.17	68.6
WJ3000804	0.2	136.93	185.2	68.6
WJ3000920	0.28	136.9	185.22	68.7
WJ3000102	0.43	136.57	185.18	69.1
WJ3000803	0.15	136.47	185.2	69.3
WJ3000441	0.06	136.43	185.17	69.3
WJ3000923	0.27	136.54	185.29	69.3
WJ3000440	0.11	136.35	185.17	69.4
WJ3000439	0.22	136.33	185.17	69.4
WJ3000584	0.07	136.13	185.22	69.8
WJ3000334	0.06	135.9	185.19	70.1
WJ51908	0.16	135.9	185.19	70.1
WJ51898	0.23	135.9	185.19	70.1
WJ3000442	0.36	135.82	185.17	70.2
WJ56380	0.09	135.59	185.18	70.5
WJ56382	0.13	135.59	185.18	70.5
WJ3000315	0.9	135.59	185.18	70.5
WJ56384	0.06	135.57	185.18	70.5
WJ56385	0.07	135.57	185.18	70.5
WJ56387	0	135.57	185.18	70.5
WJ56388	0	135.57	185.18	70.5
WJ56389	0.14	135.57	185.18	70.5
WJ51892	0.06	135.5	185.19	70.7
WJ56391	0	135.41	185.18	70.8
WJ3000281	0.24	135.36	185.17	70.8
WJ56431	0.07	135.25	185.18	71.0
WJ3000886	0.61	135.26	185.22	71.0
WJ3000337	0.61	135.2	185.2	71.1
WJ3000796	0.39	135.19	185.23	71.1
WJ3000924	0.92	135.3	185.39	71.2
WJ51910	0.22	135.1	185.2	71.2
WJ51936	0.21	135.1	185.2	71.2
WJ3000853	1.16	135.22	185.33	71.2
WJ51937	0.15	135.1	185.21	71.2
WJ3000626	1.04	135.09	185.22	71.3
WJ3000805	0.19	135.01	185.2	71.4
WJ51893	0.02	135	185.2	71.4
WJ3000885	0.35	135.01	185.23	71.4
WJ3000443	0.24	134.94	185.16	71.4
WJ3000806	0.25	134.79	185.2	71.7
WJ3000585	0.03	134.8	185.22	71.7

Attachment D

17103 - Eglinton Laird Intensification Water Modelling - Jan 2018- Ex System Maximum Day Demand Run				
ID	Demand (L/s)	Elevation (m)	Head (m)	Pressure (psi)
WJ56394	0.23	134.54	185.17	72.0
WJ56400	0.04	134.54	185.17	72.0
WJ56401	0.08	134.54	185.17	72.0
WJ53252	0.3	134.59	185.26	72.0
WJ53257	0.12	134.6	185.27	72.0
WJ53255	0.17	134.6	185.28	72.0
WJ3000354	0.31	134.42	185.16	72.1
WJ53253	0.49	134.5	185.27	72.2
WJ3000074	0.01	134.32	185.16	72.3
WJ3000444	0.13	134.28	185.16	72.3
WJ3000004	1.02	134.25	185.24	72.5
WJ3000445	0.36	134.16	185.16	72.5
WJ56393	0.15	134.15	185.17	72.5
WJ56421	0.23	134.15	185.17	72.5
WJ3000854	0.39	134.17	185.39	72.8
WJ3000005	0.26	133.89	185.23	73.0
WJ3000572	0.53	133.89	185.24	73.0
WJ3000073	1.18	133.61	185.16	73.3
WJ3000282	0.77	133.45	185.17	73.5
WJ22402	0.34	133.38	185.23	73.7
WJ3000316	0.96	133.26	185.18	73.8
WJ3000355	0.18	133.17	185.16	73.9
WJ3000807	0.38	132.93	185.2	74.3
WJ51918	1.66	132.9	185.2	74.4
WJ56395	0.19	132.82	185.17	74.4
WJ56397	0.08	132.82	185.17	74.4
WJ51919	0.08	132.8	185.2	74.5
WJ3000119	0	132.96	185.46	74.6
WJ56399	0.09	132.65	185.17	74.7
WJ3000118	0.03	132.93	185.46	74.7
WJ3001168	0.18	131.99	184.65	74.9
WJ51921	0.14	132.5	185.2	74.9
WJ3000120	0.54	132.72	185.46	75.0
WJ3000519	0.13	132.67	185.43	75.0
WJ3000855	0.27	132.5	185.4	75.2
WJ3000527	0	132.53	185.47	75.3
WJ3000531	0	132.53	185.47	75.3
WJ22421	0.22	132.24	185.26	75.4
WJ3000525	0.33	132.32	185.48	75.6
WJ3000526	0.01	132.29	185.48	75.6
WJ3000808	0.25	132	185.22	75.7
WJ3000925	0.3	132.24	185.46	75.7

Attachment D

17103 - Eglinton Laird Intensification Water Modelling - Jan 2018- Ex System Maximum Day Demand Run				
ID	Demand (L/s)	Elevation (m)	Head (m)	Pressure (psi)
WJ3000345	1.99	132.15	185.43	75.7
WJ3000797	0.29	131.93	185.27	75.8
WJ3000977	0.29	131.95	185.31	75.9
WJ3000975	0.07	131.82	185.26	76.0
WJ3000976	0.06	131.75	185.26	76.1
WJ3000520	0.31	131.81	185.4	76.2
WJ53264	0.04	131.56	185.27	76.4
WJ53276	0.07	131.56	185.27	76.4
WJ53277	0.44	131.56	185.27	76.4
WJ53269	0.04	131.56	185.28	76.4
WJ3000995	0.5	131.48	185.27	76.5
WJ3000798	0.98	131.49	185.3	76.5
WJ3001068	0.27	131.5	185.33	76.5
WJ26595	0.02	131.56	185.42	76.6
WJ26596	0	131.56	185.42	76.6
WJ3000535	0.08	131.56	185.42	76.6
WJ26597	0.24	131.56	185.42	76.6
WJ26598	0.01	131.56	185.42	76.6
J90	0	131.5	185.41	76.6
J74	0	131.5	185.45	76.7
J86	0	131.3	185.29	76.8
WJ3000346	0.95	131.29	185.43	77.0
WJ3001165	0.19	131.37	185.6	77.1
WJ3000573	0.07	130.95	185.3	77.3
J38	0	130.84	185.28	77.4
WJ3001181	0.28	130.85	185.3	77.4
WJ3000800	0.13	130.86	185.32	77.4
WJ3000799	0.01	130.85	185.32	77.4
WJ3000528	0.15	130.81	185.32	77.5
WJ3001169	0.02	130.01	184.65	77.7
WJ3001074	0.14	130.6	185.33	77.8
WJ3001069	0.62	130.59	185.33	77.8
WJ3001238	0.17	130.58	185.41	78.0
WJ14629	0	129.8	184.65	78.0
WJ3000507	0.31	130.56	185.41	78.0
J36	0	130.3	185.2	78.0
J64	0	130.44	185.35	78.1
WJ55196	0.36	130.18	185.17	78.2
WJ3000347	0.66	130.42	185.42	78.2
WJ3000574	0.9	130.34	185.34	78.2
WJ3000996	0.34	130.23	185.28	78.3
WJ3001245	0	130.28	185.33	78.3

Attachment D

17103 - Eglinton Laird Intensification Water Modelling - Jan 2018- Ex System Maximum Day Demand Run				
ID	Demand (L/s)	Elevation (m)	Head (m)	Pressure (psi)
WJ3001249	0	130.13	185.33	78.5
WJ3001071	0	130.12	185.33	78.5
WJ3001075	0	130.11	185.33	78.5
WJ3000530	0.01	130.13	185.4	78.6
WJ3000575	0.02	130.12	185.4	78.6
WJ3001072	0.04	130.04	185.33	78.6
WJ3001251	0	130.04	185.33	78.6
WJ26594	0.27	130.09	185.4	78.6
WJ3000532	0.02	130.09	185.4	78.6
WJ3000071	0.09	129.85	185.17	78.6
J44	0	129.84	185.2	78.7
WJ3001248	0	129.96	185.33	78.7
WJ3000801	0	129.94	185.33	78.7
WJ3000166	0.94	129.82	185.39	79.0
WJ3000070	0.17	129.49	185.17	79.2
WJ38309	0.62	129.6	185.34	79.2
WJ38310	0.29	129.58	185.34	79.3
J40	0	129.44	185.29	79.4
WJ51927	0.67	129.3	185.2	79.5
WJ27674	0	129.38	185.34	79.6
WJ3000060	0.01	129.29	185.34	79.7
WJ3000069	0.57	129.08	185.17	79.7
WJ3001156	0	129.44	185.61	79.9
WJ3000061	0	129.15	185.34	79.9
J42	0	129.03	185.23	79.9
WJ51923	0	129	185.2	79.9
WJ51925	0.61	129	185.2	79.9
WJ3000064	0.12	129.13	185.33	79.9
WJ3000065	0.69	129.06	185.3	80.0
WJ3000283	0.55	128.88	185.17	80.0
WJ3000067	0.57	128.8	185.2	80.2
WJ3000062	0.05	128.93	185.34	80.2
WJ3000068	0.64	128.77	185.18	80.2
WJ3001246	0	128.93	185.34	80.2
WJ3000857	0.15	128.92	185.34	80.2
WJ3000868	0.08	128.6	185.16	80.4
WJ3001164	0.07	129.02	185.6	80.4
WJ3000508	1.59	128.75	185.42	80.6
WJ55201	0.1	128.42	185.16	80.7
WJ56502	0.28	128.41	185.16	80.7
WJ55058	0.02	127.78	184.65	80.8
WJ55199	0.05	128.27	185.16	80.9

Attachment D

17103 - Eglinton Laird Intensification Water Modelling - Jan 2018- Ex System Maximum Day Demand Run				
ID	Demand (L/s)	Elevation (m)	Head (m)	Pressure (psi)
J48	0	128.43	185.34	80.9
WJ3000869	0.43	128.13	185.16	81.1
WJ27615	0.47	128.26	185.37	81.2
WJ27574	0.58	128.18	185.37	81.3
WJ3000511	0.22	128.15	185.43	81.4
WJ27614	0.12	128.09	185.37	81.4
J46	0	128.02	185.37	81.5
WJ27575	0.65	128.02	185.37	81.5
WJ27595	0.57	128.02	185.37	81.5
WJ27596	0.32	128.02	185.36	81.5
WJ27634	0.4	127.88	185.38	81.7
WJ27694	0	127.88	185.38	81.7
WJ57290	1.96	127	184.65	82.0
WJ3000859	0.03	127.54	185.4	82.3
WJ3000890	0.94	127.21	185.16	82.4
WJ38289	0.99	127.42	185.45	82.5
WJ3000860	0.14	127.37	185.41	82.5
WJ38269	0.17	127.27	185.45	82.7
WJ38270	0	127.27	185.45	82.7
WJ38271	0.01	127.27	185.45	82.7
WJ38272	0	127.27	185.45	82.7
WJ38273	0.04	127.27	185.45	82.7
WJ3000858	0.18	127.2	185.39	82.7
WJ3000889	0.09	126.88	185.16	82.8
WJ3000628	0.47	127.29	185.61	82.9
WJ3001239	0	127.11	185.61	83.2
WJ38249	0.01	127	185.5	83.2
WJ3000982	1.28	128.2	186.7	83.2
WJ38229	0.14	127	185.52	83.2
WJ3001155	0.01	126.75	185.61	83.7
WJ3000167	0.27	126.55	185.44	83.7
WJ27654	0.05	126.48	185.4	83.8
WJ3000016	0.4	127.79	186.7	83.8
WJ3000759	5.37	127.73	186.67	83.8
WJ38209	0	127.13	186.09	83.8
WJ3001083	0	127.13	186.12	83.9
WJ3000760	2.34	127.67	186.7	83.9
WJ3000629	0.61	126.53	185.61	84.0
WJ3000758	2.59	127.23	186.36	84.1
WJ24324	0	126.43	185.61	84.1
WJ24325	1.11	126.43	185.62	84.1
WJ24326	0	126.43	185.61	84.1

Attachment D

17103 - Eglinton Laird Intensification Water Modelling - Jan 2018- Ex System Maximum Day Demand Run				
ID	Demand (L/s)	Elevation (m)	Head (m)	Pressure (psi)
WJ3000627	0	126.43	185.61	84.1
WJ3000631	0.1	126.43	185.61	84.1
WJ3001254	0	126.43	185.61	84.1
WJ38171	1.15	127.05	186.39	84.4
WJ3001167	0	126.21	185.61	84.4
WJ3001166	0	126.1	185.6	84.6
WJ3000630	0.03	126	185.61	84.8
WJ3000544	1.22	126.61	186.36	84.9
WJ3000463	2.14	126.32	186.58	85.7
WJ56518	22.03	126.18	186.58	85.9
WJ38150	1.92	127.05	187.47	85.9
WJ50349	0	127.05	187.52	86.0
WJ38169	0	127.05	187.53	86.0
WJ50362	0.02	127.05	187.53	86.0
WJ50350	0.01	127.05	187.55	86.0
WJ50351	0	127.05	187.55	86.0
WJ50348	0.42	127.05	187.55	86.0
WJ56519	5.17	125.85	186.58	86.3
WJ3000984	0.27	127.16	187.93	86.4
WJ3001241	0	124.64	185.61	86.7
WJ3000339	0.7	124.15	185.19	86.8
WJ3000621	3.94	125.46	186.56	86.9
WJ38149	0	126.43	187.53	86.9
WJ50356	0	126.43	187.53	86.9
WJ50353	0.19	126.43	187.53	86.9
WJ50354	0.02	126.43	187.55	86.9
WJ50359	0	126.43	187.55	86.9
WJ50360	0	126.43	187.55	86.9
WJ50355	0	126.43	187.62	87.0
WJ50357	0	126.43	187.62	87.0
WJ3000632	0.79	124.91	186.12	87.0
WJ50361	0	126.43	187.66	87.1
WJ50358	1.56	126.43	187.67	87.1
WJ3000985	0	126.57	187.93	87.2
WJ3000762	0.35	126.59	188.04	87.4
WJ3000763	2.27	126.59	188.05	87.4
J16	0.14	129	190.48	87.4
WJ56492	36.43	125.32	186.85	87.5
WJ3000761	2.29	126.43	187.99	87.5
WJ3001088	0.22	126.78	189.47	89.1
WJ3001087	0.81	126.51	189.47	89.5
WJ3000764	0.38	126.39	189.47	89.7

Attachment D

17103 - Eglinton Laird Intensification Water Modelling - Jan 2018- Ex System Maximum Day Demand Run				
ID	Demand (L/s)	Elevation (m)	Head (m)	Pressure (psi)
WJ3000767	11.04	126.37	189.52	89.8
WJ3000765	0.18	126.26	189.53	89.9
WJ3001089	0.79	126.08	189.47	90.1
WJ3000766	0.16	91.22	193.9	146.0

Attachment D

17103 - Eglinton Laird Intensification Water Modelling - Jan 2018- Ex System Peak Hour Demand Run				
ID	Demand (L/s)	Elevation (m)	Head (m)	Pressure (psi)
WJ4018275	0	158.22	181.44	33.0
WJ3000094	0.85	157.83	181.45	33.6
WJ31211	0	157.5	181.44	34.0
WJ3000095	0.04	157.31	181.44	34.3
WJ3000011	0.41	155.74	181.44	36.5
WJ3000096	0.15	155.02	181.44	37.6
WJ3000097	0.19	154.19	181.44	38.7
WJ3000432	0.63	154.11	181.44	38.9
WJ3000433	0.3	153.32	181.44	40.0
WJ52820	0.01	150	180.47	43.3
WJ3000030	0.59	150.95	181.45	43.4
WJ56006	0	150.93	181.44	43.4
WJ52818	0.21	149.95	180.47	43.4
WJ3000029	0.38	150.84	181.45	43.5
WJ3000434	0.47	150.76	181.44	43.6
WJ31228	0	150.5	181.47	44.0
WJ14740	0.07	149.4	180.47	44.2
WJ3000055	0.25	150.32	181.45	44.3
WJ3000791	0.07	150.12	181.47	44.6
WJ3000212	1.18	150.06	181.45	44.6
WJ3000278	0.17	149.86	181.45	44.9
WJ23834	0.65	149.81	181.45	45.0
WJ3000098	0.34	149.75	181.44	45.1
WJ23835	0.67	149.54	181.45	45.4
WJ55511	0	149.24	181.44	45.8
WJ3000350	0.07	148.06	180.47	46.1
WJ3000037	0.4	147.96	180.47	46.2
WJ3000028	0.41	148.91	181.43	46.2
WJ52814	0.09	147.9	180.47	46.3
WJ52782	0.06	147.82	180.47	46.4
WJ3000351	0.04	147.81	180.47	46.4
WJ52806	0.06	147.8	180.47	46.4
WJ52813	0.35	147.8	180.47	46.4
WJ23838	0.59	148.74	181.47	46.5
WJ52784	0	147.7	180.47	46.6
WJ52781	0	147.7	180.47	46.6
WJ3001142	0.13	147.68	180.47	46.6
WJ3000012	0.55	148.62	181.44	46.7
WJ3000756	0.03	147.66	180.47	46.7
WJ3000491	0.09	147.57	180.47	46.8
WJ3000352	0.17	147.48	180.48	46.9
WJ52804	0.04	147.2	180.47	47.3

Attachment D

17103 - Eglinton Laird Intensification Water Modelling - Jan 2018- Ex System Peak Hour Demand Run				
ID	Demand (L/s)	Elevation (m)	Head (m)	Pressure (psi)
WJ3000044	0.1	147.19	180.46	47.3
WJ23837	0.53	148.18	181.47	47.3
WJ55513	0	148.12	181.44	47.4
WJ3001090	0.12	147.14	180.48	47.4
WJ3000492	0.01	147.08	180.47	47.5
WJ3000349	0.17	147.02	180.47	47.6
WJ52807	0.21	147	180.47	47.6
WJ3000289	0.48	147.96	181.45	47.6
WJ3000027	0.91	147.77	181.35	47.7
WJ31227	0.12	147.81	181.47	47.9
WJ52809	0.12	146.8	180.47	47.9
WJ3000394	0.07	146.64	180.47	48.1
WJ4018230	0	147.52	181.44	48.2
WJ3000036	0.3	146.45	180.46	48.4
WJ55837	0	147.4	181.44	48.4
WJ52803	0.05	146.18	180.47	48.7
WJ3000579	0.66	146.9	181.32	48.9
WJ3000792	0.78	147.05	181.47	48.9
WJ3000972	0.61	146.57	181.16	49.2
WJ52787	0.03	145.8	180.47	49.3
WJ3000058	0.33	145.74	180.47	49.4
WJ3000279	0.66	146.66	181.44	49.5
WJ3000578	0.45	146.48	181.32	49.5
WJ3000569	0.4	145.98	180.84	49.6
WJ14604	0.06	145.6	180.47	49.6
WJ52786	0.12	145.6	180.47	49.6
WJ3000563	0.35	146.55	181.47	49.6
WJ3000971	0.48	146.18	181.13	49.7
WJ3000624	0.13	146.46	181.47	49.8
WJ3000003	0.56	146.1	181.29	50.0
WJ3001242	0.16	146.06	181.28	50.1
WJ14724	0.17	145.2	180.47	50.1
WJ3000883	0.98	146.06	181.35	50.2
WJ3000793	0.56	145.89	181.47	50.6
WJ3000023	0.06	144.89	180.48	50.6
WJ3000538	0.48	145.25	180.87	50.6
WJ14675	0.24	144.6	180.47	51.0
WJ3000531	0.33	144.93	180.86	51.1
WJ3000047	0.11	145.42	181.36	51.1
WJ3000875	0.76	145.1	181.11	51.2
WJ3000035	0.23	144.43	180.46	51.2
WJ3000050	0.7	145.43	181.47	51.2

Attachment D

17103 - Eglinton Laird Intensification Water Modelling - Jan 2018- Ex System Peak Hour Demand Run				
ID	Demand (L/s)	Elevation (m)	Head (m)	Pressure (psi)
WJ3000115	0.67	145.4	181.46	51.3
WJ54892	0.58	144.91	181	51.3
WJ3000117	0.23	145.22	181.47	51.5
WJ3000539	0.32	144.65	181	51.7
WJ51871	0.43	145.01	181.45	51.8
WJ3000046	1.01	144.9	181.36	51.8
WJ57286	0.53	144	180.46	51.8
WJ3000043	0.48	143.95	180.46	51.9
WJ17209	0	144	180.54	51.9
WJ17210	0.7	144	180.54	51.9
WJ3000042	0.56	143.92	180.47	52.0
WJ52780	0	143.98	180.54	52.0
WJ3000002	0.53	144.72	181.28	52.0
WJ3000874	0.12	144.48	181.05	52.0
WJ1018244	0	143.93	180.54	52.1
WJ3000435	0.41	144.83	181.44	52.1
WJ3000013	0.43	144.81	181.44	52.1
WJ3000024	0.07	143.9	180.54	52.1
WJ3000054	0.17	144.7	181.46	52.3
WJ3000116	0.41	144.66	181.47	52.3
WJ14729	0	143.6	180.48	52.4
WJ14744	0.22	143.6	180.48	52.4
WJ3000332	0.35	144.5	181.45	52.5
WJ51947	0	144.5	181.45	52.5
WJ51882	0.06	144.5	181.46	52.5
WJ51883	0.61	144.5	181.46	52.5
WJ3000034	0.4	143.47	180.46	52.6
WJ3000580	0.42	144.34	181.36	52.6
WJ3000970	0.5	144.01	181.13	52.8
WJ3000478	0.62	143.99	181.21	52.9
WJ3000001	0.6	144.02	181.27	53.0
WJ3000794	0.47	143.91	181.48	53.4
WJ3000536	0.42	143.19	180.8	53.5
WJ3000568	0.19	143.18	180.83	53.5
WJ3000851	0.27	143.97	181.64	53.5
WJ3000049	0.55	143.65	181.39	53.7
WJ52792	0.02	143.4	181.19	53.7
WJ3000540	0.42	143.34	181.14	53.8
WJ3000048	0.1	143.48	181.38	53.9
WJ52810	0.22	142.48	180.47	54.0
WJ3000969	0.16	143.19	181.2	54.0
WJ3000479	0.71	143.32	181.35	54.1

Attachment D

17103 - Eglinton Laird Intensification Water Modelling - Jan 2018- Ex System Peak Hour Demand Run				
ID	Demand (L/s)	Elevation (m)	Head (m)	Pressure (psi)
WJ3000099	0.39	143.34	181.44	54.2
WJ3000968	0.46	143.07	181.2	54.2
WJ1018241	1.11	143.04	181.19	54.2
WJ3000480	0.93	143.15	181.36	54.3
WJ3000051	0.65	143.06	181.48	54.6
WJ3000961	0.25	142.75	181.2	54.7
WJ3000015	0.47	142.65	181.12	54.7
WJ3000014	0.02	142.63	181.12	54.7
WJ3000643	0.52	142.35	180.85	54.7
WJ3000486	0.2	141.8	180.47	55.0
WJ3000646	0.37	141.69	180.46	55.1
WJ3000960	1.25	142.4	181.21	55.2
WJ3000561	0.1	141.53	180.72	55.7
WJ3000625	0.57	141.99	181.47	56.1
WJ3000481	0.92	141.88	181.41	56.2
WJ3000542	0.15	141.65	181.2	56.2
WJ3000541	0.21	141.47	181.14	56.4
WJ3000645	0.44	141.07	181.19	57.0
WJ3000100	0.58	141.07	181.44	57.4
WJ3000919	0.57	141.03	181.49	57.5
WJ3000482	0.34	140.92	181.48	57.7
WJ3000483	0.32	140.83	181.49	57.8
WJ3000581	0.59	140.66	181.41	57.9
WJ3000436	0.56	140.45	181.44	58.3
WJ51894	0.36	140.2	181.47	58.7
WJ51914	0.11	140.2	181.47	58.7
WJ14608	0.1	138.8	180.47	59.2
WJ3000101	0.6	138.56	181.45	61.0
WJ3000052	0.09	138.16	181.48	61.6
WJ55845	0	137.9	181.44	61.9
WJ55851	0.01	137.9	181.44	61.9
WJ3000582	0.58	137.94	181.48	61.9
WJ3000802	0.53	137.93	181.48	61.9
WJ3000431	0.52	137.87	181.44	61.9
WJ55852	0	137.8	181.44	62.0
WJ3000583	0.24	137.72	181.49	62.2
WJ3000795	0.71	137.56	181.5	62.5
WJ3000280	0.82	137.35	181.45	62.7
WJ3000372	0.14	137.19	181.49	63.0
WJ3000884	0.22	137.15	181.5	63.1
WJ3000852	0.42	137.25	181.64	63.1
WJ3000438	0.62	137	181.44	63.2

Attachment D

17103 - Eglinton Laird Intensification Water Modelling - Jan 2018- Ex System Peak Hour Demand Run				
ID	Demand (L/s)	Elevation (m)	Head (m)	Pressure (psi)
WJ3000978	0	137.01	181.45	63.2
WJ3000979	0.01	136.92	181.45	63.3
WJ3000804	0.28	136.93	181.48	63.3
WJ3000920	0.39	136.9	181.5	63.4
WJ3000102	0.6	136.57	181.45	63.8
WJ3000803	0.2	136.47	181.48	64.0
WJ3000441	0.08	136.43	181.45	64.0
WJ3000923	0.38	136.54	181.61	64.1
WJ3000440	0.16	136.35	181.45	64.1
WJ3000439	0.3	136.33	181.45	64.1
WJ3000584	0.1	136.13	181.51	64.5
WJ3000334	0.08	135.9	181.48	64.8
WJ51898	0.32	135.9	181.48	64.8
WJ51908	0.22	135.9	181.48	64.8
WJ3000442	0.5	135.82	181.43	64.9
WJ56380	0.12	135.59	181.45	65.2
WJ56382	0.19	135.59	181.45	65.2
WJ3000315	1.25	135.59	181.45	65.2
WJ56384	0.08	135.57	181.45	65.2
WJ56385	0.09	135.57	181.45	65.2
WJ56387	0	135.57	181.45	65.2
WJ56388	0	135.57	181.45	65.2
WJ56389	0.19	135.57	181.45	65.2
WJ51892	0.09	135.5	181.48	65.4
WJ56391	0	135.41	181.45	65.5
WJ3000281	0.34	135.36	181.44	65.5
WJ56431	0.1	135.25	181.45	65.7
WJ3000886	0.85	135.26	181.52	65.8
WJ3000331	0.76	135.2	181.49	65.8
WJ3000796	0.54	135.19	181.52	65.9
WJ51910	0.31	135.1	181.49	66.0
WJ51936	0.2	135.1	181.49	66.0
WJ51937	0.21	135.1	181.5	66.0
WJ3000626	1.35	135.09	181.51	66.0
WJ3000853	1.16	135.22	181.68	66.0
WJ3000805	0.27	135.01	181.49	66.1
WJ3000443	0.33	134.94	181.43	66.1
WJ3000924	1.17	135.3	181.78	66.1
WJ51893	0.03	135	181.49	66.1
WJ3000885	0.48	135.01	181.52	66.1
WJ3000806	0.35	134.79	181.49	66.4
WJ3000585	0.04	134.8	181.52	66.4

Attachment D

17103 - Eglinton Laird Intensification Water Modelling - Jan 2018- Ex System Peak Hour Demand Run				
ID	Demand (L/s)	Elevation (m)	Head (m)	Pressure (psi)
WJ56394	0.32	134.54	181.43	66.7
WJ56400	0.05	134.54	181.43	66.7
WJ56401	0.11	134.54	181.43	66.7
WJ53252	0.41	134.59	181.57	66.8
WJ53257	0.17	134.6	181.58	66.8
WJ300035	0.43	134.42	181.43	66.8
WJ53255	0.14	134.6	181.6	66.8
WJ53253	0.68	134.5	181.59	66.9
WJ300007	0.01	134.32	181.42	67.0
WJ300044	0.19	134.28	181.42	67.0
WJ300044	0.49	134.16	181.42	67.2
WJ300000	1.36	134.25	181.54	67.2
WJ56393	0.21	134.15	181.44	67.2
WJ56421	0.32	134.15	181.44	67.2
WJ300085	0.53	134.17	181.78	67.7
WJ300000	0.36	133.89	181.53	67.7
WJ300057	0.74	133.89	181.55	67.7
WJ300007	1.64	133.61	181.42	68.0
WJ300028	1.06	133.45	181.44	68.2
WJ22402	0.47	133.38	181.54	68.5
WJ300031	1.33	133.26	181.45	68.5
WJ300035	0.25	133.17	181.42	68.6
WJ300116	0.25	131.99	180.47	68.9
WJ300080	0.52	132.93	181.49	69.0
WJ51918	1.95	132.9	181.49	69.1
WJ56395	0.27	132.82	181.43	69.1
WJ56397	0.11	132.82	181.43	69.1
WJ51919	0.07	132.8	181.49	69.2
WJ56399	0.12	132.65	181.43	69.4
WJ300011	0	132.96	181.89	69.6
WJ300011	0.02	132.93	181.89	69.6
WJ51921	0.09	132.5	181.49	69.7
WJ300012	0.32	132.72	181.89	69.9
WJ300051	0.18	132.67	181.85	69.9
WJ300085	0.38	132.5	181.8	70.1
WJ22421	0.3	132.24	181.57	70.1
WJ300052	0	132.53	181.91	70.2
WJ300053	0	132.53	181.91	70.2
WJ300080	0.32	132	181.52	70.4
WJ300052	0.2	132.32	181.91	70.5
WJ300052	0.01	132.29	181.91	70.5
WJ300092	0.29	132.24	181.89	70.6

Attachment D

17103 - Eglinton Laird Intensification Water Modelling - Jan 2018- Ex System Peak Hour Demand Run				
ID	Demand (L/s)	Elevation (m)	Head (m)	Pressure (psi)
WJ300079	0.41	131.93	181.59	70.6
WJ300034	1.19	132.15	181.85	70.7
WJ300097	0.39	131.95	181.67	70.7
WJ300097	0.07	131.82	181.58	70.7
WJ300097	0.08	131.75	181.58	70.8
WJ300052	0.41	131.81	181.8	71.1
WJ53264	0.06	131.56	181.59	71.1
WJ53276	0.08	131.56	181.59	71.1
WJ53277	0.62	131.56	181.59	71.1
WJ53269	0.05	131.56	181.61	71.1
WJ300099	0.67	131.48	181.62	71.3
WJ300079	1.36	131.49	181.65	71.3
WJ300106	0.27	131.5	181.71	71.4
WJ26595	0.01	131.56	181.84	71.5
WJ26596	0	131.56	181.84	71.5
WJ300053	0.05	131.56	181.84	71.5
WJ26597	0.15	131.56	181.84	71.5
WJ26598	0	131.56	181.84	71.5
J90	0	131.5	181.82	71.5
J86	0	131.3	181.64	71.6
J74	0	131.5	181.88	71.6
WJ300116	0.02	130.01	180.47	71.7
WJ300034	0.57	131.29	181.85	71.9
WJ14629	0	129.8	180.47	72.0
WJ300057	0.1	130.95	181.65	72.1
WJ300116	0.11	131.37	182.09	72.1
J38	0	130.84	181.62	72.2
WJ300118	0.23	130.85	181.65	72.2
WJ300080	0.17	130.86	181.7	72.3
WJ300079	0.01	130.85	181.7	72.3
WJ300052	0.14	130.81	181.7	72.3
WJ300107	0.09	130.6	181.71	72.7
WJ300106	0.37	130.59	181.71	72.7
J36	0	130.3	181.49	72.8
WJ300123	0.1	130.58	181.83	72.9
WJ55196	0.5	130.18	181.43	72.9
WJ300050	0.19	130.56	181.82	72.9
J64	0	130.44	181.74	72.9
WJ300057	1.25	130.34	181.71	73.0
WJ300099	0.2	130.23	181.63	73.1
WJ300124	0	130.28	181.71	73.1
WJ300034	0.4	130.42	181.85	73.1

Attachment D

17103 - Eglinton Laird Intensification Water Modelling - Jan 2018- Ex System Peak Hour Demand Run				
ID	Demand (L/s)	Elevation (m)	Head (m)	Pressure (psi)
WJ300007	0.13	129.85	181.43	73.3
WJ300124	0	130.13	181.71	73.3
WJ300107	0	130.12	181.71	73.3
WJ300107	0	130.11	181.71	73.4
J44	0	129.84	181.49	73.4
WJ300107	0.03	130.04	181.71	73.5
WJ300125	0	130.04	181.71	73.5
WJ300053	0.01	130.13	181.81	73.5
WJ300057	0.02	130.12	181.81	73.5
WJ26594	0.16	130.09	181.82	73.5
WJ300053	0.01	130.09	181.82	73.5
WJ300124	0	129.96	181.71	73.6
WJ300080	0	129.94	181.71	73.6
WJ300007	0.24	129.49	181.43	73.9
WJ300016	0.57	129.82	181.8	73.9
WJ38309	0.37	129.6	181.72	74.1
WJ38310	0.18	129.58	181.72	74.1
WJ51927	0.86	129.3	181.49	74.2
J40	0	129.44	181.64	74.2
WJ27674	0	129.38	181.72	74.4
WJ300006	0.79	129.08	181.44	74.4
WJ300006	0.01	129.29	181.72	74.5
WJ51923	0	129	181.49	74.6
WJ51925	0.37	129	181.49	74.6
J42	0	129.03	181.54	74.6
WJ300028	0.77	128.88	181.44	74.7
WJ300006	0	129.15	181.72	74.7
WJ300006	0.07	129.13	181.71	74.8
WJ300006	0.41	129.06	181.67	74.8
WJ300115	0	129.44	182.1	74.9
WJ300006	0.79	128.8	181.49	74.9
WJ300006	0.89	128.77	181.46	74.9
WJ55058	0.03	127.78	180.47	74.9
WJ300006	0.03	128.93	181.72	75.1
WJ300085	0.09	128.92	181.72	75.1
WJ300124	0	128.93	181.72	75.1
WJ300086	0.11	128.6	181.42	75.1
WJ55201	0.13	128.42	181.42	75.4
WJ56502	0.39	128.41	181.42	75.4
WJ300116	0.04	129.02	182.09	75.4
WJ300050	0.95	128.75	181.85	75.5
WJ55199	0.07	128.27	181.42	75.6

Attachment D

17103 - Eglinton Laird Intensification Water Modelling - Jan 2018- Ex System Peak Hour Demand Run				
ID	Demand (L/s)	Elevation (m)	Head (m)	Pressure (psi)
WJ3000869	0.59	128.13	181.42	75.8
J48	0	128.43	181.73	75.8
WJ57290	2.72	127	180.47	76.0
WJ27615	0.28	128.26	181.79	76.1
WJ27574	0.35	128.18	181.78	76.2
WJ27614	0.07	128.09	181.79	76.3
WJ300051	0.13	128.15	181.86	76.4
WJ27596	0.26	128.02	181.77	76.4
J46	0	128.02	181.78	76.4
WJ27575	0.61	128.02	181.78	76.4
WJ27595	0.34	128.02	181.78	76.4
WJ27634	0.24	127.88	181.8	76.7
WJ27694	0	127.88	181.8	76.7
WJ300089	1.3	127.21	181.42	77.1
WJ300085	0.02	127.54	181.82	77.2
WJ300086	0.08	127.37	181.84	77.4
WJ38289	0.6	127.42	181.9	77.4
WJ300088	0.12	126.88	181.41	77.5
WJ300085	0.11	127.2	181.82	77.6
WJ38269	0.1	127.27	181.9	77.7
WJ38270	0	127.27	181.9	77.7
WJ38271	0	127.27	181.9	77.7
WJ38272	0	127.27	181.89	77.7
WJ38273	0.02	127.27	181.9	77.7
WJ300062	0.28	127.29	182.1	77.9
WJ38249	0.01	127	181.97	78.1
WJ300123	0	127.11	182.09	78.2
WJ38229	0.08	127	182	78.2
WJ300016	0.16	126.55	181.88	78.7
WJ27654	0.03	126.48	181.82	78.7
WJ300115	0.01	126.75	182.1	78.7
WJ300098	0.77	128.2	183.55	78.7
WJ300062	0.37	126.53	182.1	79.0
WJ24324	0	126.43	182.1	79.1
WJ300062	0	126.43	182.1	79.1
WJ300125	0	126.43	182.1	79.1
WJ24325	0.67	126.43	182.11	79.1
WJ24326	0	126.43	182.1	79.1
WJ300063	0.06	126.43	182.1	79.1
WJ38209	0	127.13	182.82	79.2
WJ300108	0	127.13	182.86	79.2
WJ300001	0.24	127.79	183.55	79.3

Attachment D

17103 - Eglinton Laird Intensification Water Modelling - Jan 2018- Ex System Peak Hour Demand Run				
ID	Demand (L/s)	Elevation (m)	Head (m)	Pressure (psi)
WJ3000759	6.6	127.73	183.5	79.3
WJ3000758	2.66	127.23	183.09	79.4
WJ3000760	1.4	127.67	183.55	79.4
WJ3001161	0	126.21	182.09	79.4
WJ3001160	0	126.1	182.09	79.6
WJ3000630	0.02	126	182.1	79.8
WJ38171	0.69	127.05	183.25	79.9
WJ3000544	1.1	126.61	183.09	80.3
WJ3000463	2.98	126.32	183.24	80.9
WJ56518	30.5	126.18	183.25	81.1
WJ3000339	0.97	124.15	181.48	81.5
WJ56519	7.04	125.85	183.25	81.6
WJ3001241	0	124.64	182.09	81.7
WJ38150	1.15	127.05	184.75	82.0
WJ3000621	5.47	125.46	183.22	82.1
WJ50349	0	127.05	184.82	82.1
WJ38169	0	127.05	184.83	82.1
WJ50362	0.01	127.05	184.83	82.1
WJ50350	0.01	127.05	184.85	82.2
WJ50348	0.25	127.05	184.86	82.2
WJ50351	0	127.05	184.86	82.2
WJ3000632	0.47	124.91	182.78	82.3
WJ3000984	0.16	127.16	185.34	82.7
WJ56492	50.34	125.32	183.57	82.8
WJ38149	0	126.43	184.83	83.0
WJ50353	0.11	126.43	184.83	83.0
WJ50356	0	126.43	184.83	83.0
WJ50354	0.01	126.43	184.86	83.1
WJ50359	0	126.43	184.86	83.1
WJ50360	0	126.43	184.86	83.1
WJ50355	0	126.43	184.94	83.2
WJ50357	0	126.43	184.94	83.2
WJ50361	0	126.43	185	83.3
WJ50358	0.94	126.43	185.01	83.3
WJ3000985	0	126.57	185.34	83.5
WJ3000762	0.21	126.59	185.47	83.7
WJ3000763	2.65	126.59	185.48	83.7
WJ3000761	1.37	126.43	185.41	83.9
J16	0	129	188.96	85.2
WJ3001088	0.13	126.78	187.52	86.4
WJ3001087	0.49	126.51	187.52	86.7
WJ3000764	0.23	126.39	187.52	86.9

Attachment D

17103 - Eglinton Laird Intensification Water Modelling - Jan 2018- Ex System Peak Hour Demand Run				
ID	**Demand (L/s)**	**Elevation (m)**	**Head (m)**	**Pressure (psi)**
WJ300076	15.34	126.37	187.58	87.0
WJ300076	0.11	126.26	187.59	87.2
WJ300108	0.48	126.08	187.52	87.3
WJ300076	0.1	91.22	193.86	145.9

Attachment D

17103 - Eglinton Laird Intensification Water Modelling - Jan 2018 - Ex system Max Daily Demand with Fireflow Simulation Run

Note:- At any given node the Available Flow at Hydrant must be greater than Total demand. Therefore the Residual Fire Flow at any node should be greater than Zero (indicating a greater available fire flow than what is required).

ID	Static Demand (L/s)	Static Pressure (psi)	Static Head (m)	Fire-Flow Demand (L/s)	Residual Pressure (psi)	Available Flow at Hydrant (L/s)	Available Flow Pressure (psi)	Residual Fire Flow (L/s)
WJ52792	0.03	59.2	185.0	317.0	-386.3	96.8	0.0	-220.3
WJ1018241	0.88	59.71	185.0	317.0	-374.0	99.4	0.0	-218.4
WJ3000029	0.63	48.81	185.2	317.0	-134.6	138.7	0.0	-178.9
WJ51871	0.48	57.1	185.2	317.0	-116.0	158.4	0.0	-159.1
WJ56400	0.04	71.96	185.2	317.0	-81.4	196.2	0.0	-120.9
WJ3000630	0.03	84.75	185.6	190.0	-305.3	80.6	0.0	-109.5
WJ3000621	3.94	86.86	186.6	317.0	-69.4	225.6	0.0	-95.3
WJ3000567	0.13	61.5	184.8	190.0	-109.0	100.9	0.0	-89.2
WJ3000030	0.59	48.65	185.2	190.0	-77.3	106.8	0.0	-83.8
WJ3001181	0.28	77.42	185.3	190.0	-132.4	106.9	0.0	-83.4
WJ3000463	2.14	85.66	186.6	317.0	-50.5	240.6	0.0	-78.6
WJ51921	0.14	74.92	185.2	317.0	-38.2	241.7	0.0	-75.4
WJ51919	0.08	74.49	185.2	317.0	-35.5	244.9	0.0	-72.2
WJ51927	0.67	79.47	185.2	317.0	-30.7	256.0	0.0	-61.7
WJ51925	0.61	79.89	185.2	317.0	-30.8	256.1	0.0	-61.5
WJ51918	1.66	74.35	185.2	317.0	-23.2	265.4	0.0	-53.3
WJ3000027	0.85	53.1	185.1	190.0	-31.5	141.7	0.0	-49.1
WJ3000578	0.38	54.92	185.1	190.0	-29.9	144.1	0.0	-46.3
WJ3000028	0.55	51.55	185.2	190.0	-26.5	145.8	0.0	-44.7
WJ31228	0.01	49.32	185.2	190.0	-19.1	153.1	0.0	-36.9
WJ3001068	0.27	76.53	185.3	317.0	-15.3	280.5	0.0	-36.8
WJ27575	0.65	81.52	185.4	317.0	-16.2	281.6	0.0	-36.1
WJ27595	0.57	81.52	185.4	317.0	-15.7	282.4	0.0	-35.2
WJ3001242	0.12	55.49	185.1	190.0	-15.7	161.1	0.0	-29.0
WJ3000996	0.34	78.26	185.3	190.0	-14.0	171.9	0.0	-18.5
WJ3000975	0.07	75.97	185.3	190.0	-13.6	171.6	0.0	-18.5
WJ3000976	0.06	76.07	185.3	190.0	-12.1	173.4	0.0	-16.7
WJ3001069	0.62	77.82	185.3	317.0	-5.1	303.9	0.0	-13.7
WJ3000800	0.13	77.43	185.3	317.0	-3.8	306.8	0.0	-10.3
WJ3000799	0.01	77.44	185.3	317.0	-3.6	307.0	0.0	-10.0
WJ3000528	0.15	77.49	185.3	317.0	-3.6	307.4	0.0	-9.8
WJ3000044	0.07	53.24	184.6	65.0	-13.9	56.5	0.0	-8.6
WJ3001074	0.14	77.81	185.3	317.0	-3.1	308.6	0.0	-8.6
WJ3001142	0.1	52.55	184.7	65.0	-12.8	56.9	0.0	-8.2
WJ52787	0.02	55.22	184.7	65.0	-12.7	57.3	0.0	-7.7
WJ52786	0.08	55.51	184.7	65.0	-9.6	59.0	0.0	-6.1
WJ3000345	1.99	75.74	185.4	317.0	-1.9	313.5	0.0	-5.5
WJ3001090	0.09	53.33	184.7	65.0	-7.1	60.2	0.0	-4.9

Attachment D

17103 - Eglinton Laird Intensification Water Modelling - Jan 2018 - Ex system Max Daily Demand with Fireflow Simulation Run

Note:- At any given node the Available Flow at Hydrant must be greater than Total demand. Therefore the Residual Fire Flow at any node should be greater than Zero (indicating a greater available fire flow than what is required).

ID	Static Demand (L/s)	Static Pressure (psi)	Static Head (m)	Fire-Flow Demand (L/s)	Residual Pressure (psi)	Available Flow at Hydrant (L/s)	Available Flow Pressure (psi)	Residual Fire Flow (L/s)
WJ52782	0.04	52.36	184.7	65.0	-6.5	60.5	0.0	-4.6
WJ3000492	0.01	53.41	184.7	65.0	-3.2	62.7	0.0	-2.3
WJ3000756	0.02	52.59	184.7	65.0	-2.7	63.0	0.0	-2.0
WJ3000394	0.05	54.03	184.7	65.0	-2.0	63.6	0.0	-1.5
WJ3000868	0.08	80.4	185.2	65.0	-2.5	63.9	0.0	-1.2
WJ3000350	0.05	52.01	184.7	65.0	0.1	65.1	0.0	0.0
WJ3001089	0.79	90.11	189.5	317.0	0.1	317.9	0.0	0.1
WJ3000351	0.03	52.37	184.7	65.0	0.3	65.3	0.0	0.3
WJ3000491	0.06	52.71	184.7	65.0	1.1	65.9	0.0	0.9
WJ3000352	0.12	52.84	184.7	65.0	1.6	66.4	0.0	1.3
WJ31227	0.08	53.15	185.2	190.0	0.6	191.5	0.0	1.4
WJ3000058	0.24	55.31	184.7	65.0	2.4	67.1	0.0	1.8
WJ3000349	0.12	53.5	184.7	65.0	3.6	68.1	0.0	3.0
WJ52820	0.01	49.26	184.7	65.0	3.7	68.4	0.0	3.3
WJ14675	0.17	56.93	184.7	65.0	6.1	70.0	0.0	4.9
WJ52818	0.15	49.33	184.7	65.0	5.3	70.1	0.0	4.9
WJ3000037	0.29	52.15	184.7	65.0	5.6	70.2	0.0	4.9
WJ3000036	0.22	54.3	184.6	65.0	6.5	70.8	0.0	5.5
WJ52804	0.03	53.24	184.7	65.0	6.6	70.8	0.0	5.8
WJ14740	0.05	50.11	184.7	65.0	6.3	70.9	0.0	5.9
WJ52814	0.06	52.24	184.7	65.0	6.6	71.0	0.0	5.9
WJ52807	0.15	53.52	184.7	65.0	6.8	71.1	0.0	5.9
WJ52806	0.04	52.38	184.7	65.0	6.8	71.1	0.0	6.1
WJ57286	0.38	57.78	184.6	65.0	8.1	71.9	0.0	6.6
WJ3000047	0.08	56.46	185.1	65.0	8.9	72.0	0.0	6.9
WJ52813	0.25	52.38	184.7	65.0	7.9	72.5	0.0	7.2
WJ3000043	0.35	57.85	184.6	65.0	9.1	72.8	0.0	7.5
WJ3000035	0.16	57.17	184.6	65.0	9.2	72.9	0.0	7.7
WJ52809	0.09	53.8	184.7	65.0	8.6	72.8	0.0	7.7
WJ52803	0.04	54.68	184.7	65.0	9.4	73.4	0.0	8.4
WJ3000042	0.4	57.9	184.7	65.0	10.4	74.2	0.0	8.8
WJ3000034	0.29	58.54	184.6	65.0	11.2	74.7	0.0	9.4
WJ3000646	0.26	61.06	184.6	65.0	11.8	74.7	0.0	9.5
WJ3000889	0.09	82.84	185.2	65.0	17.4	74.6	0.0	9.5
WJ3000884	0.16	68.34	185.2	65.0	14.4	74.8	0.0	9.6
WJ14604	0.05	55.51	184.7	65.0	11.6	75.7	0.0	10.6
WJ14724	0.12	56.08	184.7	65.0	12.3	76.5	0.0	11.4
WJ3000023	0.04	56.53	184.7	65.0	13.6	77.7	0.0	12.7

Attachment D

17103 - Eglinton Laird Intensification Water Modelling - Jan 2018 - Ex system Max Daily Demand with Fireflow Simulation Run

Note:- At any given node the Available Flow at Hydrant must be greater than Total demand. Therefore the Residual Fire Flow at any node should be greater than Zero (indicating a greater available fire flow than what is required).

ID	Static Demand (L/s)	Static Pressure (psi)	Static Head (m)	Fire-Flow Demand (L/s)	Residual Pressure (psi)	Available Flow at Hydrant (L/s)	Available Flow Pressure (psi)	Residual Fire Flow (L/s)
WJ3001155	0.01	83.67	185.6	190.0	8.2	202.7	0.0	12.7
WJ52810	0.16	59.94	184.7	65.0	15.0	78.5	0.0	13.3
WJ3000486	0.14	60.91	184.7	65.0	15.8	79.0	0.0	13.9
WJ14744	0.16	58.36	184.7	65.0	15.1	79.1	0.0	13.9
WJ17210	0.5	57.84	184.7	65.0	17.5	82.8	0.0	17.3
WJ3000024	0.12	57.98	184.7	65.0	17.8	82.7	0.0	17.6
WJ3000851	0.19	58.76	185.3	65.0	20.1	83.8	0.0	18.6
WJ14608	0.07	65.18	184.7	65.0	21.3	84.0	0.0	18.9
WJ3000542	0.11	61.69	185.1	65.0	24.3	88.4	0.0	23.3
WJ3000541	0.15	61.91	185.0	65.0	24.5	88.9	0.0	23.7
WJ3000854	0.39	72.81	185.4	190.0	12.4	215.1	0.0	24.7
WJ3000050	0.52	56.54	185.2	190.0	9.0	215.4	0.0	24.9
WJ3001168	0.18	74.86	184.7	65.0	30.0	90.4	0.0	25.2
WJ3001169	0.02	77.66	184.7	65.0	32.8	92.3	0.0	27.2
WJ3000569	0.29	55.26	184.9	65.0	23.4	93.4	0.0	28.1
WJ55058	0.02	80.84	184.7	65.0	35.8	94.4	0.0	29.3
WJ3000855	0.27	75.2	185.4	190.0	15.0	220.0	0.0	29.8
WJ57290	1.96	81.95	184.7	65.0	36.9	97.2	0.0	30.2
WJ3000117	0.17	56.83	185.2	65.0	26.3	95.5	0.0	30.3
WJ3000568	0.14	59.23	184.9	65.0	26.7	96.1	0.0	31.0
WJ3000052	0.06	66.87	185.2	65.0	32.3	96.9	0.0	31.8
WJ3000339	0.7	86.78	185.2	65.0	43.2	98.5	0.0	32.8
WJ3000519	0.13	75	185.4	190.0	16.9	224.7	0.0	34.5
WJ3000645	0.31	62.51	185.0	65.0	31.7	101.7	0.0	36.4
WJ3000536	0.3	59.19	184.8	65.0	29.0	101.8	0.0	36.5
WJ3001238	0.17	77.95	185.4	190.0	20.4	232.3	0.0	42.1
WJ3000014	0.02	60.24	185.0	65.0	32.7	107.6	0.0	42.5
WJ3000537	0.24	56.77	184.9	65.0	30.1	108.4	0.0	43.1
WJ3000538	0.34	56.32	184.9	65.0	30.2	109.6	0.0	44.2
WJ3000643	0.38	60.43	184.9	65.0	32.8	109.9	0.0	44.5
WJ3000890	0.94	82.38	185.2	65.0	47.8	111.4	0.0	45.4
WJ3000016	0.4	83.75	186.7	190.0	24.5	236.1	0.0	45.7
WJ3000432	0.46	44.16	185.2	65.0	24.3	111.2	0.0	45.7
WJ3000015	0.34	60.22	185.0	65.0	34.6	113.8	0.0	48.4
WJ3000540	0.3	59.26	185.0	65.0	34.3	114.9	0.0	49.6
WJ3000995	0.5	76.47	185.3	190.0	22.7	241.5	0.0	51.0
WJ3000539	0.23	57.28	184.9	65.0	33.7	118.8	0.0	53.6
WJ23837	0.38	52.62	185.2	65.0	32.0	120.3	0.0	54.9

Attachment D

17103 - Eglinton Laird Intensification Water Modelling - Jan 2018 - Ex system Max Daily Demand with Fireflow Simulation Run

Note:- At any given node the Available Flow at Hydrant must be greater than Total demand. Therefore the Residual Fire Flow at any node should be greater than Zero (indicating a greater available fire flow than what is required).

ID	Static Demand (L/s)	Static Pressure (psi)	Static Head (m)	Fire-Flow Demand (L/s)	Residual Pressure (psi)	Available Flow at Hydrant (L/s)	Available Flow Pressure (psi)	Residual Fire Flow (L/s)
WJ54892	0.42	56.9	184.9	65.0	33.7	120.5	0.0	55.0
WJ56518	22.03	85.86	186.6	317.0	18.0	394.1	0.0	55.1
WJ56519	5.17	86.33	186.6	317.0	18.7	379.4	0.0	57.2
WJ55851	0.01	67.2	185.2	65.0	42.5	122.3	0.0	57.3
WJ3000874	0.09	57.56	185.0	65.0	34.9	122.4	0.0	57.3
WJ3000074	0.01	72.27	185.2	65.0	45.8	122.3	0.0	57.3
WJ3000433	0.22	45.28	185.2	65.0	28.0	126.6	0.0	61.4
WJ3000967	0.18	60.14	185.1	65.0	38.4	127.9	0.0	62.7
WJ3000011	0.29	41.84	185.2	65.0	25.9	128.5	0.0	63.3
WJ3000869	0.43	81.07	185.2	65.0	53.9	129.4	0.0	63.9
WJ3001164	0.07	80.44	185.6	190.0	28.9	255.5	0.0	65.4
WJ3000478	0.44	58.39	185.1	65.0	37.8	132.2	0.0	66.7
WJ3000971	0.34	55.2	185.0	65.0	35.5	132.5	0.0	67.2
WJ3000875	0.54	56.73	185.0	65.0	36.6	133.3	0.0	67.8
WJ3000972	0.44	54.68	185.0	65.0	35.4	133.8	0.0	68.4
WJ56492	36.43	87.47	186.9	317.0	22.5	423.8	0.0	70.4
WJ3000046	0.73	57.19	185.1	65.0	38.1	136.3	0.0	70.5
WJ3000434	0.34	48.92	185.2	65.0	32.1	136.5	0.0	71.2
WJ3000966	0.9	60.64	185.1	65.0	40.5	137.6	0.0	71.7
WJ51936	0.21	71.22	185.2	190.0	26.4	264.6	0.0	74.4
WJ3000337	0.61	71.08	185.2	190.0	26.6	266.2	0.0	75.6
WJ3000012	0.4	51.96	185.2	65.0	35.2	142.1	0.0	76.7
WJ38310	0.29	79.26	185.3	190.0	31.1	267.7	0.0	77.4
WJ3000970	0.36	58.28	185.0	65.0	39.5	143.3	0.0	77.9
WJ3000579	0.48	54.33	185.1	65.0	37.2	144.8	0.0	79.3
WJ3000859	0.03	82.25	185.4	190.0	33.3	270.0	0.0	80.0
WJ3000065	0.69	79.96	185.3	190.0	32.3	272.0	0.0	81.3
WJ3000968	0.33	59.68	185.1	65.0	41.3	146.8	0.0	81.4
WJ3000979	0.01	68.6	185.2	65.0	48.9	147.4	0.0	82.4
WJ3000002	0.38	57.39	185.1	65.0	39.9	148.1	0.0	82.7
WJ3000001	0.44	58.38	185.1	65.0	40.6	148.3	0.0	82.8
WJ3000858	0.18	82.73	185.4	190.0	34.2	273.1	0.0	83.0
WJ3000445	0.36	72.51	185.2	65.0	51.9	148.8	0.0	83.4
WJ55199	0.05	80.87	185.2	65.0	58.5	148.9	0.0	83.9
WJ3000802	0.38	67.19	185.2	65.0	48.3	149.9	0.0	84.6
WJ3000444	0.13	72.33	185.2	65.0	52.0	150.1	0.0	84.9
WJ27615	0.47	81.19	185.4	190.0	33.9	275.9	0.0	85.4
WJ23834	0.47	50.29	185.2	65.0	35.1	151.6	0.0	86.1

Attachment D

17103 - Eglinton Laird Intensification Water Modelling - Jan 2018 - Ex system Max Daily Demand with Fireflow Simulation Run

Note:- At any given node the Available Flow at Hydrant must be greater than Total demand. Therefore the Residual Fire Flow at any node should be greater than Zero (indicating a greater available fire flow than what is required).

ID	Static Demand (L/s)	Static Pressure (psi)	Static Head (m)	Fire-Flow Demand (L/s)	Residual Pressure (psi)	Available Flow at Hydrant (L/s)	Available Flow Pressure (psi)	Residual Fire Flow (L/s)
WJ3000372	0.1	68.26	185.2	65.0	49.5	151.7	0.0	86.6
WJ38309	0.62	79.23	185.3	190.0	33.3	277.6	0.0	87.0
WJ3000094	0.61	38.88	185.2	65.0	26.2	154.5	0.0	88.9
WJ3000073	1.18	73.29	185.2	65.0	53.5	155.4	0.0	89.2
WJ3000883	0.71	55.54	185.1	65.0	39.4	155.4	0.0	89.7
WJ3000347	0.66	78.19	185.4	190.0	33.4	280.4	0.0	89.7
WJ3000853	1.16	71.23	185.3	190.0	29.7	281.0	0.0	89.8
WJ3000969	0.11	59.51	185.1	65.0	42.2	155.2	0.0	90.1
WJ56502	0.28	80.67	185.2	65.0	59.5	155.6	0.0	90.3
WJ55201	0.1	80.67	185.2	65.0	59.6	155.4	0.0	90.3
WJ3000480	0.67	59.69	185.1	65.0	42.9	156.7	0.0	91.0
WJ3000435	0.29	57.35	185.2	65.0	41.2	156.3	0.0	91.1
WJ3000095	0.03	39.61	185.2	65.0	27.0	156.2	0.0	91.1
WJ3000479	0.51	59.45	185.1	65.0	42.8	157.9	0.0	92.4
WJ3000791	0.06	49.86	185.2	65.0	35.5	158.1	0.0	93.1
WJ3000013	0.31	57.38	185.2	65.0	41.6	160.5	0.0	95.2
WJ3000003	0.41	55.43	185.1	65.0	39.8	161.4	0.0	95.9
WJ3000924	0.92	71.21	185.4	190.0	31.0	287.9	0.0	97.0
WJ3000279	0.48	54.75	185.2	65.0	39.7	162.7	0.0	97.2
WJ3000281	0.24	70.82	185.2	65.0	52.9	162.8	0.0	97.6
WJ3000055	0.18	49.55	185.2	65.0	35.6	163.2	0.0	98.1
WJ3000115	0.48	56.57	185.2	65.0	41.4	163.5	0.0	98.1
WJ3000289	0.35	52.91	185.2	65.0	38.5	164.7	0.0	99.3
WJ23835	0.49	50.68	185.2	65.0	36.7	165.3	0.0	99.8
WJ3001165	0.19	77.1	185.6	190.0	35.0	290.0	0.0	99.8
WJ3000064	0.12	79.9	185.3	190.0	36.1	290.0	0.0	99.9
WJ3000278	0.12	50.21	185.2	65.0	36.3	165.7	0.0	100.6
WJ27574	0.58	81.3	185.4	190.0	37.1	291.2	0.0	100.6
WJ27614	0.12	81.43	185.4	190.0	37.2	290.9	0.0	100.8
WJ27596	0.32	81.52	185.4	190.0	37.4	291.9	0.0	101.6
WJ3000096	0.11	42.87	185.2	65.0	30.3	167.0	0.0	101.9
WJ27634	0.4	81.74	185.4	190.0	37.8	293.2	0.0	102.8
WJ3000977	0.29	75.85	185.3	190.0	34.6	294.5	0.0	104.2
WJ38171	1.15	84.36	186.4	190.0	40.7	295.9	0.0	104.8
WJ3000860	0.14	82.51	185.4	190.0	38.7	295.1	0.0	105.0
WJ3000443	0.24	71.4	185.2	65.0	54.1	170.2	0.0	105.0
WJ27654	0.05	83.75	185.4	190.0	39.4	295.5	0.0	105.5
WJ3000097	0.14	44.04	185.2	65.0	31.5	170.7	0.0	105.5

Attachment D

17103 - Eglinton Laird Intensification Water Modelling - Jan 2018 - Ex system Max Daily Demand with Fireflow Simulation Run

Note:- At any given node the Available Flow at Hydrant must be greater than Total demand. Therefore the Residual Fire Flow at any node should be greater than Zero (indicating a greater available fire flow than what is required).

ID	Static Demand (L/s)	Static Pressure (psi)	Static Head (m)	Fire-Flow Demand (L/s)	Residual Pressure (psi)	Available Flow at Hydrant (L/s)	Available Flow Pressure (psi)	Residual Fire Flow (L/s)
WJ3000436	0.4	63.57	185.2	65.0	47.8	171.2	0.0	105.8
WJ3000535	0.08	76.56	185.4	190.0	35.6	296.4	0.0	106.3
WJ3000852	0.38	68.31	185.3	65.0	51.9	172.1	0.0	106.7
WJ3000355	0.18	73.92	185.2	65.0	56.4	172.7	0.0	107.6
WJ3000346	0.95	76.96	185.4	190.0	36.0	298.8	0.0	107.8
WJ23838	0.43	51.82	185.2	65.0	38.3	173.4	0.0	108.0
WJ3000482	0.24	62.95	185.2	65.0	47.7	173.6	0.0	108.4
WJ3000354	0.31	72.13	185.2	65.0	55.2	174.8	0.0	109.5
WJ3000483	0.23	63.08	185.2	65.0	48.0	175.3	0.0	110.1
WJ3000629	0.61	83.99	185.6	190.0	40.7	300.8	0.0	110.2
WJ3000581	0.42	63.27	185.2	65.0	48.0	176.2	0.0	110.8
WJ3000116	0.3	57.63	185.2	65.0	43.4	176.1	0.0	110.8
WJ3000049	0.4	59	185.2	65.0	44.4	176.3	0.0	110.9
WJ3000583	0.18	67.5	185.2	65.0	51.8	176.2	0.0	111.1
WJ3000048	0.07	59.22	185.1	65.0	44.6	176.5	0.0	111.4
WJ3000166	0.94	79	185.4	190.0	37.8	303.1	0.0	112.1
WJ3000481	0.66	61.54	185.2	65.0	46.7	178.1	0.0	112.4
WJ3000060	0.01	79.68	185.3	190.0	38.2	302.7	0.0	112.7
WJ3000580	0.3	57.99	185.1	65.0	43.6	179.1	0.0	113.8
WJ38249	0.01	83.16	185.5	190.0	40.8	303.9	0.0	113.9
WJ3000437	0.37	67.24	185.2	65.0	51.6	179.6	0.0	114.2
WJ3000511	0.22	81.42	185.4	190.0	39.7	304.7	0.0	114.5
WJ3001072	0.04	78.6	185.3	190.0	37.9	304.7	0.0	114.6
WJ3000857	0.15	80.2	185.3	190.0	38.9	304.9	0.0	114.8
WJ3000508	1.59	80.56	185.4	190.0	39.5	307.9	0.0	116.3
WJ3000120	0.54	74.97	185.5	190.0	36.4	307.4	0.0	116.9
WJ3000118	0.03	74.68	185.5	190.0	36.4	308.6	0.0	118.6
WJ3000442	0.36	70.15	185.2	65.0	54.6	185.2	0.0	119.8
WJ38271	0.01	82.71	185.5	190.0	41.4	310.0	0.0	120.0
WJ3000438	0.44	68.48	185.2	65.0	53.3	186.3	0.0	120.8
WJ38273	0.04	82.71	185.5	190.0	41.6	311.4	0.0	121.4
WJ38289	0.99	82.49	185.5	190.0	41.5	312.5	0.0	121.5
WJ3000212	1.1	49.91	185.2	65.0	37.4	187.7	0.0	121.6
WJ56421	0.23	72.53	185.2	65.0	56.8	187.1	0.0	121.8
WJ3000280	0.59	67.99	185.2	65.0	53.0	187.8	0.0	122.2
WJ38269	0.17	82.71	185.5	190.0	41.8	312.8	0.0	122.6
WJ3000167	0.27	83.72	185.4	190.0	42.4	313.0	0.0	122.7
WJ55196	0.36	78.16	185.2	65.0	61.6	188.3	0.0	122.9

Attachment D

17103 - Eglinton Laird Intensification Water Modelling - Jan 2018 - Ex system Max Daily Demand with Fireflow Simulation Run

Note:- At any given node the Available Flow at Hydrant must be greater than Total demand. Therefore the Residual Fire Flow at any node should be greater than Zero (indicating a greater available fire flow than what is required).

ID	Static Demand (L/s)	Static Pressure (psi)	Static Head (m)	Fire-Flow Demand (L/s)	Residual Pressure (psi)	Available Flow at Hydrant (L/s)	Available Flow Pressure (psi)	Residual Fire Flow (L/s)
WJ3000098	0.24	50.36	185.2	65.0	37.9	188.5	0.0	123.2
WJ3000792	0.56	54.23	185.2	65.0	41.4	189.2	0.0	123.6
WJ3000925	0.3	75.66	185.5	190.0	37.7	314.3	0.0	124.0
WJ38229	0.14	83.19	185.5	190.0	42.6	314.5	0.0	124.4
WJ26597	0.24	76.57	185.4	190.0	38.3	314.7	0.0	124.4
WJ3000923	0.27	69.31	185.3	65.0	54.3	190.3	0.0	125.1
WJ3000575	0.02	78.59	185.4	190.0	39.6	315.1	0.0	125.1
WJ3000530	0.01	78.56	185.4	190.0	39.6	315.6	0.0	125.5
WJ3000803	0.15	69.27	185.2	65.0	54.5	191.5	0.0	126.3
WJ50353	0.19	86.87	187.5	190.0	47.2	317.4	0.0	127.2
WJ3000525	0.33	75.57	185.5	190.0	38.2	317.7	0.0	127.4
WJ3000526	0.01	75.61	185.5	190.0	38.2	317.4	0.0	127.4
WJ56397	0.08	74.41	185.2	65.0	58.8	192.7	0.0	127.6
WJ3000051	0.47	59.91	185.2	65.0	46.5	193.3	0.0	127.8
WJ3000585	0.03	71.68	185.2	65.0	56.8	192.9	0.0	127.9
WJ56401	0.08	71.96	185.2	65.0	56.8	193.5	0.0	128.4
WJ26594	0.27	78.63	185.4	190.0	40.1	318.7	0.0	128.4
WJ3000804	0.2	68.61	185.2	65.0	54.2	194.9	0.0	129.7
WJ56393	0.15	72.53	185.2	65.0	57.7	198.9	0.0	133.8
WJ3000919	0.41	62.8	185.2	65.0	49.5	199.8	0.0	134.4
WJ3000920	0.28	68.68	185.2	65.0	54.7	200.1	0.0	134.8
WJ3000886	0.61	71.02	185.2	65.0	56.8	200.8	0.0	135.2
WJ3000572	0.53	73	185.2	65.0	58.5	200.8	0.0	135.2
WJ3000793	0.4	55.88	185.2	65.0	43.6	202.8	0.0	137.4
WJ3000807	0.38	74.32	185.2	65.0	59.8	203.9	0.0	138.6
WJ3000005	0.26	72.98	185.2	65.0	58.7	203.9	0.0	138.7
WJ3000584	0.07	69.78	185.2	65.0	56.0	204.5	0.0	139.5
WJ3000315	0.9	70.5	185.2	65.0	56.4	205.8	0.0	139.9
WJ3000563	0.25	54.94	185.2	65.0	42.8	205.6	0.0	140.3
WJ22402	0.34	73.72	185.2	65.0	59.5	206.1	0.0	140.7
WJ3000885	0.35	71.39	185.2	65.0	57.5	206.3	0.0	140.9
WJ3000624	0.09	55.06	185.2	65.0	43.0	206.6	0.0	141.5
WJ56399	0.09	74.66	185.2	65.0	60.1	206.8	0.0	141.7
WJ51883	0.44	57.83	185.2	65.0	45.4	207.8	0.0	142.3
WJ56395	0.19	74.41	185.2	65.0	59.9	207.7	0.0	142.5
WJ3000282	0.77	73.52	185.2	65.0	59.2	208.9	0.0	143.1
WJ3000332	0.58	57.83	185.2	65.0	45.5	209.5	0.0	144.0
WJ50354	0.02	86.9	187.6	190.0	49.9	334.8	0.0	144.8

Attachment D

17103 - Eglinton Laird Intensification Water Modelling - Jan 2018 - Ex system Max Daily Demand with Fireflow Simulation Run

Note:- At any given node the Available Flow at Hydrant must be greater than Total demand. Therefore the Residual Fire Flow at any node should be greater than Zero (indicating a greater available fire flow than what is required).

ID	Static Demand (L/s)	Static Pressure (psi)	Static Head (m)	Fire-Flow Demand (L/s)	Residual Pressure (psi)	Available Flow at Hydrant (L/s)	Available Flow Pressure (psi)	Residual Fire Flow (L/s)
WJ56394	0.23	71.96	185.2	65.0	57.9	210.1	0.0	144.9
WJ3000628	0.47	82.9	185.6	190.0	45.4	336.3	0.0	145.9
WJ56384	0.06	70.52	185.2	65.0	56.8	211.1	0.0	146.0
WJ50362	0.02	85.98	187.5	190.0	49.5	336.1	0.0	146.0
WJ3000316	0.96	73.8	185.2	65.0	59.7	212.5	0.0	146.6
WJ22421	0.22	75.37	185.3	65.0	61.4	212.7	0.0	147.5
WJ3000099	0.28	59.47	185.2	65.0	47.1	213.3	0.0	148.0
WJ3000054	0.19	57.55	185.2	65.0	45.5	214.1	0.0	148.9
WJ3000071	0.09	78.64	185.2	65.0	64.0	214.1	0.0	149.0
WJ51882	0.05	57.83	185.2	65.0	45.8	214.8	0.0	149.8
WJ51914	0.08	63.95	185.2	65.0	51.3	215.3	0.0	150.2
WJ3000573	0.07	77.26	185.3	65.0	63.4	216.2	0.0	151.1
WJ3000808	0.25	75.65	185.2	65.0	61.9	216.7	0.0	151.4
WJ3000794	0.34	58.7	185.2	65.0	46.8	217.8	0.0	152.5
WJ3000070	0.17	79.16	185.2	65.0	64.7	217.7	0.0	152.5
WJ3000439	0.22	69.44	185.2	65.0	56.2	218.3	0.0	153.1
WJ53276	0.07	76.35	185.3	65.0	62.7	218.8	0.0	153.8
WJ50350	0.01	86.01	187.6	190.0	50.6	344.1	0.0	154.1
WJ53269	0.04	76.36	185.3	65.0	62.8	219.4	0.0	154.4
WJ53252	0.3	72.03	185.3	65.0	58.7	219.7	0.0	154.4
WJ3000805	0.19	71.35	185.2	65.0	58.2	220.1	0.0	154.9
WJ53264	0.04	76.35	185.3	65.0	62.8	220.4	0.0	155.4
WJ3000441	0.06	69.3	185.2	65.0	56.2	220.6	0.0	155.5
WJ56382	0.13	70.49	185.2	65.0	57.3	220.8	0.0	155.7
WJ3000806	0.25	71.67	185.2	65.0	58.5	221.1	0.0	155.9
WJ3000100	0.42	62.7	185.2	65.0	50.4	223.2	0.0	157.7
WJ3000631	0.1	84.13	185.6	190.0	47.8	349.6	0.0	159.5
WJ3000440	0.11	69.41	185.2	65.0	56.5	224.7	0.0	159.5
WJ24325	1.11	84.13	185.6	190.0	47.8	350.9	0.0	159.8
WJ3000544	1.22	84.93	186.4	65.0	71.8	226.4	0.0	160.1
WJ3000283	0.55	80.03	185.2	65.0	66.1	227.3	0.0	161.8
WJ51893	0.02	71.37	185.2	65.0	58.5	227.0	0.0	162.0
WJ53277	0.44	76.35	185.3	65.0	63.2	228.6	0.0	163.1
WJ3000520	0.31	76.17	185.4	65.0	63.3	229.9	0.0	164.6
WJ3000069	0.57	79.74	185.2	65.0	66.0	231.1	0.0	165.5
WJ51892	0.06	70.65	185.2	65.0	58.0	231.1	0.0	166.1
WJ3000625	0.41	61.43	185.2	65.0	49.7	232.1	0.0	166.6
WJ51894	0.26	63.95	185.2	65.0	52.0	233.7	0.0	168.4

Attachment D

17103 - Eglinton Laird Intensification Water Modelling - Jan 2018 - Ex system Max Daily Demand with Fireflow Simulation Run

Note:- At any given node the Available Flow at Hydrant must be greater than Total demand. Therefore the Residual Fire Flow at any node should be greater than Zero (indicating a greater available fire flow than what is required).

ID	Static Demand (L/s)	Static Pressure (psi)	Static Head (m)	Fire-Flow Demand (L/s)	Residual Pressure (psi)	Available Flow at Hydrant (L/s)	Available Flow Pressure (psi)	Residual Fire Flow (L/s)
WJ3000101	0.43	66.26	185.2	65.0	54.1	234.7	0.0	169.3
WJ3000982	1.28	83.17	186.7	190.0	50.1	360.8	0.0	169.6
WJ38150	1.92	85.9	187.5	190.0	52.4	363.1	0.0	171.1
WJ3000068	0.64	80.19	185.2	65.0	66.9	240.4	0.0	174.8
WJ3000102	0.43	69.09	185.2	65.0	57.0	243.3	0.0	177.9
WJ3000334	0.06	70.07	185.2	65.0	58.1	246.1	0.0	181.0
WJ3000574	0.9	78.19	185.3	65.0	65.8	247.1	0.0	181.2
WJ56389	0.14	70.52	185.2	65.0	58.4	247.4	0.0	182.3
WJ50348	0.42	86.02	187.6	190.0	53.8	372.8	0.0	182.4
WJ3000582	0.42	67.2	185.2	65.0	55.5	248.9	0.0	183.5
WJ56431	0.07	70.98	185.2	65.0	58.9	249.0	0.0	184.0
WJ56380	0.09	70.49	185.2	65.0	58.5	249.2	0.0	184.1
WJ3001088	0.22	89.13	189.5	190.0	59.2	374.7	0.0	184.4
WJ56385	0.07	70.52	185.2	65.0	58.5	250.0	0.0	184.9
WJ3000795	0.51	67.74	185.2	65.0	56.2	250.5	0.0	185.0
WJ51908	0.16	70.07	185.2	65.0	58.3	254.2	0.0	189.1
WJ3000067	0.57	80.18	185.2	65.0	67.6	254.7	0.0	189.1
WJ51898	0.23	70.08	185.2	65.0	58.3	254.7	0.0	189.4
WJ3000626	1.04	71.27	185.2	65.0	59.8	263.7	0.0	197.7
WJ3000796	0.39	71.12	185.2	65.0	59.8	263.6	0.0	198.2
WJ51910	0.22	71.22	185.2	65.0	59.7	265.4	0.0	200.2
WJ51937	0.15	71.23	185.2	65.0	59.8	266.2	0.0	201.1
WJ3000632	0.79	87.02	186.1	190.0	54.8	392.3	0.0	201.6
WJ3000004	1.02	72.48	185.2	65.0	61.2	272.5	0.0	206.5
WJ50358	1.56	87.06	187.7	190.0	57.3	401.4	0.0	209.9
WJ53257	0.12	72.03	185.3	65.0	60.9	275.1	0.0	209.9
WJ53253	0.49	72.18	185.3	65.0	61.1	276.5	0.0	211.0
WJ53255	0.17	72.04	185.3	65.0	61.0	276.6	0.0	211.4
WJ3000758	2.59	84.06	186.4	190.0	54.0	405.1	0.0	212.5
WJ3000797	0.29	75.82	185.3	65.0	64.6	278.3	0.0	213.0
WJ3000798	0.98	76.5	185.3	65.0	65.5	288.1	0.0	222.1
WJ3000062	0.05	80.19	185.3	65.0	69.4	304.2	0.0	239.1
WJ3000759	5.37	83.8	186.7	190.0	56.6	438.6	0.0	243.3
WJ3000760	2.34	83.93	186.7	190.0	56.8	437.4	0.0	245.1
WJ26595	0.02	76.56	185.4	65.0	66.3	311.5	0.0	246.5
WJ26598	0.01	76.57	185.4	65.0	66.3	314.3	0.0	249.3
WJ3000507	0.31	77.97	185.4	65.0	67.7	317.0	0.0	251.7
WJ3000532	0.02	78.63	185.4	65.0	68.3	318.3	0.0	253.2

Attachment D

17103 - Eglinton Laird Intensification Water Modelling - Jan 2018 - Ex system Max Daily Demand with Fireflow Simulation Run

Note:- At any given node the Available Flow at Hydrant must be greater than Total demand. Therefore the Residual Fire Flow at any node should be greater than Zero (indicating a greater available fire flow than what is required).

ID	Static Demand (L/s)	Static Pressure (psi)	Static Head (m)	Fire-Flow Demand (L/s)	Residual Pressure (psi)	Available Flow at Hydrant (L/s)	Available Flow Pressure (psi)	Residual Fire Flow (L/s)
WJ3001087	0.81	89.5	189.5	190.0	66.1	453.1	0.0	262.3
WJ3000767	11.04	89.77	189.5	317.0	55.9	621.0	0.0	293.0
WJ3000984	0.27	86.39	187.9	190.0	63.2	490.0	0.0	299.8
WJ3000761	2.29	87.52	188.0	190.0	67.0	548.0	0.0	355.7
WJ3000762	0.35	87.35	188.0	190.0	67.1	550.7	0.0	360.3
WJ3000763	2.27	87.37	188.1	190.0	67.1	553.4	0.0	361.2
WJ3000764	0.38	89.68	189.5	190.0	74.6	684.5	0.0	494.1
WJ3000765	0.18	89.94	189.5	190.0	75.1	691.4	0.0	501.2
J16	0.14	87.39	190.5	190.0	75.7	792.5	0.0	602.4
WJ3000766	0.16	145.97	193.9	190.0	145.6	8549.5	0.0	8359.3

Attachment E

Attachment E

PN	17103	Eglinton Intensification	Design Criteria	
Project Name	Eglinton and Laird		Residential	191 Lpcd
Date	19-Jan-18		Commercial, Office, Retail, Community Centre	180000 L/ha/day
			Max day Peaking factor ICI=1.1, Res = 1.3	Peak Hour Peaking factor ICI=1.2, Res = 2.5

Zone	ADDRESS	BUILDING NO.	ICI AREA (m2)	RESIDENTIAL Units	RES POP	Average Day Scenario		Max Day Scenario		Peak Hour Scenario	
						ICI Demands (L/s)	Residential Demands (L/s)	ICI Demands (L/s)	Residential Demands (L/s)	ICI Demands (L/s)	Residential Demands (L/s)
A1-1	815-845 Eglinton Ave E	1	3,200	197	351	0.67	0.78	0.73	1.01	0.80	1.94
		2	6,950	556	989	1.45	2.19	1.59	2.84	1.74	5.47
		3	0	298	530	0.00	1.17	0.00	1.52	0.00	2.93
A1-2		4	8,990			1.87	0.00	2.06	0.00	2.25	0.00
A1-3		5		335	596	0.00	1.32	0.00	1.71	0.00	3.29
		6	5,340			1.11	0.00	1.22	0.00	1.34	0.00
A2-1	849 Eglinton Avenue E	1	4,370	268	476	0.91	1.05	1.00	1.37	1.09	2.63
A2-2		2		250	445	0.00	0.98	0.00	1.28	0.00	2.46
		3	8,280			1.73	0.00	1.90	0.00	2.07	0.00
A3-1	939 Eglinton Avenue E	1	1,285	336	598	0.27	1.32	0.29	1.72	0.32	3.30
		2	555	172	306	0.12	0.68	0.13	0.88	0.14	1.69
		3		353	628	0.00	1.39	0.00	1.81	0.00	3.47
		4	4,300			0.90	0.00	0.99	0.00	1.08	0.00
A4-1	943-957 Eglinton Avenue E	1	1,400	314	558	0.29	1.23	0.32	1.60	0.35	3.09
		2		107	190	0.00	0.42	0.00	0.55	0.00	1.05
A4-2		3		234	416	0.00	0.92	0.00	1.19	0.00	2.30
A4-3		4		337	600	0.00	1.33	0.00	1.73	0.00	3.32
Total			44670	3755	6684	9.31	14.78	10.24	19.21	11.17	36.94
						24.08		29.45		48.11	

Attachment E

PN	17103	Laird Intensification	Design Criteria	
Project Name	Eglinton and Laird		Residential	320 Lpcd
Date	19-Jan-18		Commercial, Office, Retail, Community Centre	180000 L/ha/day
			Max day Peaking factor ICI=1.1, Res = 1.65	Peak Hour Peaking factor ICI=1.2, Res = 2.48

Zone	Address	ICI AREA (m2)	RESIDENTIAL Units	RES POP	Average Day Scenario		Max Day Scenario		Peak Hour Scenario	
					ICI Demands (L/s)	Residential Demands (L/s)	ICI Demands (L/s)	Residential Demands (L/s)	ICI Demands (L/s)	Residential Demands (L/s)
B1-1	83 Vanderhoof Avenue	324	8	18	0.07	0.07	0.07	0.11	0.08	0.17
	214 Laird Drive									
B1-2	206-210 Laird Drive	970	68	151	0.20	0.56	0.22	0.92	0.24	1.38
B2-1	202 Laird Drive	616	48	97	0.13	0.36	0.14	0.59	0.15	0.89
	190-200 Laird Drive									
B2-2	211 Randolph Street	0	68	150	0.00	0.55	0.00	0.91	0.00	1.37
B3-1	180 Laird Drive	508	0	0	0.11	0.00	0.12	0.00	0.13	0.00
B3-2	146-150 Laird Drive	11,451	253	557	2.39	2.06	2.62	3.40	2.86	5.11
B3-3	134 Laird Drive	963	76	166	0.20	0.62	0.22	1.02	0.24	1.53
B4-1	132 Laird Drive	2760	217	476	0.57	1.76	0.63	2.91	0.69	4.38
	126 Laird Drive									
	120-124 Laird Drive									
	118 Laird Drive									
	116 Laird Drive									
	114 Laird Drive									
	110 Laird Drive									
B4-2	96-96A Laird Drive	250	2	4	0.05	0.02	0.06	0.03	0.06	0.04
B5-1	94 Laird Drive	1,716	135	296	0.36	1.10	0.39	1.81	0.43	2.72
	86-88 Laird Drive									
	80-82 Laird Drive									
	76-78 Laird Drive									
B5-2	72 Laird Drive	120	0	0	0.03	0.00	0.03	0.00	0.03	0.00
B5-3	70 Laird Drive	75	0	0	0.02	0.00	0.02	0.00	0.02	0.00
B5-4	68 Laird Drive	75	0	0	0.02	0.00	0.02	0.00	0.02	0.00
B5-5	66 Laird Drive	90	0	0	0.02	0.00	0.02	0.00	0.02	0.00
B5-6	62 Laird Drive	365	0	0	0.08	0.00	0.08	0.00	0.09	0.00
B6-1	46-48 Laird Drive	733	57	0	0.15	0.00	0.17	0.00	0.18	0.00
	44 Laird Drive									
B6-2	42 Laird Drive	75	7	15	0.02	0.06	0.02	0.09	0.02	0.14
	40 Laird Drive									
	30 Laird Drive									
B7-1	2 Laird Drive	0	78	172	0.00	0.64	0.00	1.05	0.00	1.58
Total		21,090	1,017	2,102	4.39	7.78	4.83	12.84	5.27	19.30
					12.18		17.68		24.58	

Attachment E

Zone	Address	Existing Average Day demand (Meter Data)	Model Nodes	Proposed Average Day demand	Model Nodes
A1-1	815-845 Eglinton Ave E	0.202	WJ51918,WJ51927	6.25	J18
A1-2				1.87	J20
A1-3				2.43	J22
A2-1	849 Eglinton Avenue E		WJ3000996	1.96	J24
A2-2				2.71	J26
A3-1	939 Eglinton Avenue E	0.501		4.67	J28
A4-1	943-957 Eglinton Avenue E	0.097	WJ3000065,WJ51925	1.95	J30
A4-2				0.92	J32
A4-3				1.33	J34
B1-1	83 Vanderhoof Avenue	0.007	WJ3000995	0.13	J50
	214 Laird Drive	0.015	WJ3000995		
B1-2	206-210 Laird Drive	0.091	WJ3000800	0.76	J52
B2-1	202 Laird Drive	0.025	WJ3000528	0.49	J54
	190-200 Laird Drive	0.143	WJ3000529		
B2-2	211 Randolph Street	0.323	WJ3000798	0.55	J56
B3-1	180 Laird Drive	0.017	WJ3001074	0.11	J58
B3-2	146-150 Laird Drive	0.178	WJ26594	4.45	J60
B3-3	134 Laird Drive	0.006	WJ26594	0.82	J62
B4-1	132 Laird Drive	0.01	WJ26594	2.34	J66
	126 Laird Drive	0.005	WJ26594		
	120-124 Laird Drive	0.019	WJ26594		
	118 Laird Drive	0.002	WJ26594		
	116 Laird Drive	0.002	WJ26597		
	114 Laird Drive	0.022	WJ26597		
	110 Laird Drive	0.007	WJ26597		
B4-2	96-96A Laird Drive	0.05	WJ26597	0.07	J68
B5-1	94 Laird Drive	0.047	WJ26597	1.45	J72
	86-88 Laird Drive	0.028	WJ26597		
	80-82 Laird Drive	0.054	WJ26597		
	76-78 Laird Drive	0.006	WJ3000345		
B5-2	72 Laird Drive	0.004	WJ3000345	0.03	J76
B5-3	70 Laird Drive	0.011	WJ3000345	0.02	
B5-4	68 Laird Drive	0.003	WJ3000345	0.02	
B5-5	66 Laird Drive	0.004	WJ3000345	0.02	J78
B5-6	62 Laird Drive	0	-	0.08	
B6-1	46-48 Laird Drive	0.005	WJ3000345	0.15	J80
	44 Laird Drive	0.004	WJ3000525		
B6-2	42 Laird Drive	0.001	WJ3000525	0.07	J82
	40 Laird Drive	0.003	WJ3000525		
	30 Laird Drive	0	WJ3000525		
B7-1	2 Laird Drive	0	-	0.64	J84

Attachment F

Attachment F

17103 - Eglinton Laird Intensification Water Modelling - Jan 2018- Post-Dev System Average Day Demand Run				
ID	Demand (L/s)	Elevation (m)	Head (m)	Pressure (psi)
WJ4018275	0	158.22	188.72	43.36
WJ3000094	0.34	157.83	188.72	43.93
WJ31211	0	157.5	188.72	44.39
WJ3000095	0.02	157.31	188.72	44.66
WJ3000011	0.16	155.74	188.72	46.89
WJ3000096	0.06	155.02	188.72	47.91
WJ3000097	0.08	154.19	188.72	49.09
WJ3000432	0.25	154.11	188.72	49.21
WJ3000433	0.12	153.32	188.72	50.32
WJ3000030	0.31	150.95	188.74	53.73
WJ56006	0	150.93	188.72	53.73
WJ3000029	0.32	150.84	188.76	53.9
WJ3000434	0.19	150.76	188.72	53.97
WJ31228	0	150.5	188.77	54.4
WJ3000055	0.1	150.32	188.72	54.6
WJ52820	0	150	188.62	54.9
WJ3000791	0.03	150.12	188.77	54.95
WJ3000212	0.59	150.06	188.72	54.96
WJ52818	0.08	149.95	188.62	54.97
WJ3000278	0.07	149.86	188.72	55.26
WJ23834	0.26	149.81	188.77	55.38
WJ3000098	0.13	149.75	188.72	55.41
WJ14740	0.03	149.4	188.62	55.75
WJ23835	0.27	149.54	188.77	55.77
WJ55511	0	149.24	188.72	56.13
WJ3000028	0.28	148.91	188.76	56.65
WJ23838	0.24	148.74	188.77	56.91
WJ3000012	0.22	148.62	188.72	57.01
WJ3000350	0.03	148.06	188.62	57.65
WJ23837	0.21	148.18	188.77	57.7
WJ55513	0	148.12	188.72	57.72
WJ3000037	0.16	147.96	188.62	57.79
WJ52814	0.03	147.9	188.62	57.88
WJ52782	0.02	147.82	188.62	58
WJ3000289	0.19	147.96	188.77	58.01
WJ3000351	0.02	147.81	188.62	58.01
WJ52806	0.02	147.8	188.62	58.02
WJ52813	0.14	147.8	188.62	58.02
WJ52781	0	147.7	188.62	58.17
WJ52784	0	147.7	188.62	58.17
WJ3001142	0.05	147.68	188.62	58.19
WJ3000756	0.01	147.66	188.62	58.23

Attachment F

17103 - Eglinton Laird Intensification Water Modelling - Jan 2018- Post-Dev System Average Day Demand Run				
ID	Demand (L/s)	Elevation (m)	Head (m)	Pressure (psi)
WJ31227	0.05	147.81	188.78	58.24
WJ300002	0.45	147.77	188.76	58.26
WJ300049	0.03	147.57	188.62	58.35
WJ300035	0.07	147.48	188.62	58.48
WJ401823	0	147.52	188.72	58.57
WJ55837	0	147.4	188.72	58.74
WJ52804	0.02	147.2	188.62	58.88
WJ300004	0.04	147.19	188.62	58.89
WJ300109	0.05	147.14	188.62	58.96
WJ300049	0	147.08	188.62	59.05
WJ300034	0.07	147.02	188.62	59.14
WJ52807	0.08	147	188.62	59.16
WJ300079	0.31	147.05	188.77	59.31
WJ52809	0.05	146.8	188.62	59.45
WJ300057	0.27	146.9	188.76	59.51
WJ300039	0.03	146.64	188.62	59.67
WJ300027	0.26	146.66	188.72	59.8
WJ300003	0.12	146.45	188.62	59.95
WJ300097	0.24	146.57	188.74	59.96
WJ300056	0.14	146.55	188.78	60.03
WJ300057	0.21	146.48	188.76	60.1
WJ300062	0.05	146.46	188.78	60.15
WJ52803	0.02	146.18	188.62	60.33
WJ300097	0.19	146.18	188.74	60.5
WJ300000	0.23	146.1	188.76	60.64
WJ300124	0.07	146.06	188.76	60.7
WJ300056	0.16	145.98	188.69	60.71
WJ300088	0.39	146.06	188.76	60.71
WJ52787	0.01	145.8	188.62	60.87
WJ300005	0.13	145.74	188.62	60.95
WJ300079	0.22	145.89	188.77	60.96
WJ14604	0.03	145.6	188.62	61.15
WJ52786	0.05	145.6	188.62	61.15
WJ300004	0.04	145.42	188.76	61.61
WJ300005	0.29	145.43	188.78	61.63
WJ300011	0.27	145.4	188.77	61.66
WJ14724	0.07	145.2	188.62	61.72
WJ300053	0.19	145.25	188.69	61.76
WJ300011	0.09	145.22	188.77	61.91
WJ300087	0.3	145.1	188.74	62.04
WJ51871	0.25	145.01	188.73	62.15
WJ300002	0.02	144.89	188.62	62.16

17103 - Eglinton Laird Intensification Water Modelling - Jan 2018-Post-Dev System Average Day Demand Run				
ID	Demand (L/s)	Elevation (m)	Head (m)	Pressure (psi)
WJ300053	0.13	144.93	188.69	62.2
WJ54892	0.23	144.91	188.72	62.27
WJ300004	0.4	144.9	188.76	62.35
WJ300043	0.16	144.83	188.72	62.4
WJ300001	0.17	144.81	188.72	62.43
WJ14675	0.1	144.6	188.62	62.57
WJ300005	0.1	144.7	188.73	62.59
WJ300000	0.21	144.72	188.75	62.6
WJ300053	0.13	144.65	188.72	62.64
WJ300011	0.17	144.66	188.77	62.71
WJ300003	0.09	144.43	188.62	62.82
WJ51882	0.03	144.5	188.73	62.87
WJ51883	0.24	144.5	188.73	62.87
WJ51947	0	144.5	188.73	62.87
WJ300033	0.29	144.5	188.73	62.88
WJ300087	0.05	144.48	188.73	62.9
WJ300058	0.17	144.34	188.76	63.15
WJ57286	0.21	144	188.62	63.42
WJ17209	0	144	188.63	63.44
WJ17210	0.28	144	188.63	63.44
WJ52780	0	143.98	188.63	63.47
WJ300004	0.19	143.95	188.62	63.49
WJ300004	0.22	143.92	188.62	63.54
WJ101824	0	143.93	188.63	63.55
WJ300097	0.2	144.01	188.73	63.57
WJ300000	0.24	144.02	188.75	63.59
WJ300002	0.06	143.9	188.63	63.59
WJ300047	0.25	143.99	188.76	63.66
WJ300079	0.19	143.91	188.77	63.77
WJ300085	0.11	143.97	188.86	63.81
WJ14729	0	143.6	188.62	64
WJ14744	0.09	143.6	188.62	64
WJ300004	0.22	143.65	188.77	64.14
WJ300003	0.16	143.47	188.62	64.18
WJ300004	0.04	143.48	188.77	64.37
WJ52792	0.01	143.4	188.74	64.46
WJ300009	0.15	143.34	188.72	64.52
WJ300054	0.17	143.34	188.75	64.56
WJ300047	0.28	143.32	188.78	64.63
WJ300053	0.17	143.19	188.68	64.66
WJ300056	0.08	143.18	188.68	64.68
WJ300096	0.06	143.19	188.74	64.76

17103 - Eglinton Laird Intensification Water Modelling - Jan 2018-Post-Dev System Average Day Demand Run				
ID	Demand (L/s)	Elevation (m)	Head (m)	Pressure (psi)
WJ300048	0.37	143.15	188.78	64.87
WJ300096	0.19	143.07	188.74	64.93
WJ101824	0.48	143.04	188.74	64.97
WJ300005	0.26	143.06	188.77	64.99
WJ300096	0.1	142.75	188.74	65.39
WJ300001	0.19	142.65	188.74	65.52
WJ300001	0.01	142.63	188.74	65.54
WJ52810	0.09	142.48	188.62	65.59
WJ300064	0.21	142.35	188.69	65.87
WJ300096	0.5	142.4	188.74	65.89
WJ300062	0.23	141.99	188.78	66.52
WJ300048	0.08	141.8	188.62	66.55
WJ300048	0.37	141.88	188.77	66.66
WJ300064	0.15	141.69	188.62	66.71
WJ300054	0.06	141.65	188.74	66.94
WJ300056	0.07	141.53	188.66	67.01
WJ300054	0.08	141.47	188.75	67.21
WJ300010	0.23	141.07	188.72	67.75
WJ300064	0.17	141.07	188.74	67.76
WJ300091	0.23	141.03	188.77	67.87
WJ300048	0.14	140.92	188.78	68.03
WJ300048	0.13	140.83	188.78	68.16
WJ300058	0.23	140.66	188.77	68.4
WJ300043	0.22	140.45	188.72	68.62
WJ51894	0.14	140.2	188.73	68.99
WJ51914	0.04	140.2	188.73	68.99
WJ14608	0.04	138.8	188.62	70.82
WJ300010	0.24	138.56	188.72	71.31
WJ300005	0.03	138.16	188.77	71.94
WJ300080	0.21	137.93	188.74	72.23
WJ55845	0	137.9	188.72	72.25
WJ55851	0.01	137.9	188.72	72.25
WJ300043	0.21	137.87	188.72	72.29
WJ300058	0.23	137.94	188.79	72.29
WJ55852	0	137.8	188.72	72.39
WJ300058	0.1	137.72	188.78	72.58
WJ300079	0.28	137.56	188.77	72.81
WJ300028	0.33	137.35	188.72	73.03
WJ300037	0.06	137.19	188.78	73.33
WJ300085	0.2	137.25	188.86	73.37
WJ300088	0.09	137.15	188.8	73.43
WJ300043	0.25	137	188.72	73.52

17103 - Eglinton Laird Intensification Water Modelling - Jan 2018-Post-Dev System Average Day Demand Run				
ID	Demand (L/s)	Elevation (m)	Head (m)	Pressure (psi)
WJ3000978	0	137.01	188.72	73.52
WJ3000804	0.11	136.93	188.74	73.64
WJ3000979	0	136.92	188.72	73.64
WJ3000920	0.16	136.9	188.78	73.74
WJ3000102	0.24	136.57	188.72	74.14
WJ3000803	0.08	136.47	188.74	74.3
WJ3000441	0.03	136.43	188.72	74.35
WJ3000923	0.15	136.54	188.86	74.39
WJ3000440	0.06	136.35	188.72	74.46
WJ3000439	0.12	136.33	188.72	74.48
WJ3000584	0.04	136.13	188.78	74.85
WJ3000334	0.03	135.9	188.73	75.1
WJ51898	0.13	135.9	188.73	75.1
WJ51908	0.09	135.9	188.73	75.1
WJ3000442	0.2	135.82	188.72	75.2
WJ56380	0.05	135.59	188.72	75.53
WJ56382	0.07	135.59	188.72	75.53
WJ3000315	0.5	135.59	188.72	75.54
WJ56384	0.03	135.57	188.72	75.56
WJ56385	0.04	135.57	188.72	75.56
WJ56387	0	135.57	188.72	75.56
WJ56388	0	135.57	188.72	75.56
WJ56389	0.08	135.57	188.72	75.56
WJ51892	0.04	135.5	188.73	75.67
WJ56391	0	135.41	188.72	75.79
WJ3000281	0.14	135.36	188.72	75.86
WJ56431	0.04	135.25	188.72	76.02
WJ3000886	0.34	135.26	188.75	76.03
WJ3000331	0.33	135.2	188.73	76.1
WJ3000796	0.21	135.19	188.77	76.17
WJ3000924	0.5	135.3	188.91	76.22
WJ51910	0.12	135.1	188.73	76.24
WJ51936	0.11	135.1	188.73	76.24
WJ51937	0.08	135.1	188.73	76.25
WJ3000853	0.61	135.22	188.87	76.26
WJ3000626	0.57	135.09	188.8	76.36
WJ3000805	0.11	135.01	188.74	76.37
WJ51893	0.01	135	188.73	76.38
WJ3000885	0.19	135.01	188.78	76.44
WJ3000443	0.13	134.94	188.72	76.45
WJ3000806	0.14	134.79	188.73	76.69
WJ3000585	0.02	134.8	188.78	76.74

17103 - Eglinton Laird Intensification Water Modelling - Jan 2018-Post-Dev System Average Day Demand Run				
ID	Demand (L/s)	Elevation (m)	Head (m)	Pressure (psi)
WJ56394	0.13	134.54	188.72	77.01
WJ56400	0.02	134.54	188.72	77.01
WJ56401	0.04	134.54	188.72	77.01
WJ53257	0.07	134.6	188.83	77.09
WJ53252	0.17	134.59	188.83	77.1
WJ53255	0.09	134.6	188.84	77.1
WJ300035	0.17	134.42	188.72	77.19
WJ53253	0.27	134.5	188.83	77.24
WJ300007	0.01	134.32	188.72	77.33
WJ300044	0.07	134.28	188.72	77.39
WJ300000	0.56	134.25	188.81	77.56
WJ300044	0.2	134.16	188.72	77.56
WJ56393	0.08	134.15	188.72	77.57
WJ56421	0.13	134.15	188.72	77.57
WJ300085	0.22	134.17	188.89	77.79
WJ300000	0.15	133.89	188.79	78.03
WJ300057	0.29	133.89	188.8	78.06
WJ300007	0.65	133.61	188.72	78.34
WJ300028	0.43	133.45	188.72	78.56
WJ22402	0.19	133.38	188.78	78.76
WJ300031	0.54	133.26	188.72	78.84
WJ300035	0.1	133.17	188.72	78.97
WJ300080	0.21	132.93	188.73	79.33
WJ51918	0.74	132.9	188.73	79.36
WJ56395	0.11	132.82	188.72	79.46
WJ56397	0.04	132.82	188.72	79.46
WJ51919	0.04	132.8	188.73	79.5
WJ300011	0	132.96	188.94	79.59
WJ300011	0.01	132.93	188.94	79.63
WJ56399	0.05	132.65	188.72	79.71
WJ300012	0.27	132.72	188.94	79.92
J18	6.24	132.5	188.72	79.93
J20	1.87	132.5	188.72	79.93
J22	2.43	132.5	188.72	79.93
J24	1.96	132.5	188.72	79.93
J26	2.71	132.5	188.72	79.93
J28	4.67	132.5	188.73	79.93
WJ51921	0.07	132.5	188.73	79.93
J30	1.94	132.5	188.73	79.94
WJ300051	0.07	132.67	188.91	79.96
J32	0.92	132.5	188.79	80.02
WJ300085	0.15	132.5	188.89	80.17

17103 - Eglinton Laird Intensification Water Modelling - Jan 2018-Post-Dev System Average Day Demand Run				
ID	Demand (L/s)	Elevation (m)	Head (m)	Pressure (psi)
WJ300052	0	132.53	188.96	80.21
WJ300053	0	132.53	188.95	80.22
WJ22421	0.12	132.24	188.79	80.39
WJ3001168	0.1	131.99	188.62	80.5
WJ300052	0.17	132.32	188.96	80.52
WJ300052	0	132.29	188.96	80.56
WJ300092	0.16	132.24	188.95	80.61
WJ300080	0.14	132	188.72	80.64
WJ300034	0.93	132.15	188.9	80.68
WJ300097	0.16	131.95	188.79	80.8
WJ300079	0.16	131.93	188.79	80.83
WJ300097	0.04	131.82	188.8	80.99
WJ300097	0.03	131.75	188.8	81.09
WJ300052	0.17	131.81	188.89	81.13
J96	0	131.5	188.72	81.35
WJ300099	0.26	131.48	188.74	81.39
WJ53264	0.02	131.56	188.81	81.39
WJ53276	0.04	131.56	188.82	81.39
WJ53277	0.25	131.56	188.82	81.39
WJ53269	0.02	131.56	188.82	81.4
WJ3001068	0	131.5	188.8	81.46
WJ3000798	0.23	131.49	188.79	81.47
WJ26595	0.01	131.56	188.89	81.5
WJ26596	0	131.56	188.89	81.5
WJ300053	0	131.56	188.89	81.5
WJ26597	0	131.56	188.9	81.51
WJ26598	0	131.56	188.9	81.51
J66	2.33	131.5	188.88	81.57
J68	0.07	131.5	188.89	81.58
J90	0.14	131.5	188.89	81.58
J80	0.08	131.5	188.9	81.6
J82	0.08	131.5	188.9	81.6
J84	1.46	131.5	188.9	81.6
J72	0.64	131.5	188.92	81.63
J74	0.14	131.5	188.92	81.63
J76	0.15	131.5	188.94	81.66
J78	0.08	131.5	188.94	81.66
J86	0.14	131.3	188.75	81.67
WJ300034	0.47	131.29	188.9	81.9
WJ300116	0.09	131.37	189.07	82.03
WJ300057	0.04	130.95	188.83	82.28
J38	0.14	130.84	188.72	82.29

17103 - Eglinton Laird Intensification Water Modelling - Jan 2018-Post-Dev System Average Day Demand Run				
ID	Demand (L/s)	Elevation (m)	Head (m)	Pressure (psi)
WJ3000800	0.06	130.86	188.8	82.36
WJ3000799	0.01	130.85	188.8	82.37
WJ3000528	0.06	130.81	188.8	82.43
WJ3001181	0.14	130.85	188.83	82.43
WJ3001074	0	130.6	188.8	82.74
WJ3001069	0.31	130.59	188.8	82.75
J50	0.14	130.5	188.75	82.81
J52	0.76	130.5	188.75	82.81
J54	0.55	130.5	188.8	82.88
J56	0.49	130.5	188.8	82.88
WJ3001238	0.08	130.58	188.88	82.88
J58	0.11	130.5	188.82	82.9
J60	4.45	130.5	188.82	82.9
J62	0.82	130.5	188.82	82.9
WJ3000507	0.12	130.56	188.88	82.9
J64	0.14	130.44	188.82	82.98
J36	0.14	130.3	188.72	83.05
WJ3000347	0.33	130.42	188.89	83.13
WJ3000996	0	130.23	188.72	83.15
WJ3000574	0.5	130.34	188.84	83.17
WJ3001245	0	130.28	188.8	83.19
WJ55196	0.2	130.18	188.72	83.21
WJ3001169	0.01	130.01	188.62	83.31
WJ3001249	0	130.13	188.79	83.4
WJ3001071	0	130.12	188.8	83.42
WJ3001075	0	130.11	188.8	83.43
J92	0	130	188.72	83.48
J94	0	130	188.72	83.48
J98	0	130	188.72	83.48
J100	0	130	188.73	83.49
WJ3000530	0.01	130.13	188.87	83.5
J34	1.33	130	188.74	83.51
WJ3001251	0	130.04	188.79	83.52
WJ3000575	0.01	130.12	188.87	83.53
WJ3001072	0.02	130.04	188.8	83.53
WJ26594	0	130.09	188.87	83.57
WJ3000532	0.01	130.09	188.87	83.57
WJ14629	0	129.8	188.62	83.61
WJ3001248	0	129.96	188.79	83.63
WJ3000801	0	129.94	188.79	83.67
WJ3000071	0.05	129.85	188.72	83.69
J44	0.14	129.84	188.72	83.7

17103 - Eglinton Laird Intensification Water Modelling - Jan 2018-Post-Dev System Average Day Demand Run				
ID	Demand (L/s)	Elevation (m)	Head (m)	Pressure (psi)
WJ3000166	0.47	129.82	188.86	83.93
J102	0	129.61	188.74	84.06
WJ38309	0.31	129.6	188.8	84.15
WJ38310	0.15	129.58	188.8	84.18
WJ3000070	0.09	129.49	188.72	84.2
J40	0.14	129.44	188.72	84.28
WJ27674	0	129.38	188.79	84.46
WJ51927	0.32	129.3	188.72	84.47
WJ3000060	0	129.29	188.8	84.59
WJ3000069	0.32	129.08	188.72	84.77
WJ3000061	0	129.15	188.79	84.78
WJ3001156	0	129.44	189.08	84.78
WJ3000064	0.06	129.13	188.78	84.81
J42	0.14	129.03	188.73	84.86
WJ3000065	0.05	129.06	188.77	84.89
WJ51923	0	129	188.72	84.9
WJ51925	0	129	188.72	84.9
WJ3000283	0.31	128.88	188.72	85.07
WJ3000062	0.03	128.93	188.79	85.11
WJ3000857	0.07	128.92	188.79	85.11
WJ3001240	0	128.93	188.79	85.11
WJ3000067	0.31	128.8	188.72	85.19
WJ3000068	0.35	128.77	188.72	85.22
WJ3001164	0.03	129.02	189.07	85.37
WJ3000868	0.04	128.6	188.71	85.45
WJ3000508	0.79	128.75	188.89	85.49
WJ55201	0.05	128.42	188.72	85.72
WJ56502	0.15	128.41	188.72	85.72
J48	0.14	128.43	188.79	85.8
WJ55199	0.03	128.27	188.72	85.92
WJ27615	0.23	128.26	188.8	86.06
WJ3000869	0.24	128.13	188.71	86.12
WJ27574	0.29	128.18	188.79	86.16
WJ27614	0.06	128.09	188.8	86.3
J46	0.14	128.02	188.74	86.33
WJ3000511	0.11	128.15	188.89	86.35
WJ27575	0.34	128.02	188.79	86.39
WJ27595	0.28	128.02	188.79	86.39
WJ27596	0.17	128.02	188.79	86.39
WJ55058	0.01	127.78	188.62	86.48
WJ27634	0.2	127.88	188.81	86.61
WJ27694	0	127.88	188.81	86.61

17103 - Eglinton Laird Intensification Water Modelling - Jan 2018-Post-Dev System Average Day Demand Run				
ID	Demand (L/s)	Elevation (m)	Head (m)	Pressure (psi)
WJ300085	0.01	127.54	188.83	87.14
WJ300086	0.07	127.37	188.84	87.39
WJ38289	0.5	127.42	188.9	87.39
WJ300089	0.52	127.21	188.71	87.44
WJ57290	1.09	127	188.62	87.59
WJ38269	0.08	127.27	188.9	87.61
WJ38270	0	127.27	188.9	87.61
WJ38271	0	127.27	188.9	87.61
WJ38272	0	127.27	188.9	87.61
WJ38273	0.02	127.27	188.9	87.61
WJ300085	0.09	127.2	188.83	87.62
WJ300062	0.23	127.29	189.08	87.83
WJ300098	0.64	128.2	189.99	87.85
WJ300088	0.05	126.88	188.71	87.9
WJ38249	0	127	188.92	88.03
WJ38229	0.07	127	188.95	88.06
WJ300123	0	127.11	189.07	88.09
WJ300001	0.2	127.79	189.99	88.42
WJ300075	2.92	127.73	189.97	88.49
WJ38209	0	127.13	189.37	88.49
WJ300108	0	127.13	189.39	88.52
WJ300076	1.17	127.67	189.99	88.6
WJ300115	0.01	126.75	189.08	88.6
WJ27654	0.03	126.48	188.82	88.63
WJ300016	0.13	126.55	188.89	88.63
WJ300075	1.37	127.23	189.72	88.83
WJ300062	0.31	126.53	189.08	88.92
WJ38171	0.58	127.05	189.6	88.93
WJ24324	0	126.43	189.08	89.06
WJ24325	0.55	126.43	189.08	89.06
WJ24326	0	126.43	189.08	89.06
WJ300062	0	126.43	189.08	89.06
WJ300063	0.05	126.43	189.08	89.06
WJ300125	0	126.43	189.08	89.06
WJ300116	0	126.21	189.07	89.37
WJ300116	0	126.1	189.07	89.51
WJ300063	0.02	126	189.08	89.68
J16	0	129	192.1	89.7
WJ300054	0.64	126.61	189.72	89.71
WJ38150	0.96	127.05	190.39	90.05
WJ38169	0	127.05	190.43	90.11
WJ50349	0	127.05	190.43	90.11

17103 - Eglinton Laird Intensification Water Modelling - Jan 2018-Post-Dev System Average Day Demand Run				
ID	Demand (L/s)	Elevation (m)	Head (m)	Pressure (psi)
WJ50362	0.01	127.05	190.43	90.11
WJ50350	0	127.05	190.45	90.13
WJ50348	0.21	127.05	190.45	90.14
WJ50351	0	127.05	190.45	90.14
WJ3000984	0.13	127.16	190.69	90.32
WJ3000463	1.19	126.32	189.97	90.48
WJ56518	12.23	126.18	189.97	90.67
WJ38149	0	126.43	190.44	90.99
WJ50356	0	126.43	190.44	90.99
WJ50353	0.09	126.43	190.44	91
WJ50354	0.01	126.43	190.45	91.02
WJ50359	0	126.43	190.45	91.02
WJ50360	0	126.43	190.45	91.02
WJ50355	0	126.43	190.5	91.08
WJ50357	0	126.43	190.5	91.08
WJ50361	0	126.43	190.52	91.12
WJ50358	0.78	126.43	190.53	91.13
WJ56519	2.86	125.85	189.97	91.15
WJ3000985	0	126.57	190.69	91.16
WJ3000762	0.17	126.59	190.76	91.22
WJ3000763	1.23	126.59	190.77	91.23
WJ3000761	1.15	126.43	190.73	91.42
WJ3001241	0	124.64	189.07	91.6
WJ3000621	2.19	125.46	189.96	91.69
WJ3000339	0.39	124.15	188.72	91.8
WJ3000632	0.39	124.91	189.52	91.84
WJ3001088	0.11	126.78	191.56	92.1
WJ56492	20.22	125.32	190.19	92.23
WJ3001081	0.4	126.51	191.56	92.47
WJ3000764	0.19	126.39	191.56	92.65
WJ3000767	6.13	126.37	191.59	92.71
WJ3000765	0.09	126.26	191.59	92.87
WJ3001089	0.4	126.08	191.56	93.08
WJ3000766	0.08	91.22	193.95	146.04

17103 - Eglinton Laird Intensification Water Modelling - Jan 2018-Post-Dev System Maximum Day Demand Run				
ID	Demand (L/s)	Elevation (m)	Head (m)	Pressure (psi)
WJ4018275	0	158.22	179.76	30.62
WJ3000094	0.61	157.83	179.76	31.18
WJ31211	0	157.5	179.76	31.64
WJ3000095	0.03	157.31	179.76	31.92
WJ3000011	0.29	155.74	179.76	34.14
WJ3000096	0.11	155.02	179.76	35.17
WJ3000097	0.14	154.19	179.76	36.35
WJ3000432	0.46	154.11	179.76	36.46
WJ3000433	0.22	153.32	179.76	37.58
WJ56006	0	150.93	179.76	40.98
WJ3000030	0.59	150.95	179.79	41
WJ3000029	0.63	150.84	179.82	41.19
WJ3000434	0.34	150.76	179.76	41.23
WJ31228	0.01	150.5	179.84	41.72
WJ52820	0.01	150	179.37	41.75
WJ52818	0.15	149.95	179.37	41.82
WJ3000055	0.18	150.32	179.76	41.85
WJ3000212	1.1	150.06	179.76	42.22
WJ3000791	0.06	150.12	179.84	42.26
WJ3000278	0.12	149.86	179.76	42.51
WJ14740	0.05	149.4	179.37	42.6
WJ3000098	0.24	149.75	179.76	42.66
WJ23834	0.47	149.81	179.84	42.69
WJ23835	0.49	149.54	179.84	43.08
WJ55511	0	149.24	179.76	43.38
WJ3000028	0.55	148.91	179.82	43.94
WJ23838	0.43	148.74	179.84	44.22
WJ3000012	0.4	148.62	179.76	44.26
WJ3000350	0.05	148.06	179.37	44.5
WJ3000037	0.29	147.96	179.36	44.63
WJ52814	0.06	147.9	179.36	44.73
WJ52782	0.04	147.82	179.37	44.85
WJ3000351	0.03	147.81	179.37	44.86
WJ52806	0.04	147.8	179.36	44.87
WJ52813	0.25	147.8	179.36	44.87
WJ55513	0	148.12	179.76	44.97
WJ23837	0.38	148.18	179.84	45.01
WJ52784	0	147.7	179.36	45.01
WJ52781	0	147.7	179.37	45.02
WJ3001142	0.1	147.68	179.37	45.04
WJ3000756	0.02	147.66	179.37	45.08
WJ3000491	0.06	147.57	179.37	45.2
WJ3000289	0.35	147.96	179.84	45.31

17103 - Eglinton Laird Intensification Water Modelling - Jan 2018-Post-Dev System Maximum Day Demand Run				
ID	Demand (L/s)	Elevation (m)	Head (m)	Pressure (psi)
WJ3000352	0.12	147.48	179.37	45.33
WJ3000027	0.85	147.77	179.8	45.53
WJ31227	0.08	147.81	179.86	45.57
WJ52804	0.03	147.2	179.36	45.72
WJ3000044	0.07	147.19	179.36	45.73
WJ3001090	0.09	147.14	179.37	45.81
WJ4018230	0	147.52	179.76	45.83
WJ3000492	0.01	147.08	179.37	45.89
WJ3000349	0.12	147.02	179.36	45.99
WJ55837	0	147.4	179.76	46
WJ52807	0.15	147	179.36	46.01
WJ52809	0.09	146.8	179.36	46.29
WJ3000394	0.05	146.64	179.36	46.52
WJ3000792	0.56	147.05	179.85	46.63
WJ3000579	0.48	146.9	179.8	46.77
WJ3000036	0.22	146.45	179.36	46.79
WJ3000279	0.48	146.66	179.76	47.06
WJ3000972	0.44	146.57	179.74	47.16
WJ52803	0.04	146.18	179.36	47.17
WJ3000563	0.25	146.55	179.86	47.36
WJ3000578	0.38	146.48	179.79	47.36
WJ3000624	0.09	146.46	179.86	47.48
WJ3000971	0.34	146.18	179.73	47.69
WJ52787	0.02	145.8	179.36	47.71
WJ3000569	0.29	145.98	179.57	47.75
WJ3000058	0.24	145.74	179.36	47.80
WJ3000003	0.41	146.1	179.79	47.89
WJ3001242	0.12	146.06	179.79	47.95
WJ3000883	0.71	146.06	179.82	47.99
WJ14604	0.05	145.6	179.37	48.00
WJ52786	0.08	145.6	179.36	48
WJ3000793	0.4	145.89	179.85	48.28
WJ14724	0.12	145.2	179.37	48.57
WJ3000538	0.34	145.25	179.59	48.82
WJ3000047	0.08	145.42	179.81	48.89
WJ3000050	0.52	145.43	179.87	48.96
WJ3000115	0.48	145.4	179.85	48.97
WJ3000023	0.04	144.89	179.37	49.02
WJ3000875	0.54	145.1	179.72	49.22
WJ3000117	0.17	145.22	179.85	49.23
WJ3000537	0.24	144.93	179.58	49.26
WJ54892	0.42	144.91	179.66	49.4
WJ51871	0.48	145.01	179.77	49.41

17103 - Eglinton Laird Intensification Water Modelling - Jan 2018-Post-Dev System Maximum Day Demand Run				
ID	Demand (L/s)	Elevation (m)	Head (m)	Pressure (psi)
WJ14675	0.17	144.6	179.36	49.42
WJ3000046	0.73	144.9	179.81	49.63
WJ3000435	0.29	144.83	179.76	49.65
WJ3000035	0.16	144.43	179.36	49.66
WJ3000013	0.31	144.81	179.76	49.68
WJ3000539	0.23	144.65	179.66	49.77
WJ3000002	0.38	144.72	179.78	49.85
WJ3000054	0.19	144.7	179.77	49.85
WJ3000116	0.3	144.66	179.85	50.03
WJ3000874	0.09	144.48	179.69	50.05
WJ51947	0	144.5	179.76	50.13
WJ3000332	0.58	144.5	179.76	50.14
WJ51882	0.05	144.5	179.77	50.14
WJ51883	0.44	144.5	179.77	50.14
WJ57286	0.38	144	179.36	50.27
WJ17209	0	144	179.4	50.33
WJ17210	0.5	144	179.4	50.33
WJ3000043	0.35	143.95	179.36	50.34
WJ52780	0	143.98	179.4	50.36
WJ3000042	0.4	143.92	179.36	50.39
WJ1018244	0	143.93	179.4	50.43
WJ3000580	0.3	144.34	179.82	50.43
WJ3000024	0.12	143.9	179.4	50.47
WJ3000970	0.36	144.01	179.72	50.76
WJ3000001	0.44	144.02	179.78	50.83
WJ14729	0	143.6	179.37	50.85
WJ14744	0.16	143.6	179.37	50.85
WJ3000478	0.44	143.99	179.8	50.91
WJ3000034	0.29	143.47	179.36	51.03
WJ3000794	0.34	143.91	179.85	51.1
WJ3000851	0.19	143.97	180.08	51.33
WJ3000049	0.4	143.65	179.83	51.43
WJ3000048	0.07	143.48	179.82	51.66
WJ52792	0.03	143.4	179.74	51.66
WJ3000536	0.3	143.19	179.55	51.68
WJ3000568	0.14	143.18	179.56	51.72
WJ3000099	0.28	143.34	179.76	51.77
WJ3000540	0.3	143.34	179.76	51.77
WJ3000479	0.51	143.32	179.85	51.94
WJ3000969	0.11	143.19	179.75	51.97
WJ3000968	0.33	143.07	179.75	52.14
WJ3000480	0.67	143.15	179.85	52.17
WJ1018241	0.88	143.04	179.74	52.18

17103 - Eglinton Laird Intensification Water Modelling - Jan 2018-Post-Dev System Maximum Day Demand Run				
ID	Demand (L/s)	Elevation (m)	Head (m)	Pressure (psi)
WJ3000051	0.47	143.06	179.85	52.31
WJ52810	0.16	142.48	179.36	52.43
WJ3000967	0.18	142.75	179.75	52.6
WJ3000015	0.34	142.65	179.72	52.71
WJ3000014	0.02	142.63	179.72	52.73
WJ3000643	0.38	142.35	179.58	52.92
WJ3000966	0.9	142.4	179.75	53.1
WJ3000486	0.14	141.8	179.36	53.4
WJ3000646	0.26	141.69	179.36	53.55
WJ3000625	0.41	141.99	179.87	53.86
WJ3000481	0.66	141.88	179.85	53.97
WJ3000567	0.13	141.53	179.5	53.99
WJ3000542	0.11	141.65	179.75	54.15
WJ3000541	0.15	141.47	179.76	54.42
WJ3000645	0.31	141.07	179.74	54.97
WJ3000100	0.42	141.07	179.76	55
WJ3000919	0.41	141.03	179.86	55.2
WJ3000482	0.24	140.92	179.87	55.36
WJ3000483	0.23	140.83	179.87	55.49
WJ3000581	0.42	140.66	179.85	55.7
WJ3000436	0.4	140.45	179.76	55.87
WJ51894	0.26	140.2	179.77	56.26
WJ51914	0.08	140.2	179.77	56.26
WJ14608	0.07	138.8	179.37	57.67
WJ3000101	0.43	138.56	179.76	58.57
WJ3000052	0.06	138.16	179.85	59.26
WJ55845	0	137.9	179.76	59.5
WJ55851	0.01	137.9	179.76	59.5
WJ3000802	0.38	137.93	179.79	59.51
WJ3000437	0.37	137.87	179.76	59.54
WJ3000582	0.42	137.94	179.89	59.64
WJ55852	0	137.8	179.76	59.65
WJ3000583	0.18	137.72	179.87	59.92
WJ3000795	0.51	137.56	179.86	60.13
WJ3000280	0.59	137.35	179.76	60.29
WJ3000372	0.1	137.19	179.87	60.67
WJ3000438	0.44	137	179.76	60.78
WJ3000978	0	137.01	179.76	60.78
WJ3000884	0.16	137.15	179.92	60.80
WJ3000852	0.38	137.25	180.08	60.88
WJ3000979	0.01	136.92	179.76	60.9
WJ3000804	0.2	136.93	179.79	60.92
WJ3000920	0.28	136.9	179.87	61.08

17103 - Eglinton Laird Intensification Water Modelling - Jan 2018-Post-Dev System Maximum Day Demand Run				
ID	Demand (L/s)	Elevation (m)	Head (m)	Pressure (psi)
WJ3000102	0.43	136.57	179.76	61.4
WJ3000803	0.15	136.47	179.79	61.59
WJ3000441	0.06	136.43	179.76	61.60
WJ3000440	0.11	136.35	179.76	61.72
WJ3000439	0.22	136.33	179.76	61.74
WJ3000923	0.27	136.54	180.07	61.89
WJ3000584	0.07	136.13	179.87	62.19
WJ3000334	0.06	135.9	179.78	62.38
WJ51898	0.23	135.9	179.78	62.38
WJ51908	0.16	135.9	179.78	62.38
WJ3000442	0.36	135.82	179.75	62.45
WJ56380	0.09	135.59	179.76	62.79
WJ56382	0.13	135.59	179.76	62.79
WJ3000315	0.9	135.59	179.76	62.8
WJ56384	0.06	135.57	179.76	62.82
WJ56385	0.07	135.57	179.76	62.82
WJ56387	0	135.57	179.76	62.82
WJ56388	0	135.57	179.76	62.82
WJ56389	0.14	135.57	179.76	62.82
WJ51892	0.06	135.5	179.78	62.95
WJ56391	0	135.41	179.76	63.05
WJ3000281	0.24	135.36	179.76	63.11
WJ56431	0.07	135.25	179.76	63.28
WJ3000886	0.61	135.26	179.81	63.33
WJ3000337	0.61	135.2	179.78	63.38
WJ3000796	0.39	135.19	179.87	63.51
WJ51910	0.22	135.1	179.78	63.52
WJ51936	0.21	135.1	179.78	63.52
WJ51937	0.15	135.1	179.79	63.53
WJ3000805	0.19	135.01	179.79	63.66
WJ51893	0.02	135	179.78	63.66
WJ3000443	0.24	134.94	179.75	63.7
WJ3000626	1.04	135.09	179.92	63.73
WJ3000885	0.35	135.01	179.87	63.78
WJ3000853	1.16	135.22	180.1	63.79
WJ3000924	0.92	135.3	180.2	63.84
WJ3000806	0.25	134.79	179.79	63.97
WJ3000585	0.03	134.8	179.88	64.09
WJ56394	0.23	134.54	179.75	64.26
WJ56400	0.04	134.54	179.75	64.26
WJ56401	0.08	134.54	179.75	64.26
WJ3000354	0.31	134.42	179.75	64.43
WJ53257	0.12	134.6	180	64.53

17103 - Eglinton Laird Intensification Water Modelling - Jan 2018-Post-Dev System Maximum Day Demand Run				
ID	Demand (L/s)	Elevation (m)	Head (m)	Pressure (psi)
WJ53252	0.3	134.59	179.99	64.54
WJ53255	0.17	134.6	180.02	64.56
WJ3000074	0.01	134.32	179.74	64.57
WJ3000444	0.13	134.28	179.74	64.63
WJ53253	0.49	134.5	180	64.69
WJ3000445	0.36	134.16	179.74	64.8
WJ56393	0.15	134.15	179.75	64.83
WJ56421	0.23	134.15	179.75	64.83
WJ3000004	1.02	134.25	179.95	64.96
WJ3000005	0.26	133.89	179.89	65.39
WJ3000854	0.39	134.17	180.17	65.39
WJ3000572	0.53	133.89	179.94	65.45
WJ3000073	1.18	133.61	179.74	65.58
WJ3000282	0.77	133.45	179.75	65.82
WJ3000316	0.96	133.26	179.76	66.1
WJ22402	0.34	133.38	179.89	66.12
WJ3000355	0.18	133.17	179.74	66.21
WJ3000807	0.38	132.93	179.78	66.61
WJ51918	1.66	132.9	179.78	66.64
WJ56395	0.19	132.82	179.75	66.71
WJ56397	0.08	132.82	179.75	66.71
WJ51919	0.08	132.8	179.78	66.78
WJ56399	0.09	132.65	179.75	66.96
J18	9.3	132.5	179.77	67.21
J20	2.06	132.5	179.78	67.21
J22	2.94	132.5	179.78	67.21
J24	2.37	132.5	179.78	67.21
J26	3.18	132.5	179.78	67.21
WJ51921	0.14	132.5	179.78	67.21
J28	5.81	132.5	179.79	67.23
J30	2.46	132.5	179.8	67.25
WJ3000119	0	132.96	180.29	67.29
WJ3000118	0.03	132.93	180.29	67.33
WJ3001168	0.18	131.99	179.36	67.35
J32	1.2	132.5	179.93	67.42
WJ3000519	0.13	132.67	180.21	67.59
WJ3000120	0.54	132.72	180.29	67.63
WJ22421	0.22	132.24	179.91	67.76
WJ3000855	0.27	132.5	180.17	67.77
WJ3000808	0.25	132	179.78	67.92
WJ3000527	0	132.53	180.33	67.94
WJ3000531	0	132.53	180.32	67.95
WJ3000977	0.29	131.95	179.91	68.19

17103 - Eglinton Laird Intensification Water Modelling - Jan 2018-Post-Dev System Maximum Day Demand Run				
ID	Demand (L/s)	Elevation (m)	Head (m)	Pressure (psi)
WJ3000797	0.29	131.93	179.9	68.2
WJ3000525	0.33	132.32	180.34	68.26
WJ3000345	1.99	132.15	180.19	68.3
WJ3000526	0.01	132.29	180.34	68.3
WJ3000925	0.3	132.24	180.32	68.34
WJ3000975	0.07	131.82	179.93	68.39
WJ3000976	0.06	131.75	179.93	68.48
J96	0.14	131.5	179.78	68.63
WJ3000995	0.5	131.48	179.8	68.69
WJ3000520	0.31	131.81	180.15	68.72
WJ53264	0.04	131.56	179.96	68.81
WJ53276	0.07	131.56	179.97	68.81
WJ53277	0.44	131.56	179.97	68.81
WJ53269	0.04	131.56	179.98	68.83
WJ3000798	0.98	131.49	179.93	68.86
WJ3001068	0.27	131.5	179.95	68.88
J86	0	131.3	179.84	69
WJ26595	0.02	131.56	180.17	69.1
WJ26596	0	131.56	180.17	69.1
WJ3000535	0.08	131.56	180.17	69.1
WJ26597	0.24	131.56	180.18	69.11
WJ26598	0.01	131.56	180.18	69.11
J66	3.53	131.5	180.14	69.14
J68	0.09	131.5	180.16	69.18
J90	0	131.5	180.16	69.18
J80	0.09	131.5	180.19	69.22
J82	0.09	131.5	180.19	69.22
J84	2.21	131.5	180.19	69.22
J72	1.06	131.5	180.25	69.3
J74	0	131.5	180.25	69.3
J76	0.16	131.5	180.29	69.36
J78	0.12	131.5	180.29	69.36
WJ3000346	0.95	131.29	180.19	69.52
J38	0	130.84	179.78	69.57
WJ3000573	0.07	130.95	180.01	69.73
WJ3000800	0.13	130.86	179.94	69.77
WJ3000799	0.01	130.85	179.94	69.78
WJ3000528	0.15	130.81	179.94	69.83
WJ3001181	0.28	130.85	180	69.88
WJ3001165	0.19	131.37	180.62	70.01
J50	0.19	130.5	179.84	70.14
J52	1.14	130.5	179.84	70.14
WJ3001074	0.14	130.6	179.94	70.15

17103 - Eglinton Laird Intensification Water Modelling - Jan 2018-Post-Dev System Maximum Day Demand Run				
ID	Demand (L/s)	Elevation (m)	Head (m)	Pressure (psi)
WJ3001169	0.02	130.01	179.36	70.15
WJ3001069	0.62	130.59	179.95	70.17
J54	0.91	130.5	179.95	70.30
J56	0.74	130.5	179.95	70.3
J36	0	130.3	179.77	70.33
J58	0.12	130.5	179.99	70.35
J60	6.03	130.5	179.99	70.35
J62	1.24	130.5	179.99	70.35
J64	0	130.44	179.99	70.43
WJ3000996	0.34	130.23	179.78	70.44
WJ14629	0	129.8	179.36	70.46
WJ3001238	0.17	130.58	180.14	70.46
WJ55196	0.36	130.18	179.75	70.46
WJ3000507	0.31	130.56	180.14	70.48
WJ3001245	0	130.28	179.94	70.6
WJ3000574	0.9	130.34	180.04	70.66
WJ3000347	0.66	130.42	180.18	70.74
J92	0.14	130	179.78	70.76
J94	0.14	130	179.78	70.76
J98	0.14	130	179.78	70.76
J100	0.14	130	179.8	70.8
WJ3001249	0	130.13	179.94	70.8
J34	1.73	130	179.82	70.83
WJ3001071	0	130.12	179.94	70.83
WJ3001075	0	130.11	179.94	70.84
WJ3001251	0	130.04	179.94	70.93
WJ3000071	0.09	129.85	179.75	70.94
WJ3001072	0.04	130.04	179.94	70.94
J44	0	129.84	179.77	70.98
WJ3001248	0	129.96	179.94	71.04
WJ3000530	0.01	130.13	180.12	71.06
WJ3000801	0	129.94	179.94	71.07
WJ3000575	0.02	130.12	180.12	71.09
WJ26594	0.27	130.09	180.13	71.13
WJ3000532	0.02	130.09	180.13	71.13
J102	0.14	129.61	179.82	71.38
WJ3000070	0.17	129.49	179.75	71.45
WJ3000166	0.94	129.82	180.09	71.46
J40	0	129.44	179.78	71.56
WJ38309	0.62	129.6	179.94	71.57
WJ38310	0.29	129.58	179.94	71.6
WJ51927	0.67	129.3	179.77	71.75
WJ27674	0	129.38	179.93	71.86

17103 - Eglinton Laird Intensification Water Modelling - Jan 2018-Post-Dev System Maximum Day Demand Run				
ID	Demand (L/s)	Elevation (m)	Head (m)	Pressure (psi)
WJ3000060	0.01	129.29	179.94	72
WJ3000069	0.57	129.08	179.75	72.03
J42	0	129.03	179.79	72.16
WJ3000061	0	129.15	179.93	72.18
WJ51923	0	129	179.77	72.18
WJ51925	0.61	129	179.77	72.18
WJ3000064	0.12	129.13	179.91	72.2
WJ3000065	0.69	129.06	179.87	72.24
WJ3000283	0.55	128.88	179.75	72.32
WJ3000067	0.57	128.8	179.77	72.47
WJ3000068	0.64	128.77	179.76	72.48
WJ3000062	0.05	128.93	179.94	72.52
WJ3000857	0.15	128.92	179.94	72.52
WJ3001246	0	128.93	179.94	72.52
WJ3000868	0.08	128.6	179.74	72.7
WJ3001156	0	129.44	180.64	72.78
WJ55201	0.1	128.42	179.74	72.97
WJ56502	0.28	128.41	179.74	72.97
WJ3000508	1.59	128.75	180.17	73.09
WJ55199	0.05	128.27	179.74	73.17
J48	0	128.43	179.93	73.21
WJ55058	0.02	127.78	179.36	73.33
WJ3001164	0.07	129.02	180.62	73.35
WJ3000869	0.43	128.13	179.74	73.37
WJ27615	0.47	128.26	179.95	73.48
WJ27574	0.58	128.18	179.93	73.57
J46	0	128.02	179.83	73.65
WJ27614	0.12	128.09	179.95	73.72
WJ27575	0.65	128.02	179.92	73.78
WJ27595	0.57	128.02	179.92	73.79
WJ27596	0.32	128.02	179.93	73.79
WJ3000511	0.22	128.15	180.17	73.95
WJ27634	0.4	127.88	179.97	74.05
WJ27694	0	127.88	179.97	74.05
WJ57290	1.96	127	179.36	74.44
WJ3000859	0.03	127.54	180.03	74.63
WJ3000890	0.94	127.21	179.74	74.68
WJ3000860	0.14	127.37	180.06	74.9
WJ38289	0.99	127.42	180.19	75.02
WJ3000858	0.18	127.2	180.03	75.1
WJ3000889	0.09	126.88	179.74	75.14
WJ38269	0.17	127.27	180.19	75.24
WJ38270	0	127.27	180.19	75.24

17103 - Eglinton Laird Intensification Water Modelling - Jan 2018-Post-Dev System Maximum Day Demand Run				
ID	Demand (L/s)	Elevation (m)	Head (m)	Pressure (psi)
WJ38271	0.01	127.27	180.19	75.24
WJ38272	0	127.27	180.19	75.24
WJ38273	0.04	127.27	180.19	75.24
WJ38249	0.01	127	180.26	75.72
WJ38229	0.14	127	180.32	75.79
WJ3000628	0.47	127.29	180.64	75.83
WJ3001239	0	127.11	180.63	76.08
WJ27654	0.05	126.48	180.01	76.1
WJ3000167	0.27	126.55	180.18	76.25
WJ3001155	0.01	126.75	180.64	76.6
WJ3000629	0.61	126.53	180.64	76.92
WJ24324	0	126.43	180.64	77.05
WJ3000627	0	126.43	180.64	77.05
WJ3001254	0	126.43	180.64	77.05
WJ24326	0	126.43	180.64	77.06
WJ3000631	0.1	126.43	180.64	77.06
WJ24325	1.11	126.43	180.65	77.07
WJ38209	0	127.13	181.42	77.19
WJ3001083	0	127.13	181.48	77.27
WJ3001167	0	126.21	180.63	77.36
WJ3001166	0	126.1	180.62	77.5
WJ3000630	0.03	126	180.64	77.68
WJ3000982	1.28	128.2	182.97	77.87
WJ38171	1.15	127.05	182.01	78.14
WJ3000758	2.59	127.23	182.26	78.24
WJ3000016	0.4	127.79	182.97	78.45
WJ3000759	5.37	127.73	182.92	78.46
WJ3000760	2.34	127.67	182.97	78.62
WJ3000339	0.7	124.15	179.77	79.07
WJ3000544	1.22	126.61	182.26	79.11
WJ3001241	0	124.64	180.63	79.59
WJ3000463	2.14	126.32	182.9	80.44
WJ56518	22.03	126.18	182.9	80.63
WJ3000632	0.79	124.91	181.75	80.81
WJ38150	1.92	127.05	184.09	81.09
WJ56519	5.17	125.85	182.9	81.1
WJ50349	0	127.05	184.18	81.23
WJ38169	0	127.05	184.19	81.24
WJ50362	0.02	127.05	184.19	81.24
WJ50350	0.01	127.05	184.23	81.29
WJ50351	0	127.05	184.24	81.3
WJ50348	0.42	127.05	184.24	81.31
WJ3000621	3.94	125.46	182.88	81.63

17103 - Eglinton Laird Intensification Water Modelling - Jan 2018- Post-Dev System Maximum Day Demand Run				
ID	Demand (L/s)	Elevation (m)	Head (m)	Pressure (psi)
WJ3000984	0.27	127.16	184.89	82.07
WJ38149	0	126.43	184.2	82.13
WJ50353	0.19	126.43	184.2	82.13
WJ50356	0	126.43	184.2	82.13
WJ50359	0	126.43	184.24	82.18
WJ50360	0	126.43	184.24	82.18
WJ50354	0.02	126.43	184.24	82.19
WJ50355	0	126.43	184.36	82.36
WJ50357	0	126.43	184.36	82.36
WJ50361	0	126.43	184.43	82.46
WJ50358	1.56	126.43	184.45	82.48
WJ56492	36.43	125.32	183.48	82.68
WJ3000985	0	126.57	184.89	82.91
WJ3000762	0.35	126.59	185.07	83.13
WJ3000763	2.27	126.59	185.08	83.15
WJ3000761	2.29	126.43	185	83.26
J16	0.14	129	188.75	84.95
WJ3001088	0.22	126.78	187.26	85.98
WJ3001087	0.81	126.51	187.26	86.36
WJ3000764	0.38	126.39	187.26	86.54
WJ3000767	11.04	126.37	187.33	86.67
WJ3000765	0.18	126.26	187.34	86.83
WJ3001089	0.79	126.08	187.26	86.97
WJ3000766	0.16	91.22	193.85	145.9

17103 - Eglinton Laird Intensification Water Modelling - Jan 2018-Post-Dev System Peak Hour Day Demand Run				
ID	Demand (L/s)	Elevation (m)	Head (m)	Pressure (psi)
WJ4018275	0	158.22	171.88	19.42
WJ3000094	0.85	157.83	171.88	19.99
WJ31211	0	157.5	171.88	20.44
WJ3000095	0.04	157.31	171.88	20.72
WJ3000011	0.41	155.74	171.88	22.94
WJ3000096	0.15	155.02	171.88	23.97
WJ3000097	0.19	154.19	171.88	25.15
WJ3000432	0.63	154.11	171.87	25.26
WJ3000433	0.3	153.32	171.87	26.37
WJ56006	0	150.93	171.88	29.78
WJ3000030	0.59	150.95	171.94	29.85
WJ3000434	0.47	150.76	171.87	30.02
WJ3000029	0.38	150.84	172	30.07
WJ52820	0.01	150	171.16	30.08
WJ52818	0.21	149.95	171.16	30.15
WJ31228	0	150.5	172.03	30.61
WJ3000055	0.25	150.32	171.88	30.65
WJ14740	0.07	149.4	171.16	30.93
WJ3000212	1.18	150.06	171.89	31.02
WJ3000791	0.07	150.12	172.03	31.15
WJ3000278	0.17	149.86	171.88	31.32
WJ3000098	0.34	149.75	171.88	31.46
WJ23834	0.65	149.81	172.03	31.58
WJ23835	0.67	149.54	172.02	31.97
WJ55511	0	149.24	171.88	32.18
WJ3000028	0.41	148.91	172	32.83
WJ3000350	0.07	148.06	171.16	32.83
WJ3000037	0.4	147.96	171.15	32.96
WJ3000012	0.55	148.62	171.87	33.06
WJ52814	0.09	147.9	171.15	33.06
WJ23838	0.59	148.74	172.03	33.11
WJ52782	0.06	147.82	171.16	33.18
WJ3000351	0.04	147.81	171.16	33.2
WJ52806	0.06	147.8	171.16	33.2
WJ52813	0.35	147.8	171.16	33.2
WJ52784	0	147.7	171.16	33.34
WJ52781	0	147.7	171.16	33.35
WJ3001142	0.13	147.68	171.16	33.37
WJ3000756	0.03	147.66	171.16	33.41
WJ3000491	0.09	147.57	171.16	33.53
WJ3000352	0.17	147.48	171.16	33.66
WJ55513	0	148.12	171.88	33.77
WJ23837	0.53	148.18	172.03	33.91

17103 - Eglinton Laird Intensification Water Modelling - Jan 2018-Post-Dev System Peak Hour Day Demand Run				
ID	Demand (L/s)	Elevation (m)	Head (m)	Pressure (psi)
WJ52804	0.04	147.2	171.16	34.05
WJ3000044	0.1	147.19	171.15	34.06
WJ3001090	0.12	147.14	171.16	34.15
WJ3000289	0.48	147.96	172.03	34.21
WJ3000492	0.01	147.08	171.16	34.23
WJ3000349	0.17	147.02	171.16	34.32
WJ52807	0.21	147	171.15	34.34
WJ3000027	0.91	147.77	171.96	34.39
WJ31227	0.12	147.81	172.06	34.48
WJ4018230	0	147.52	171.88	34.62
WJ52809	0.12	146.8	171.16	34.62
WJ55837	0	147.4	171.88	34.8
WJ3000394	0.07	146.64	171.16	34.85
WJ3000036	0.3	146.45	171.15	35.12
WJ52803	0.05	146.18	171.16	35.5
WJ3000792	0.78	147.05	172.03	35.52
WJ3000579	0.66	146.9	171.95	35.61
WJ3000279	0.66	146.66	171.88	35.86
WJ3000972	0.61	146.57	171.84	35.92
WJ52787	0.03	145.8	171.15	36.04
WJ3000058	0.33	145.74	171.15	36.13
WJ3000578	0.45	146.48	171.94	36.2
WJ3000563	0.35	146.55	172.06	36.27
WJ3000569	0.4	145.98	171.53	36.32
WJ14604	0.06	145.6	171.16	36.33
WJ52786	0.12	145.6	171.15	36.33
WJ3000624	0.13	146.46	172.06	36.39
WJ3000971	0.48	146.18	171.81	36.43
WJ3000003	0.56	146.1	171.93	36.71
WJ3001242	0.16	146.06	171.93	36.77
WJ3000883	0.98	146.06	171.98	36.85
WJ14724	0.17	145.2	171.16	36.9
WJ3000793	0.56	145.89	172.04	37.18
WJ3000023	0.06	144.89	171.17	37.36
WJ3000538	0.48	145.25	171.56	37.4
WJ14675	0.24	144.6	171.15	37.75
WJ3000047	0.11	145.42	171.97	37.75
WJ3000537	0.33	144.93	171.55	37.84
WJ3000050	0.7	145.43	172.07	37.87
WJ3000115	0.67	145.4	172.04	37.87
WJ3000875	0.76	145.1	171.8	37.96
WJ3000035	0.23	144.43	171.15	37.99
WJ54892	0.58	144.91	171.69	38.06

17103 - Eglinton Laird Intensification Water Modelling - Jan 2018-Post-Dev System Peak Hour Day Demand Run				
ID	Demand (L/s)	Elevation (m)	Head (m)	Pressure (psi)
WJ3000117	0.23	145.22	172.04	38.12
WJ51871	0.43	145.01	171.9	38.22
WJ3000539	0.32	144.65	171.69	38.44
WJ3000435	0.41	144.83	171.87	38.45
WJ3000013	0.43	144.81	171.88	38.48
WJ3000046	1.01	144.9	171.97	38.48
WJ57286	0.53	144	171.15	38.59
WJ3000043	0.48	143.95	171.15	38.66
WJ3000054	0.17	144.7	171.9	38.66
WJ3000002	0.53	144.72	171.92	38.67
WJ17209	0	144	171.23	38.7
WJ17210	0.7	144	171.23	38.7
WJ3000042	0.56	143.92	171.15	38.72
WJ52780	0	143.98	171.23	38.73
WJ3000874	0.12	144.48	171.74	38.75
WJ1018244	0	143.93	171.23	38.81
WJ3000024	0.07	143.9	171.23	38.85
WJ3000116	0.41	144.66	172.04	38.93
WJ3000332	0.35	144.5	171.89	38.94
WJ51947	0	144.5	171.89	38.94
WJ51882	0.06	144.5	171.9	38.95
WJ51883	0.61	144.5	171.9	38.95
WJ14729	0	143.6	171.17	39.19
WJ14744	0.22	143.6	171.17	39.19
WJ3000580	0.42	144.34	171.98	39.29
WJ3000034	0.4	143.47	171.15	39.35
WJ3000970	0.5	144.01	171.8	39.5
WJ3000001	0.6	144.02	171.91	39.64
WJ3000478	0.62	143.99	171.93	39.73
WJ3000794	0.47	143.91	172.05	40
WJ3000536	0.42	143.19	171.49	40.22
WJ3000568	0.19	143.18	171.51	40.27
WJ3000049	0.55	143.65	172.01	40.31
WJ52792	0.02	143.4	171.85	40.44
WJ3000851	0.27	143.97	172.43	40.45
WJ3000048	0.1	143.48	171.99	40.53
WJ3000540	0.42	143.34	171.86	40.54
WJ3000099	0.39	143.34	171.88	40.57
WJ3000969	0.16	143.19	171.85	40.75
WJ52810	0.22	142.48	171.16	40.76
WJ3000479	0.71	143.32	172.03	40.82
WJ3000968	0.46	143.07	171.85	40.91
WJ1018241	1.11	143.04	171.85	40.95

17103 - Eglinton Laird Intensification Water Modelling - Jan 2018-Post-Dev System Peak Hour Day Demand Run				
ID	Demand (L/s)	Elevation (m)	Head (m)	Pressure (psi)
WJ3000480	0.93	143.15	172.03	41.06
WJ3000051	0.65	143.06	172.05	41.21
WJ3000967	0.25	142.75	171.85	41.38
WJ3000015	0.47	142.65	171.8	41.45
WJ3000014	0.02	142.63	171.8	41.47
WJ3000643	0.52	142.35	171.54	41.49
WJ3000486	0.2	141.8	171.16	41.73
WJ3000646	0.37	141.69	171.15	41.88
WJ3000966	1.25	142.4	171.86	41.88
WJ3000567	0.1	141.53	171.41	42.48
WJ3000625	0.57	141.99	172.08	42.78
WJ3000481	0.92	141.88	172.03	42.86
WJ3000542	0.15	141.65	171.85	42.93
WJ3000541	0.21	141.47	171.86	43.19
WJ3000645	0.44	141.07	171.85	43.75
WJ3000100	0.58	141.07	171.88	43.8
WJ3000919	0.57	141.03	172.06	44.11
WJ3000482	0.34	140.92	172.07	44.28
WJ3000483	0.32	140.83	172.07	44.41
WJ3000581	0.59	140.66	172.03	44.59
WJ3000436	0.56	140.45	171.88	44.67
WJ51894	0.36	140.2	171.9	45.07
WJ51914	0.11	140.2	171.91	45.07
WJ14608	0.1	138.8	171.16	46
WJ3000101	0.6	138.56	171.88	47.36
WJ3000052	0.09	138.16	172.05	48.17
WJ55845	0	137.9	171.88	48.3
WJ55851	0.01	137.9	171.88	48.3
WJ3000437	0.52	137.87	171.88	48.34
WJ3000802	0.53	137.93	171.94	48.34
WJ55852	0	137.8	171.88	48.44
WJ3000582	0.58	137.94	172.11	48.58
WJ3000583	0.24	137.72	172.07	48.83
WJ3000795	0.71	137.56	172.05	49.04
WJ3000280	0.82	137.35	171.88	49.09
WJ3000438	0.62	137	171.88	49.57
WJ3000978	0	137.01	171.88	49.57
WJ3000372	0.14	137.19	172.07	49.59
WJ3000979	0.01	136.92	171.88	49.7
WJ3000804	0.28	136.93	171.93	49.75
WJ3000884	0.22	137.15	172.15	49.76
WJ3000852	0.42	137.25	172.43	50
WJ3000920	0.39	136.9	172.08	50

17103 - Eglinton Laird Intensification Water Modelling - Jan 2018-Post-Dev System Peak Hour Day Demand Run				
ID	Demand (L/s)	Elevation (m)	Head (m)	Pressure (psi)
WJ3000102	0.6	136.57	171.88	50.19
WJ3000441	0.08	136.43	171.88	50.4
WJ3000803	0.2	136.47	171.94	50.42
WJ3000440	0.16	136.35	171.88	50.51
WJ3000439	0.3	136.33	171.88	50.53
WJ3000923	0.38	136.54	172.41	51
WJ3000584	0.1	136.13	172.08	51.11
WJ3000334	0.08	135.9	171.91	51.19
WJ51898	0.32	135.9	171.91	51.19
WJ51908	0.22	135.9	171.91	51.19
WJ3000442	0.5	135.82	171.86	51.24
WJ56380	0.12	135.59	171.88	51.59
WJ56382	0.19	135.59	171.88	51.59
WJ3000315	1.25	135.59	171.89	51.6
WJ56384	0.08	135.57	171.88	51.62
WJ56385	0.09	135.57	171.88	51.62
WJ56387	0	135.57	171.88	51.62
WJ56388	0	135.57	171.88	51.62
WJ56389	0.19	135.57	171.88	51.62
WJ51892	0.09	135.5	171.91	51.77
WJ56391	0	135.41	171.88	51.85
WJ3000281	0.34	135.36	171.87	51.91
WJ56431	0.1	135.25	171.88	52.08
WJ3000886	0.85	135.26	171.97	52.18
WJ3000337	0.76	135.2	171.92	52.2
WJ51936	0.2	135.1	171.92	52.34
WJ51910	0.31	135.1	171.92	52.35
WJ51937	0.21	135.1	171.93	52.36
WJ3000796	0.54	135.19	172.07	52.42
WJ3000443	0.33	134.94	171.85	52.47
WJ3000805	0.27	135.01	171.93	52.48
WJ51893	0.03	135	171.92	52.49
WJ3000626	1.35	135.09	172.15	52.69
WJ3000885	0.48	135.01	172.08	52.71
WJ3000806	0.35	134.79	171.93	52.8
WJ3000853	1.16	135.22	172.46	52.93
WJ3000585	0.04	134.8	172.1	53.02
WJ56394	0.32	134.54	171.86	53.04
WJ56400	0.05	134.54	171.86	53.04
WJ56401	0.11	134.54	171.86	53.04
WJ3000924	1.17	135.3	172.63	53.08
WJ3000354	0.43	134.42	171.85	53.21
WJ3000074	0.01	134.32	171.85	53.35

17103 - Eglinton Laird Intensification Water Modelling - Jan 2018-Post-Dev System Peak Hour Day Demand Run				
ID	Demand (L/s)	Elevation (m)	Head (m)	Pressure (psi)
WJ3000444	0.19	134.28	171.85	53.4
WJ53252	0.41	134.59	172.28	53.57
WJ3000445	0.49	134.16	171.85	53.58
WJ53257	0.17	134.6	172.29	53.58
WJ56393	0.21	134.15	171.87	53.61
WJ56421	0.32	134.15	171.87	53.61
WJ53255	0.14	134.6	172.33	53.63
WJ53253	0.68	134.5	172.3	53.74
WJ3000004	1.36	134.25	172.21	53.96
WJ3000005	0.36	133.89	172.12	54.34
WJ3000073	1.64	133.61	171.85	54.36
WJ3000572	0.74	133.89	172.19	54.44
WJ3000282	1.06	133.45	171.86	54.6
WJ3000854	0.53	134.17	172.58	54.61
WJ3000316	1.33	133.26	171.88	54.89
WJ3000355	0.25	133.17	171.85	54.99
WJ22402	0.47	133.38	172.11	55.06
WJ3000807	0.52	132.93	171.92	55.43
WJ51918	1.95	132.9	171.91	55.45
WJ56397	0.11	132.82	171.85	55.48
WJ56395	0.27	132.82	171.85	55.49
WJ51919	0.07	132.8	171.91	55.59
WJ3001168	0.25	131.99	171.15	55.68
WJ56399	0.12	132.65	171.85	55.74
J18	12.86	132.5	171.9	56.01
J22	4.63	132.5	171.9	56.01
J24	3.72	132.5	171.9	56.01
J26	4.53	132.5	171.9	56.01
J20	2.24	132.5	171.9	56.02
WJ51921	0.09	132.5	171.91	56.02
J28	10.01	132.5	171.92	56.04
J30	4.47	132.5	171.94	56.07
J32	2.3	132.5	172.18	56.4
WJ3000119	0	132.96	172.79	56.63
WJ3000118	0.02	132.93	172.79	56.67
WJ22421	0.3	132.24	172.14	56.72
WJ3000808	0.32	132	171.91	56.73
WJ3000519	0.18	132.67	172.66	56.86
WJ3000120	0.32	132.72	172.79	56.97
WJ3000855	0.38	132.5	172.59	56.99
WJ3000797	0.41	131.93	172.14	57.16
WJ3000977	0.39	131.95	172.16	57.16
WJ3000527	0	132.53	172.84	57.3

17103 - Eglinton Laird Intensification Water Modelling - Jan 2018-Post-Dev System Peak Hour Day Demand Run				
ID	Demand (L/s)	Elevation (m)	Head (m)	Pressure (psi)
WJ3000531	0	132.53	172.84	57.31
WJ3000975	0.07	131.82	172.18	57.37
J96	0	131.5	171.9	57.44
WJ3000976	0.08	131.75	172.17	57.46
WJ3000995	0.67	131.48	171.95	57.53
WJ3000345	1.19	132.15	172.63	57.55
WJ3000525	0.2	132.32	172.86	57.63
WJ3000526	0.01	132.29	172.86	57.67
WJ3000925	0.29	132.24	172.83	57.69
WJ53264	0.06	131.56	172.24	57.83
WJ53276	0.08	131.56	172.24	57.83
WJ53277	0.62	131.56	172.24	57.83
WJ3000798	1.36	131.49	172.17	57.84
WJ53269	0.05	131.56	172.26	57.86
J86	0	131.3	172.01	57.88
WJ3001068	0.27	131.5	172.22	57.89
WJ3000520	0.41	131.81	172.56	57.93
WJ26595	0.01	131.56	172.59	58.33
WJ26596	0	131.56	172.59	58.33
WJ3000535	0.05	131.56	172.59	58.33
J66	5.05	131.5	172.54	58.34
WJ26597	0.15	131.56	172.61	58.35
WJ26598	0	131.56	172.61	58.35
J38	0	130.84	171.9	58.38
J68	0.11	131.5	172.58	58.4
J90	0	131.5	172.58	58.4
J80	0.1	131.5	172.63	58.47
J82	0.1	131.5	172.63	58.47
J84	3.16	131.5	172.63	58.47
WJ3001169	0.02	130.01	171.15	58.48
J72	1.59	131.5	172.72	58.6
J74	0	131.5	172.72	58.6
J76	0.18	131.5	172.79	58.7
J78	0.17	131.5	172.79	58.7
WJ3000346	0.57	131.29	172.63	58.77
WJ3000799	0.01	130.85	172.2	58.77
WJ3000800	0.17	130.86	172.2	58.77
WJ14629	0	129.8	171.15	58.79
WJ3000573	0.1	130.95	172.31	58.79
WJ3000528	0.14	130.81	172.2	58.83
WJ3001181	0.23	130.85	172.31	58.95
J50	0.26	130.5	172.01	59.02
J52	1.63	130.5	172.01	59.02

17103 - Eglinton Laird Intensification Water Modelling - Jan 2018- Post-Dev System Peak Hour Day Demand Run				
ID	Demand (L/s)	Elevation (m)	Head (m)	Pressure (psi)
J36	0	130.3	171.9	59.14
WJ3001074	0.09	130.6	172.21	59.15
WJ3001069	0.37	130.59	172.22	59.18
WJ3000996	0.2	130.23	171.9	59.24
WJ55196	0.5	130.18	171.85	59.24
J54	1.36	130.5	172.22	59.3
J56	1.05	130.5	172.22	59.3
J58	0.13	130.5	172.28	59.4
J60	7.98	130.5	172.28	59.4
J62	1.78	130.5	172.28	59.4
J64	0	130.44	172.28	59.48
J92	0	130	171.9	59.57
J94	0	130	171.9	59.57
J98	0	130	171.9	59.57
WJ3001245	0	130.28	172.21	59.61
WJ3001165	0.11	131.37	173.31	59.62
J100	0	130	171.94	59.63
WJ3001238	0.1	130.58	172.55	59.67
J34	3.32	130	171.98	59.68
WJ3000507	0.19	130.56	172.54	59.68
WJ3000071	0.13	129.85	171.85	59.72
WJ3000574	1.25	130.34	172.38	59.76
J44	0	129.84	171.9	59.79
WJ3001249	0	130.13	172.2	59.8
WJ3001071	0	130.12	172.21	59.83
WJ3001075	0	130.11	172.21	59.84
WJ3001251	0	130.04	172.2	59.92
WJ3001072	0.03	130.04	172.21	59.94
WJ3000347	0.4	130.42	172.61	59.98
WJ3001248	0	129.96	172.2	60.04
WJ3000801	0	129.94	172.2	60.07
J102	0	129.61	171.98	60.23
WJ3000070	0.24	129.49	171.85	60.23
WJ3000530	0.01	130.13	172.51	60.25
WJ3000575	0.02	130.12	172.51	60.27
WJ26594	0.16	130.09	172.52	60.32
WJ3000532	0.01	130.09	172.52	60.32
J40	0	129.44	171.9	60.37
WJ51927	0.86	129.3	171.9	60.56
WJ38309	0.37	129.6	172.21	60.57
WJ38310	0.18	129.58	172.21	60.6
WJ3000166	0.57	129.82	172.46	60.62
WJ3000069	0.79	129.08	171.86	60.81

17103 - Eglinton Laird Intensification Water Modelling - Jan 2018- Post-Dev System Peak Hour Day Demand Run				
ID	Demand (L/s)	Elevation (m)	Head (m)	Pressure (psi)
WJ27674	0	129.38	172.18	60.84
J42	0	129.03	171.92	60.97
WJ51923	0	129	171.9	60.98
WJ51925	0.37	129	171.9	60.98
WJ3000060	0.01	129.29	172.2	61
WJ3000283	0.77	128.88	171.86	61.1
WJ3000061	0	129.15	172.18	61.16
WJ3000064	0.07	129.13	172.15	61.17
WJ3000065	0.41	129.06	172.08	61.17
WJ3000067	0.79	128.8	171.89	61.27
WJ3000068	0.89	128.77	171.87	61.27
WJ3000868	0.11	128.6	171.84	61.47
WJ3000062	0.03	128.93	172.19	61.51
WJ3000857	0.09	128.92	172.19	61.51
WJ3001246	0	128.93	172.19	61.51
WJ55058	0.03	127.78	171.15	61.66
WJ55201	0.13	128.42	171.85	61.74
WJ56502	0.39	128.41	171.85	61.74
WJ55199	0.07	128.27	171.84	61.94
WJ3000869	0.59	128.13	171.84	62.14
J48	0	128.43	172.18	62.19
WJ3000508	0.95	128.75	172.6	62.33
WJ3001156	0	129.44	173.34	62.41
WJ27615	0.28	128.26	172.21	62.48
J46	0	128.02	171.99	62.51
WJ27574	0.35	128.18	172.19	62.56
WJ27614	0.07	128.09	172.21	62.73
WJ27575	0.61	128.02	172.17	62.77
WJ27595	0.34	128.02	172.17	62.77
WJ27596	0.26	128.02	172.18	62.77
WJ57290	2.72	127	171.15	62.77
WJ3001164	0.04	129.02	173.31	62.96
WJ27634	0.24	127.88	172.25	63.08
WJ27694	0	127.88	172.25	63.08
WJ3000511	0.13	128.15	172.6	63.19
WJ3000890	1.3	127.21	171.84	63.45
WJ3000859	0.02	127.54	172.36	63.73
WJ3000889	0.12	126.88	171.84	63.91
WJ3000860	0.08	127.37	172.4	64.02
WJ3000858	0.11	127.2	172.36	64.2
WJ38289	0.6	127.42	172.64	64.28
WJ38269	0.1	127.27	172.64	64.5
WJ38270	0	127.27	172.64	64.5

17103 - Eglinton Laird Intensification Water Modelling - Jan 2018-Post-Dev System Peak Hour Day Demand Run				
ID	Demand (L/s)	Elevation (m)	Head (m)	Pressure (psi)
WJ38271	0	127.27	172.64	64.5
WJ38272	0	127.27	172.64	64.5
WJ38273	0.02	127.27	172.64	64.5
WJ38249	0.01	127	172.75	65.03
WJ38229	0.08	127	172.83	65.15
WJ27654	0.03	126.48	172.33	65.18
WJ3000628	0.28	127.29	173.34	65.46
WJ3000167	0.16	126.55	172.62	65.5
WJ3001239	0	127.11	173.32	65.7
WJ3001155	0.01	126.75	173.34	66.23
WJ3000629	0.37	126.53	173.34	66.55
WJ24324	0	126.43	173.34	66.68
WJ3000627	0	126.43	173.34	66.68
WJ3001254	0	126.43	173.34	66.68
WJ24326	0	126.43	173.35	66.69
WJ3000631	0.06	126.43	173.35	66.69
WJ24325	0.67	126.43	173.36	66.71
WJ3001167	0	126.21	173.32	66.98
WJ3001166	0	126.1	173.31	67.11
WJ3000630	0.02	126	173.34	67.3
WJ38209	0	127.13	174.62	67.51
WJ3001083	0	127.13	174.71	67.64
WJ3000339	0.97	124.15	171.89	67.87
WJ38171	0.69	127.05	175.56	68.97
WJ3000758	2.66	127.23	175.87	69.15
WJ3001241	0	124.64	173.32	69.2
WJ3000982	0.77	128.2	176.95	69.31
WJ3000759	6.6	127.73	176.86	69.85
WJ3000016	0.24	127.79	176.95	69.89
WJ3000544	1.1	126.61	175.87	70.02
WJ3000760	1.4	127.67	176.95	70.06
WJ3000632	0.47	124.91	175.08	71.32
WJ3000463	2.98	126.32	176.79	71.75
WJ56518	30.5	126.18	176.8	71.95
WJ56519	7.04	125.85	176.8	72.43
WJ3000621	5.47	125.46	176.77	72.93
WJ38150	1.15	127.05	178.81	73.59
WJ50349	0	127.05	178.96	73.8
WJ50362	0.01	127.05	178.97	73.81
WJ38169	0	127.05	178.97	73.82
WJ50350	0.01	127.05	179.02	73.89
WJ50351	0	127.05	179.04	73.91
WJ50348	0.25	127.05	179.04	73.92

17103 - Eglinton Laird Intensification Water Modelling - Jan 2018-Post-Dev System Peak Hour Day Demand Run				
ID	**Demand (L/s)**	**Elevation (m)**	**Head (m)**	**Pressure (psi)**
WJ56492	50.34	125.32	177.62	74.36
WJ38149	0	126.43	178.98	74.71
WJ50356	0	126.43	178.98	74.71
WJ50353	0.11	126.43	178.98	74.72
WJ50359	0	126.43	179.04	74.79
WJ50360	0	126.43	179.04	74.79
WJ50354	0.01	126.43	179.04	74.8
WJ50355	0	126.43	179.22	75.05
WJ50357	0	126.43	179.22	75.05
WJ3000984	0.16	127.16	179.98	75.09
WJ50361	0	126.43	179.33	75.2
WJ50358	0.94	126.43	179.35	75.23
WJ3000985	0	126.57	179.98	75.93
WJ3000762	0.21	126.59	180.25	76.28
WJ3000763	2.65	126.59	180.27	76.3
WJ3000761	1.37	126.43	180.14	76.35
WJ3001088	0.13	126.78	183.62	80.81
J16	0	129	185.92	80.92
WJ3001087	0.49	126.51	183.62	81.18
WJ3000764	0.23	126.39	183.62	81.37
WJ3000767	15.34	126.37	183.73	81.55
WJ3000765	0.11	126.26	183.75	81.72
WJ3001089	0.48	126.08	183.62	81.79
WJ3000766	0.1	91.22	193.77	145.79

17103 - Eglinton Laird Intensification Water Modelling - Jan 2018 - Post-Dev System Max Daily Demand with Fireflow Simulation Run

Note:- At any given node the Available Flow at Hydrant must be greater than Total demand. Therefore the Residual Fire Flow at any node should be greater than Zero (indicating a greater available fire flow than what is required).

ID	Static Demand (L/s)	Static Pressure (psi)	Static Head (m)	Fire-Flow Demand (L/s)	Residual Pressure (psi)	Available Flow at Hydrant (L/s)	Available Flow Pressure (psi)	Residual Fire Flow (L/s)
WJ52792	0.03	51.66	179.74	317	-403.83	85.86	0	-231.17
WJ1018241	0.88	52.18	179.74	317	-391.53	88.36	0	-229.52
WJ3000029	0.63	41.19	179.82	317	-152.15	116.13	0	-201.5
WJ51871	0.48	49.41	179.77	317	-132.1	135.73	0	-181.75
WJ56400	0.04	64.26	179.75	317	-94.49	173.97	0	-143.07
J38	0	69.57	179.78	317	-31.73	187.15	20	-129.85
WJ3000996	0.34	70.44	179.78	317	-85.78	187.74	0	-129.6
WJ56400	0.04	68.06	182.42	317	-84.31	188	0	-129.04
J40	0	71.56	179.78	317	-33.04	189.21	20	-127.79
J36	0	70.33	179.77	317	-29.55	190.88	20	-126.12
J44	0	70.98	179.77	317	-29.38	192.24	20	-124.76
J42	0	72.16	179.79	317	-27.33	196.81	20	-120.19
J46	0	73.65	179.83	317	-28.3	198.41	20	-118.59
J48	0	73.21	179.93	317	-25.19	201.83	20	-115.17
WJ3000630	0.03	77.68	180.64	190	-318.38	75.25	0	-114.78
WJ3000621	3.94	81.63	182.88	317	-80.37	211.02	0	-109.92
WJ51921	0.14	67.21	179.78	317	-50.72	214.25	0	-102.89
WJ51919	0.08	66.78	179.78	317	-48.36	216.31	0	-100.77
WJ3000567	0.13	53.99	179.5	190	-122.69	89.4	0	-100.73
WJ3000030	0.59	41	179.79	190	-91.1	91.3	0	-99.29
WJ3000463	2.14	80.44	182.9	317	-61.46	224.07	0	-95.07
WJ3001181	0.28	69.88	180	190	-146.27	97.73	0	-92.55
WJ51918	1.66	66.64	179.78	317	-36.06	233.59	0	-85.07
WJ3001068	0.27	68.88	179.95	317	-33.72	238.78	0	-78.49
WJ51927	0.67	71.75	179.77	317	-32.18	243.6	0	-74.07
WJ51925	0.61	72.18	179.77	317	-32.31	243.77	0	-73.84
WJ3000027	0.85	45.53	179.8	190	-45.21	120.67	0	-70.18
WJ3000028	0.55	43.94	179.82	190	-40.33	123.02	0	-67.53
WJ3000578	0.38	47.36	179.79	190	-43.61	123.18	0	-67.2
WJ27575	0.65	73.78	179.92	317	-28.15	252.28	0	-65.37
WJ27595	0.57	73.79	179.92	317	-27.98	252.47	0	-65.1
WJ31228	0.01	41.72	179.84	190	-32.99	127	0	-63.01
WJ3001069	0.62	70.17	179.95	317	-23.47	257.37	0	-60.25
WJ3000800	0.13	69.77	179.94	317	-22.11	259	0	-58.13
WJ3000799	0.01	69.78	179.94	317	-21.99	259.12	0	-57.89
WJ3000528	0.15	69.83	179.94	317	-21.91	259.46	0	-57.69
WJ3001074	0.14	70.15	179.94	317	-21.5	260.53	0	-56.61
J64	0	70.43	179.99	317	-21.55	260.63	0	-56.37
WJ3000345	1.99	68.3	180.19	317	-19.67	264.95	0	-54.04
WJ3001242	0.12	47.95	179.79	190	-29.44	136.54	0	-53.58
WJ3000507	0.31	70.48	180.14	317	-18.02	268.29	0	-49.02
WJ3000975	0.07	68.39	179.93	190	-27.49	152.94	0	-37.13
WJ3000976	0.06	68.48	179.93	190	-26.03	154.41	0	-35.65

17103 - Eglinton Laird Intensification Water Modelling - Jan 2018 - Post-Dev System Max Daily Demand with Fireflow Simulation Run

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ID	Static Demand (L/s)	Static Pressure (psi)	Static Head (m)	Fire-Flow Demand (L/s)	Residual Pressure (psi)	Available Flow at Hydrant (L/s)	Available Flow Pressure (psi)	Residual Fire Flow (L/s)
WJ31227	0.08	45.57	179.86	190	-13.23	157.84	0	-32.24
WJ3000044	0.07	45.73	179.36	65	-23.52	50.19	0	-14.88
WJ3001142	0.1	45.04	179.37	65	-22.51	50.48	0	-14.62
WJ52787	0.02	47.71	179.36	65	-22.33	51.16	0	-13.86
WJ3001089	0.79	86.97	187.26	317	-6.48	304.33	0	-13.46
WJ3000050	0.52	48.96	179.87	190	-4.77	177.78	0	-12.74
WJ52786	0.08	48	179.36	65	-19.27	52.67	0	-12.41
WJ3001090	0.09	45.81	179.37	65	-16.78	53.42	0	-11.67
WJ52782	0.04	44.85	179.37	65	-16.15	53.48	0	-11.56
WJ3000492	0.01	45.89	179.37	65	-12.87	55.5	0	-9.51
WJ3000756	0.02	45.08	179.37	65	-12.41	55.63	0	-9.39
WJ3000394	0.05	46.52	179.36	65	-11.66	56.37	0	-8.68
WJ3000350	0.05	44.5	179.37	65	-9.62	57.3	0	-7.75
WJ3000351	0.03	44.86	179.37	65	-9.33	57.54	0	-7.49
WJ3001155	0.01	76.6	180.64	190	-4.86	182.58	0	-7.43
WJ3000491	0.06	45.2	179.37	65	-8.57	58.14	0	-6.92
WJ3000352	0.12	45.33	179.37	65	-8.08	58.55	0	-6.57
WJ3000058	0.24	47.8	179.36	65	-7.31	59.53	0	-5.71
WJ3000868	0.08	72.7	179.74	65	-12.15	59.5	0	-5.58
WJ52820	0.01	41.75	179.37	65	-6	59.46	0	-5.55
WJ3000349	0.12	45.99	179.36	65	-6.07	60.08	0	-5.04
WJ52818	0.15	41.82	179.37	65	-4.42	60.93	0	-4.22
WJ3000037	0.29	44.63	179.36	65	-4.06	61.65	0	-3.64
WJ14740	0.05	42.6	179.37	65	-3.43	61.78	0	-3.27
WJ14675	0.17	49.42	179.36	65	-3.56	62.31	0	-2.86
WJ52814	0.06	44.73	179.36	65	-3.09	62.24	0	-2.82
WJ3000036	0.22	46.79	179.36	65	-3.18	62.47	0	-2.75
WJ52804	0.03	45.72	179.36	65	-3.09	62.29	0	-2.74
WJ52806	0.04	44.87	179.36	65	-2.89	62.41	0	-2.63
WJ52807	0.15	46.01	179.36	65	-2.87	62.61	0	-2.54
WJ3000854	0.39	65.39	180.17	190	-1.21	188.03	0	-2.36
WJ52813	0.25	44.87	179.36	65	-1.82	63.56	0	-1.69
WJ57286	0.38	50.27	179.36	65	-1.58	64.09	0	-1.29
WJ52809	0.09	46.29	179.36	65	-1.1	64.09	0	-1
WJ3000047	0.08	48.89	179.81	65	-0.88	64.38	0	-0.7
WJ3000043	0.35	50.34	179.36	65	-0.58	64.86	0	-0.49
WJ3000035	0.16	49.66	179.36	65	-0.51	64.73	0	-0.43
WJ52803	0.04	47.17	179.36	65	-0.3	64.76	0	-0.28
WJ3000042	0.4	50.39	179.36	65	0.77	66.06	0	0.66
WJ3000034	0.29	51.03	179.36	65	1.48	66.55	0	1.26
WJ3000646	0.26	53.55	179.36	65	2.09	66.97	0	1.71
WJ14604	0.05	48	179.37	65	1.89	66.8	0	1.75
WJ14724	0.12	48.57	179.37	65	2.65	67.59	0	2.47

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ID	Static Demand (L/s)	Static Pressure (psi)	Static Head (m)	Fire-Flow Demand (L/s)	Residual Pressure (psi)	Available Flow at Hydrant (L/s)	Available Flow Pressure (psi)	Residual Fire Flow (L/s)
WJ3000855	0.27	67.77	180.17	190	1.31	192.83	0	2.56
WJ3000884	0.16	60.8	179.92	65	4.7	68.34	0	3.18
WJ57286	0.38	54.2	182.13	65	4.33	68.94	0	3.56
WJ3000023	0.04	49.02	179.37	65	3.89	68.72	0	3.68
WJ3000889	0.09	75.14	179.74	65	7.78	69.42	0	4.33
WJ52810	0.16	52.43	179.36	65	5.36	69.95	0	4.79
WJ14744	0.16	50.85	179.37	65	5.42	70.21	0	5.05
WJ3000486	0.14	53.4	179.36	65	6.16	70.61	0	5.47
WJ3000519	0.13	67.59	180.21	190	3.18	196.53	0	6.4
WJ17210	0.5	50.33	179.4	65	7.87	73.32	0	7.82
WJ3000024	0.12	50.47	179.4	65	8.16	73.25	0	8.13
WJ3000851	0.19	51.33	180.08	65	10.46	75.01	0	9.82
WJ14608	0.07	57.67	179.37	65	11.67	75.52	0	10.45
WJ3001238	0.17	70.46	180.14	190	6.53	203.33	0	13.16
WJ3000542	0.11	54.15	179.75	65	14.61	79.29	0	14.18
WJ3000541	0.15	54.42	179.76	65	14.84	79.69	0	14.54
WJ3000569	0.29	47.75	179.57	65	13.72	81.91	0	16.62
WJ3001168	0.18	67.35	179.36	65	20.37	82.42	0	17.24
J90	0	69.18	180.16	190	8.8	208.95	0	18.95
WJ3000117	0.17	49.23	179.85	65	16.47	84.34	0	19.17
WJ3001169	0.02	70.15	179.36	65	23.08	84.34	0	19.32
WJ3000568	0.14	51.72	179.56	65	17.05	85.06	0	19.92
WJ56518	22.03	80.63	182.9	317	7.1	360.23	0	21.2
WJ55058	0.02	73.33	179.36	65	26.09	86.56	0	21.54
WJ3000052	0.06	59.26	179.85	65	22.46	87.4	0	22.34
WJ57290	1.96	74.44	179.36	65	27.27	89.42	0	22.46
WJ56519	5.17	81.11	182.9	317	7.76	345.35	0	23.18
WJ3000536	0.3	51.68	179.55	65	19.32	89.74	0	24.44
WJ3000645	0.31	54.97	179.74	65	22	90.77	0	25.46
WJ3000339	0.7	79.07	179.77	65	34.01	92.18	0	26.48
WJ57290	1.96	78.37	182.13	65	33.17	94.47	0	27.51
WJ3000432	0.46	36.46	179.76	65	14.46	93	0	27.54
J86	0	69	179.84	190	11.9	217.7	0	27.7
WJ3000016	0.4	78.45	182.97	190	15.22	218.54	0	28.14
WJ3000537	0.24	49.26	179.58	65	20.46	94.6	0	29.36
WJ3000014	0.02	52.73	179.72	65	23.02	95.14	0	30.12
WJ3000538	0.34	48.82	179.59	65	20.54	95.47	0	30.13
WJ3000643	0.38	52.92	179.58	65	23.09	96.85	0	31.47
WJ3001164	0.07	73.35	180.62	190	15.76	224.95	0	34.88
WJ3000015	0.34	52.71	179.72	65	24.92	100.35	0	35.01
WJ3000540	0.3	51.77	179.76	65	24.59	101	0	35.7
WJ3000890	0.94	74.68	179.74	65	38.21	102.82	0	36.88
WJ3000995	0.5	68.69	179.8	190	14.94	227.99	0	37.49

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WJ51936	0.21	63.52	179.78	190	13.49	227.87	0	37.66
WJ23837	0.38	45.01	179.84	65	22.14	103.46	0	38.08
WJ3000539	0.23	49.77	179.66	65	24	103.4	0	38.17
WJ3000337	0.61	63.38	179.78	190	13.67	229.07	0	38.46
WJ56492	36.43	82.68	183.48	317	12.68	392.29	0	38.86
WJ54892	0.42	49.4	179.66	65	24.07	104.64	0	39.22
WJ3000011	0.29	34.14	179.76	65	16.06	104.62	0	39.33
WJ3000433	0.22	37.58	179.76	65	18.22	105.33	0	40.11
WJ38310	0.29	71.6	179.94	190	16.77	230.64	0	40.35
WJ3000874	0.09	50.05	179.69	65	25.23	106.48	0	41.39
WJ55851	0.01	59.5	179.76	65	32.71	109.57	0	44.56
WJ3000859	0.03	74.63	180.03	190	19.39	235.71	0	45.68
WJ3000074	0.01	64.57	179.74	65	36.1	110.7	0	45.69
WJ3000853	1.16	63.79	180.1	190	16.02	237.69	0	46.53
WJ3000065	0.69	72.24	179.87	190	18.77	237.41	0	46.72
WJ3000967	0.18	52.6	179.75	65	28.7	112.04	0	46.86
WJ38309	0.62	71.57	179.94	190	18.89	238.27	0	47.65
WJ3000119	0	67.29	180.29	190	17.64	237.67	0	47.67
WJ3000858	0.18	75.1	180.03	190	20.22	238.24	0	48.06
WJ3000971	0.34	47.69	179.73	65	25.8	113.93	0	48.59
WJ3000972	0.44	47.16	179.74	65	25.72	114.84	0	49.4
WJ3000478	0.44	50.91	179.8	65	28.14	114.96	0	49.52
WJ3000875	0.54	49.22	179.72	65	26.9	115.11	0	49.57
WJ3000434	0.34	41.23	179.76	65	22.32	114.92	0	49.58
WJ3000347	0.66	70.74	180.18	190	19.59	241.42	0	50.76
WJ3000924	0.92	63.84	180.2	190	17.38	243	0	52.08
WJ3000046	0.73	49.63	179.81	65	28.35	118.06	0	52.33
WJ3000869	0.43	73.37	179.74	65	44.27	118.72	0	53.29
WJ27615	0.47	73.48	179.95	190	21.18	244.25	0	53.78
WJ3000966	0.9	53.1	179.75	65	30.8	120.17	0	54.27
WJ3000094	0.61	31.18	179.76	65	16.42	120.06	0	54.45
WJ3000012	0.4	44.26	179.76	65	25.37	120.84	0	55.44
WJ3000095	0.03	31.92	179.76	65	17.17	121.86	0	56.83
WJ3000579	0.48	46.77	179.8	65	27.43	123.49	0	58.01
WJ3000064	0.12	72.2	179.91	190	21.79	248.34	0	58.22
WJ3000970	0.36	50.76	179.72	65	29.76	123.65	0	58.29
WJ3000977	0.29	68.19	179.91	190	20.42	249.3	0	59.01
WJ3001165	0.19	70.01	180.62	190	21.88	250.45	0	60.26
WJ23834	0.47	42.69	179.84	65	25.3	126.65	0	61.18
WJ3000968	0.33	52.14	179.75	65	31.57	127.1	0	61.77
WJ3000002	0.38	49.85	179.78	65	30.18	127.4	0	62.02
WJ3000535	0.08	69.1	180.17	190	21.69	252.22	0	62.14
WJ3000001	0.44	50.83	179.78	65	30.92	127.91	0	62.47

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WJ3000346	0.95	69.52	180.19	190	22.21	254.63	0	63.68
WJ3000791	0.06	42.26	179.84	65	25.64	131.06	0	66
WJ3000979	0.01	60.9	179.76	65	39.16	131.37	0	66.36
WJ27614	0.12	73.72	179.95	190	24.36	256.54	0	66.42
WJ3000883	0.71	47.99	179.82	65	29.71	132.43	0	66.72
WJ3000860	0.14	74.9	180.06	190	25.08	257.02	0	66.88
WJ27574	0.58	73.57	179.93	190	24.39	257.49	0	66.91
WJ27596	0.32	73.79	179.93	190	24.5	257.32	0	67
WJ3000802	0.38	59.51	179.79	65	38.37	132.46	0	67.08
WJ3000060	0.01	72	179.94	190	23.84	257.25	0	67.24
WJ27634	0.4	74.05	179.97	190	24.71	257.65	0	67.25
WJ3000096	0.11	35.17	179.76	65	20.53	132.65	0	67.54
WJ3000166	0.94	71.46	180.09	190	23.83	258.57	0	67.63
WJ3001072	0.04	70.94	179.94	190	23.56	258.05	0	68.01
WJ3000445	0.36	64.8	179.74	65	42.18	133.68	0	68.32
WJ3000969	0.11	51.97	179.75	65	32.54	133.64	0	68.53
WJ27654	0.05	76.1	180.01	190	26.03	258.97	0	68.92
WJ3000372	0.1	60.67	179.87	65	39.65	134.22	0	69.12
WJ3000857	0.15	72.52	179.94	190	24.49	259.46	0	69.31
WJ3000435	0.29	49.65	179.76	65	31.34	134.61	0	69.32
WJ3000444	0.13	64.63	179.74	65	42.3	134.7	0	69.57
WJ3000480	0.67	52.17	179.85	65	33.23	135.37	0	69.7
WJ3000120	0.54	67.63	180.29	190	22.77	260.41	0	69.87
WJ3000055	0.18	41.85	179.76	65	25.75	135.48	0	70.3
WJ3000479	0.51	51.94	179.85	65	33.15	136.19	0	70.68
WJ3000118	0.03	67.33	180.29	190	22.85	260.97	0	70.94
WJ55199	0.05	73.17	179.74	65	48.9	136.05	0	71
WJ3000097	0.14	36.35	179.76	65	21.73	136.34	0	71.2
WJ3000003	0.41	47.89	179.79	65	30.13	136.75	0	71.34
WJ23835	0.49	43.08	179.84	65	26.87	136.97	0	71.48
WJ3000511	0.22	73.95	180.17	190	25.84	261.77	0	71.55
WJ3000629	0.61	76.92	180.64	190	27.59	262.94	0	72.33
WJ3000508	1.59	73.09	180.17	190	25.6	263.92	0	72.33
WJ3000013	0.31	49.68	179.76	65	31.82	137.96	0	72.65
WJ3000289	0.35	45.31	179.84	65	28.69	138.01	0	72.66
WJ3000278	0.12	42.51	179.76	65	26.5	137.79	0	72.67
WJ3000279	0.48	47.06	179.76	65	29.92	138.32	0	72.84
WJ3000073	1.18	65.58	179.74	65	43.72	139.69	0	73.51
WJ38249	0.01	75.72	180.26	190	27.13	263.65	0	73.64
WJ3000115	0.48	48.97	179.85	65	31.58	139.17	0	73.69
WJ38171	1.15	78.14	182.01	190	29.27	265.65	0	74.5
WJ26597	0.24	69.11	180.18	190	24.42	265.83	0	75.59
WJ3000925	0.3	68.34	180.32	190	24.18	266.04	0	75.74

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J74	0	69.3	180.25	190	24.66	265.98	0	75.98
WJ56502	0.28	72.97	179.74	65	49.9	141.89	0	76.61
WJ55201	0.1	72.97	179.74	65	49.92	141.76	0	76.66
WJ38271	0.01	75.24	180.19	190	27.5	266.8	0	76.79
WJ3000575	0.02	71.09	180.12	190	25.6	267.16	0	77.14
WJ3000530	0.01	71.06	180.12	190	25.64	267.45	0	77.44
WJ38289	0.99	75.02	180.19	190	27.61	268.81	0	77.82
WJ38273	0.04	75.24	180.19	190	27.73	267.94	0	77.9
WJ23838	0.43	44.22	179.84	65	28.46	143.66	0	78.23
WJ3000525	0.33	68.26	180.34	190	24.67	268.66	0	78.33
WJ3000526	0.01	68.3	180.34	190	24.7	268.39	0	78.38
WJ38269	0.17	75.24	180.19	190	27.92	269.02	0	78.85
WJ3000167	0.27	76.25	180.18	190	28.52	269.52	0	79.25
WJ26594	0.27	71.13	180.13	190	26.08	269.95	0	79.68
WJ3000281	0.24	63.11	179.76	65	43.12	145.17	0	79.93
WJ38229	0.14	75.79	180.32	190	28.99	272.25	0	82.11
WJ56518	22.03	84.55	185.66	317	24.32	421.74	0	82.71
WJ3000436	0.4	55.87	179.76	65	37.98	149.37	0	83.97
WJ3000116	0.3	50.03	179.85	65	33.58	149.32	0	84.02
WJ56502	0.28	76.74	182.4	65	54.85	149.31	0	84.03
WJ3000482	0.24	55.36	179.87	65	37.88	150.06	0	84.82
WJ3000049	0.4	51.43	179.83	65	34.63	150.27	0	84.87
WJ56519	5.17	85.03	185.66	317	24.97	407.25	0	85.08
WJ3000048	0.07	51.66	179.82	65	34.83	150.41	0	85.34
WJ3000852	0.38	60.88	180.08	65	42.29	151.28	0	85.9
WJ3000483	0.23	55.49	179.87	65	38.14	151.44	0	86.21
WJ3000443	0.24	63.7	179.75	65	44.33	151.65	0	86.41
WJ3000580	0.3	50.43	179.82	65	33.92	151.75	0	86.45
WJ3000581	0.42	55.7	179.85	65	38.26	152.28	0	86.86
WJ3000481	0.66	53.97	179.85	65	36.94	153.04	0	87.38
WJ3000212	1.1	42.22	179.76	65	27.62	153.86	0	87.76
WJ3000583	0.18	59.92	179.87	65	41.96	153.97	0	88.79
WJ3000355	0.18	66.21	179.74	65	46.69	154.62	0	89.44
WJ3000098	0.24	42.66	179.76	65	28.09	154.74	0	89.5
WJ3000354	0.31	64.43	179.75	65	45.45	155.84	0	90.53
WJ3000792	0.56	46.63	179.85	65	31.52	156.89	0	91.33
WJ3000437	0.37	59.54	179.76	65	41.85	157.71	0	92.34
WJ3000051	0.47	52.31	179.85	65	36.73	163.7	0	98.23
WJ3000438	0.44	60.78	179.76	65	43.48	163.76	0	98.32
WJ3000442	0.36	62.45	179.75	65	44.8	163.72	0	98.36
WJ3000280	0.59	60.29	179.76	65	43.18	164.72	0	99.13
WJ3000628	0.47	75.83	180.64	190	32.28	289.76	0	99.29
WJ56421	0.23	64.83	179.75	65	47.04	166.17	0	100.94

17103 - Eglinton Laird Intensification Water Modelling - Jan 2018 - Post-Dev System Max Daily Demand with Fireflow Simulation Run

Note:- At any given node the Available Flow at Hydrant must be greater than Total demand. Therefore the Residual Fire Flow at any node should be greater than Zero (indicating a greater available fire flow than what is required).

ID	Static Demand (L/s)	Static Pressure (psi)	Static Head (m)	Fire-Flow Demand (L/s)	Residual Pressure (psi)	Available Flow at Hydrant (L/s)	Available Flow Pressure (psi)	Residual Fire Flow (L/s)
WJ3000923	0.27	61.89	180.07	65	44.66	166.33	0	101.06
WJ3000803	0.15	61.59	179.79	65	44.64	167.03	0	101.88
WJ3000793	0.4	48.28	179.85	65	33.71	167.9	0	102.5
WJ50353	0.19	82.13	184.2	190	38.22	293.74	0	103.55
WJ3000585	0.03	64.09	179.88	65	47.01	168.98	0	103.95
WJ3000563	0.25	47.36	179.86	65	33.06	169.38	0	104.13
WJ3000804	0.2	60.92	179.79	65	44.32	169.56	0	104.36
WJ55196	0.36	70.46	179.75	65	51.97	169.85	0	104.49
WJ56492	36.43	86.6	186.23	317	29.88	458.24	0	104.81
WJ3000919	0.41	55.2	179.86	65	39.67	170.27	0	104.86
WJ3000624	0.09	47.48	179.86	65	33.22	170.13	0	105.04
WJ56401	0.08	64.26	179.75	65	47.05	171.65	0	106.57
WJ56397	0.08	66.71	179.75	65	49.1	172.03	0	106.95
WJ3000920	0.28	61.08	179.87	65	44.86	173.49	0	108.21
WJ51883	0.44	50.14	179.77	65	35.59	174.61	0	109.17
WJ3000886	0.61	63.33	179.81	65	46.8	175.06	0	109.45
WJ3000332	0.58	50.14	179.76	65	35.64	175.91	0	110.33
WJ3000631	0.1	77.06	180.64	190	34.73	300.53	0	110.43
WJ3000572	0.53	65.45	179.94	65	48.75	176	0	110.47
WJ24325	1.11	77.07	180.65	190	34.79	301.85	0	110.74
WJ56393	0.15	64.83	179.75	65	47.97	176.09	0	110.94
WJ3000584	0.07	62.19	179.87	65	46.13	177.44	0	112.37
WJ3000005	0.26	65.39	179.89	65	48.93	178.41	0	113.15
WJ3000054	0.19	49.85	179.77	65	35.63	179.06	0	113.87
WJ3000885	0.35	63.78	179.87	65	47.63	179.51	0	114.16
WJ56421	0.23	68.64	182.43	65	52.32	179.64	0	114.41
WJ3000315	0.9	62.8	179.76	65	46.62	180.53	0	114.63
WJ51882	0.05	50.14	179.77	65	35.92	179.8	0	114.75
WJ3000099	0.28	51.77	179.76	65	37.27	180.27	0	114.99
WJ22402	0.34	66.12	179.89	65	49.7	180.37	0	115.03
WJ3000794	0.34	51.1	179.85	65	36.91	180.89	0	115.55
WJ3000807	0.38	66.61	179.78	65	50.02	181.26	0	115.88
WJ56397	0.08	70.49	182.41	65	54.18	183.85	0	118.77
WJ51914	0.08	56.26	179.77	65	41.41	184.03	0	118.95
WJ56399	0.09	66.96	179.75	65	50.36	184.28	0	119.19
WJ50354	0.02	82.19	184.24	190	41.05	309.5	0	119.48
WJ56395	0.19	66.71	179.75	65	50.18	184.86	0	119.67
WJ3000282	0.77	65.82	179.75	65	49.5	185.47	0	119.7
WJ50362	0.02	81.24	184.19	190	40.5	309.93	0	119.91
WJ56384	0.06	62.82	179.76	65	47.02	185.12	0	120.06
WJ56401	0.08	68.05	182.42	65	52.24	185.29	0	120.21
WJ56394	0.23	64.26	179.75	65	48.16	185.61	0	120.38
WJ22421	0.22	67.76	179.91	65	51.59	186.32	0	121.1

17103 - Eglinton Laird Intensification Water Modelling - Jan 2018 - Post-Dev System Max Daily Demand with Fireflow Simulation Run

Note:- At any given node the Available Flow at Hydrant must be greater than Total demand. Therefore the Residual Fire Flow at any node should be greater than Zero (indicating a greater available fire flow than what is required).

ID	Static Demand (L/s)	Static Pressure (psi)	Static Head (m)	Fire-Flow Demand (L/s)	Residual Pressure (psi)	Available Flow at Hydrant (L/s)	Available Flow Pressure (psi)	Residual Fire Flow (L/s)
WJ3000316	0.96	66.1	179.76	65	50.03	188.83	0	122.87
WJ3000100	0.42	55	179.76	65	40.59	190.15	0	124.73
WJ3000573	0.07	69.73	180.01	65	53.65	190.04	0	124.97
WJ3000439	0.22	61.74	179.76	65	46.42	190.42	0	125.2
WJ53252	0.3	64.54	179.99	65	49.04	190.9	0	125.6
WJ3000805	0.19	63.66	179.79	65	48.25	190.94	0	125.75
WJ53276	0.07	68.81	179.97	65	52.94	191.8	0	126.73
WJ3000806	0.25	63.97	179.79	65	48.59	192.15	0	126.9
WJ3000441	0.06	61.6	179.76	65	46.42	192.2	0	127.14
WJ3000071	0.09	70.94	179.75	65	54.37	192.26	0	127.17
WJ50350	0.01	81.29	184.23	190	41.63	317.2	0	127.19
WJ53269	0.04	68.83	179.98	65	53.01	192.28	0	127.24
WJ56382	0.13	62.79	179.76	65	47.52	192.94	0	127.81
WJ53264	0.04	68.81	179.96	65	53.03	193.1	0	128.06
WJ3000625	0.41	53.86	179.87	65	39.95	193.6	0	128.19
WJ3000440	0.11	61.72	179.76	65	46.71	195.56	0	130.45
WJ3000070	0.17	71.45	179.75	65	55.08	195.95	0	130.78
WJ56399	0.09	70.74	182.41	65	55.41	197.22	0	132.13
WJ51893	0.02	63.66	179.78	65	48.67	198.13	0	133.11
WJ51894	0.26	56.26	179.77	65	42.17	198.49	0	133.23
WJ53277	0.44	68.81	179.97	65	53.44	199.67	0	134.23
WJ3000982	1.28	77.87	182.97	190	40.84	325.52	0	134.24
WJ51892	0.06	62.95	179.78	65	48.16	200.32	0	135.26
WJ3000520	0.31	68.72	180.15	65	53.6	200.94	0	135.63
WJ3000101	0.43	58.57	179.76	65	44.27	201.53	0	136.1
WJ3000283	0.55	72.32	179.75	65	56.44	205.23	0	139.68
WJ38150	1.92	81.09	184.09	190	43.28	332.99	0	141.07
WJ3000544	1.22	79.11	182.26	65	64.38	208.01	0	141.79
WJ3000069	0.57	72.03	179.75	65	56.43	209.1	0	143.53
WJ3000102	0.43	61.4	179.76	65	47.18	210.17	0	144.74
WJ3000582	0.42	59.64	179.89	65	45.81	210.23	0	144.81
WJ3000795	0.51	60.13	179.86	65	46.32	211.45	0	145.94
WJ3000334	0.06	62.38	179.78	65	48.22	212.21	0	147.15
WJ56389	0.14	62.82	179.76	65	48.65	214.41	0	149.27
WJ3000574	0.9	70.66	180.04	65	56.02	215.35	0	149.45
WJ56380	0.09	62.79	179.76	65	48.69	215.75	0	150.66
WJ56431	0.07	63.28	179.76	65	49.13	215.94	0	150.87
WJ56385	0.07	62.82	179.76	65	48.75	216.36	0	151.29
WJ50348	0.42	81.31	184.24	190	44.87	342.5	0	152.08
WJ3000632	0.79	80.81	181.75	190	43.49	343.41	0	152.62
WJ51908	0.16	62.38	179.78	65	48.49	218.59	0	153.43
WJ3000068	0.64	72.48	179.76	65	57.41	219.23	0	153.59
WJ51898	0.23	62.38	179.78	65	48.51	218.98	0	153.75

17103 - Eglinton Laird Intensification Water Modelling - Jan 2018 - Post-Dev System Max Daily Demand with Fireflow Simulation Run

Note:- At any given node the Available Flow at Hydrant must be greater than Total demand. Therefore the Residual Fire Flow at any node should be greater than Zero (indicating a greater available fire flow than what is required).

ID	Static Demand (L/s)	Static Pressure (psi)	Static Head (m)	Fire-Flow Demand (L/s)	Residual Pressure (psi)	Available Flow at Hydrant (L/s)	Available Flow Pressure (psi)	Residual Fire Flow (L/s)
WJ3000796	0.39	63.51	179.87	65	49.86	223.4	0	158.01
WJ3000626	1.04	63.73	179.92	65	50.03	224.32	0	158.28
WJ51910	0.22	63.52	179.78	65	49.92	228.46	0	163.24
WJ3000758	2.59	78.24	182.26	190	43.52	356.23	0	163.64
WJ51937	0.15	63.53	179.79	65	49.95	228.86	0	163.71
WJ3000004	1.02	64.96	179.95	65	51.46	231.84	0	165.82
WJ3001088	0.22	85.98	187.26	190	53.95	356.73	0	166.51
WJ53257	0.12	64.53	180	65	51.19	233.32	0	168.2
WJ53253	0.49	64.69	180	65	51.36	234.6	0	169.11
WJ3000808	0.25	67.92	179.78	65	54.11	234.5	0	169.25
WJ53255	0.17	64.56	180.02	65	51.26	234.55	0	169.38
WJ3000797	0.29	68.2	179.9	65	54.67	237.31	0	172.02
WJ56431	0.07	67.11	182.46	65	54.47	239.9	0	174.83
WJ3000067	0.57	72.47	179.77	65	58.41	240.68	0	175.11
WJ50358	1.56	82.48	184.45	190	48.42	369.88	0	178.32
WJ3000798	0.98	68.86	179.93	65	55.53	245.03	0	179.05
WJ3000062	0.05	72.52	179.94	65	59.3	258.88	0	193.83
WJ3000759	5.37	78.46	182.92	190	47.26	389.92	0	194.55
WJ3000760	2.34	78.62	182.97	190	47.55	388.74	0	196.4
WJ26595	0.02	69.1	180.17	65	56.52	263.43	0	198.41
WJ26598	0.01	69.11	180.18	65	56.59	265.49	0	200.48
WJ3000532	0.02	71.13	180.13	65	58.52	269.54	0	204.52
WJ3001087	0.81	86.36	187.26	190	60.9	428.79	0	237.98
WJ3000767	11.04	86.67	187.33	317	49.46	581.07	0	253.03
WJ3000984	0.27	82.07	184.89	190	55.65	443.82	0	253.55
WJ3000761	2.29	83.26	185	190	59.83	498.56	0	306.27
WJ3000762	0.35	83.13	185.07	190	60.02	501.08	0	310.73
WJ3000763	2.27	83.15	185.08	190	60.08	503.83	0	311.56
WJ3000764	0.38	86.54	187.26	190	69.38	634.92	0	444.54
WJ3000765	0.18	86.83	187.34	190	69.89	641.81	0	451.63
J16	0.14	84.95	188.75	190	71.61	742.91	0	552.77
WJ3000766	0.16	145.9	193.85	190	145.53	8,499.89	0.04	8309.73

Attachment G

Attachment G

Water Main Along	From	To	Model Pipe ID (Char)	Length (m)	Proposed Diameter (mm)	Roughness (Double)	Upgrade type
Overlea Blvd	West of Don River	Thorncliffe Park Dr	LN3001128	1.7	400	120	Rehab to improve Roughness
Overlea Blvd	West of Don River	Thorncliffe Park Dr	LN3001133	6.9	400	120	Rehab to improve Roughness
Overlea Blvd	West of Don River	Thorncliffe Park Dr	LN3007905	188.0	400	120	Rehab to improve Roughness
Overlea Blvd	West of Don River	Thorncliffe Park Dr	LN3007921	177.6	400	120	Rehab to improve Roughness
Overlea Blvd	West of Don River	Thorncliffe Park Dr	P19	11.1	400	120	Rehab to improve Roughness
Overlea Blvd	West of Don River	Thorncliffe Park Dr	P21	105.0	400	120	Rehab to improve Roughness
Length of Upgrades (m)				**490.3**			
Beth Nealson Dr	Thorncliffe Park Dr	Wicksteed Ave	LN3007863	240.3	400	120	Upsize from 300 mm
Beth Nealson Dr	Thorncliffe Park Dr	Wicksteed Ave	LN50425	186.2	400	115	Upsize from 300 mm
Beth Nealson Dr	Thorncliffe Park Dr	Wicksteed Ave	LN50424	54.6	400	115	Upsize from 300 mm
Beth Nealson Dr	Thorncliffe Park Dr	Wicksteed Ave	LN38484	19.3	400	120	Upsize from 300 mm
Length of Upgrades (m)				**500.4**			
Wicksteed Ave	Beth Nealson Dr	Leslie St	LN38485	186.3	400	120	Upsize from 300 mm
Wicksteed Ave	Beth Nealson Dr	Leslie St	LN50449	50.3	400	120	Upsize from 300 mm
Wicksteed Ave	Beth Nealson Dr	Leslie St	LN38502	8.7	400	120	Upsize from 300 mm
Wicksteed Ave	Beth Nealson Dr	Leslie St	LN38503	104.8	400	120	Upsize from 300 mm
Length of Upgrades (m)				**350.1**			
Leslie St	Wicksteed Ave	Research Rd	LN38524	19.1	300	120	Upsize from 200 mm
Leslie St	Wicksteed Ave	Research Rd	LN3009318	78.0	300	120	Upsize from 200 mm
Length of Upgrades (m)				**97.0**			
Leonard Linton Park Easment	Wicksteed Ave	Vanderhoof Ave	LN3009298	92.7	200	120	Upsize from 150 mm
Leonard Linton Park Easment	Wicksteed Ave	Vanderhoof Ave	LN3009241	83.2	200	120	Upsize from 150 mm
Leonard Linton Park Easment	Wicksteed Ave	Vanderhoof Ave	LN25283	9.0	200	120	Upsize from 150 mm
Length of Upgrades (m)				**184.9**			
Aerodome Cres	Vanderhoof Ave	Thomas Elgie Dr	LN25142	109.5	300	120	Upsize from 200 mm
Aerodome Cres	Vanderhoof Ave	Thomas Elgie Dr	P35	112.9	300	120	Upsize from 200 mm
Length of Upgrades (m)				**222.4**			
Brentcliffe Rd	Vanderhoof Ave	Eglinton Ave	LN3009641	104.7	300	120	Upsize from 200 mm
Brentcliffe Rd	Vanderhoof Ave	Eglinton Ave	P31	79.8	300	120	Upsize from 200 mm
Length of Upgrades (m)				**184.5**			
Vanderhoof Ave	Brentcliffe Rd	Fut Block A1/A2 easement	LN3009229	4.7	200	120	Upsize from 150 mm
Vanderhoof Ave	Brentcliffe Rd	Fut Block A1/A2 easement	LN3001420	10.6	200	120	Upsize from 150 mm
Vanderhoof Ave	Brentcliffe Rd	Fut Block A1/A2 easement	LN3009223	181.1	200	120	Upsize from 150 mm
Vanderhoof Ave	Brentcliffe Rd	Fut Block A1/A2 easement	P29	39.0	200	120	Upsize from 150 mm
Length of Upgrades (m)				**235.3**			
Vanderhoof Ave	Fut Block A1/A2 easement	Laird Dr	LN3009008	91.0	300	120	Upsize from 200 mm
Vanderhoof Ave	Fut Block A1/A2 easement	Laird Dr	P27	106.2	300	120	Upsize from 200 mm
Length of Upgrades (m)				**197.2**			
Total Length of Watermain Rehab/improvements (m)				**490.3**			
Total Length of Upsizing (m)				**1971.8**			

Attachment H

Attachment H

17103 - Eglinton Laird Intensification Water Modelling - Jan 2018- Post-Dev Upgraded System Average Day Demand Run				
ID	Demand (L/s)	Elevation (m)	Head (m)	Pressure (psi)
WJ401827	0	158.22	191.25	47.0
WJ300009	0.34	157.83	191.25	47.5
WJ31211	0	157.5	191.25	48.0
WJ300009	0.02	157.31	191.25	48.3
WJ300001	0.16	155.74	191.25	50.5
WJ300009	0.06	155.02	191.25	51.5
WJ300009	0.08	154.19	191.25	52.7
WJ300043	0.25	154.11	191.25	52.8
WJ300043	0.12	153.32	191.25	53.9
WJ300003	0.31	150.95	191.25	57.3
WJ56006	0	150.93	191.25	57.3
WJ300002	0.32	150.84	191.25	57.4
WJ300043	0.19	150.76	191.25	57.6
WJ31228	0	150.5	191.25	57.9
WJ300005	0.1	150.32	191.25	58.2
WJ52820	0	150	191.07	58.4
WJ52818	0.08	149.95	191.07	58.5
WJ300079	0.03	150.12	191.25	58.5
WJ300021	0.59	150.06	191.25	58.6
WJ300027	0.07	149.86	191.25	58.9
WJ23834	0.26	149.81	191.25	58.9
WJ300009	0.13	149.75	191.25	59.0
WJ14740	0.03	149.4	191.07	59.2
WJ23835	0.27	149.54	191.25	59.3
WJ55511	0	149.24	191.25	59.7
WJ300002	0.28	148.91	191.24	60.2
WJ23838	0.24	148.74	191.25	60.4
WJ300001	0.22	148.62	191.25	60.6
WJ300035	0.03	148.06	191.07	61.1
WJ23837	0.21	148.18	191.25	61.2
WJ300003	0.16	147.96	191.07	61.3
WJ55513	0	148.12	191.25	61.3
WJ52814	0.03	147.9	191.07	61.4
WJ52782	0.02	147.82	191.07	61.5
WJ300035	0.02	147.81	191.07	61.5
WJ52806	0.02	147.8	191.07	61.5
WJ52813	0.14	147.8	191.07	61.5
WJ300028	0.19	147.96	191.25	61.5
WJ52781	0	147.7	191.07	61.7
WJ52784	0	147.7	191.07	61.7
WJ300114	0.05	147.68	191.07	61.7
WJ300075	0.01	147.66	191.07	61.7

17103 - Eglinton Laird Intensification Water Modelling - Jan 2018-Post-Dev Upgraded System Average Day Demand Run				
ID	Demand (L/s)	Elevation (m)	Head (m)	Pressure (psi)
WJ31227	0.05	147.81	191.25	61.8
WJ300002	0.45	147.77	191.23	61.8
WJ300049	0.03	147.57	191.07	61.8
WJ300035	0.07	147.48	191.07	62.0
WJ401823	0	147.52	191.25	62.2
WJ55837	0	147.4	191.25	62.3
WJ52804	0.02	147.2	191.07	62.4
WJ300004	0.04	147.19	191.07	62.4
WJ300109	0.05	147.14	191.07	62.5
WJ300049	0	147.08	191.07	62.5
WJ300034	0.07	147.02	191.07	62.6
WJ52807	0.08	147	191.07	62.6
WJ300079	0.31	147.05	191.25	62.8
WJ52809	0.05	146.8	191.07	62.9
WJ300057	0.27	146.9	191.22	63.0
WJ300039	0.03	146.64	191.07	63.2
WJ300027	0.26	146.66	191.25	63.4
WJ300003	0.12	146.45	191.07	63.4
WJ300097	0.24	146.57	191.19	63.4
WJ300056	0.14	146.55	191.25	63.6
WJ300057	0.21	146.48	191.22	63.6
WJ300062	0.05	146.46	191.25	63.7
WJ52803	0.02	146.18	191.07	63.8
WJ300097	0.19	146.18	191.19	64.0
WJ300000	0.23	146.1	191.22	64.1
WJ300056	0.16	145.98	191.14	64.2
WJ300124	0.07	146.06	191.22	64.2
WJ300088	0.39	146.06	191.23	64.2
WJ52787	0.01	145.8	191.07	64.4
WJ300005	0.13	145.74	191.07	64.4
WJ300079	0.22	145.89	191.25	64.5
WJ52786	0.05	145.6	191.07	64.6
WJ14604	0.03	145.6	191.07	64.6
WJ300004	0.04	145.42	191.23	65.1
WJ300005	0.29	145.43	191.25	65.2
WJ300011	0.27	145.4	191.25	65.2
WJ14724	0.07	145.2	191.07	65.2
WJ300053	0.19	145.25	191.14	65.2
WJ300011	0.09	145.22	191.25	65.4
WJ300087	0.3	145.1	191.19	65.5
WJ300002	0.02	144.89	191.07	65.7
WJ300053	0.13	144.93	191.14	65.7

17103 - Eglinton Laird Intensification Water Modelling - Jan 2018-Post-Dev Upgraded System Average Day Demand Run				
ID	Demand (L/s)	Elevation (m)	Head (m)	Pressure (psi)
WJ51871	0.25	145.01	191.25	65.7
WJ54892	0.23	144.91	191.16	65.8
WJ3000040	0.4	144.9	191.23	65.9
WJ3000435	0.16	144.83	191.25	66.0
WJ3000013	0.17	144.81	191.25	66.0
WJ14675	0.1	144.6	191.07	66.1
WJ3000002	0.21	144.72	191.22	66.1
WJ3000539	0.13	144.65	191.17	66.1
WJ3000054	0.1	144.7	191.25	66.2
WJ3000116	0.17	144.66	191.25	66.2
WJ3000035	0.09	144.43	191.07	66.3
WJ3000874	0.05	144.48	191.18	66.4
WJ51882	0.03	144.5	191.25	66.5
WJ51883	0.24	144.5	191.25	66.5
WJ51947	0	144.5	191.25	66.5
WJ3000332	0.29	144.5	191.25	66.5
WJ3000580	0.17	144.34	191.23	66.7
WJ57286	0.21	144	191.07	66.9
WJ17209	0	144	191.08	66.9
WJ17210	0.28	144	191.08	66.9
WJ52780	0	143.98	191.08	67.0
WJ3000043	0.19	143.95	191.07	67.0
WJ1018244	0	143.93	191.08	67.0
WJ3000042	0.22	143.92	191.07	67.0
WJ3000970	0.2	144.01	191.19	67.1
WJ3000024	0.06	143.9	191.08	67.1
WJ3000001	0.24	144.02	191.21	67.1
WJ3000478	0.25	143.99	191.21	67.1
WJ3000851	0.11	143.97	191.29	67.3
WJ3000794	0.19	143.91	191.25	67.3
WJ14729	0	143.6	191.07	67.5
WJ14744	0.09	143.6	191.07	67.5
WJ3000049	0.22	143.65	191.24	67.7
WJ3000034	0.16	143.47	191.07	67.7
WJ3000048	0.04	143.48	191.23	67.9
WJ52792	0.01	143.4	191.2	68.0
WJ3000540	0.17	143.34	191.19	68.0
WJ3000099	0.15	143.34	191.25	68.1
WJ3000479	0.28	143.32	191.23	68.1
WJ3000530	0.17	143.19	191.13	68.1
WJ3000568	0.08	143.18	191.13	68.2
WJ3000969	0.06	143.19	191.2	68.3

17103 - Eglinton Laird Intensification Water Modelling - Jan 2018-Post-Dev Upgraded System Average Day Demand Run				
ID	Demand (L/s)	Elevation (m)	Head (m)	Pressure (psi)
WJ300048	0.37	143.15	191.23	68.4
WJ300096	0.19	143.07	191.2	68.4
WJ101824	0.48	143.04	191.2	68.5
WJ300005	0.26	143.06	191.25	68.5
WJ300096	0.1	142.75	191.2	68.9
WJ300001	0.19	142.65	191.19	69.0
WJ300001	0.01	142.63	191.19	69.0
WJ52810	0.09	142.48	191.07	69.1
WJ300064	0.21	142.35	191.14	69.4
WJ300096	0.5	142.4	191.2	69.4
WJ300062	0.23	141.99	191.25	70.0
WJ300048	0.08	141.8	191.07	70.0
WJ300048	0.37	141.88	191.24	70.2
WJ300064	0.15	141.69	191.07	70.2
WJ300054	0.06	141.65	191.2	70.4
WJ300056	0.07	141.53	191.11	70.5
WJ300054	0.08	141.47	191.19	70.7
WJ300064	0.17	141.07	191.2	71.3
WJ300010	0.23	141.07	191.25	71.3
WJ300091	0.23	141.03	191.26	71.4
WJ300048	0.14	140.92	191.26	71.6
WJ300048	0.13	140.83	191.26	71.7
WJ300058	0.23	140.66	191.24	71.9
WJ300043	0.22	140.45	191.25	72.2
WJ51894	0.14	140.2	191.25	72.6
WJ51914	0.04	140.2	191.25	72.6
WJ14608	0.04	138.8	191.07	74.3
WJ300010	0.24	138.56	191.25	74.9
WJ300005	0.03	138.16	191.25	75.5
WJ300058	0.23	137.94	191.26	75.8
WJ300080	0.21	137.93	191.26	75.8
WJ55845	0	137.9	191.25	75.8
WJ55851	0.01	137.9	191.25	75.8
WJ300043	0.21	137.87	191.25	75.9
WJ55852	0	137.8	191.25	76.0
WJ300058	0.1	137.72	191.26	76.1
WJ300079	0.28	137.56	191.26	76.3
WJ300028	0.33	137.35	191.25	76.6
WJ300085	0.2	137.25	191.29	76.8
WJ300037	0.06	137.19	191.26	76.9
WJ300088	0.09	137.15	191.26	76.9
WJ300097	0	137.01	191.25	77.1

17103 - Eglinton Laird Intensification Water Modelling - Jan 2018-Post-Dev Upgraded System Average Day Demand Run				
ID	Demand (L/s)	Elevation (m)	Head (m)	Pressure (psi)
WJ300043	0.25	137	191.25	77.1
WJ300080	0.11	136.93	191.26	77.2
WJ300097	0	136.92	191.25	77.2
WJ300092	0.16	136.9	191.26	77.3
WJ300010	0.24	136.57	191.25	77.7
WJ300092	0.15	136.54	191.28	77.8
WJ300080	0.08	136.47	191.26	77.9
WJ300044	0.03	136.43	191.25	77.9
WJ300044	0.06	136.35	191.25	78.1
WJ300043	0.12	136.33	191.25	78.1
WJ300058	0.04	136.13	191.26	78.4
WJ300033	0.03	135.9	191.26	78.7
WJ51898	0.13	135.9	191.26	78.7
WJ51908	0.09	135.9	191.26	78.7
WJ300044	0.2	135.82	191.25	78.8
WJ300031	0.5	135.59	191.25	79.1
WJ56380	0.05	135.59	191.25	79.1
WJ56382	0.07	135.59	191.25	79.1
WJ56384	0.03	135.57	191.25	79.2
WJ56385	0.04	135.57	191.25	79.2
WJ56387	0	135.57	191.25	79.2
WJ56388	0	135.57	191.25	79.2
WJ56389	0.08	135.57	191.25	79.2
WJ51892	0.04	135.5	191.26	79.3
WJ56391	0	135.41	191.25	79.4
WJ300028	0.14	135.36	191.25	79.5
WJ300088	0.34	135.26	191.26	79.6
WJ56431	0.04	135.25	191.25	79.6
WJ300092	0.5	135.3	191.31	79.6
WJ300033	0.33	135.2	191.26	79.7
WJ300079	0.21	135.19	191.26	79.7
WJ300085	0.61	135.22	191.29	79.7
WJ51910	0.12	135.1	191.26	79.8
WJ51936	0.11	135.1	191.26	79.8
WJ51937	0.08	135.1	191.26	79.8
WJ300062	0.57	135.09	191.26	79.9
WJ300080	0.11	135.01	191.26	80.0
WJ300088	0.19	135.01	191.26	80.0
WJ51893	0.01	135	191.26	80.0
WJ300044	0.13	134.94	191.25	80.1
WJ300058	0.02	134.8	191.26	80.3
WJ300080	0.14	134.79	191.26	80.3

17103 - Eglinton Laird Intensification Water Modelling - Jan 2018-Post-Dev Upgraded System Average Day Demand Run				
ID	Demand (L/s)	Elevation (m)	Head (m)	Pressure (psi)
WJ53257	0.07	134.6	191.27	80.6
WJ53252	0.17	134.59	191.27	80.6
WJ53255	0.09	134.6	191.28	80.6
WJ56394	0.13	134.54	191.25	80.6
WJ56400	0.02	134.54	191.25	80.6
WJ56401	0.04	134.54	191.25	80.6
WJ53253	0.27	134.5	191.28	80.7
WJ300035	0.17	134.42	191.25	80.8
WJ300007	0.01	134.32	191.25	80.9
WJ300044	0.07	134.28	191.25	81.0
WJ300000	0.56	134.25	191.27	81.1
WJ300044	0.2	134.16	191.25	81.2
WJ56393	0.08	134.15	191.25	81.2
WJ56421	0.13	134.15	191.25	81.2
WJ300085	0.22	134.17	191.31	81.2
WJ300000	0.15	133.89	191.26	81.6
WJ300057	0.29	133.89	191.27	81.6
WJ300007	0.65	133.61	191.25	81.9
WJ300028	0.43	133.45	191.25	82.2
WJ22402	0.19	133.38	191.26	82.3
WJ300031	0.54	133.26	191.25	82.4
WJ300035	0.1	133.17	191.25	82.6
WJ300080	0.21	132.93	191.26	82.9
WJ51918	0.74	132.9	191.26	83.0
WJ300011	0	132.96	191.34	83.0
WJ300011	0.01	132.93	191.34	83.0
WJ56395	0.11	132.82	191.25	83.1
WJ56397	0.04	132.82	191.25	83.1
WJ51919	0.04	132.8	191.26	83.1
WJ56399	0.05	132.65	191.25	83.3
WJ300012	0.27	132.72	191.34	83.3
WJ300051	0.07	132.67	191.33	83.4
J18	6.24	132.5	191.26	83.5
J20	1.87	132.5	191.26	83.5
J22	2.43	132.5	191.26	83.5
J26	2.71	132.5	191.26	83.5
WJ51921	0.07	132.5	191.26	83.5
J24	1.96	132.5	191.26	83.5
J28	4.67	132.5	191.27	83.6
J30	1.94	132.5	191.29	83.6
J32	0.92	132.5	191.3	83.6
WJ300052	0	132.53	191.34	83.6

17103 - Eglinton Laird Intensification Water Modelling - Jan 2018-Post-Dev Upgraded System Average Day Demand Run				
ID	Demand (L/s)	Elevation (m)	Head (m)	Pressure (psi)
WJ300053	0	132.53	191.34	83.6
WJ300085	0.15	132.5	191.32	83.6
WJ300052	0.17	132.32	191.34	83.9
WJ22421	0.12	132.24	191.27	83.9
WJ300052	0	132.29	191.34	83.9
WJ300116	0.1	131.99	191.07	84.0
WJ300092	0.16	132.24	191.34	84.0
WJ300034	0.93	132.15	191.33	84.1
WJ300080	0.14	132	191.26	84.2
WJ300097	0.16	131.95	191.29	84.4
WJ300079	0.16	131.93	191.28	84.4
WJ300097	0.04	131.82	191.27	84.5
WJ300052	0.17	131.81	191.32	84.6
WJ300097	0.03	131.75	191.27	84.6
WJ53264	0.02	131.56	191.28	84.9
WJ53269	0.02	131.56	191.28	84.9
WJ53276	0.04	131.56	191.28	84.9
WJ53277	0.25	131.56	191.28	84.9
J96	0	131.5	191.26	85.0
WJ26595	0.01	131.56	191.32	85.0
WJ26596	0	131.56	191.32	85.0
WJ26597	0	131.56	191.33	85.0
WJ26598	0	131.56	191.33	85.0
WJ300053	0	131.56	191.32	85.0
WJ300099	0.26	131.48	191.26	85.0
WJ300079	0.23	131.49	191.29	85.0
WJ300106	0	131.5	191.3	85.0
J66	2.33	131.5	191.32	85.0
J68	0.07	131.5	191.32	85.0
J90	0.14	131.5	191.32	85.0
J80	0.08	131.5	191.33	85.1
J82	0.08	131.5	191.33	85.1
J84	1.46	131.5	191.33	85.1
J76	0.15	131.5	191.34	85.1
J78	0.08	131.5	191.34	85.1
J72	0.64	131.5	191.34	85.1
J74	0.14	131.5	191.34	85.1
J86	0.14	131.3	191.27	85.3
WJ300116	0.09	131.37	191.38	85.3
WJ300034	0.47	131.29	191.33	85.4
WJ300057	0.04	130.95	191.29	85.8
J38	0.14	130.84	191.26	85.9

17103 - Eglinton Laird Intensification Water Modelling - Jan 2018-Post-Dev Upgraded System Average Day Demand Run				
ID	Demand (L/s)	Elevation (m)	Head (m)	Pressure (psi)
WJ3000800	0.06	130.86	191.3	85.9
WJ3001181	0.14	130.85	191.29	85.9
WJ3000799	0.01	130.85	191.3	85.9
WJ3000528	0.06	130.81	191.3	86.0
WJ3001074	0	130.6	191.3	86.3
WJ3001069	0.31	130.59	191.3	86.3
WJ3001238	0.08	130.58	191.32	86.4
WJ3000501	0.12	130.56	191.32	86.4
J50	0.14	130.5	191.27	86.4
J52	0.76	130.5	191.27	86.4
J54	0.55	130.5	191.3	86.4
J56	0.49	130.5	191.3	86.4
J58	0.11	130.5	191.31	86.4
J60	4.45	130.5	191.31	86.4
J62	0.82	130.5	191.31	86.4
J64	0.14	130.44	191.31	86.5
WJ3000341	0.33	130.42	191.34	86.6
J36	0.14	130.3	191.26	86.7
WJ3000574	0.5	130.34	191.3	86.7
WJ3001245	0	130.28	191.3	86.7
WJ3000990	0	130.23	191.26	86.8
WJ3001169	0.01	130.01	191.07	86.8
WJ55196	0.2	130.18	191.25	86.8
WJ3001249	0	130.13	191.3	87.0
WJ3001071	0	130.12	191.3	87.0
WJ3000530	0.01	130.13	191.32	87.0
WJ3001075	0	130.11	191.3	87.0
WJ3000575	0.01	130.12	191.32	87.0
WJ26594	0	130.09	191.32	87.0
WJ3000532	0.01	130.09	191.32	87.0
WJ3001072	0.02	130.04	191.3	87.1
WJ3001251	0	130.04	191.3	87.1
J92	0	130	191.26	87.1
J94	0	130	191.26	87.1
J98	0	130	191.26	87.1
WJ14629	0	129.8	191.07	87.1
J100	0	130	191.29	87.1
J34	1.33	130	191.31	87.2
WJ3001248	0	129.96	191.3	87.2
WJ3000801	0	129.94	191.3	87.2
WJ3000071	0.05	129.85	191.25	87.3
J44	0.14	129.84	191.26	87.3

17103 - Eglinton Laird Intensification Water Modelling - Jan 2018-Post-Dev Upgraded System Average Day Demand Run				
ID	Demand (L/s)	Elevation (m)	Head (m)	Pressure (psi)
WJ3000166	0.47	129.82	191.32	87.4
J102	0	129.61	191.31	87.7
WJ38309	0.31	129.6	191.3	87.7
WJ38310	0.15	129.58	191.3	87.7
WJ3000070	0.09	129.49	191.25	87.8
J40	0.14	129.44	191.26	87.9
WJ27674	0	129.38	191.3	88.0
WJ3001156	0	129.44	191.38	88.1
WJ51927	0.32	129.3	191.27	88.1
WJ3000060	0	129.29	191.3	88.2
WJ3000061	0	129.15	191.3	88.3
WJ3000064	0.06	129.13	191.29	88.4
WJ3000069	0.32	129.08	191.25	88.4
WJ3000065	0.05	129.06	191.28	88.5
J42	0.14	129.03	191.28	88.5
WJ51923	0	129	191.27	88.5
WJ51925	0	129	191.27	88.5
WJ3001164	0.03	129.02	191.38	88.7
WJ3000062	0.03	128.93	191.3	88.7
WJ3000283	0.31	128.88	191.25	88.7
WJ3000857	0.07	128.92	191.3	88.7
WJ3001240	0	128.93	191.3	88.7
WJ3000067	0.31	128.8	191.27	88.8
WJ3000068	0.35	128.77	191.26	88.8
WJ3000508	0.79	128.75	191.34	89.0
WJ3000868	0.04	128.6	191.25	89.1
WJ55201	0.05	128.42	191.25	89.3
WJ56502	0.15	128.41	191.25	89.3
J48	0.14	128.43	191.3	89.4
WJ55199	0.03	128.27	191.25	89.5
WJ27615	0.23	128.26	191.36	89.7
WJ3000869	0.24	128.13	191.25	89.7
WJ27574	0.29	128.18	191.33	89.8
WJ3000511	0.11	128.15	191.37	89.9
WJ27614	0.06	128.09	191.36	89.9
WJ55058	0.01	127.78	191.07	90.0
J46	0.14	128.02	191.31	90.0
WJ27596	0.17	128.02	191.32	90.0
WJ27575	0.34	128.02	191.33	90.0
WJ27595	0.28	128.02	191.33	90.0
WJ27634	0.2	127.88	191.39	90.3
WJ27694	0	127.88	191.39	90.3

17103 - Eglinton Laird Intensification Water Modelling - Jan 2018-Post-Dev Upgraded System Average Day Demand Run				
ID	Demand (L/s)	Elevation (m)	Head (m)	Pressure (psi)
WJ300098	0.64	128.2	191.75	90.4
WJ300085	0.01	127.54	191.41	90.8
WJ300001	0.2	127.79	191.75	90.9
WJ300075	2.92	127.73	191.74	91.0
WJ38289	0.5	127.42	191.43	91.0
WJ300089	0.52	127.21	191.25	91.0
WJ57290	1.09	127	191.07	91.1
WJ300076	1.17	127.67	191.75	91.1
WJ300062	0.23	127.29	191.38	91.1
WJ300086	0.07	127.37	191.52	91.2
WJ38272	0	127.27	191.43	91.2
WJ38269	0.08	127.27	191.43	91.2
WJ38270	0	127.27	191.43	91.2
WJ38271	0	127.27	191.43	91.2
WJ38273	0.02	127.27	191.43	91.2
WJ300085	0.09	127.2	191.41	91.3
WJ300123	0	127.11	191.38	91.4
J16	0	129	193.28	91.4
WJ300088	0.05	126.88	191.25	91.5
WJ300075	1.37	127.23	191.63	91.6
WJ38209	0	127.13	191.63	91.7
WJ300108	0	127.13	191.64	91.7
WJ38249	0	127	191.57	91.8
WJ38229	0.07	127	191.58	91.8
WJ38171	0.58	127.05	191.66	91.9
WJ300115	0.01	126.75	191.38	91.9
WJ38150	0.96	127.05	191.76	92.0
WJ38169	0	127.05	191.77	92.0
WJ50349	0	127.05	191.79	92.0
WJ50362	0.01	127.05	191.79	92.0
WJ50348	0.21	127.05	191.8	92.1
WJ50350	0	127.05	191.8	92.1
WJ50351	0	127.05	191.8	92.1
WJ300016	0.13	126.55	191.4	92.2
WJ300062	0.31	126.53	191.38	92.2
WJ300098	0.13	127.16	192.02	92.2
WJ24324	0	126.43	191.38	92.3
WJ24326	0	126.43	191.39	92.3
WJ300062	0	126.43	191.38	92.3
WJ300125	0	126.43	191.38	92.3
WJ24325	0.55	126.43	191.39	92.3
WJ300063	0.05	126.43	191.39	92.3

17103 - Eglinton Laird Intensification Water Modelling - Jan 2018-Post-Dev Upgraded System Average Day Demand Run				
ID	Demand (L/s)	Elevation (m)	Head (m)	Pressure (psi)
WJ27654	0.03	126.48	191.45	92.4
WJ300054	0.64	126.61	191.63	92.4
WJ300116	0	126.21	191.38	92.7
WJ300116	0	126.1	191.38	92.8
WJ38149	0	126.43	191.79	92.9
WJ50353	0.09	126.43	191.79	92.9
WJ50356	0	126.43	191.79	92.9
WJ50354	0.01	126.43	191.8	92.9
WJ50359	0	126.43	191.8	92.9
WJ50360	0	126.43	191.8	92.9
WJ300063	0.02	126	191.38	93.0
WJ300046	1.19	126.32	191.71	93.0
WJ50355	0	126.43	191.85	93.0
WJ50357	0	126.43	191.85	93.0
WJ300098	0	126.57	192.02	93.1
WJ50358	0.78	126.43	191.88	93.1
WJ50361	0	126.43	191.88	93.1
WJ56518	12.23	126.18	191.71	93.2
WJ300076	0.17	126.59	192.2	93.3
WJ300076	1.23	126.59	192.2	93.3
WJ300076	1.15	126.43	192.17	93.5
WJ56519	2.86	125.85	191.71	93.6
WJ300108	0.11	126.78	192.86	93.9
WJ300062	2.19	125.46	191.7	94.2
WJ300108	0.4	126.51	192.86	94.3
WJ300076	0.19	126.39	192.86	94.5
WJ56492	20.22	125.32	191.8	94.5
WJ300076	6.13	126.37	192.88	94.6
WJ300076	0.09	126.26	192.88	94.7
WJ300063	0.39	124.91	191.56	94.7
WJ300124	0	124.64	191.38	94.9
WJ300108	0.4	126.08	192.86	94.9
WJ300033	0.39	124.15	191.26	95.4
WJ300076	0.08	91.22	193.96	146.1

17103 - Eglinton Laird Intensification Water Modelling - Jan 2018-Post-Dev Upgraded System Maximum Day Demand Run				
ID	Demand (L/s)	Elevation (m)	Head (m)	Pressure (psi)
WJ4018275	0	158.22	186.55	40.3
WJ3000094	0.61	157.83	186.55	40.8
WJ31211	0	157.5	186.55	41.3
WJ3000095	0.03	157.31	186.55	41.6
WJ3000011	0.29	155.74	186.55	43.8
WJ3000096	0.11	155.02	186.55	44.8
WJ3000097	0.14	154.19	186.55	46.0
WJ3000432	0.46	154.11	186.55	46.1
WJ3000433	0.22	153.32	186.55	47.2
WJ3000030	0.59	150.95	186.53	50.6
WJ56006	0	150.93	186.55	50.6
WJ3000029	0.63	150.84	186.53	50.7
WJ3000434	0.34	150.76	186.55	50.9
WJ52820	0.01	150	185.98	51.1
WJ52818	0.15	149.95	185.98	51.2
WJ31228	0.01	150.5	186.54	51.2
WJ3000055	0.18	150.32	186.55	51.5
WJ3000791	0.06	150.12	186.54	51.8
WJ3000212	1.1	150.06	186.55	51.9
WJ14740	0.05	149.4	185.98	52.0
WJ3000278	0.12	149.86	186.55	52.2
WJ23834	0.47	149.81	186.53	52.2
WJ3000098	0.24	149.75	186.55	52.3
WJ23835	0.49	149.54	186.53	52.6
WJ55511	0	149.24	186.55	53.0
WJ3000028	0.55	148.91	186.51	53.5
WJ23838	0.43	148.74	186.54	53.7
WJ3000350	0.05	148.06	185.98	53.9
WJ3000012	0.4	148.62	186.55	53.9
WJ3000037	0.29	147.96	185.97	54.0
WJ52814	0.06	147.9	185.97	54.1
WJ52782	0.04	147.82	185.98	54.2
WJ3000351	0.03	147.81	185.98	54.3
WJ52806	0.04	147.8	185.97	54.3
WJ52813	0.25	147.8	185.97	54.3
WJ52781	0	147.7	185.98	54.4
WJ52784	0	147.7	185.97	54.4
WJ3001142	0.1	147.68	185.98	54.4
WJ3000756	0.02	147.66	185.98	54.5
WJ23837	0.38	148.18	186.54	54.5
WJ3000491	0.06	147.57	185.98	54.6
WJ55513	0	148.12	186.55	54.6
WJ3000352	0.12	147.48	185.98	54.7

17103 - Eglinton Laird Intensification Water Modelling - Jan 2018-Post-Dev Upgraded System Maximum Day Demand Run				
ID	Demand (L/s)	Elevation (m)	Head (m)	Pressure (psi)
WJ3000289	0.35	147.96	186.53	54.8
WJ3000027	0.85	147.77	186.47	55.0
WJ31227	0.08	147.81	186.54	55.1
WJ52804	0.03	147.2	185.97	55.1
WJ3000044	0.07	147.19	185.97	55.1
WJ3001090	0.09	147.14	185.98	55.2
WJ3000492	0.01	147.08	185.98	55.3
WJ3000349	0.12	147.02	185.98	55.4
WJ52807	0.15	147	185.97	55.4
WJ4018230	0	147.52	186.55	55.5
WJ55837	0	147.4	186.55	55.7
WJ52809	0.09	146.8	185.97	55.7
WJ3000394	0.05	146.64	185.98	55.9
WJ3000792	0.56	147.05	186.54	56.1
WJ3000036	0.22	146.45	185.97	56.2
WJ3000579	0.48	146.9	186.45	56.2
WJ3000972	0.44	146.57	186.36	56.6
WJ52803	0.04	146.18	185.97	56.6
WJ3000279	0.48	146.66	186.55	56.7
WJ3000578	0.38	146.48	186.45	56.8
WJ3000563	0.25	146.55	186.54	56.8
WJ3000624	0.09	146.46	186.54	57.0
WJ3000971	0.34	146.18	186.34	57.1
WJ52787	0.02	145.8	185.97	57.1
WJ3000569	0.29	145.98	186.18	57.2
WJ3000058	0.24	145.74	185.97	57.2
WJ3000003	0.41	146.1	186.43	57.3
WJ3001242	0.12	146.06	186.43	57.4
WJ14604	0.05	145.6	185.98	57.4
WJ52786	0.08	145.6	185.97	57.4
WJ3000883	0.71	146.06	186.46	57.4
WJ3000793	0.4	145.89	186.54	57.8
WJ14724	0.12	145.2	185.98	58.0
WJ3000538	0.34	145.25	186.2	58.2
WJ3000047	0.08	145.42	186.47	58.4
WJ3000023	0.04	144.89	185.98	58.4
WJ3000050	0.52	145.43	186.54	58.4
WJ3000115	0.48	145.4	186.53	58.5
WJ3000875	0.54	145.1	186.33	58.6
WJ3000537	0.24	144.93	186.19	58.7
WJ3000117	0.17	145.22	186.54	58.7
WJ54892	0.42	144.91	186.27	58.8
WJ14675	0.17	144.6	185.97	58.8

17103 - Eglinton Laird Intensification Water Modelling - Jan 2018-Post-Dev Upgraded System Maximum Day Demand Run				
ID	Demand (L/s)	Elevation (m)	Head (m)	Pressure (psi)
WJ51871	0.48	145.01	186.54	59.1
WJ3000035	0.16	144.43	185.97	59.1
WJ3000046	0.73	144.9	186.47	59.1
WJ3000539	0.23	144.65	186.27	59.2
WJ3000002	0.38	144.72	186.43	59.3
WJ3000435	0.29	144.83	186.55	59.3
WJ3000013	0.31	144.81	186.55	59.3
WJ3000874	0.09	144.48	186.3	59.5
WJ3000054	0.19	144.7	186.55	59.5
WJ3000116	0.3	144.66	186.54	59.5
WJ57286	0.38	144	185.97	59.7
WJ17209	0	144	186.01	59.7
WJ17210	0.5	144	186.01	59.7
WJ3000043	0.35	143.95	185.97	59.7
WJ52780	0	143.98	186.01	59.8
WJ3000332	0.58	144.5	186.55	59.8
WJ51947	0	144.5	186.55	59.8
WJ3000042	0.4	143.92	185.97	59.8
WJ51882	0.05	144.5	186.56	59.8
WJ51883	0.44	144.5	186.56	59.8
WJ1018244	0	143.93	186.01	59.8
WJ3000024	0.12	143.9	186.01	59.9
WJ3000580	0.3	144.34	186.47	59.9
WJ3000970	0.36	144.01	186.34	60.2
WJ14729	0	143.6	185.98	60.3
WJ14744	0.16	143.6	185.98	60.3
WJ3000001	0.44	144.02	186.42	60.3
WJ3000478	0.44	143.99	186.39	60.3
WJ3000034	0.29	143.47	185.97	60.4
WJ3000794	0.34	143.91	186.55	60.6
WJ3000851	0.19	143.97	186.62	60.6
WJ3000049	0.4	143.65	186.49	60.9
WJ3000536	0.3	143.19	186.16	61.1
WJ52792	0.03	143.4	186.38	61.1
WJ3000568	0.14	143.18	186.17	61.1
WJ3000048	0.07	143.48	186.48	61.1
WJ3000540	0.3	143.34	186.35	61.1
WJ3000479	0.51	143.32	186.47	61.3
WJ3000969	0.11	143.19	186.38	61.4
WJ3000099	0.28	143.34	186.55	61.4
WJ3000968	0.33	143.07	186.38	61.6
WJ3000480	0.67	143.15	186.47	61.6
WJ1018241	0.88	143.04	186.38	61.6

17103 - Eglinton Laird Intensification Water Modelling - Jan 2018-Post-Dev Upgraded System Maximum Day Demand Run				
ID	Demand (L/s)	Elevation (m)	Head (m)	Pressure (psi)
WJ3000051	0.47	143.06	186.54	61.8
WJ52810	0.16	142.48	185.97	61.8
WJ3000967	0.18	142.75	186.38	62.0
WJ3000015	0.34	142.65	186.33	62.1
WJ3000014	0.02	142.63	186.33	62.1
WJ3000643	0.38	142.35	186.19	62.3
WJ3000966	0.9	142.4	186.39	62.5
WJ3000486	0.14	141.8	185.97	62.8
WJ3000646	0.26	141.69	185.97	63.0
WJ3000625	0.41	141.99	186.54	63.3
WJ3000567	0.13	141.53	186.12	63.4
WJ3000481	0.66	141.88	186.5	63.4
WJ3000542	0.11	141.65	186.38	63.6
WJ3000541	0.15	141.47	186.35	63.8
WJ3000645	0.31	141.07	186.38	64.4
WJ3000100	0.42	141.07	186.55	64.7
WJ3000919	0.41	141.03	186.55	64.7
WJ3000482	0.24	140.92	186.55	64.9
WJ3000483	0.23	140.83	186.55	65.0
WJ3000581	0.42	140.66	186.5	65.2
WJ3000436	0.4	140.45	186.55	65.5
WJ51894	0.26	140.2	186.56	65.9
WJ51914	0.08	140.2	186.56	65.9
WJ14608	0.07	138.8	185.98	67.1
WJ3000101	0.43	138.56	186.55	68.2
WJ3000052	0.06	138.16	186.55	68.8
WJ3000582	0.42	137.94	186.54	69.1
WJ3000802	0.38	137.93	186.56	69.1
WJ55845	0	137.9	186.55	69.2
WJ55851	0.01	137.9	186.55	69.2
WJ3000437	0.37	137.87	186.55	69.2
WJ55852	0	137.8	186.55	69.3
WJ3000583	0.18	137.72	186.55	69.4
WJ3000795	0.51	137.56	186.56	69.7
WJ3000280	0.59	137.35	186.55	69.9
WJ3000372	0.1	137.19	186.55	70.2
WJ3000852	0.38	137.25	186.62	70.2
WJ3000884	0.16	137.15	186.55	70.2
WJ3000438	0.44	137	186.55	70.4
WJ3000978	0	137.01	186.55	70.4
WJ3000804	0.2	136.93	186.56	70.6
WJ3000979	0.01	136.92	186.55	70.6
WJ3000920	0.28	136.9	186.56	70.6

17103 - Eglinton Laird Intensification Water Modelling - Jan 2018-Post-Dev Upgraded System Maximum Day Demand Run				
ID	Demand (L/s)	Elevation (m)	Head (m)	Pressure (psi)
WJ3000102	0.43	136.57	186.55	71.1
WJ3000923	0.27	136.54	186.6	71.2
WJ3000803	0.15	136.47	186.56	71.2
WJ3000441	0.06	136.43	186.55	71.3
WJ3000440	0.11	136.35	186.55	71.4
WJ3000439	0.22	136.33	186.55	71.4
WJ3000584	0.07	136.13	186.56	71.7
WJ3000334	0.06	135.9	186.57	72.0
WJ51898	0.23	135.9	186.57	72.0
WJ51908	0.16	135.9	186.57	72.0
WJ3000442	0.36	135.82	186.55	72.1
WJ3000315	0.9	135.59	186.56	72.5
WJ56380	0.09	135.59	186.55	72.5
WJ56382	0.13	135.59	186.55	72.5
WJ56384	0.06	135.57	186.55	72.5
WJ56385	0.07	135.57	186.56	72.5
WJ56387	0	135.57	186.56	72.5
WJ56388	0	135.57	186.56	72.5
WJ56389	0.14	135.57	186.55	72.5
WJ51892	0.06	135.5	186.57	72.6
WJ56391	0	135.41	186.55	72.7
WJ3000281	0.24	135.36	186.55	72.8
WJ56431	0.07	135.25	186.55	72.9
WJ3000886	0.61	135.26	186.57	72.9
WJ3000337	0.61	135.2	186.58	73.0
WJ3000796	0.39	135.19	186.57	73.0
WJ3000924	0.92	135.3	186.69	73.1
WJ3000853	1.16	135.22	186.64	73.1
WJ3000626	1.04	135.09	186.55	73.2
WJ51910	0.22	135.1	186.58	73.2
WJ51936	0.21	135.1	186.58	73.2
WJ51937	0.15	135.1	186.58	73.2
WJ3000805	0.19	135.01	186.57	73.3
WJ3000885	0.35	135.01	186.57	73.3
WJ51893	0.02	135	186.58	73.3
WJ3000443	0.24	134.94	186.55	73.4
WJ3000585	0.03	134.8	186.56	73.6
WJ3000806	0.25	134.79	186.57	73.6
WJ53252	0.3	134.59	186.58	73.9
WJ53257	0.12	134.6	186.59	73.9
WJ53255	0.17	134.6	186.6	73.9
WJ56394	0.23	134.54	186.55	73.9
WJ56400	0.04	134.54	186.55	73.9

17103 - Eglinton Laird Intensification Water Modelling - Jan 2018-Post-Dev Upgraded System Maximum Day Demand Run				
ID	Demand (L/s)	Elevation (m)	Head (m)	Pressure (psi)
WJ56401	0.08	134.54	186.55	73.9
WJ53253	0.49	134.5	186.6	74.1
WJ3000354	0.31	134.42	186.55	74.1
WJ3000074	0.01	134.32	186.54	74.2
WJ3000444	0.13	134.28	186.54	74.3
WJ3000004	1.02	134.25	186.57	74.4
WJ3000445	0.36	134.16	186.54	74.5
WJ56393	0.15	134.15	186.55	74.5
WJ56421	0.23	134.15	186.55	74.5
WJ3000854	0.39	134.17	186.7	74.7
WJ3000005	0.26	133.89	186.57	74.9
WJ3000572	0.53	133.89	186.58	74.9
WJ3000073	1.18	133.61	186.54	75.3
WJ3000282	0.77	133.45	186.55	75.5
WJ22402	0.34	133.38	186.58	75.6
WJ3000316	0.96	133.26	186.56	75.8
WJ3000355	0.18	133.17	186.55	75.9
WJ3000807	0.38	132.93	186.58	76.3
WJ51918	1.66	132.9	186.58	76.3
WJ56395	0.19	132.82	186.55	76.4
WJ56397	0.08	132.82	186.55	76.4
WJ51919	0.08	132.8	186.58	76.5
WJ3000119	0	132.96	186.76	76.5
WJ3000118	0.03	132.93	186.76	76.5
WJ56399	0.09	132.65	186.55	76.6
WJ3001168	0.18	131.99	185.97	76.8
WJ3000120	0.54	132.72	186.76	76.8
WJ3000519	0.13	132.67	186.74	76.9
WJ51921	0.14	132.5	186.58	76.9
J18	9.3	132.5	186.59	76.9
J20	2.06	132.5	186.59	76.9
J22	2.94	132.5	186.59	76.9
J24	2.37	132.5	186.59	76.9
J26	3.18	132.5	186.59	76.9
J28	5.81	132.5	186.61	76.9
J30	2.46	132.5	186.66	77.0
J32	1.2	132.5	186.69	77.0
WJ3000855	0.27	132.5	186.71	77.1
WJ3000527	0	132.53	186.77	77.1
WJ3000531	0	132.53	186.77	77.1
WJ22421	0.22	132.24	186.6	77.3
WJ3000525	0.33	132.32	186.77	77.4
WJ3000526	0.01	132.29	186.77	77.4

17103 - Eglinton Laird Intensification Water Modelling - Jan 2018-Post-Dev Upgraded System Maximum Day Demand Run				
ID	Demand (L/s)	Elevation (m)	Head (m)	Pressure (psi)
WJ3000925	0.3	132.24	186.76	77.5
WJ3000808	0.25	132	186.59	77.6
WJ3000345	1.99	132.15	186.74	77.6
WJ3000797	0.29	131.93	186.61	77.7
WJ3000977	0.29	131.95	186.65	77.8
WJ3000975	0.07	131.82	186.6	77.9
WJ3000976	0.06	131.75	186.6	78.0
WJ3000520	0.31	131.81	186.71	78.0
WJ53264	0.04	131.56	186.6	78.2
WJ53276	0.07	131.56	186.6	78.2
WJ53277	0.44	131.56	186.6	78.2
WJ53269	0.04	131.56	186.61	78.3
J96	0.14	131.5	186.59	78.3
WJ3000995	0.5	131.48	186.59	78.3
WJ3000798	0.98	131.49	186.64	78.4
WJ26595	0.02	131.56	186.73	78.4
WJ26596	0	131.56	186.73	78.4
WJ3000535	0.08	131.56	186.73	78.4
WJ26597	0.24	131.56	186.74	78.4
WJ26598	0.01	131.56	186.74	78.4
WJ3001068	0.27	131.5	186.67	78.4
J66	3.53	131.5	186.72	78.5
J68	0.09	131.5	186.72	78.5
J90	0	131.5	186.72	78.5
J80	0.09	131.5	186.74	78.5
J82	0.09	131.5	186.74	78.5
J84	2.21	131.5	186.74	78.5
J72	1.06	131.5	186.77	78.6
J74	0	131.5	186.77	78.6
J76	0.16	131.5	186.76	78.6
J78	0.12	131.5	186.76	78.6
J86	0	131.3	186.61	78.6
WJ3000346	0.95	131.29	186.74	78.8
WJ3001165	0.19	131.37	186.87	78.9
WJ3000573	0.07	130.95	186.63	79.2
J38	0	130.84	186.59	79.3
WJ3001181	0.28	130.85	186.63	79.3
WJ3000800	0.13	130.86	186.67	79.3
WJ3000799	0.01	130.85	186.67	79.4
WJ3000528	0.15	130.81	186.67	79.4
WJ3001169	0.02	130.01	185.97	79.6
WJ3001074	0.14	130.6	186.67	79.7
WJ3001069	0.62	130.59	186.67	79.7

17103 - Eglinton Laird Intensification Water Modelling - Jan 2018-Post-Dev Upgraded System Maximum Day Demand Run				
ID	Demand (L/s)	Elevation (m)	Head (m)	Pressure (psi)
J50	0.19	130.5	186.61	79.8
J52	1.14	130.5	186.61	79.8
WJ3001238	0.17	130.58	186.73	79.8
WJ3000507	0.31	130.56	186.72	79.8
J54	0.91	130.5	186.67	79.9
J56	0.74	130.5	186.67	79.9
WJ14629	0	129.8	185.97	79.9
J58	0.12	130.5	186.7	79.9
J60	6.03	130.5	186.7	79.9
J62	1.24	130.5	186.7	79.9
J64	0	130.44	186.7	80.0
J36	0	130.3	186.59	80.0
WJ3000574	0.9	130.34	186.66	80.1
WJ3000347	0.66	130.42	186.77	80.1
WJ3000996	0.34	130.23	186.59	80.1
WJ55196	0.36	130.18	186.55	80.1
WJ3001245	0	130.28	186.67	80.2
WJ3001249	0	130.13	186.68	80.4
WJ3001071	0	130.12	186.67	80.4
WJ3001075	0	130.11	186.67	80.4
WJ3000530	0.01	130.13	186.72	80.4
J92	0.14	130	186.59	80.5
J94	0.14	130	186.59	80.5
J98	0.14	130	186.59	80.5
WJ3000575	0.02	130.12	186.72	80.5
WJ26594	0.27	130.09	186.72	80.5
WJ3000532	0.02	130.09	186.72	80.5
WJ3001072	0.04	130.04	186.67	80.5
WJ3001251	0	130.04	186.68	80.5
J100	0.14	130	186.66	80.6
WJ3000071	0.09	129.85	186.55	80.6
J34	1.73	130	186.71	80.6
WJ3001248	0	129.96	186.68	80.6
WJ3000801	0	129.94	186.68	80.7
J44	0	129.84	186.59	80.7
WJ3000166	0.94	129.82	186.71	80.9
WJ3000070	0.17	129.49	186.55	81.1
WJ38309	0.62	129.6	186.68	81.2
J102	0.14	129.61	186.71	81.2
WJ38310	0.29	129.58	186.68	81.2
J40	0	129.44	186.59	81.3
WJ27674	0	129.38	186.68	81.5
WJ51927	0.67	129.3	186.6	81.5

17103 - Eglinton Laird Intensification Water Modelling - Jan 2018-Post-Dev Upgraded System Maximum Day Demand Run				
ID	Demand (L/s)	Elevation (m)	Head (m)	Pressure (psi)
WJ3000060	0.01	129.29	186.68	81.6
WJ3001156	0	129.44	186.88	81.7
WJ3000069	0.57	129.08	186.56	81.7
WJ3000061	0	129.15	186.68	81.8
WJ3000064	0.12	129.13	186.67	81.8
WJ3000065	0.69	129.06	186.64	81.9
J42	0	129.03	186.63	81.9
WJ51923	0	129	186.6	81.9
WJ51925	0.61	129	186.61	81.9
WJ3000283	0.55	128.88	186.56	82.0
WJ3000062	0.05	128.93	186.68	82.1
WJ3000857	0.15	128.92	186.68	82.1
WJ3001246	0	128.93	186.68	82.1
WJ3000067	0.57	128.8	186.6	82.2
WJ3000068	0.64	128.77	186.57	82.2
WJ3001164	0.07	129.02	186.87	82.2
WJ3000868	0.08	128.6	186.54	82.4
WJ3000508	1.59	128.75	186.78	82.5
WJ55201	0.1	128.42	186.55	82.6
WJ56502	0.28	128.41	186.55	82.6
WJ55058	0.02	127.78	185.97	82.7
J48	0	128.43	186.69	82.8
WJ55199	0.05	128.27	186.55	82.8
WJ3000869	0.43	128.13	186.54	83.0
WJ27615	0.47	128.26	186.83	83.3
WJ27574	0.58	128.18	186.77	83.3
WJ3000511	0.22	128.15	186.84	83.4
J46	0	128.02	186.72	83.5
WJ27596	0.32	128.02	186.73	83.5
WJ27575	0.65	128.02	186.75	83.5
WJ27595	0.57	128.02	186.76	83.5
WJ27614	0.12	128.09	186.83	83.5
WJ57290	1.96	127	185.97	83.8
WJ27634	0.4	127.88	186.91	83.9
WJ27694	0	127.88	186.92	83.9
WJ3000890	0.94	127.21	186.54	84.4
WJ3000859	0.03	127.54	186.97	84.5
WJ3000628	0.47	127.29	186.88	84.7
WJ3000982	1.28	128.2	187.8	84.7
WJ38289	0.99	127.42	187.02	84.7
WJ3000889	0.09	126.88	186.54	84.8
WJ38272	0	127.27	187.01	84.9
WJ38269	0.17	127.27	187.02	85.0

17103 - Eglinton Laird Intensification Water Modelling - Jan 2018-Post-Dev Upgraded System Maximum Day Demand Run				
ID	Demand (L/s)	Elevation (m)	Head (m)	Pressure (psi)
WJ38270	0	127.27	187.02	85.0
WJ38271	0.01	127.27	187.02	85.0
WJ38273	0.04	127.27	187.02	85.0
WJ3001239	0	127.11	186.88	85.0
WJ3000858	0.18	127.2	186.98	85.0
WJ3000860	0.14	127.37	187.24	85.1
WJ3000016	0.4	127.79	187.8	85.3
WJ3000759	5.37	127.73	187.77	85.4
WJ3000760	2.34	127.67	187.8	85.5
WJ3001155	0.01	126.75	186.88	85.5
WJ3000758	2.59	127.23	187.51	85.7
WJ3000629	0.61	126.53	186.88	85.8
WJ38249	0.01	127	187.37	85.8
WJ3000167	0.27	126.55	186.93	85.9
WJ38229	0.14	127	187.4	85.9
WJ38209	0	127.13	187.55	85.9
WJ3001083	0	127.13	187.56	85.9
WJ24324	0	126.43	186.88	85.9
WJ24326	0	126.43	186.88	85.9
WJ3000627	0	126.43	186.88	85.9
WJ3000631	0.1	126.43	186.88	85.9
WJ3001254	0	126.43	186.88	85.9
WJ24325	1.11	126.43	186.88	85.9
WJ38171	1.15	127.05	187.63	86.1
WJ27654	0.05	126.48	187.08	86.2
WJ3001167	0	126.21	186.88	86.2
WJ3001166	0	126.1	186.87	86.4
WJ38150	1.92	127.05	187.89	86.5
WJ38169	0	127.05	187.91	86.5
WJ3000630	0.03	126	186.88	86.6
WJ3000544	1.22	126.61	187.5	86.6
WJ50349	0	127.05	187.95	86.6
WJ50362	0.02	127.05	187.95	86.6
WJ50348	0.42	127.05	187.97	86.6
WJ50350	0.01	127.05	187.97	86.6
WJ50351	0	127.05	187.97	86.6
WJ3000463	2.14	126.32	187.66	87.2
WJ3000984	0.27	127.16	188.57	87.3
WJ56518	22.03	126.18	187.67	87.4
WJ38149	0	126.43	187.96	87.5
WJ50356	0	126.43	187.96	87.5
WJ50353	0.19	126.43	187.96	87.5
WJ50359	0	126.43	187.98	87.5

17103 - Eglinton Laird Intensification Water Modelling - Jan 2018-Post-Dev Upgraded System Maximum Day Demand Run				
ID	Demand (L/s)	Elevation (m)	Head (m)	Pressure (psi)
WJ50360	0	126.43	187.98	87.5
WJ50354	0.02	126.43	187.99	87.5
WJ50355	0	126.43	188.11	87.7
WJ50357	0	126.43	188.11	87.7
WJ50361	0	126.43	188.19	87.8
WJ50358	1.56	126.43	188.2	87.8
WJ56519	5.17	125.85	187.67	87.9
WJ3000985	0	126.57	188.57	88.1
WJ3000621	3.94	125.46	187.65	88.4
WJ3001241	0	124.64	186.88	88.5
WJ3000632	0.79	124.91	187.31	88.7
WJ3000339	0.7	124.15	186.6	88.8
WJ3000762	0.35	126.59	189.04	88.8
WJ3000763	2.27	126.59	189.05	88.8
WJ3000761	2.29	126.43	188.97	88.9
WJ56492	36.43	125.32	187.9	89.0
J16	0.14	129	192.01	89.6
WJ3001088	0.22	126.78	190.84	91.1
WJ3001087	0.81	126.51	190.84	91.5
WJ3000764	0.38	126.39	190.84	91.6
WJ3000767	11.04	126.37	190.9	91.7
WJ3000765	0.18	126.26	190.91	91.9
WJ3001089	0.79	126.08	190.84	92.1
WJ3000766	0.16	91.22	193.88	146.0

17103 - Eglinton Laird Intensification Water Modelling - Jan 2018- Post-Dev Upgraded System Peak Hour Day Demand Run				
ID	Demand (L/s)	Elevation (m)	Head (m)	Pressure (psi)
WJ4018275	0	158.22	182.45	34.5
WJ3000094	0.85	157.83	182.45	35.0
WJ31211	0	157.5	182.45	35.5
WJ3000095	0.04	157.31	182.45	35.8
WJ3000011	0.41	155.74	182.45	38.0
WJ3000096	0.15	155.02	182.45	39.0
WJ3000097	0.19	154.19	182.45	40.2
WJ3000432	0.63	154.11	182.45	40.3
WJ3000433	0.3	153.32	182.45	41.4
WJ52820	0.01	150	181.43	44.7
WJ52818	0.21	149.95	181.43	44.8
WJ3000030	0.59	150.95	182.43	44.8
WJ56006	0	150.93	182.45	44.8
WJ3000029	0.38	150.84	182.43	44.9
WJ3000434	0.47	150.76	182.45	45.1
WJ31228	0	150.5	182.44	45.4
WJ14740	0.07	149.4	181.43	45.5
WJ3000055	0.25	150.32	182.45	45.7
WJ3000791	0.07	150.12	182.44	46.0
WJ3000212	1.18	150.06	182.45	46.1
WJ3000278	0.17	149.86	182.45	46.3
WJ23834	0.65	149.81	182.43	46.4
WJ3000098	0.34	149.75	182.45	46.5
WJ23835	0.67	149.54	182.43	46.8
WJ55511	0	149.24	182.45	47.2
WJ3000350	0.07	148.06	181.43	47.4
WJ3000037	0.4	147.96	181.42	47.6
WJ3000028	0.41	148.91	182.41	47.6
WJ52814	0.09	147.9	181.42	47.7
WJ52782	0.06	147.82	181.43	47.8
WJ3000351	0.04	147.81	181.43	47.8
WJ52806	0.06	147.8	181.42	47.8
WJ52813	0.35	147.8	181.42	47.8
WJ23838	0.59	148.74	182.44	47.9
WJ52784	0	147.7	181.42	47.9
WJ52781	0	147.7	181.43	48.0
WJ3001142	0.13	147.68	181.43	48.0
WJ3000756	0.03	147.66	181.43	48.0
WJ3000012	0.55	148.62	182.45	48.1
WJ3000491	0.09	147.57	181.43	48.1
WJ3000352	0.17	147.48	181.43	48.3
WJ52804	0.04	147.2	181.42	48.7
WJ3000044	0.1	147.19	181.42	48.7

17103 - Eglinton Laird Intensification Water Modelling - Jan 2018- Post-Dev Upgraded System Peak Hour Day Demand Run				
ID	Demand (L/s)	Elevation (m)	Head (m)	Pressure (psi)
WJ23837	0.53	148.18	182.44	48.7
WJ3001090	0.12	147.14	181.43	48.8
WJ55513	0	148.12	182.45	48.8
WJ3000492	0.01	147.08	181.43	48.8
WJ3000349	0.17	147.02	181.42	48.9
WJ52807	0.21	147	181.42	48.9
WJ3000289	0.48	147.96	182.42	49.0
WJ3000027	0.91	147.77	182.32	49.1
WJ31227	0.12	147.81	182.44	49.2
WJ52809	0.12	146.8	181.42	49.2
WJ3000394	0.07	146.64	181.42	49.5
WJ4018230	0	147.52	182.45	49.7
WJ3000036	0.3	146.45	181.42	49.7
WJ55837	0	147.4	182.45	49.8
WJ52803	0.05	146.18	181.42	50.1
WJ3000579	0.66	146.9	182.28	50.3
WJ3000792	0.78	147.05	182.44	50.3
WJ3000972	0.61	146.57	182.11	50.5
WJ52787	0.03	145.8	181.42	50.6
WJ3000058	0.33	145.74	181.42	50.7
WJ3000279	0.66	146.66	182.45	50.9
WJ3000578	0.45	146.48	182.28	50.9
WJ3000569	0.4	145.98	181.79	50.9
WJ14604	0.06	145.6	181.43	50.9
WJ52786	0.12	145.6	181.42	50.9
WJ3000563	0.35	146.55	182.44	51.0
WJ3000971	0.48	146.18	182.09	51.1
WJ3000624	0.13	146.46	182.44	51.1
WJ3000003	0.56	146.1	182.25	51.4
WJ3001242	0.16	146.06	182.25	51.4
WJ14724	0.17	145.2	181.43	51.5
WJ3000883	0.98	146.06	182.31	51.5
WJ3000023	0.06	144.89	181.44	52.0
WJ3000793	0.56	145.89	182.45	52.0
WJ3000538	0.48	145.25	181.83	52.0
WJ14675	0.24	144.6	181.42	52.4
WJ3000537	0.33	144.93	181.82	52.4
WJ3000047	0.11	145.42	182.33	52.5
WJ3000875	0.76	145.1	182.07	52.6
WJ3000035	0.23	144.43	181.42	52.6
WJ3000050	0.7	145.43	182.44	52.6
WJ3000115	0.67	145.4	182.44	52.7
WJ54892	0.58	144.91	181.95	52.7

17103 - Eglinton Laird Intensification Water Modelling - Jan 2018- Post-Dev Upgraded System Peak Hour Day Demand Run				
ID	Demand (L/s)	Elevation (m)	Head (m)	Pressure (psi)
WJ3000117	0.23	145.22	182.45	52.9
WJ3000539	0.32	144.65	181.96	53.0
WJ57286	0.53	144	181.42	53.2
WJ3000046	1.01	144.9	182.33	53.2
WJ51871	0.43	145.01	182.45	53.2
WJ3000043	0.48	143.95	181.42	53.3
WJ17209	0	144	181.49	53.3
WJ17210	0.7	144	181.49	53.3
WJ3000042	0.56	143.92	181.42	53.3
WJ52780	0	143.98	181.49	53.3
WJ3000002	0.53	144.72	182.25	53.4
WJ3000874	0.12	144.48	182.01	53.4
WJ1018244	0	143.93	181.49	53.4
WJ3000024	0.07	143.9	181.49	53.4
WJ3000435	0.41	144.83	182.45	53.5
WJ3000013	0.43	144.81	182.45	53.5
WJ3000054	0.17	144.7	182.46	53.7
WJ3000116	0.41	144.66	182.44	53.7
WJ14729	0	143.6	181.44	53.8
WJ14744	0.22	143.6	181.44	53.8
WJ3000034	0.4	143.47	181.42	54.0
WJ3000332	0.35	144.5	182.46	54.0
WJ51947	0	144.5	182.46	54.0
WJ51882	0.06	144.5	182.47	54.0
WJ51883	0.61	144.5	182.47	54.0
WJ3000580	0.42	144.34	182.32	54.0
WJ3000970	0.5	144.01	182.09	54.1
WJ3000478	0.62	143.99	182.16	54.3
WJ3000001	0.6	144.02	182.23	54.3
WJ3000794	0.47	143.91	182.46	54.8
WJ3000536	0.42	143.19	181.75	54.8
WJ3000568	0.19	143.18	181.78	54.9
WJ3000851	0.27	143.97	182.58	54.9
WJ3000049	0.55	143.65	182.36	55.0
WJ52792	0.02	143.4	182.15	55.1
WJ3000540	0.42	143.34	182.1	55.1
WJ3000048	0.1	143.48	182.34	55.2
WJ52810	0.22	142.48	181.42	55.4
WJ3000969	0.16	143.19	182.16	55.4
WJ3000479	0.71	143.32	182.31	55.4
WJ3000968	0.46	143.07	182.16	55.6
WJ3000099	0.39	143.34	182.45	55.6
WJ1018241	1.11	143.04	182.15	55.6

17103 - Eglinton Laird Intensification Water Modelling - Jan 2018- Post-Dev Upgraded System Peak Hour Day Demand Run				
ID	Demand (L/s)	Elevation (m)	Head (m)	Pressure (psi)
WJ3000480	0.93	143.15	182.32	55.7
WJ3000051	0.65	143.06	182.45	56.0
WJ3000967	0.25	142.75	182.16	56.0
WJ3000015	0.47	142.65	182.07	56.1
WJ3000014	0.02	142.63	182.07	56.1
WJ3000643	0.52	142.35	181.81	56.1
WJ3000486	0.2	141.8	181.42	56.3
WJ3000646	0.37	141.69	181.42	56.5
WJ3000966	1.25	142.4	182.17	56.5
WJ3000567	0.1	141.53	181.68	57.1
WJ3000625	0.57	141.99	182.44	57.5
WJ3000481	0.92	141.88	182.38	57.6
WJ3000542	0.15	141.65	182.16	57.6
WJ3000541	0.21	141.47	182.1	57.8
WJ3000645	0.44	141.07	182.15	58.4
WJ3000100	0.58	141.07	182.45	58.8
WJ3000919	0.57	141.03	182.46	58.9
WJ3000482	0.34	140.92	182.45	59.0
WJ3000483	0.32	140.83	182.46	59.2
WJ3000581	0.59	140.66	182.38	59.3
WJ3000436	0.56	140.45	182.45	59.7
WJ51894	0.36	140.2	182.47	60.1
WJ51914	0.11	140.2	182.47	60.1
WJ14608	0.1	138.8	181.43	60.6
WJ3000101	0.6	138.56	182.46	62.4
WJ3000052	0.09	138.16	182.46	63.0
WJ3000582	0.58	137.94	182.45	63.3
WJ3000802	0.53	137.93	182.47	63.3
WJ55845	0	137.9	182.45	63.3
WJ55851	0.01	137.9	182.45	63.3
WJ3000437	0.52	137.87	182.45	63.4
WJ55852	0	137.8	182.45	63.5
WJ3000583	0.24	137.72	182.46	63.6
WJ3000795	0.71	137.56	182.47	63.9
WJ3000280	0.82	137.35	182.46	64.1
WJ3000372	0.14	137.19	182.46	64.4
WJ3000884	0.22	137.15	182.47	64.4
WJ3000852	0.42	137.25	182.58	64.4
WJ3000438	0.62	137	182.46	64.6
WJ3000978	0	137.01	182.46	64.6
WJ3000804	0.28	136.93	182.47	64.7
WJ3000979	0.01	136.92	182.46	64.7
WJ3000920	0.39	136.9	182.47	64.8

17103 - Eglinton Laird Intensification Water Modelling - Jan 2018- Post-Dev Upgraded System Peak Hour Day Demand Run				
ID	Demand (L/s)	Elevation (m)	Head (m)	Pressure (psi)
WJ3000102	0.6	136.57	182.46	65.2
WJ3000803	0.2	136.47	182.47	65.4
WJ3000923	0.38	136.54	182.55	65.4
WJ3000441	0.08	136.43	182.46	65.4
WJ3000440	0.16	136.35	182.46	65.6
WJ3000439	0.3	136.33	182.46	65.6
WJ3000584	0.1	136.13	182.47	65.9
WJ3000334	0.08	135.9	182.48	66.2
WJ51908	0.22	135.9	182.48	66.2
WJ51898	0.32	135.9	182.49	66.2
WJ3000442	0.5	135.82	182.45	66.3
WJ56380	0.12	135.59	182.46	66.6
WJ56382	0.19	135.59	182.46	66.6
WJ3000315	1.25	135.59	182.47	66.6
WJ56384	0.08	135.57	182.46	66.7
WJ56385	0.09	135.57	182.46	66.7
WJ56387	0	135.57	182.46	66.7
WJ56388	0	135.57	182.46	66.7
WJ56389	0.19	135.57	182.46	66.7
WJ51892	0.09	135.5	182.49	66.8
WJ56391	0	135.41	182.46	66.9
WJ3000281	0.34	135.36	182.46	67.0
WJ56431	0.1	135.25	182.46	67.1
WJ3000886	0.85	135.26	182.49	67.1
WJ3000796	0.54	135.19	182.5	67.2
WJ3000337	0.76	135.2	182.51	67.3
WJ3000626	1.35	135.09	182.47	67.4
WJ3000853	1.16	135.22	182.62	67.4
WJ51910	0.31	135.1	182.51	67.4
WJ51936	0.2	135.1	182.5	67.4
WJ3000924	1.17	135.3	182.71	67.4
WJ51937	0.21	135.1	182.51	67.4
WJ3000805	0.27	135.01	182.49	67.5
WJ3000885	0.48	135.01	182.49	67.5
WJ3000443	0.33	134.94	182.44	67.5
WJ51893	0.03	135	182.5	67.5
WJ3000585	0.04	134.8	182.48	67.8
WJ3000806	0.35	134.79	182.49	67.8
WJ56394	0.32	134.54	182.45	68.1
WJ56400	0.05	134.54	182.45	68.1
WJ56401	0.11	134.54	182.45	68.1
WJ53252	0.41	134.59	182.52	68.1
WJ53257	0.17	134.6	182.54	68.1

17103 - Eglinton Laird Intensification Water Modelling - Jan 2018- Post-Dev Upgraded System Peak Hour Day Demand Run				
ID	Demand (L/s)	Elevation (m)	Head (m)	Pressure (psi)
WJ53255	0.14	134.6	182.55	68.2
WJ3000354	0.43	134.42	182.44	68.3
WJ53253	0.68	134.5	182.54	68.3
WJ3000074	0.01	134.32	182.44	68.4
WJ3000444	0.19	134.28	182.44	68.5
WJ3000004	1.36	134.25	182.5	68.6
WJ3000445	0.49	134.16	182.44	68.6
WJ56393	0.21	134.15	182.45	68.7
WJ56421	0.32	134.15	182.45	68.7
WJ3000854	0.53	134.17	182.72	69.0
WJ3000005	0.36	133.89	182.49	69.1
WJ3000572	0.74	133.89	182.51	69.1
WJ3000073	1.64	133.61	182.44	69.4
WJ3000282	1.06	133.45	182.46	69.7
WJ22402	0.47	133.38	182.5	69.8
WJ3000316	1.33	133.26	182.47	70.0
WJ3000355	0.25	133.17	182.44	70.1
WJ3001168	0.25	131.99	181.42	70.3
WJ3000807	0.52	132.93	182.5	70.5
WJ51918	1.95	132.9	182.51	70.5
WJ56395	0.27	132.82	182.45	70.6
WJ56397	0.11	132.82	182.45	70.6
WJ51919	0.07	132.8	182.51	70.7
WJ56399	0.12	132.65	182.45	70.8
WJ3000119	0	132.96	182.82	70.9
WJ3000118	0.02	132.93	182.82	70.9
WJ51921	0.09	132.5	182.51	71.1
J18	12.86	132.5	182.51	71.1
J20	2.24	132.5	182.52	71.1
J22	4.63	132.5	182.52	71.1
J24	3.72	132.5	182.52	71.1
J26	4.53	132.5	182.52	71.1
J28	10.01	132.5	182.55	71.2
WJ3000120	0.32	132.72	182.82	71.2
WJ3000519	0.18	132.67	182.78	71.2
J30	4.47	132.5	182.64	71.3
J32	2.3	132.5	182.69	71.4
WJ3000855	0.38	132.5	182.74	71.4
WJ22421	0.3	132.24	182.54	71.5
WJ3000527	0	132.53	182.83	71.5
WJ3000531	0	132.53	182.83	71.5
WJ3000808	0.32	132	182.52	71.8
WJ3000525	0.2	132.32	182.84	71.8

17103 - Eglinton Laird Intensification Water Modelling - Jan 2018- Post-Dev Upgraded System Peak Hour Day Demand Run				
ID	Demand (L/s)	Elevation (m)	Head (m)	Pressure (psi)
WJ3000526	0.01	132.29	182.84	71.9
WJ3000925	0.29	132.24	182.82	71.9
WJ3000797	0.41	131.93	182.56	72.0
WJ3000345	1.19	132.15	182.8	72.0
WJ3000977	0.39	131.95	182.64	72.1
WJ3000975	0.07	131.82	182.54	72.1
WJ3000976	0.08	131.75	182.54	72.2
WJ3000520	0.41	131.81	182.74	72.4
WJ53264	0.06	131.56	182.54	72.5
WJ53276	0.08	131.56	182.55	72.5
WJ53277	0.62	131.56	182.55	72.5
WJ53269	0.05	131.56	182.56	72.5
J96	0	131.5	182.52	72.5
WJ3000995	0.67	131.48	182.52	72.6
WJ3000798	1.36	131.49	182.61	72.7
WJ3001068	0.27	131.5	182.67	72.8
WJ26595	0.01	131.56	182.78	72.8
WJ26596	0	131.56	182.78	72.8
WJ3000535	0.05	131.56	182.78	72.8
WJ26597	0.15	131.56	182.78	72.8
WJ26598	0	131.56	182.78	72.8
J66	5.05	131.5	182.76	72.9
J86	0	131.3	182.56	72.9
J68	0.11	131.5	182.76	72.9
J90	0	131.5	182.76	72.9
J80	0.1	131.5	182.8	72.9
J82	0.1	131.5	182.8	72.9
J84	3.16	131.5	182.8	72.9
J76	0.18	131.5	182.82	73.0
J78	0.17	131.5	182.82	73.0
J72	1.59	131.5	182.83	73.0
J74	0	131.5	182.83	73.0
WJ3001169	0.02	130.01	181.42	73.1
WJ3000346	0.57	131.29	182.8	73.2
WJ14629	0	129.8	181.42	73.4
WJ3001165	0.11	131.37	183.01	73.4
WJ3000573	0.1	130.95	182.6	73.4
J38	0	130.84	182.52	73.5
WJ3001181	0.23	130.85	182.6	73.6
WJ3000800	0.17	130.86	182.66	73.6
WJ3000799	0.01	130.85	182.66	73.7
WJ3000528	0.14	130.81	182.66	73.7
J50	0.26	130.5	182.56	74.0

17103 - Eglinton Laird Intensification Water Modelling - Jan 2018- Post-Dev Upgraded System Peak Hour Day Demand Run				
ID	Demand (L/s)	Elevation (m)	Head (m)	Pressure (psi)
J52	1.63	130.5	182.56	74.0
WJ3001074	0.09	130.6	182.67	74.0
WJ3001069	0.37	130.59	182.67	74.0
J54	1.36	130.5	182.67	74.2
J56	1.05	130.5	182.67	74.2
WJ3001238	0.1	130.58	182.78	74.2
WJ3000507	0.19	130.56	182.76	74.2
J36	0	130.3	182.51	74.2
J58	0.13	130.5	182.72	74.2
J60	7.98	130.5	182.72	74.2
J62	1.78	130.5	182.72	74.2
WJ55196	0.5	130.18	182.45	74.3
J64	0	130.44	182.72	74.3
WJ3000996	0.2	130.23	182.52	74.3
WJ3000574	1.25	130.34	182.65	74.4
WJ3001245	0	130.28	182.67	74.5
WJ3000347	0.4	130.42	182.85	74.5
J92	0	130	182.52	74.7
J94	0	130	182.52	74.7
J98	0	130	182.52	74.7
WJ3001249	0	130.13	182.67	74.7
WJ3001071	0	130.12	182.67	74.7
WJ3001075	0	130.11	182.67	74.7
WJ3000071	0.13	129.85	182.45	74.8
WJ3000530	0.01	130.13	182.75	74.8
WJ3001072	0.03	130.04	182.67	74.8
WJ3001251	0	130.04	182.67	74.8
J100	0	130	182.64	74.8
WJ3000575	0.02	130.12	182.75	74.8
WJ26594	0.16	130.09	182.75	74.9
WJ3000532	0.01	130.09	182.75	74.9
J44	0	129.84	182.52	74.9
WJ3001248	0	129.96	182.67	74.9
J34	3.32	130	182.72	74.9
WJ3000801	0	129.94	182.67	75.0
WJ3000166	0.57	129.82	182.75	75.2
WJ3000070	0.24	129.49	182.45	75.3
J40	0	129.44	182.52	75.5
WJ38309	0.37	129.6	182.69	75.5
J102	0	129.61	182.72	75.5
WJ38310	0.18	129.58	182.69	75.5
WJ51927	0.86	129.3	182.54	75.7
WJ27674	0	129.38	182.68	75.8

17103 - Eglinton Laird Intensification Water Modelling - Jan 2018- Post-Dev Upgraded System Peak Hour Day Demand Run				
ID	Demand (L/s)	Elevation (m)	Head (m)	Pressure (psi)
WJ3000069	0.79	129.08	182.47	75.9
WJ3000060	0.01	129.29	182.68	75.9
WJ3000061	0	129.15	182.67	76.1
WJ3000064	0.07	129.13	182.65	76.1
WJ51923	0	129	182.54	76.1
J42	0	129.03	182.58	76.1
WJ3000065	0.41	129.06	182.61	76.1
WJ51925	0.37	129	182.55	76.1
WJ3001156	0	129.44	183.02	76.2
WJ3000283	0.77	128.88	182.46	76.2
WJ55058	0.03	127.78	181.42	76.3
WJ3000068	0.89	128.77	182.49	76.4
WJ3000067	0.79	128.8	182.54	76.4
WJ3000062	0.03	128.93	182.68	76.4
WJ3000857	0.09	128.92	182.68	76.4
WJ3001246	0	128.93	182.68	76.4
WJ3000868	0.11	128.6	182.44	76.5
WJ3001164	0.04	129.02	183.01	76.8
WJ55201	0.13	128.42	182.44	76.8
WJ56502	0.39	128.41	182.44	76.8
WJ3000508	0.95	128.75	182.87	76.9
WJ55199	0.07	128.27	182.44	77.0
J48	0	128.43	182.69	77.1
WJ3000869	0.59	128.13	182.44	77.2
WJ57290	2.72	127	181.42	77.4
WJ27574	0.35	128.18	182.82	77.7
WJ27615	0.28	128.26	182.92	77.7
J46	0	128.02	182.74	77.8
WJ27596	0.26	128.02	182.76	77.8
WJ27575	0.61	128.02	182.8	77.9
WJ27595	0.34	128.02	182.8	77.9
WJ3000511	0.13	128.15	182.96	77.9
WJ27614	0.07	128.09	182.93	78.0
WJ27634	0.24	127.88	183.07	78.5
WJ27694	0	127.88	183.08	78.5
WJ3000890	1.3	127.21	182.44	78.5
WJ3000889	0.12	126.88	182.44	79.0
WJ3000859	0.02	127.54	183.17	79.1
WJ3000628	0.28	127.29	183.02	79.2
WJ38289	0.6	127.42	183.25	79.4
WJ3001239	0	127.11	183.01	79.5
WJ3000858	0.11	127.2	183.17	79.6
WJ38272	0	127.27	183.24	79.6

17103 - Eglinton Laird Intensification Water Modelling - Jan 2018- Post-Dev Upgraded System Peak Hour Day Demand Run				
ID	Demand (L/s)	Elevation (m)	Head (m)	Pressure (psi)
WJ38270	0	127.27	183.25	79.6
WJ38271	0	127.27	183.25	79.6
WJ38269	0.1	127.27	183.25	79.6
WJ38273	0.02	127.27	183.25	79.6
WJ3000860	0.08	127.37	183.59	79.9
WJ3000982	0.77	128.2	184.42	79.9
WJ3001155	0.01	126.75	183.02	80.0
WJ3000629	0.37	126.53	183.02	80.3
WJ3000167	0.16	126.55	183.11	80.4
WJ24324	0	126.43	183.02	80.4
WJ24326	0	126.43	183.02	80.4
WJ3000627	0	126.43	183.02	80.4
WJ3000631	0.06	126.43	183.02	80.4
WJ3001254	0	126.43	183.02	80.4
WJ24325	0.67	126.43	183.02	80.5
WJ3000016	0.24	127.79	184.42	80.5
WJ3000759	6.6	127.73	184.37	80.5
WJ3000758	2.66	127.23	183.98	80.7
WJ3000760	1.4	127.67	184.42	80.7
WJ3001167	0	126.21	183.01	80.8
WJ38249	0.01	127	183.8	80.8
WJ38229	0.08	127	183.85	80.8
WJ27654	0.03	126.48	183.34	80.8
WJ3001166	0	126.1	183.01	80.9
WJ38209	0	127.13	184.08	81.0
WJ3001083	0	127.13	184.1	81.0
WJ3000630	0.02	126	183.02	81.1
WJ38171	0.69	127.05	184.21	81.3
WJ3000544	1.1	126.61	183.98	81.6
WJ38150	1.15	127.05	184.62	81.8
WJ38169	0	127.05	184.65	81.9
WJ50349	0	127.05	184.71	82.0
WJ50362	0.01	127.05	184.72	82.0
WJ50348	0.25	127.05	184.75	82.0
WJ50350	0.01	127.05	184.75	82.0
WJ50351	0	127.05	184.75	82.0
WJ3000463	2.98	126.32	184.12	82.2
WJ56518	30.5	126.18	184.13	82.4
WJ56519	7.04	125.85	184.13	82.9
WJ38149	0	126.43	184.73	82.9
WJ50356	0	126.43	184.73	82.9
WJ50353	0.11	126.43	184.73	82.9
WJ50359	0	126.43	184.77	82.9

17103 - Eglinton Laird Intensification Water Modelling - Jan 2018- Post-Dev Upgraded System Peak Hour Day Demand Run				
ID	**Demand (L/s)**	**Elevation (m)**	**Head (m)**	**Pressure (psi)**
WJ50360	0	126.43	184.77	82.9
WJ50354	0.01	126.43	184.78	83.0
WJ3001241	0	124.64	183.01	83.0
WJ3000339	0.97	124.15	182.53	83.0
WJ3000984	0.16	127.16	185.65	83.2
WJ50355	0	126.43	184.96	83.2
WJ50357	0	126.43	184.96	83.2
WJ3000621	5.47	125.46	184.1	83.4
WJ50361	0	126.43	185.08	83.4
WJ50358	0.94	126.43	185.1	83.4
WJ3000632	0.47	124.91	183.68	83.5
WJ3000985	0	126.57	185.65	84.0
WJ56492	50.34	125.32	184.45	84.1
WJ3000762	0.21	126.59	186.36	85.0
WJ3000763	2.65	126.59	186.38	85.0
WJ3000761	1.37	126.43	186.25	85.0
J16	0	129	190.94	88.1
WJ3001088	0.13	126.78	189.14	88.7
WJ3001087	0.49	126.51	189.14	89.0
WJ3000764	0.23	126.39	189.14	89.2
WJ3000767	15.34	126.37	189.23	89.4
WJ3000765	0.11	126.26	189.24	89.5
WJ3001089	0.48	126.08	189.14	89.6
WJ3000766	0.1	91.22	193.82	145.9

17103 - Eglinton Laird Intensification Water Modelling - Jan 2018 - Post-Dev - Upgraded System Max Daily Demand with Fireflow Simulation Run

Note:- At any given node the Available Flow at Hydrant must be greater than Total demand. Therefore the Residual Fire Flow at any node should be greater than Zero (indicating a greater available fire flow than what is required).

ID	Static Demand (L/s)	Static Pressure (psi)	Static Head (m)	Fire-Flow Demand (L/s)	Residual Pressure (psi)	Available Flow at Hydrant (L/s)	Available Flow Pressure (psi)	Residual Fire Flow (L/s)
WJ52792	0.03	61.1	186.4	317.0	-352.9	105.2	0.0	-211.9
WJ1018241	0.88	61.6	186.4	317.0	-340.6	108.1	0.0	-209.7
WJ3000029	0.63	50.7	186.5	317.0	-99.4	164.6	0.0	-153.0
WJ51871	0.48	59.1	186.5	317.0	-76.5	191.6	0.0	-125.9
WJ3000630	0.03	86.6	186.9	190.0	-289.6	84.0	0.0	-106.0
WJ3000567	0.13	63.4	186.1	190.0	-92.3	110.1	0.0	-80.0
WJ3001181	0.28	79.3	186.6	190.0	-115.3	114.4	0.0	-75.9
WJ3000621	3.94	88.4	187.7	317.0	-51.2	245.3	0.0	-75.7
WJ56400	0.04	73.9	186.6	317.0	-36.9	246.8	0.0	-70.3
WJ3000030	0.59	50.6	186.5	190.0	-59.1	120.7	0.0	-69.9
WJ3000463	2.14	87.2	187.7	317.0	-32.3	264.4	0.0	-54.7
WJ3000027	0.85	55.0	186.5	190.0	-14.5	165.2	0.0	-25.7
WJ3000578	0.38	56.8	186.5	190.0	-13.0	167.6	0.0	-22.8
WJ3000028	0.55	53.5	186.5	190.0	-9.3	172.5	0.0	-18.1
WJ3000044	0.07	55.1	186.0	65.0	-8.3	59.8	0.0	-5.3
WJ3001142	0.1	54.4	186.0	65.0	-7.3	60.4	0.0	-4.7
WJ52787	0.02	57.1	186.0	65.0	-7.1	60.6	0.0	-4.4
WJ31228	0.01	51.2	186.5	190.0	-1.7	186.2	0.0	-3.9
WJ52786	0.08	57.4	186.0	65.0	-4.0	62.5	0.0	-2.6
WJ3001090	0.09	55.2	186.0	65.0	-1.5	64.0	0.0	-1.1
WJ52782	0.04	54.2	186.0	65.0	-0.9	64.4	0.0	-0.6
WJ3000492	0.01	55.3	186.0	65.0	2.4	66.8	0.0	1.8
WJ3000868	0.08	82.4	186.5	65.0	4.2	67.0	0.0	1.9
WJ3000756	0.02	54.5	186.0	65.0	2.9	67.2	0.0	2.2
WJ3001242	0.12	57.4	186.4	190.0	1.1	192.5	0.0	2.4
WJ3000394	0.05	55.9	186.0	65.0	3.6	67.8	0.0	2.7
WJ3000350	0.05	53.9	186.0	65.0	5.6	69.7	0.0	4.6
WJ3000351	0.03	54.3	186.0	65.0	5.9	69.9	0.0	4.8
WJ3000491	0.06	54.6	186.0	65.0	6.7	70.6	0.0	5.5
WJ3000975	0.07	77.9	186.6	190.0	3.7	195.7	0.0	5.6
WJ3000352	0.12	54.7	186.0	65.0	7.2	71.1	0.0	5.9
WJ3000058	0.24	57.2	186.0	65.0	7.9	71.5	0.0	6.3
WJ3000349	0.12	55.4	186.0	65.0	9.2	72.9	0.0	7.8
WJ3000976	0.06	78.0	186.6	190.0	5.2	198.1	0.0	8.0
WJ52820	0.01	51.1	186.0	65.0	9.3	73.8	0.0	8.8
WJ14675	0.17	58.8	186.0	65.0	11.7	74.8	0.0	9.6
WJ3000037	0.29	54.0	186.0	65.0	11.2	75.5	0.0	10.2
WJ52818	0.15	51.2	186.0	65.0	10.8	75.8	0.0	10.6
WJ3000036	0.22	56.2	186.0	65.0	12.1	75.9	0.0	10.7
WJ52804	0.03	55.1	186.0	65.0	12.2	76.1	0.0	11.0
WJ52807	0.15	55.4	186.0	65.0	12.4	76.4	0.0	11.2
WJ52814	0.06	54.1	186.0	65.0	12.2	76.4	0.0	11.3
WJ57286	0.38	59.7	186.0	65.0	13.7	76.8	0.0	11.5

17103 - Eglinton Laird Intensification Water Modelling - Jan 2018 - Post-Dev - Upgraded System Max Daily Demand with Fireflow Simulation Run

Note:- At any given node the Available Flow at Hydrant must be greater than Total demand. Therefore the Residual Fire Flow at any node should be greater than Zero (indicating a greater available fire flow than what is required).

ID	Static Demand (L/s)	Static Pressure (psi)	Static Head (m)	Fire-Flow Demand (L/s)	Residual Pressure (psi)	Available Flow at Hydrant (L/s)	Available Flow Pressure (psi)	Residual Fire Flow (L/s)
WJ52806	0.04	54.3	186.0	65.0	12.4	76.6	0.0	11.5
WJ14740	0.05	52.0	186.0	65.0	11.8	76.7	0.0	11.6
WJ3000047	0.08	58.4	186.5	65.0	14.5	76.8	0.0	11.7
WJ3000043	0.35	59.7	186.0	65.0	14.7	77.9	0.0	12.5
WJ3000035	0.16	59.1	186.0	65.0	14.8	78.0	0.0	12.8
WJ52813	0.25	54.3	186.0	65.0	13.4	78.1	0.0	12.9
WJ52809	0.09	55.7	186.0	65.0	14.2	78.3	0.0	13.2
WJ3000889	0.09	84.8	186.5	65.0	24.1	78.7	0.0	13.6
WJ3000884	0.16	70.2	186.6	65.0	20.1	78.9	0.0	13.8
WJ52803	0.04	56.6	186.0	65.0	15.0	78.9	0.0	13.9
WJ3000042	0.4	59.8	186.0	65.0	16.0	79.4	0.0	14.0
WJ3000646	0.26	63.0	186.0	65.0	17.4	79.7	0.0	14.5
WJ3000034	0.29	60.4	186.0	65.0	16.7	79.9	0.0	14.7
WJ14604	0.05	57.4	186.0	65.0	17.2	81.4	0.0	16.4
WJ14724	0.12	58.0	186.0	65.0	17.9	82.3	0.0	17.2
WJ3000023	0.04	58.4	186.0	65.0	19.2	83.7	0.0	18.6
WJ52810	0.16	61.8	186.0	65.0	20.6	84.1	0.0	18.9
WJ3000486	0.14	62.8	186.0	65.0	21.4	84.7	0.0	19.5
WJ14744	0.16	60.3	186.0	65.0	20.7	85.0	0.0	19.8
WJ17210	0.5	59.7	186.0	65.0	23.1	89.2	0.0	23.7
WJ51921	0.14	76.9	186.6	317.0	8.1	341.0	0.0	23.8
WJ3000024	0.12	59.9	186.0	65.0	23.4	89.2	0.0	24.1
WJ3000851	0.19	60.6	186.6	65.0	25.7	89.9	0.0	24.7
WJ14608	0.07	67.1	186.0	65.0	26.9	89.9	0.0	24.8
WJ3000542	0.11	63.6	186.4	65.0	29.9	95.0	0.0	29.9
J38	0	79.3	186.6	317.0	27.2	347.3	20.0	30.3
WJ3000541	0.15	63.8	186.4	65.0	30.1	95.5	0.0	30.4
WJ3001168	0.18	76.8	186.0	65.0	35.6	96.3	0.0	31.1
WJ3001169	0.02	79.6	186.0	65.0	38.3	98.1	0.0	33.1
WJ51919	0.08	76.5	186.6	317.0	10.9	351.0	0.0	33.9
WJ55058	0.02	82.7	186.0	65.0	41.4	100.2	0.0	35.2
J40	0	81.3	186.6	317.0	28.6	352.5	20.0	35.5
WJ57290	1.96	83.8	186.0	65.0	42.5	103.1	0.0	36.1
WJ3000569	0.29	57.2	186.2	65.0	29.0	102.1	0.0	36.8
WJ3001089	0.79	92.1	190.8	317.0	16.1	354.8	0.0	37.0
J36	0	80.0	186.6	317.0	28.8	354.7	20.0	37.7
WJ3000117	0.17	58.7	186.5	65.0	32.1	104.1	0.0	38.9
WJ3000052	0.06	68.8	186.6	65.0	38.1	104.3	0.0	39.2
WJ3000568	0.14	61.1	186.2	65.0	32.3	104.7	0.0	39.5
WJ3000339	0.7	88.8	186.6	65.0	50.6	106.6	0.0	40.9
J44	0	80.7	186.6	317.0	29.6	358.1	20.0	41.1
WJ3001155	0.01	85.5	186.9	190.0	23.9	231.8	0.0	41.8
WJ3000645	0.31	64.4	186.4	65.0	37.3	110.5	0.0	45.1

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ID	Static Demand (L/s)	Static Pressure (psi)	Static Head (m)	Fire-Flow Demand (L/s)	Residual Pressure (psi)	Available Flow at Hydrant (L/s)	Available Flow Pressure (psi)	Residual Fire Flow (L/s)
WJ3000536	0.3	61.1	186.2	65.0	34.6	111.5	0.0	46.2
J48	0	82.8	186.7	317.0	32.3	369.3	20.0	52.3
WJ3000014	0.02	62.1	186.3	65.0	38.3	118.0	0.0	53.0
WJ3000537	0.24	58.7	186.2	65.0	35.7	120.1	0.0	54.9
WJ3000890	0.94	84.4	186.5	65.0	54.6	121.2	0.0	55.3
WJ3000643	0.38	62.3	186.2	65.0	38.4	121.1	0.0	55.8
J42	0	81.9	186.6	317.0	32.8	373.3	20.0	56.3
WJ3000538	0.34	58.2	186.2	65.0	35.8	121.7	0.0	56.4
WJ31227	0.08	55.1	186.5	190.0	17.6	246.5	0.0	56.4
WJ3000015	0.34	62.1	186.3	65.0	40.2	125.6	0.0	60.2
WJ3000540	0.3	61.1	186.4	65.0	39.8	127.2	0.0	61.9
J46	0	83.5	186.7	317.0	34.3	379.2	20.0	62.2
WJ3000432	0.46	46.1	186.6	65.0	30.7	130.9	0.0	65.5
WJ3000539	0.23	59.2	186.3	65.0	39.3	133.0	0.0	67.8
WJ3000854	0.39	74.7	186.7	190.0	29.0	259.8	0.0	69.4
WJ54892	0.42	58.8	186.3	65.0	39.3	135.3	0.0	69.9
WJ23837	0.38	54.5	186.5	65.0	37.8	136.4	0.0	71.0
WJ3000016	0.4	85.3	187.8	190.0	34.8	261.6	0.0	71.2
WJ3000074	0.01	74.2	186.5	65.0	52.4	136.2	0.0	71.2
WJ3001068	0.27	78.4	186.7	317.0	20.6	388.9	0.0	71.7
WJ55851	0.01	69.2	186.6	65.0	48.9	137.0	0.0	72.0
WJ3000874	0.09	59.5	186.3	65.0	40.5	137.6	0.0	72.5
WJ3000855	0.27	77.1	186.7	190.0	31.7	266.0	0.0	75.7
WJ3000967	0.18	62.0	186.4	65.0	44.0	143.6	0.0	78.4
WJ3000869	0.43	83.0	186.5	65.0	60.6	143.8	0.0	78.4
WJ3000519	0.13	76.9	186.7	190.0	33.5	273.6	0.0	83.4
WJ3000478	0.44	60.3	186.4	65.0	43.4	149.6	0.0	84.2
WJ3000971	0.34	57.1	186.3	65.0	41.1	151.7	0.0	86.4
WJ3000875	0.54	58.6	186.3	65.0	42.2	152.0	0.0	86.5
WJ3000972	0.44	56.6	186.4	65.0	41.0	153.6	0.0	88.2
WJ3000433	0.22	47.2	186.6	65.0	34.4	153.7	0.0	88.4
WJ3000046	0.73	59.1	186.5	65.0	43.7	155.4	0.0	89.7
WJ3000966	0.9	62.5	186.4	65.0	46.1	155.8	0.0	89.9
WJ51918	1.66	76.3	186.6	317.0	23.9	412.6	0.0	93.9
WJ3000011	0.29	43.8	186.6	65.0	32.3	160.2	0.0	94.9
WJ3001238	0.17	79.8	186.7	190.0	37.7	285.8	0.0	95.6
WJ3000996	0.34	80.1	186.6	317.0	25.7	413.1	0.0	95.8
WJ3000050	0.52	58.4	186.5	190.0	26.0	286.9	0.0	96.4
WJ3000970	0.36	60.2	186.3	65.0	45.1	165.1	0.0	99.7
WJ3000434	0.34	50.9	186.6	65.0	38.5	166.1	0.0	100.8
WJ3000579	0.48	56.2	186.5	65.0	42.8	168.9	0.0	103.4
WJ3000968	0.33	61.6	186.4	65.0	46.9	169.0	0.0	103.7
WJ55199	0.05	82.8	186.6	65.0	65.2	169.8	0.0	104.7

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WJ3000979	0.01	70.6	186.6	65.0	55.4	170.6	0.0	105.6
WJ3000445	0.36	74.5	186.5	65.0	58.5	171.4	0.0	106.0
WJ3000001	0.44	60.3	186.4	65.0	46.3	171.6	0.0	106.2
WJ3000002	0.38	59.3	186.4	65.0	45.5	171.9	0.0	106.6
WJ3000802	0.38	69.1	186.6	65.0	54.3	172.0	0.0	106.6
WJ3000372	0.1	70.2	186.6	65.0	55.2	172.0	0.0	106.9
WJ3000012	0.4	53.9	186.6	65.0	41.6	172.4	0.0	107.0
WJ3000444	0.13	74.3	186.5	65.0	58.6	173.3	0.0	108.2
J90	0	78.5	186.7	190.0	39.6	299.2	0.0	109.2
WJ56502	0.28	82.6	186.6	65.0	66.2	178.9	0.0	113.6
WJ55201	0.1	82.6	186.6	65.0	66.3	178.8	0.0	113.7
WJ3000073	1.18	75.3	186.5	65.0	60.0	180.1	0.0	114.0
WJ3000969	0.11	61.4	186.4	65.0	47.9	181.1	0.0	116.0
WJ3000480	0.67	61.6	186.5	65.0	48.5	182.3	0.0	116.7
WJ23834	0.47	52.2	186.5	65.0	40.9	182.4	0.0	117.0
WJ51927	0.67	81.5	186.6	317.0	29.8	435.2	0.0	117.6
WJ3000883	0.71	57.4	186.5	65.0	45.1	183.4	0.0	117.7
WJ3000479	0.51	61.3	186.5	65.0	48.4	184.4	0.0	118.9
WJ51925	0.61	81.9	186.6	317.0	30.5	438.0	0.0	120.4
WJ3001164	0.07	82.2	186.9	190.0	44.6	314.5	0.0	124.5
WJ3000435	0.29	59.3	186.6	65.0	47.6	190.7	0.0	125.4
WJ3000281	0.24	72.8	186.6	65.0	59.4	192.0	0.0	126.7
WJ3000003	0.41	57.3	186.4	65.0	45.5	192.8	0.0	127.3
WJ3001069	0.62	79.7	186.7	317.0	30.8	445.8	0.0	128.2
WJ3000791	0.06	51.8	186.5	65.0	41.2	193.7	0.0	128.6
WJ27595	0.57	83.5	186.8	317.0	32.8	446.8	0.0	129.2
WJ3000115	0.48	58.5	186.5	65.0	47.1	195.4	0.0	129.9
WJ27575	0.65	83.5	186.8	317.0	33.2	449.6	0.0	131.9
WJ3000013	0.31	59.3	186.6	65.0	48.0	197.5	0.0	132.2
WJ3000852	0.38	70.2	186.6	65.0	57.5	198.9	0.0	133.5
WJ3000289	0.35	54.8	186.5	65.0	44.2	200.4	0.0	135.1
WJ56518	22.03	87.4	187.7	317.0	36.3	476.0	0.0	137.0
WJ3000279	0.48	56.7	186.6	65.0	46.1	203.5	0.0	138.0
WJ3000443	0.24	73.4	186.6	65.0	60.6	203.4	0.0	138.2
WJ23835	0.49	52.6	186.5	65.0	42.5	204.4	0.0	139.0
WJ56519	5.17	87.9	187.7	317.0	37.0	462.1	0.0	140.0
WJ3000482	0.24	64.9	186.6	65.0	53.4	205.6	0.0	140.4
WJ3000355	0.18	75.9	186.6	65.0	63.0	206.1	0.0	140.9
WJ3000583	0.18	69.4	186.6	65.0	57.5	206.5	0.0	141.4
WJ3000483	0.23	65.0	186.6	65.0	53.7	208.2	0.0	143.0
WJ3000800	0.13	79.3	186.7	317.0	32.6	460.5	0.0	143.4
WJ3000581	0.42	65.2	186.5	65.0	53.6	208.8	0.0	143.4
WJ3000436	0.4	65.5	186.6	65.0	54.2	209.5	0.0	144.1

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WJ3000799	0.01	79.4	186.7	317.0	32.7	461.3	0.0	144.3
WJ3000345	1.99	77.6	186.7	317.0	32.1	463.7	0.0	144.8
WJ3000528	0.15	79.4	186.7	317.0	32.8	461.9	0.0	144.8
WJ3000354	0.31	74.1	186.6	65.0	61.7	210.2	0.0	144.9
WJ3000055	0.18	51.5	186.6	65.0	41.9	211.7	0.0	146.5
WJ3001074	0.14	79.7	186.7	317.0	33.2	463.9	0.0	146.7
WJ3000049	0.4	60.9	186.5	65.0	50.0	212.7	0.0	147.3
WJ3000481	0.66	63.4	186.5	65.0	52.3	213.0	0.0	147.4
WJ3000048	0.07	61.1	186.5	65.0	50.2	213.0	0.0	147.9
J64	0	80.0	186.7	317.0	33.6	465.0	0.0	148.0
WJ3000116	0.3	59.5	186.5	65.0	49.1	214.5	0.0	149.2
WJ56492	36.43	89.0	187.9	317.0	39.4	503.5	0.0	150.0
WJ3000278	0.12	52.2	186.6	65.0	42.7	215.5	0.0	150.4
WJ3000094	0.61	40.8	186.6	65.0	32.6	216.7	0.0	151.1
WJ23838	0.43	53.7	186.5	65.0	44.1	216.9	0.0	151.4
WJ3000580	0.3	59.9	186.5	65.0	49.3	218.3	0.0	153.0
WJ3000507	0.31	79.8	186.7	317.0	34.3	471.2	0.0	153.9
WJ3000437	0.37	69.2	186.6	65.0	58.1	220.2	0.0	154.8
WJ3000095	0.03	41.6	186.6	65.0	33.4	219.8	0.0	154.8
J86	0	78.6	186.6	190.0	46.2	344.9	0.0	154.9
WJ3000923	0.27	71.2	186.6	65.0	59.8	225.1	0.0	159.9
WJ3000442	0.36	72.1	186.6	65.0	61.1	227.9	0.0	162.6
WJ3000585	0.03	73.6	186.6	65.0	62.6	228.6	0.0	163.6
WJ55196	0.36	80.1	186.6	65.0	68.3	229.1	0.0	163.7
WJ56421	0.23	74.5	186.6	65.0	63.3	229.1	0.0	163.9
WJ3000438	0.44	70.4	186.6	65.0	59.7	230.3	0.0	164.9
WJ3000280	0.59	69.9	186.6	65.0	59.4	232.9	0.0	167.3
WJ38310	0.29	81.2	186.7	190.0	49.5	357.6	0.0	167.3
WJ3000803	0.15	71.2	186.6	65.0	60.6	232.7	0.0	167.6
WJ3000096	0.11	44.8	186.6	65.0	36.7	235.9	0.0	170.7
WJ3000572	0.53	74.9	186.6	65.0	64.2	239.1	0.0	173.5
WJ56397	0.08	76.4	186.6	65.0	65.4	238.7	0.0	173.6
WJ3000804	0.2	70.6	186.6	65.0	60.3	239.2	0.0	174.0
WJ3000051	0.47	61.8	186.5	65.0	52.3	240.4	0.0	174.9
WJ3000097	0.14	46.0	186.6	65.0	37.9	241.0	0.0	175.9
WJ3000792	0.56	56.1	186.5	65.0	47.1	241.6	0.0	176.0
WJ56401	0.08	73.9	186.6	65.0	63.3	241.9	0.0	176.8
WJ3000920	0.28	70.6	186.6	65.0	60.4	242.3	0.0	177.0
WJ3000005	0.26	74.9	186.6	65.0	64.5	244.4	0.0	179.2
WJ3000886	0.61	72.9	186.6	65.0	62.8	245.2	0.0	179.6
WJ22402	0.34	75.6	186.6	65.0	65.3	247.4	0.0	182.1
WJ3000119	0	76.5	186.8	190.0	47.8	372.5	0.0	182.5
WJ3000919	0.41	64.7	186.6	65.0	55.2	248.0	0.0	182.6

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WJ3000584	0.07	71.7	186.6	65.0	61.7	248.5	0.0	183.4
WJ56393	0.15	74.5	186.6	65.0	64.2	249.5	0.0	184.4
WJ3000885	0.35	73.3	186.6	65.0	63.2	250.0	0.0	184.6
WJ3000544	1.22	86.6	187.5	65.0	76.0	252.8	0.0	186.5
WJ3000347	0.66	80.1	186.8	190.0	50.8	377.8	0.0	187.2
WJ38309	0.62	81.2	186.7	190.0	51.7	379.6	0.0	189.0
WJ3000807	0.38	76.3	186.6	65.0	66.2	255.7	0.0	190.3
WJ22421	0.22	77.3	186.6	65.0	67.2	256.7	0.0	191.5
WJ3000573	0.07	79.2	186.6	65.0	69.1	259.7	0.0	194.6
WJ3001165	0.19	78.9	186.9	190.0	50.7	385.0	0.0	194.8
WJ3000212	1.1	51.9	186.6	65.0	43.8	261.8	0.0	195.7
WJ3000315	0.9	72.5	186.6	65.0	62.8	261.9	0.0	196.0
WJ56399	0.09	76.6	186.6	65.0	66.7	264.2	0.0	199.2
WJ3000793	0.4	57.8	186.5	65.0	49.3	264.7	0.0	199.3
WJ3000098	0.24	52.3	186.6	65.0	44.3	265.0	0.0	199.8
WJ53276	0.07	78.2	186.6	65.0	68.4	264.9	0.0	199.8
WJ3000853	1.16	73.1	186.6	190.0	46.3	391.2	0.0	200.1
WJ56395	0.19	76.4	186.6	65.0	66.5	265.8	0.0	200.7
WJ53269	0.04	78.3	186.6	65.0	68.5	265.7	0.0	200.7
WJ3000629	0.61	85.8	186.9	190.0	56.4	392.6	0.0	202.0
WJ3000282	0.77	75.5	186.6	65.0	65.8	267.9	0.0	202.1
WJ53264	0.04	78.2	186.6	65.0	68.5	267.5	0.0	202.4
WJ53252	0.3	73.9	186.6	65.0	64.3	269.5	0.0	204.2
WJ3000563	0.25	56.8	186.5	65.0	48.5	270.6	0.0	205.3
WJ3000624	0.09	57.0	186.5	65.0	48.7	272.4	0.0	207.3
WJ56394	0.23	73.9	186.6	65.0	64.4	272.7	0.0	207.4
WJ3000316	0.96	75.8	186.6	65.0	66.3	274.5	0.0	208.5
WJ51936	0.21	73.2	186.6	190.0	47.0	398.8	0.0	208.6
WJ56384	0.06	72.5	186.6	65.0	63.3	274.0	0.0	208.9
WJ3000071	0.09	80.6	186.6	65.0	70.7	274.1	0.0	209.0
WJ3000858	0.18	85.0	187.0	190.0	56.6	401.0	0.0	210.8
WJ3000337	0.61	73.0	186.6	190.0	47.2	403.2	0.0	212.6
WJ3000995	0.5	78.3	186.6	190.0	51.4	405.5	0.0	215.0
WJ53277	0.44	78.2	186.6	65.0	68.9	280.6	0.0	215.2
WJ3000070	0.17	81.1	186.6	65.0	71.4	281.4	0.0	216.2
WJ3000924	0.92	73.1	186.7	190.0	47.5	407.4	0.0	216.5
WJ3000520	0.31	78.0	186.7	65.0	68.9	281.9	0.0	216.6
WJ3000805	0.19	73.3	186.6	65.0	64.3	281.8	0.0	216.6
WJ50353	0.19	87.5	188.0	190.0	59.8	408.1	0.0	217.9
WJ3000806	0.25	73.6	186.6	65.0	64.7	284.3	0.0	219.0
WJ51883	0.44	59.8	186.6	65.0	51.8	288.0	0.0	222.6
WJ27615	0.47	83.3	186.8	190.0	56.0	413.2	0.0	222.7
WJ51914	0.08	65.9	186.6	65.0	57.6	289.4	0.0	224.3

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WJ3000794	0.34	60.6	186.6	65.0	52.5	289.8	0.0	224.4
WJ3000439	0.22	71.4	186.6	65.0	62.7	290.0	0.0	224.8
WJ3000332	0.58	59.8	186.6	65.0	51.8	291.8	0.0	226.2
WJ56382	0.13	72.5	186.6	65.0	63.7	293.2	0.0	228.1
WJ3000535	0.08	78.4	186.7	190.0	52.7	418.2	0.0	228.1
WJ3000441	0.06	71.3	186.6	65.0	62.7	295.4	0.0	230.3
WJ3000346	0.95	78.8	186.7	190.0	53.2	421.4	0.0	230.5
WJ3000099	0.28	61.4	186.6	65.0	53.5	299.6	0.0	234.3
WJ3000283	0.55	82.0	186.6	65.0	72.8	300.7	0.0	235.2
WJ51893	0.02	73.3	186.6	65.0	64.9	303.1	0.0	238.1
WJ3000440	0.11	71.4	186.6	65.0	62.9	304.0	0.0	238.9
WJ3000054	0.19	59.5	186.6	65.0	51.8	304.7	0.0	239.5
WJ3000166	0.94	80.9	186.7	190.0	55.3	430.9	0.0	239.9
WJ51882	0.05	59.8	186.6	65.0	52.1	305.9	0.0	240.9
WJ3001088	0.22	91.1	190.8	190.0	68.2	432.0	0.0	241.8
WJ3000574	0.9	80.1	186.7	65.0	71.5	310.2	0.0	244.3
WJ3000977	0.29	77.8	186.7	190.0	53.0	434.9	0.0	244.7
WJ3000625	0.41	63.3	186.5	65.0	55.4	310.7	0.0	245.3
WJ51892	0.06	72.6	186.6	65.0	64.3	310.5	0.0	245.5
WJ3000069	0.57	81.7	186.6	65.0	72.8	311.2	0.0	245.7
WJ3000511	0.22	83.4	186.8	190.0	57.9	436.2	0.0	246.0
WJ3000859	0.03	84.5	187.0	190.0	58.7	437.0	0.0	246.9
WJ3000508	1.59	82.5	186.8	190.0	57.2	439.6	0.0	248.0
WJ3000100	0.42	64.7	186.6	65.0	56.8	315.0	0.0	249.5
WJ50354	0.02	87.5	188.0	190.0	62.3	440.4	0.0	250.3
WJ3000120	0.54	76.8	186.8	190.0	52.9	443.0	0.0	252.5
WJ3000982	1.28	84.7	187.8	190.0	60.4	445.4	0.0	254.2
WJ3000060	0.01	81.6	186.7	190.0	56.8	447.1	0.0	257.1
WJ3000065	0.69	81.9	186.6	190.0	56.9	448.6	0.0	257.9
WJ3000118	0.03	76.5	186.8	190.0	53.0	448.3	0.0	258.3
WJ3001072	0.04	80.5	186.7	190.0	56.0	449.4	0.0	259.4
WJ3000064	0.12	81.8	186.7	190.0	57.1	450.3	0.0	260.2
WJ50362	0.02	86.6	188.0	190.0	62.2	452.9	0.0	262.9
WJ3000857	0.15	82.1	186.7	190.0	57.8	456.8	0.0	266.7
WJ3000582	0.42	69.1	186.5	65.0	61.2	333.1	0.0	267.7
WJ27596	0.32	83.5	186.7	190.0	58.9	458.5	0.0	268.2
WJ3000101	0.43	68.2	186.6	65.0	60.5	334.1	0.0	268.7
WJ27574	0.58	83.3	186.8	190.0	58.9	459.7	0.0	269.1
WJ3000925	0.3	77.5	186.8	190.0	54.2	459.5	0.0	269.2
WJ51894	0.26	65.9	186.6	65.0	58.3	334.5	0.0	269.2
WJ27614	0.12	83.5	186.8	190.0	59.2	460.4	0.0	270.3
WJ3000068	0.64	82.2	186.6	65.0	73.8	337.2	0.0	271.6
WJ3000167	0.27	85.9	186.9	190.0	61.4	462.0	0.0	271.7

17103 - Eglinton Laird Intensification Water Modelling - Jan 2018 - Post-Dev - Upgraded System Max Daily Demand with Fireflow Simulation Run

Note:- At any given node the Available Flow at Hydrant must be greater than Total demand. Therefore the Residual Fire Flow at any node should be greater than Zero (indicating a greater available fire flow than what is required).

ID	Static Demand (L/s)	Static Pressure (psi)	Static Head (m)	Fire-Flow Demand (L/s)	Residual Pressure (psi)	Available Flow at Hydrant (L/s)	Available Flow Pressure (psi)	Residual Fire Flow (L/s)
WJ3000795	0.51	69.7	186.6	65.0	62.0	339.8	0.0	274.3
WJ3000575	0.02	80.5	186.7	190.0	56.9	464.8	0.0	274.8
WJ3000530	0.01	80.4	186.7	190.0	56.9	466.2	0.0	276.2
WJ26597	0.24	78.4	186.7	190.0	55.4	467.4	0.0	277.2
WJ3000526	0.01	77.4	186.8	190.0	54.6	467.6	0.0	277.5
WJ27634	0.4	83.9	186.9	190.0	60.0	468.0	0.0	277.6
WJ3000525	0.33	77.4	186.8	190.0	54.6	468.0	0.0	277.7
WJ27654	0.05	86.2	187.1	190.0	62.0	469.2	0.0	279.2
J74	0	78.6	186.8	190.0	55.7	470.8	0.0	280.8
WJ50350	0.01	86.6	188.0	190.0	63.3	470.9	0.0	280.9
WJ38271	0.01	85.0	187.0	190.0	61.3	471.8	0.0	281.8
WJ3000102	0.43	71.1	186.6	65.0	63.4	348.3	0.0	282.9
WJ3000334	0.06	72.0	186.6	65.0	64.4	349.1	0.0	284.1
WJ26594	0.27	80.5	186.7	190.0	57.3	474.4	0.0	284.1
WJ3000628	0.47	84.7	186.9	190.0	61.0	476.1	0.0	285.6
WJ38273	0.04	85.0	187.0	190.0	61.6	478.3	0.0	288.2
WJ3000626	1.04	73.2	186.6	65.0	65.4	354.6	0.0	288.6
WJ38289	0.99	84.7	187.0	190.0	61.5	479.8	0.0	288.9
WJ56389	0.14	72.5	186.6	65.0	64.9	356.0	0.0	290.9
WJ38269	0.17	85.0	187.0	190.0	61.8	481.2	0.0	291.1
WJ56431	0.07	72.9	186.6	65.0	65.4	358.9	0.0	293.8
WJ56380	0.09	72.5	186.6	65.0	64.9	360.7	0.0	295.6
WJ3000796	0.39	73.0	186.6	65.0	65.6	361.4	0.0	296.0
WJ56385	0.07	72.5	186.6	65.0	65.0	362.6	0.0	297.6
WJ3000860	0.14	85.1	187.2	190.0	62.3	492.2	0.0	302.0
WJ3000004	1.02	74.4	186.6	65.0	66.8	370.6	0.0	304.6
WJ51908	0.16	72.0	186.6	65.0	64.7	370.5	0.0	305.3
WJ51898	0.23	72.0	186.6	65.0	64.7	371.6	0.0	306.4
WJ53257	0.12	73.9	186.6	65.0	66.5	377.9	0.0	312.8
WJ53253	0.49	74.1	186.6	65.0	66.7	380.2	0.0	314.7
WJ53255	0.17	73.9	186.6	65.0	66.6	381.0	0.0	315.9
WJ3000631	0.1	85.9	186.9	190.0	63.5	507.1	0.0	317.0
WJ24325	1.11	85.9	186.9	190.0	63.5	508.4	0.0	317.3
WJ3000797	0.29	77.7	186.6	65.0	70.4	383.7	0.0	318.4
WJ38249	0.01	85.8	187.4	190.0	64.0	517.5	0.0	327.5
WJ3000808	0.25	77.6	186.6	65.0	70.4	399.5	0.0	334.2
WJ51910	0.22	73.2	186.6	65.0	66.1	400.8	0.0	335.6
WJ51937	0.15	73.2	186.6	65.0	66.2	401.8	0.0	336.6
WJ38229	0.14	85.9	187.4	190.0	64.5	527.5	0.0	337.4
WJ3000798	0.98	78.4	186.6	65.0	71.3	406.1	0.0	340.1
WJ3000067	0.57	82.2	186.6	65.0	75.0	415.5	0.0	349.9
WJ38171	1.15	86.1	187.6	190.0	65.4	542.3	0.0	351.2
WJ3000632	0.79	88.7	187.3	190.0	67.8	547.1	0.0	356.4

17103 - Eglinton Laird Intensification Water Modelling - Jan 2018 - Post-Dev - Upgraded System Max Daily Demand with Fireflow Simulation Run

Note:- At any given node the Available Flow at Hydrant must be greater than Total demand. Therefore the Residual Fire Flow at any node should be greater than Zero (indicating a greater available fire flow than what is required).

ID	Static Demand (L/s)	Static Pressure (psi)	Static Head (m)	Fire-Flow Demand (L/s)	Residual Pressure (psi)	Available Flow at Hydrant (L/s)	Available Flow Pressure (psi)	Residual Fire Flow (L/s)
WJ3001087	0.81	91.5	190.8	190.0	75.1	550.0	0.0	359.2
WJ3000758	2.59	85.7	187.5	190.0	65.7	557.1	0.0	364.6
WJ38150	1.92	86.5	187.9	190.0	66.6	563.2	0.0	371.3
WJ50348	0.42	86.6	188.0	190.0	67.0	568.9	0.0	378.5
WJ3000062	0.05	82.1	186.7	65.0	75.4	454.7	0.0	389.7
WJ26595	0.02	78.4	186.7	65.0	71.9	459.1	0.0	394.0
WJ3000759	5.37	85.4	187.8	190.0	66.9	595.8	0.0	400.4
WJ26598	0.01	78.4	186.7	65.0	72.0	466.4	0.0	401.4
WJ3000760	2.34	85.5	187.8	190.0	67.1	594.8	0.0	402.4
WJ50358	1.56	87.8	188.2	190.0	69.3	598.5	0.0	406.9
WJ3000532	0.02	80.5	186.7	65.0	74.0	473.3	0.0	408.3
WJ3000984	0.27	87.3	188.6	190.0	70.8	644.7	0.0	454.4
WJ3000767	11.04	91.7	190.9	317.0	72.0	874.2	0.0	546.2
WJ3000761	2.29	88.9	189.0	190.0	75.6	766.9	0.0	574.6
WJ3000762	0.35	88.8	189.0	190.0	75.8	777.5	0.0	587.2
WJ3000763	2.27	88.8	189.1	190.0	75.9	781.2	0.0	589.0
WJ3000764	0.38	91.6	190.8	190.0	83.6	1085.5	0.0	895.1
WJ3000765	0.18	91.9	190.9	190.0	84.1	1103.3	0.0	913.1
J16	0.14	89.6	192.0	190.0	84.5	1432.2	0.0	1242.0
WJ3000766	0.16	146.0	193.9	190.0	145.7	9750.4	0.1	9560.2

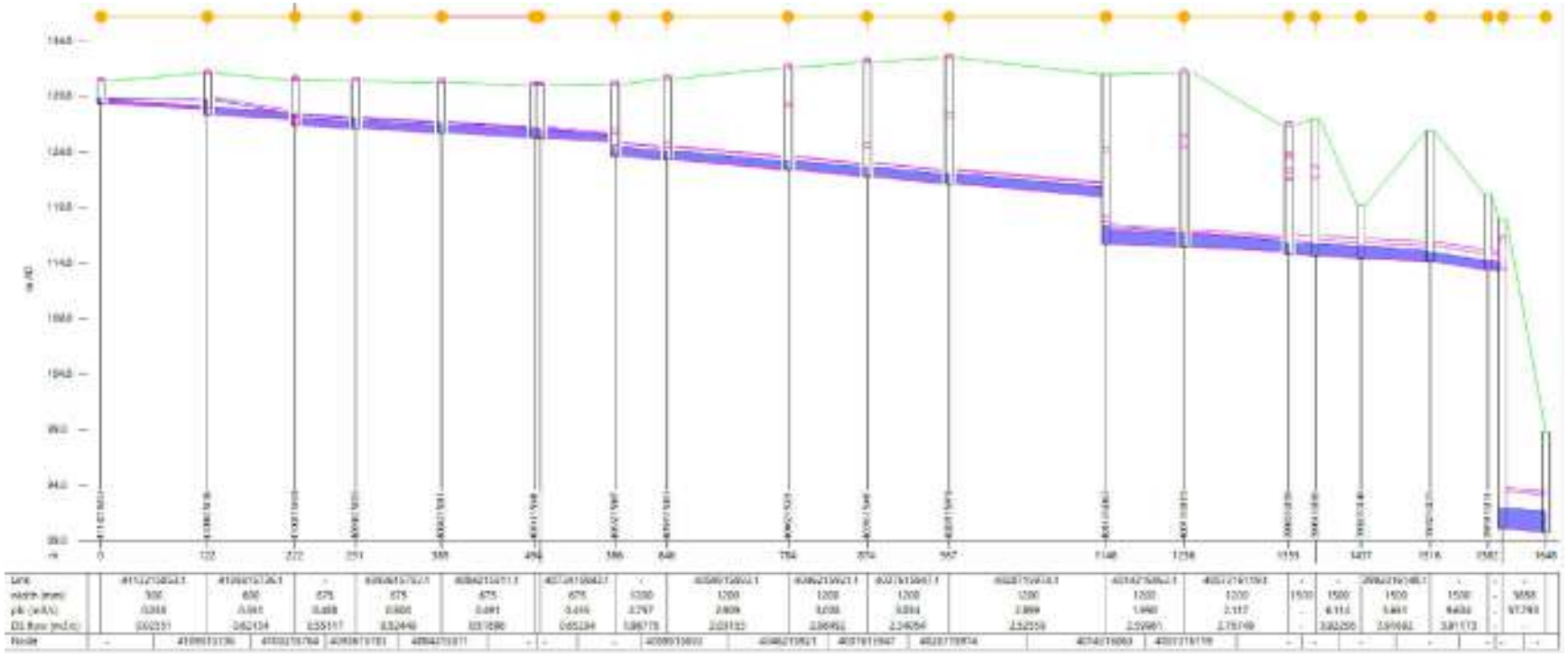
APPENDIX C-3

PROFILES

SCS consulting group ltd

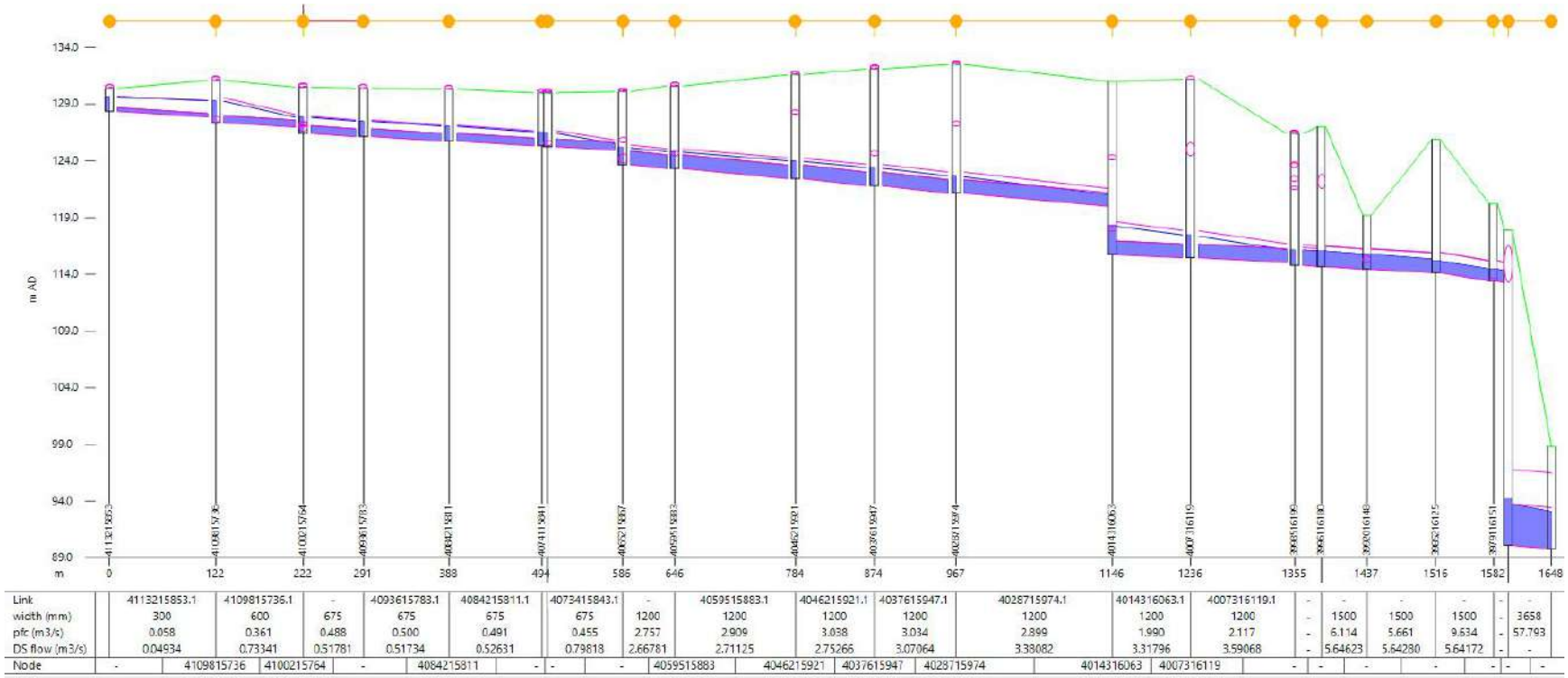
Laird Drive – Pre-Development

2-Year Storm



Laird Drive – Pre-Development

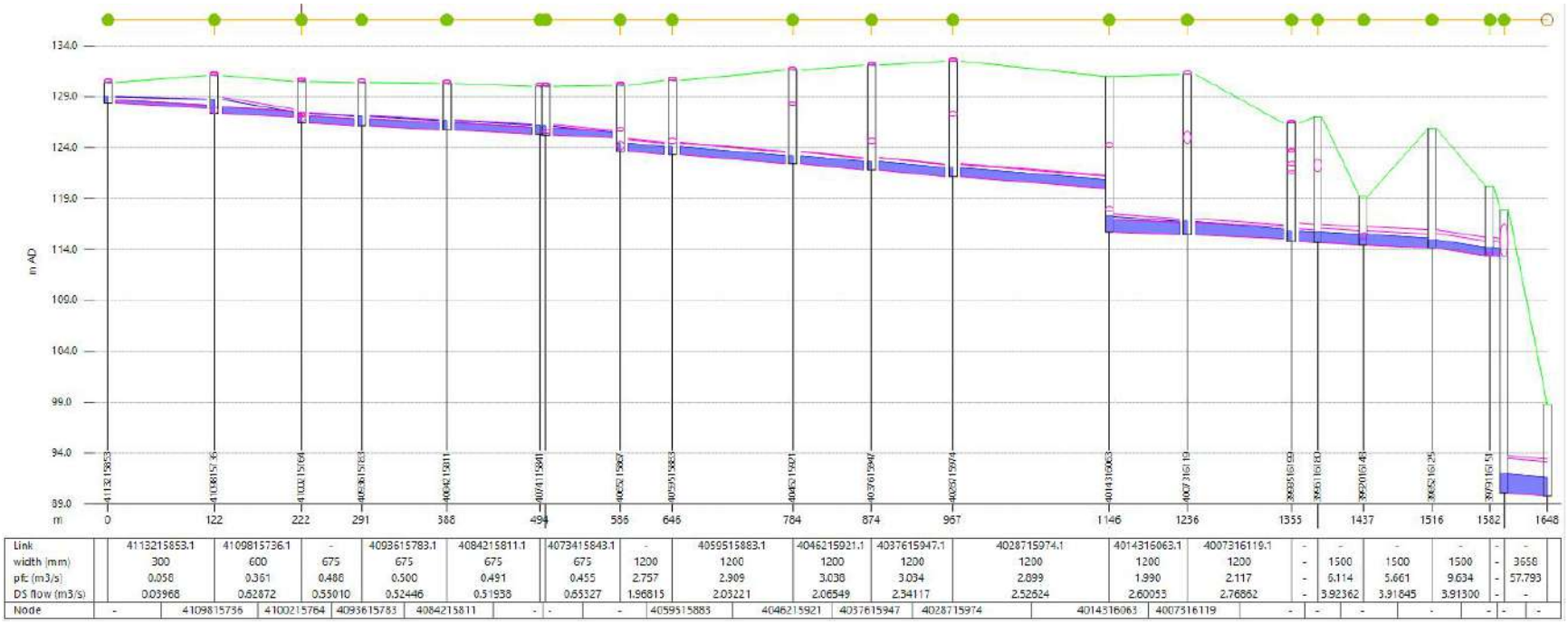
100-Year Storm



Link	4113215853.1	4109815736.1	-	4093615783.1	4084215811.1	4073415843.1	-	4059515883.1	4046215921.1	4037615947.1	4028715974.1	4014316063.1	4007316119.1	-	-	-	-	-	-
width (mm)	300	600	675	675	675	675	1200	1200	1200	1200	1200	1200	1200	-	1500	1500	1500	-	3658
pfc (m3/s)	0.058	0.361	0.488	0.500	0.491	0.455	2.757	2.909	3.038	3.034	2.899	1.990	2.117	-	6.114	5.661	9.634	-	57.793
DS flow (m3/s)	0.04934	0.73341	0.51781	0.51734	0.52631	0.79818	2.66781	2.71125	2.75266	3.07064	3.38082	3.31796	3.59068	-	5.64623	5.64280	5.64172	-	-
Node	-	4109815736	4100215764	-	4084215811	-	-	-	4059515883	4046215921	4037615947	4028715974	4014316063	4007316119	-	-	-	-	-	-	-

Laird Drive – Post-Development

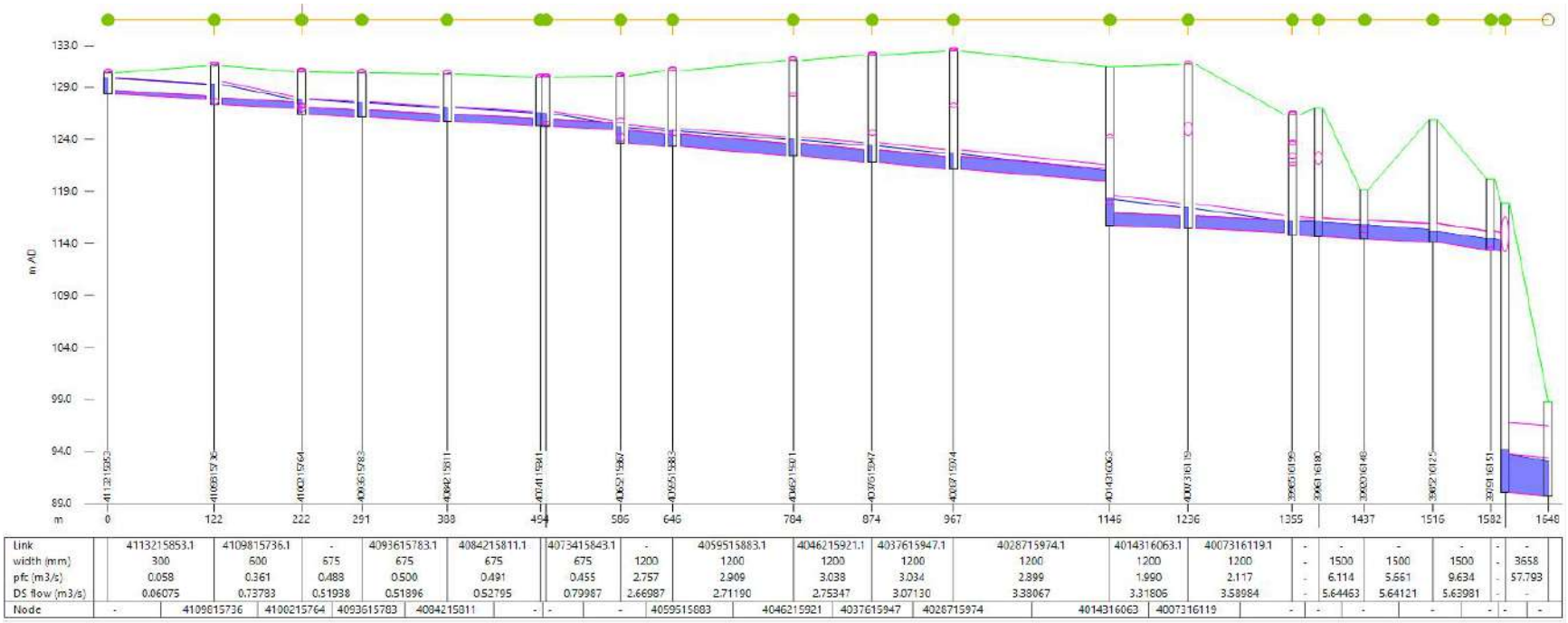
2-Year Storm



Link	4113215853.1	4109815736.1	-	4093615783.1	4084215811.1	4073415843.1	-	4059515883.1	4046215921.1	4037615947.1	4028715974.1	4014316063.1	4007316119.1	-	-	-	-	-	-
width (mm)	300	600	675	675	675	675	1200	1200	1200	1200	1200	1200	1200	-	1500	1500	1500	-	3658
pfc (m3/s)	0.056	0.361	0.486	0.500	0.491	0.455	2.757	2.909	3.038	3.034	2.899	1.990	2.117	-	6.114	5.661	9.634	-	57.793
DS flow (m3/s)	0.03968	0.62872	0.55010	0.52446	0.51938	0.55327	1.96815	2.03221	2.06549	2.34117	2.52624	2.60053	2.76862	-	3.92362	3.91645	3.91300	-	-
Node	-	4109815736	4100215764	4093615783	4084215811	-	-	4059515883	4046215921	4037615947	4028715974	4014316063	4007316119	-	-	-	-	-	-

Laird Drive – Post-Development

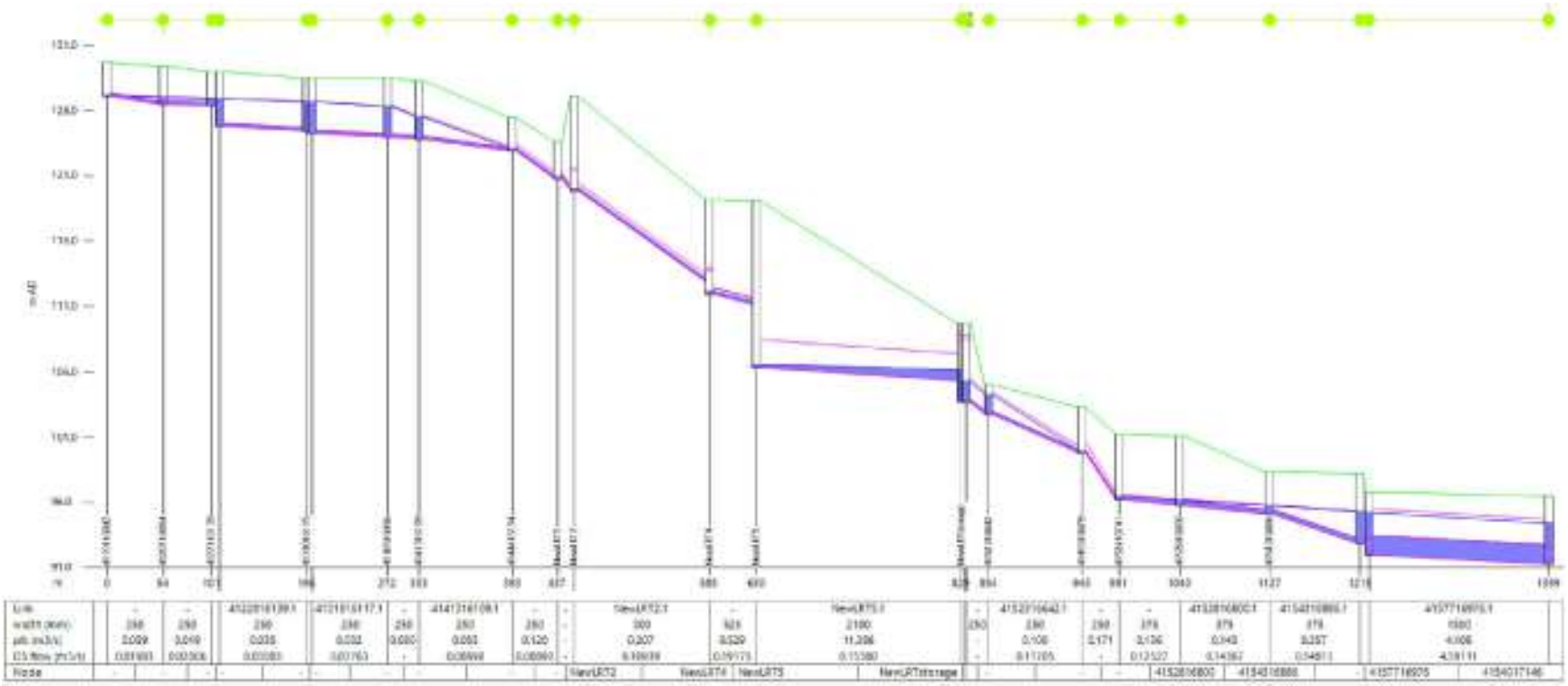
100-Year Storm



Link	4113215853.1	4109815736.1	-	4093615783.1	4084215811.1	4073415843.1	-	4059515883.1	4046215921.1	4037615947.1	4028715974.1	4014316063.1	4007316119.1	-	-	-	-	-	-
width (mm)	300	600	675	675	675	675	1200	1200	1200	1200	1200	1200	1200	-	1500	1500	1500	-	3658
pfc (m3/s)	0.058	0.361	0.488	0.500	0.491	0.455	2.757	2.909	3.038	3.034	2.899	1.990	2.117	-	6.114	5.661	9.634	-	57.793
DS flow (m3/s)	0.06075	0.73783	0.51938	0.51896	0.52795	0.79987	2.66987	2.71190	2.75347	3.07130	3.38067	3.31806	3.58984	-	5.64463	5.64121	5.63981	-	-
Node	-	4109815736	4100215764	4093615783	4084215811	-	-	-	4059515883	4046215921	4037615947	4028715974	4014316063	4007316119	-	-	-	-	-	-	-

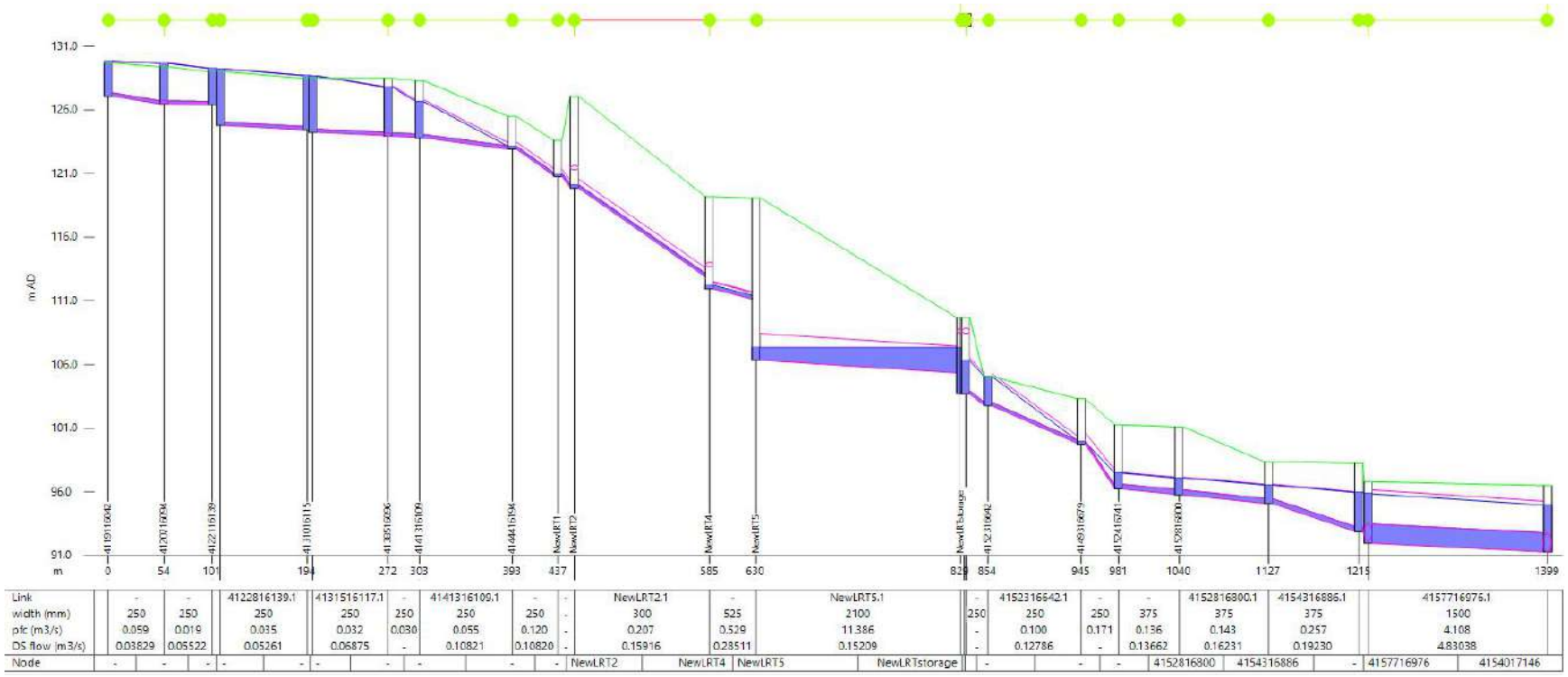
Eglinton Avenue East – Pre-Development

2-Year Storm



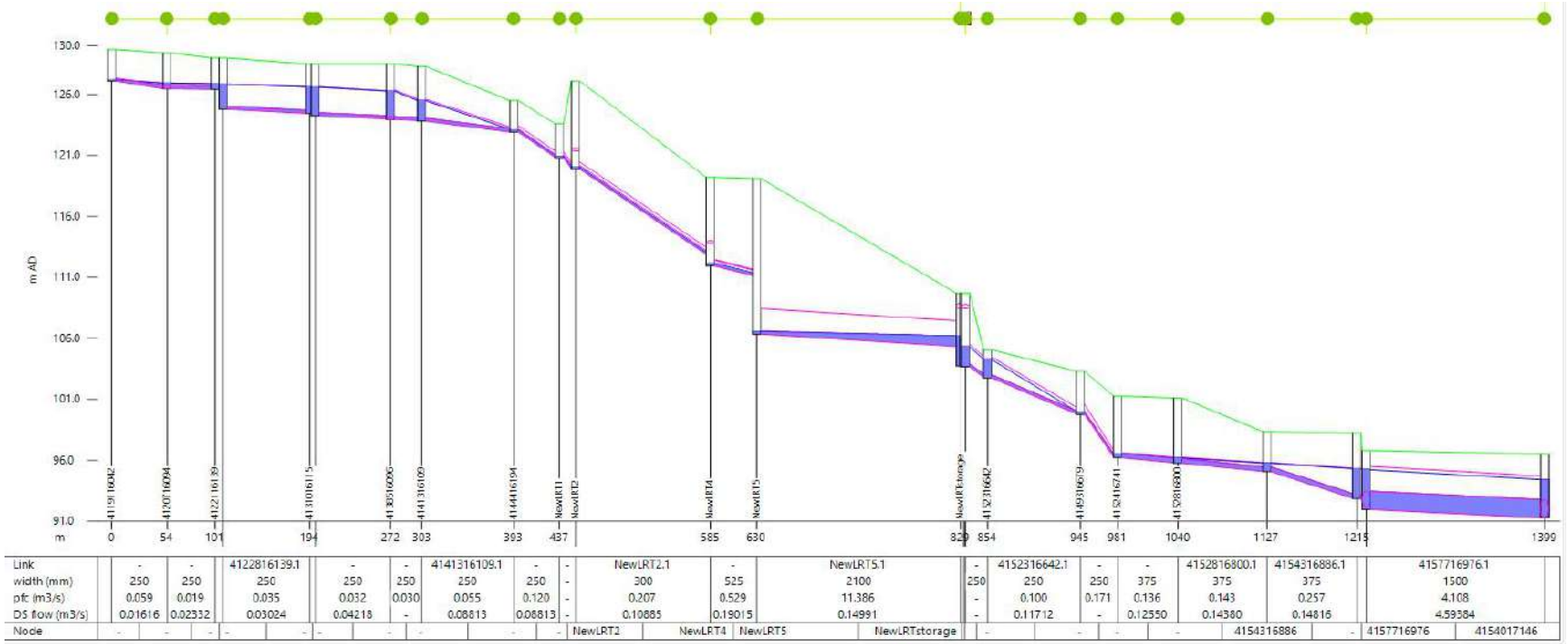
Eglinton Avenue East – Pre-Development

100-Year Storm



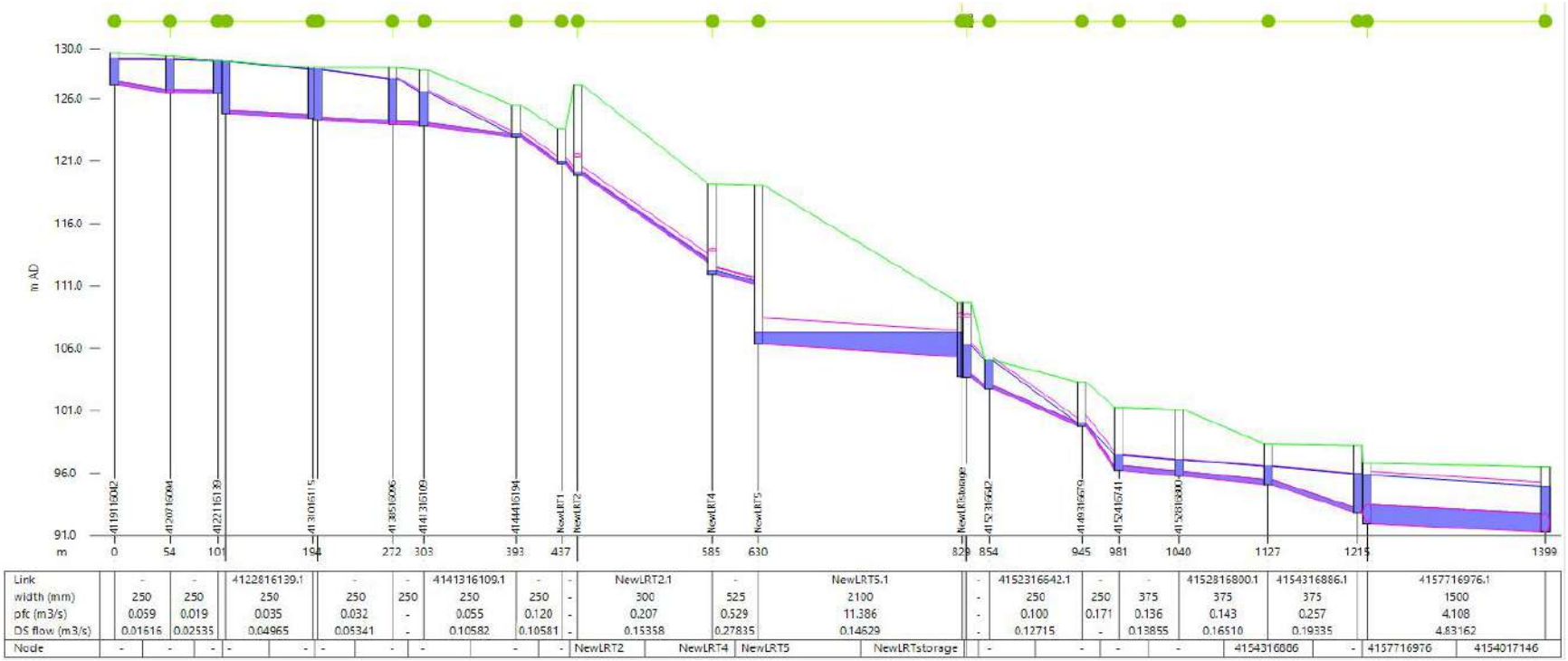
Eglinton Avenue East – Post-Development

2-Year Storm



Eglinton Avenue East – Post-Development

100-Year Storm



APPENDIX C-4

COST ESTIMATE

SCS consulting group ltd

PRELIMINARY COST ESTIMATE SUMMARY PAGE

Project No: 1896
Date: May 14, 2018
Owner:
SCS Estimator: Henry L
Checked By: Julia R

Existing Sanitary Re and Re, Upsizing Existing Watermains

All unit prices are exclusive of Harmonized Sales Tax (H.S.T.).

Assumptions:
This estimate of probable cost is preliminary and is subject to, but not limited to, the following items:

A - GENERAL

- Estimate is for hard construction costs only.
- Estimate of Re and Re and upsizing works does not include allowance for demolition or decommissioning costs.
- Cost is based on representative prices of 2017 work, as well as the current year-to-date contract rates, without allowances for escalation in inflation, etc…
- No utility conflicts and/or required utility relocation are assumed.
- Ground conditions are assumed to be adequate for the proposed works (e.g. no dewatering, sub-excavation, etc.)
- Quantities are for estimating purposes only and were based on preliminary sketch, aerial images and street views sourced through Google Map. Some variation is anticipated at final design.
- Work assumed to be undertaken during season with +7 degree C and up. No winterization cost has been allowed.
- SCS Consulting Group Ltd. has no control over costs of labour, materials, equipment, future conditions or contractor bidding methods at the time of construction.

B - SANTARY RE and RE

- Close one lane of traffic for construction.

C - WATERMAIN UPSIZING and REHABILITATION

- the calcification at the inner wall of the pipe in order to increase the roughness coefficient. For the section going across the creek underneath the bridge assuming power-flush to take place at the chamber located at the top of the slope at both endings of the bridge

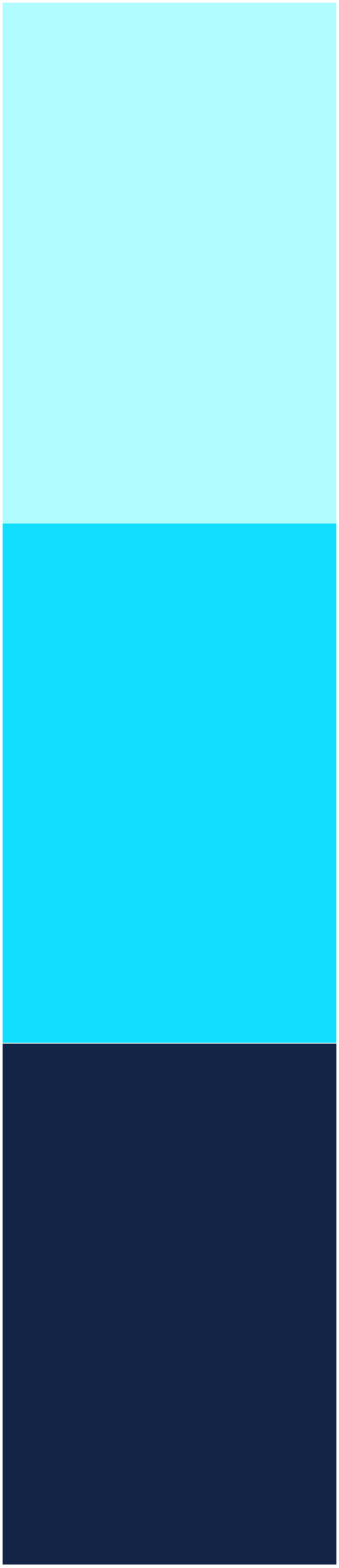
This is an estimate of the general magnitude of the works and associated costs for construction. There should be explicit recognition that the estimate may significantly change due to uncontrollable factors. SCS Consulting Group Ltd. assumes no liability toward the use of this estimate and it shall not be relied upon in any way by a third party.

Existing Sanitary Re and Re, Upsizing Existing Watermains

Project No: 1896
Date: 11 May, 2018
SCS Estimator: Henry L
Checked By: Julia R

ITEM NO.		DESCRIPTION	ESTIMATED QUANTITY	UNIT	UNIT PRICE	AMOUNT
A - SANITARY RE and RE						
	1	Mobilization and demobilization.	1.0	each	**$10,000.00**	$10,000.00
	2	ESC measures.	1.0	lump sum	**$10,000.00**	$10,000.00
	3	Traffic Control	1.0	lump sum	**$18,000.00**	$18,000.00
	4	Mud Dust control	1.0	lump sum	**$10,000.00**	$10,000.00
	5	Pumping to by-pass sewage to facilitate the work.	1.0	lump sum	**$25,000.00**	$25,000.00
	6	Re and Re 250mm dia PVC Sanitary (4m avg depth)	200.0	m	**$1,250.00**	$250,000.00
	7	Re and Re 1200mm dia manhole (4.5m depth)	6.0	each	**$14,000.00**	$84,000.00
	8	Remove and dispose mixed trench material	1500.0	m^3	**$50.00**	$75,000.00
	9	Assume U-fill backfill	1200.0	m^3	**$130.00**	$156,000.00
	10	Re and Re Road asphalt and granular	400.0	m^2	**$90.00**	$36,000.00
					Total Section A:	**$674,000.00**
B - WATERMAIN UPSIZING						
	1	Mobilization and demobilization.	1.0	each	**$10,000.00**	$10,000.00
	2	ESC measures.	1.0	lump sum	**$30,000.00**	$30,000.00
	3	Traffic Control	1.0	lump sum	**$70,000.00**	$70,000.00
	4	Tree/vegetation clearing to facilitate the work.	1.0	lump sum	**$25,000.00**	$25,000.00
	5	Locate, expose, identify and secure existing utilities within boulevard	1.0	lump sum	**$100,000.00**	$100,000.00
	6	By pass potable water in a section not exceeding 100m (or max fire hydrant spacing)	20.0	each	**$40,000.00**	$800,000.00
	7	Mud and Dust control	1.0	lump sum	**$20,000.00**	$20,000.00
	8	Isolate watermain sections not exceeding 100m (or max fire hydrant spacing)	20.0	each	**$7,000.00**	$140,000.00
	9	Remove and upsize existing watermain from 300mm to 400mm and valve/chamber.	850.0	m	**$825.00**	$701,250.00

ITEM NO.		DESCRIPTION	ESTIMATED QUANTITY	UNIT	UNIT PRICE	AMOUNT
	10	Remove and upsize existing watermain from 200mm to 300mm and valve/chamber.	700.0	m	**$550.00**	$385,000.00
	11	Remove and upsize existing watermain from 150mm to 200mm and valve/chamber.	400.0	m	**$400.00**	$160,000.00
	12	Re and re existing hydrants	8.0	each	**$12,000.00**	$96,000.00
	13	Reconnection all new watermain	21.0	each	**$7,500.00**	$157,500.00
	14	Testing and commissioning of new watermain	1.0	lump sum	**$75,000.00**	$75,000.00
	15	Remove and dispose mixed trench material	4000.0	m^3	**$25.00**	$100,000.00
	16	Backfill watermain with Granular B	5600.0	m^3	**$60.00**	$336,000.00
	17	Restore boulevard with topsoil and seed	11000.0	m^2	**$7.00**	$77,000.00
	18	Re and re damaged concrete sidewalk	1000.0	m	**$170.00**	$170,000.00
	19	Restore asphalt parking area	3000.0	m^2	**$60.00**	$180,000.00
					Total Section B:	**$3,632,750.00**
C - WATERMAIN REHABILITATION						
	1	Rehabilitation of existing 400mm (assume PVC) Watermain by power pressure wash along with continuous water pumping (unknown type of pipe used and existing condition of the watermain pipe)	490.0	m	**$300.00**	$147,000.00
	2	CCTV the watermain three (3) times to ensure pipe successfully cleaned	490.0	m	**$30.00**	$14,700.00
					Total Section C:	**$161,700.00**
					Sub-Total	$4,468,450.00
					15% Contingency	$670,267.50
					TOTAL	**$5,138,717.50**



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